

# Luminaire Solutions Interior Lighting 2014 / 2015

Light is OSRAM

# Light is OSRAM

OSRAM designs the future of light. We provide innovative, custom-designed solutions for the complete spectrum of light, creating added value for customers around the world. As the only globally active pure lighting company, OSRAM has a pioneering role and sets standards in the market for light. OSRAM strives to improve quality of life with optimal products and solutions for a wide variety of applications.

Our range includes vertically integrated products and solutions along the complete value creation chain for light, ranging from light sources, including lamps, components and optical semiconductors, to ballasts, other lighting components and complete luminaires, light management systems and lighting solutions, in addition to value-added services.

With the concept of "Light is OSRAM", the company provides lighting solutions for all areas of life together with its flagship brands Siteco and Traxon Technologies. OSRAM, Siteco and Traxon provide precisely the right solutions for nearly all professional lighting requirements, in turn optimally supporting people in all walks of life.







# Systematic efficiency

Innovative light enables design flexibility. A lighting system is efficient when all components are optimally matched, and the result is reliable functionality and maximum quality of light in an ideal ratio to energy consumption and costs.

Efficiency is determined by various factors. OSRAM, Siteco and Traxon consistently place their trust in three letters for light sources that have triggered a technical revolution in the lighting industry: LED. It's only decades of experience, profound knowledge and complex engineering that are capable of exploiting its complete potential – to save energy, to cut costs and greenhouse gas emissions and also to raise the quality of light and visual comfort to the next level.

LED requires an overall system precisely designed for this technology in order to function sustainably: housings with optimal thermal management for long lifespans, light

control concepts for maximum visual comfort and also practical installation solutions that save time, are simple and also highly convenient.

LED luminaires are only able to exploit their complete efficiency potential when integrated into intelligent control systems. LED lighting can be designed to be intelligent enough to individually respond to differing everyday situations and adapt according to requirements. Intelligent light management is becoming an ever more important component of complete solutions, both for indoor and outdoor applications.



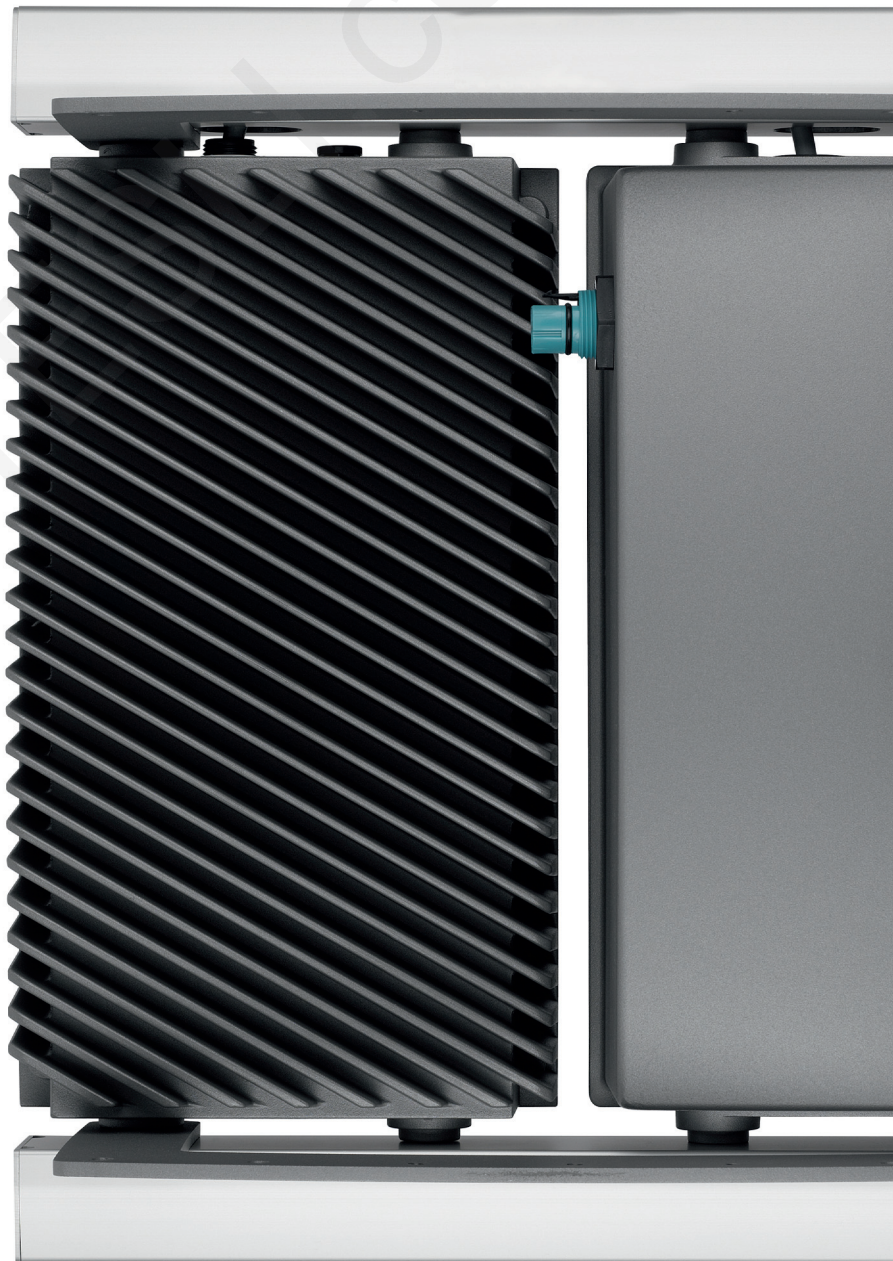
**Efficiency without compromising on light quality:** optimal systems of matched LED light sources and optics achieve best lighting results.



**Systematic efficiency:** all components are matched to achieve optimal coordination during application, including intelligent concepts for handling, installation and maintenance.



**Efficiency as part of the design:** lifespan and performance of LED systems are increased with efficient thermal management.

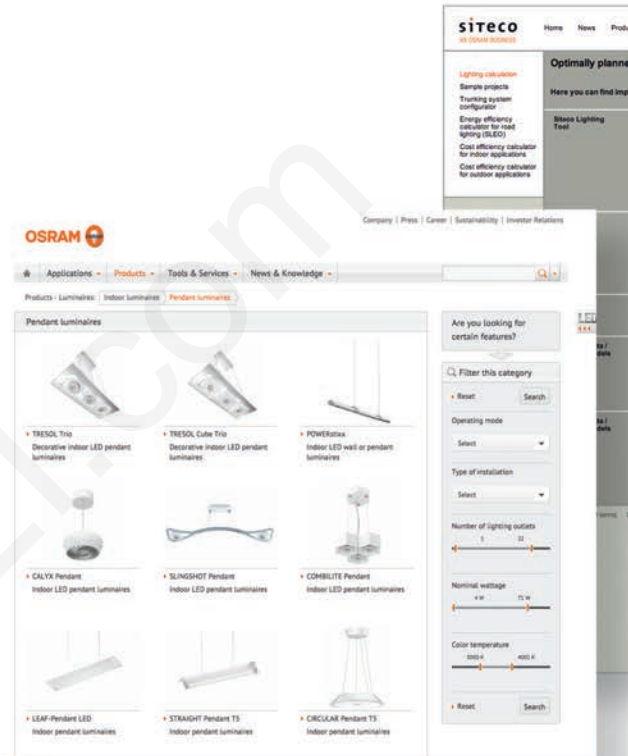


# Good light is created with precise tools

“Smart tools” for planning lighting installations

Precise information about technical characteristics and exact luminaire specifications are the preconditions for planning lighting to create not just good light but also components for success. Professional lighting is a highly complex interaction of various factors concerning not a cure-all but always the best solution for individual needs.

To help you to simply and reliably plan your individual lighting, we have developed a series of tools for your daily work with the planning of indoor and outdoor lighting installations. These tools are available for free on our websites.



## Siteco® Lighting Tool

The software program developed specifically for Siteco luminaires helps to find all luminaires via the familiar catalog structure as well as with individual characteristics. A special feature is the simple and convenient transfer of relevant data via drag and drop to RELUX and DIALUX.

[www.siteco.com/lighting-calculation](http://www.siteco.com/lighting-calculation)

## Indoor cost efficiency calculator

Which operating costs can be saved with new light? How is CO<sub>2</sub> emission reduced with LED technology, and how quickly is your investment amortized? The cost efficiency calculator supplies all the answers, with comparisons of obsolete and new systems as well as the download of PDF documentation.

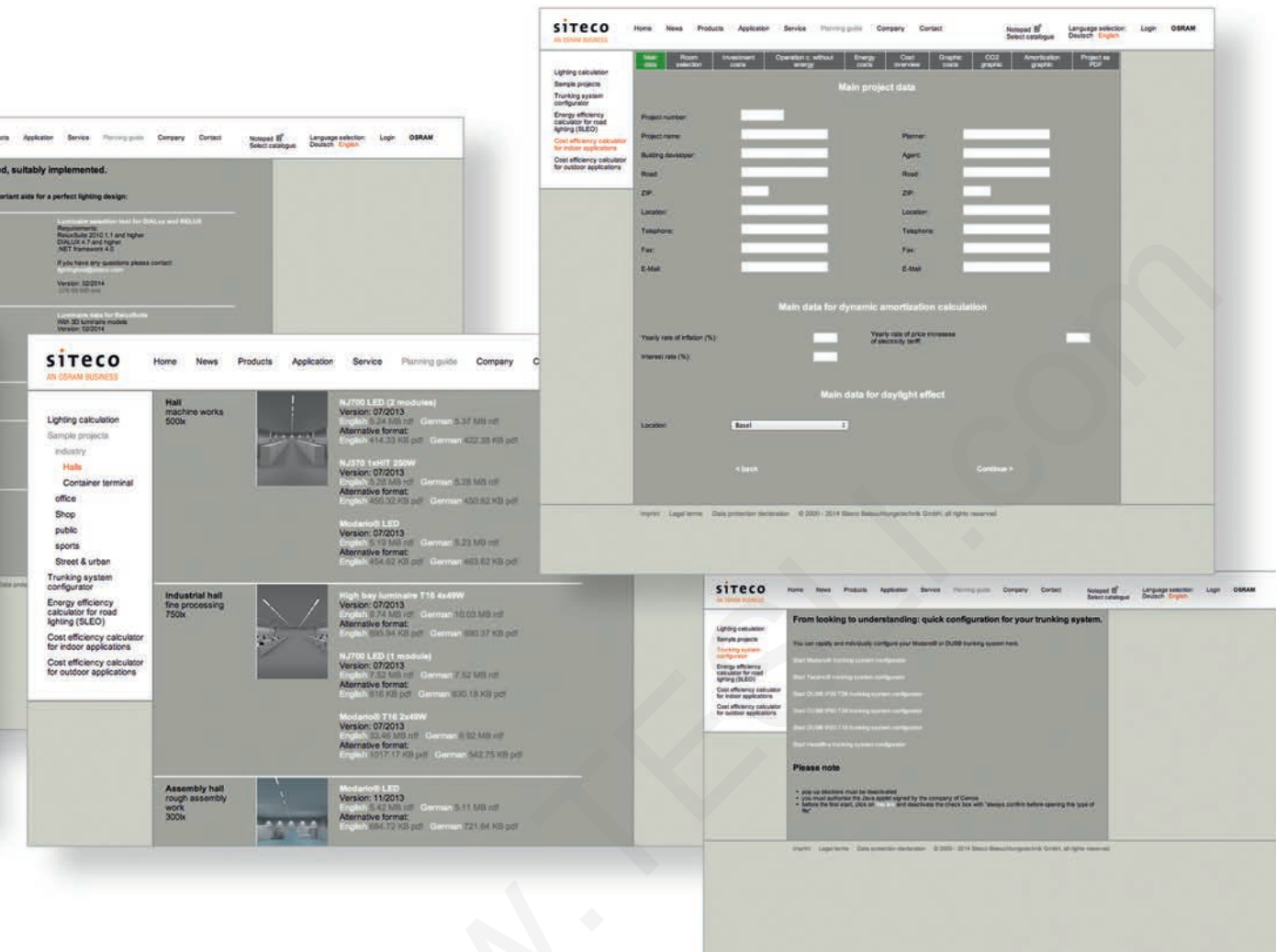
[www.siteco.com/eco-calculator-indoor](http://www.siteco.com/eco-calculator-indoor)

## Modario® trunking system configurator

Plan comfortably, work successfully. With the Modario® trunking system configurator, planning complex trunking systems becomes a simple exercise, and the program supplies information concerning availability, configurations and installation – simply, reliably and quickly. The Modario® trunking system configurator is connected directly to the electronic catalog.

[www.siteco.com/trunking-system-configurator](http://www.siteco.com/trunking-system-configurator)





**Sample systems**

Are there similar ranges of tasks to specific requirements? How was the solution created? Our online sample installations have been calculated by lighting experts so that the specific solution is always optimal in terms of compliance with standards, quality of light and system efficiency. To be used as sources of inspiration or for specific solutions.

[www.siteco.com/sample-projects](http://www.siteco.com/sample-projects)

**Electronic catalog**

The up-to-date reference work for all indoor and outdoor luminaires, including all relevant data, ranging from product images and installation instructions to tender texts and photometric data, as well as plug-ins for light calculation software. Comprehensive, clear and user-friendly. A smart add-on is the Siteco® rapid calculation tool as a random calculator for initial quantity estimations.

[www.siteco.com/indoor-lighting](http://www.siteco.com/indoor-lighting)  
[www.siteco.com/outdoor-lighting](http://www.siteco.com/outdoor-lighting)

[www.osram.com/indoor-luminaires](http://www.osram.com/indoor-luminaires)  
[www.osram.com/outdoor-luminaires](http://www.osram.com/outdoor-luminaires)

# Gaining the best solution together

Finding the right solution for lighting requirements in the professional sector always begins with understanding the application. What do standards stipulate? What do customers want? And which project-specific demands are made by the architecture and space?



Individual solutions must prove themselves in practice for the targeted lighting task at the end of the day, and achieving this is with a dialog between all project partners. The more heads used and the more knowledge, experience, creativity and passion brought into the processes, the better is the result. Our customers are experts for their specific requirements, and we're the

experts for transforming these demands into solutions. Together we have a rich source of experience gained from many successfully implemented projects. When this source of knowledge flows together into a continuous dialog between experts, optimal solutions are created that are ideal for the specific lighting tasks of customers.



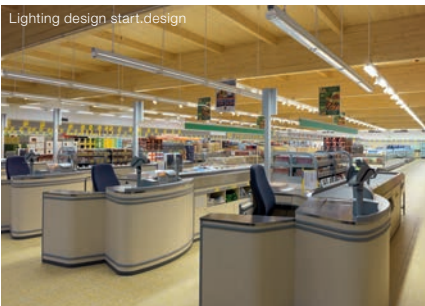
### Light for offices and desks

Light creates atmosphere that actively supports the concentration, communication and creativity of modern office workers. Good lighting in both an emotional and functional sense is an important component for successful businesses active in our modern knowledge society.



### Light for industry and trade

The right light at the right time in the right location ensures that all cogs fit together perfectly within a company. Lighting is the key to productivity at places of work as well as in achieving optimized energy and cost overheads.



Lighting design start.design

### Light for dealers and purchasers

Light displays goods in the right light. The demands made of lighting in the retail sector are to animate customers into making purchasing decisions, to do this in pleasant surroundings, and at the same time to emphasize the unique character of the store.



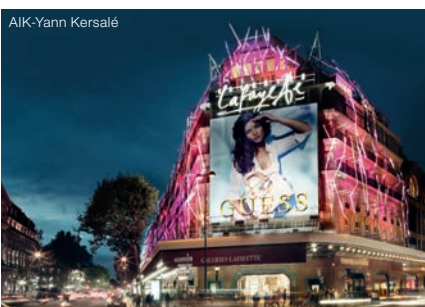
### Light for traffic and environment

As part of the urban infrastructure, light contributes to traffic safety and also improves the appeal of our urban spaces. The task is to unite maximum quality of light with the ecological and economic demands of the municipality.



### Light for athletes and sports fans

Light transforms sport and competition to become emotional events. Light renders visible peak athletic performances, the clashing of opposing teams and how sports equipment meets its target.



AlK-Yann Kersalé

### Light for architecture and objects

Light creates lasting impressions, and architectural lighting is a fixed component of marketing and art. Architecture and individual objects are transformed into experiences for observers thanks to dynamic accent lighting.







# Appealing light for productive work

## Innovative lighting solutions for office environments

A pleasant atmosphere where employees feel at ease and precisely the right surroundings for productive work and individual needs are the tasks of office and management buildings. These also aim to supply an ideal environment for modern office people, functioning as globally networked knowledge carriers. It's here that light plays a decisive role, in both a functional and emotional sense.

Simultaneously though, ecological aspects also determine offices of the future – increasing energy overheads and rents demand the efficient utilisation of space with flexible, power-saving lighting solutions.

This philosophy determines our coordinated and flexible tools for lighting solutions that simplify your daily work, achieving greater motivation and concentration.



### **Work spaces** **Room for concentration and diversification**

A small location and big ideas: creative and productive work takes place at desks, with tasks requiring both individuality and teamwork as well as concentration and communication. Lighting needs to supply optimal visual conditions, and especially if work is carried out on computer screens. Light in such applications should however also reflect modern office workers: innovative, intelligent and individual.

### **Circulation zones** **For good impressions with a first meeting**

After seeing the facade outside, visitors entering foyers and reception areas gain a second highly important impression. Lighting in such applications is focused on a mix of decorative and functional factors, and the same applies for corridors and connecting hallways as part of the central infrastructure and as an important component of interior design. The right light has a welcoming function and creates atmosphere, but also ensures good orientation and successful social aspects.

### Natural light captured in buildings Daylight systems

Generous glass facades and bright rooms flooded with light are often characteristic of modern office and management buildings. And not without reason, because views to the outside create a feeling of distance and a pleasant sense of space. With daylight do we see objects in their natural colors. Daylight also represents warmth, and in summer months this can lead to uncomfortable room temperatures and glare. Siteco® daylight systems utilise natural sunlight

with all its inherent benefits, making use of the physical laws of absorption and refraction to perfectly illuminate rooms and avoid excessive warmth and glare. “Hot” sunlight is reflected and only diffuse “cool” daylight is allowed to enter the space. In this way artificial light and daylight ideally supplement each other. Energy consumption for artificial lighting and air-conditioning is reduced and room comfort is improved.





### Light for variable workstations Futurel® LED

Variable workstations, variable room concepts and variable needs – flexibility and functionality are two essential characteristics for the illumination of desk workstations. On the one hand, standards must be complied with for illuminance levels and glare reduction, and on the other hand individual needs are focused on, fulfilled with intelligent sensor technology and control options.

The floorstanding luminaires of the Futurel® LED range emit light with high precision onto work surfaces thanks to special reflector technology, and with their purist designs support open, transparent interior concepts. An integrated presence and brightness sensor configured via Bluetooth transforms the luminaires into intelligent team players in office environments.

Futurel® LED  
Page 1.3

### A flexible all-rounder LEDVANCE® DOWNLIGHT

In the transition zone from outside into the interior and from daylight to artificial light, suitable lighting creates a gradation between bright and dark that is easy on the eyes, and sufficient brightness and good color rendering contribute to greater visual comfort, orientation and safety. Lighting should however never have a monotonous look but should always appear balanced and dynamically accentuating.

LEDVANCE® DOWNLIGHT are available in four construction sizes as highly diverse lighting tools that provide pleasant general lighting in foyers, corridors and traffic zones. The shadow gap, also a feature of the Lunis 2® downlight family, allows them to blend ideally into sophisticated surroundings. Put simply: compact design and efficiency with high performance.

LEDVANCE® DOWNLIGHT  
Page 5.57







# Reliable light for dependable processes

Innovative lighting solutions for the industry

Storage, production and logistics. People, machines and processes. All cogs must be perfectly coordinated if an industrial company is to function successfully, and an important precondition for this is the right light at the right time, and in the right location. Employees need optimal visual conditions to work in a concentrated way and without errors, and to safely operate machines.

At the same time though, companies have to keep a close eye on energy overheads. What counts at the end of the day is total efficiency in terms of economic luminaires and components, simple installation and flexible utilisation, modular systems, light control and upgrade options. We provide all of this from a single source, giving success at the end of the day.



## Storage and logistics From top to bottom

Semi-products, production equipment, materials and goods stored logically, located simply and effectively and distributed rapidly and reliably – industrial warehouse and logistics facilities are the precondition for the smooth production and sales of products and goods. Whether it's highbay racking or cold stores, the requirements demanded by storage facilities on lighting solutions are as diverse as the tasks.

## Manufacturing Complete attention to detail

The right light for specific tasks – in the industrial production sector this is all about people working safely with machines. The size, form and processing speed of products is essential for the lighting solution, and the following applies: the finer and more small-scale the work, the more light must perform, and with high reliability, in challenging ambient conditions, with variable hall utilisation, by day and by night.



### Future-safe lighting for high halls: NJ700® LED

High halls are mandatory for many production companies, accommodating large machines or several levels under a single roof. The challenge for lighting is to supply sufficient light with very good light quality at ground level where personnel work with machines. If high temperatures or vibration exists then lighting solutions must also be robust, as well as featuring minimal maintenance in difficult-to-access areas.

The NJ700® LED was designed precisely for such situations – a modular concept with innovative components.

The luminaire is suitable for mounting heights of between 6 and 20 metres and features a tough housing more typical of outdoor luminaires. This means it effortlessly bears up to very tough industrial conditions.



NJ700® LED



### The flexible trunking system for industrial environments Modario® with LED inserts

Racking, aisles, assembly lines and production belts are various applications in the industry sector that have one thing in common: linear hall layouts where conversions are repeatedly carried out when processes and work steps are changed. Modular and flexible trunking systems in such situations ensure optimal visual and work conditions for people to reliably act and react, and at the same time provide necessary modification options for the company.

With various beam characteristics, optics and protection types, the Siteco Modario® trunking system features precisely this flexibility. Systems are configured to specific situations according to the application, from highbay racking to workstations with stringent requirements, e.g. fine mechanics. A genuine plus: the LED module enables existing lighting systems to be simply upgraded to LED.

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Modario®  
Page 8.3



### A single damp-proof luminaire for all situations Monsun® 2 LED

Rooms with high humidity, wide temperature ranges, dust, splash or jet water must be equipped with especially resistant lighting systems, and these have to be compact, tough and designed for economic and reliable operation with a long lifespan.

The ideal solution for such cases are damp-proof luminaires suitable for applications ranging from cold stores, laboratories and logistics areas to manufacturing, parking garages and canopied outdoor areas.

Monsun® 2 LED was designed precisely for such demands. Its sealed construction and dirt-repellent surface characteristics defy adverse surroundings. The necessary flexibility in professional applications is provided by a range of technical versions and features such as emergency light or integration into the Modario® trunking system.

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Monsun® 2 LED  
Page 9.5







# Good light means good business

## Innovative lighting solutions for the retail sector

Premium goods, attractive prices and friendly service make customers loyal. However, atmosphere and a sense of emotion are becoming ever more important for long-term success in the retail trade. People perceive 80% of their surroundings with their eyes, and lighting during shopping plays an essential role: light creates atmosphere, arouses emotions, guides attention to goods and also aids customer guidance.

We bathe your products in a very advantageous light, whether with color-true general lighting, brilliant spotlights or efficient light management systems, and offer ideal lighting solutions for any requirement and any sector. Efficient, flexible and individual, enabling you to achieve your success.



### **Food retail** **Freshness convinces even more below our light**

Daily shopping achieves more enjoyment and desire with the right ambience, freshness and shopping experiences. LED luminaires score points in terms of energy efficiency, long service life and long maintenance intervals – but also as an example of a “green” technology with a modern image.

### **Specialist outlets** **Our light transforms shopping into a special experience**

Specialist outlets represent taking a stroll through the world of goods to experience trends, become familiar with products and conceive ideas. Goods can be analyzed on site, judged and tried out, and the business becomes a stage – displayed well with good light.

### **Car showrooms** **Our light arouses the pleasure of driving**

The sound of a new motor, the smell of an untouched interior and the feel of instruments is still far away, but the image, expectations, emotions and sense of driving are already in customers' heads. Showrooms are modern worlds of experience, and LED lighting tools support these in a contemporary and spectacular way.



### **A clever solution and complete performance Lunis® SL-T spotlight with LED or HIT-CE**

When setting accents, rendering colors appealingly, playing with light and shadow and bringing light to exactly where it should be, smart, diverse solutions are needed for special campaign surfaces, in service areas with counters and cabinets or for high-quality shop and boutique areas with high levels of sophistication. Goods should be displayed to directly arouse desires and make offers irresistible.

The Lunis® SL-T spotlight is just such an all-rounder, and a specialist at the same time. A single luminaire with many options: two light technologies (LED, HIT-CE), two mounting options, three housing colors and a wide selection of filters and reflectors – ideal lighting solutions are simply configured with Lunis® SL-T.

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Lunis® SL-T  
Page 5.7





### Efficiency and flexibility along the complete line Modario® trunking system with LED inserts

The food retail sector and specialist markets are complex spaces with an array of technical lighting requirements. Good light is flexible and diverse enough to adapt well to changing demands, and especially flexible and diverse lighting solutions are needed when outlet layouts are modified or if time-limited campaigns are displayed. The Modario® trunking system represents an especially innovative and easily installed solution. Whether with efficient T5 technology or innovative LED, with optical inserts for general lighting or with spots for accent lighting, Modario® makes sure of optimal quality of light and at the same time enables accents to be set.

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Modario®  
Page 8.3

### Highly precise illumination Lunis 2® LED downlights

Special offers, unusual goods and outstanding brands need to be illuminated with special care. Good light emphasises the inherent quality of offers and supports the underlying message of brands and labels. The interaction between the surfaces of goods and the light sources themselves is complex and can therefore only really be solved with mature and photometrically outstanding lighting solutions. The diverse downlights of the Lunis® 2 LED family represent an excellent solution. Ranging from various wallwashers and photometrically finely graded downlights to design-integrated sensor modules, there is hardly any lighting requirement that cannot be solved with these unusually precise lighting solutions.

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Lunis 2® LED  
Page 5.28





# Efficient light for greater safety and visibility

## Innovative lighting solutions for public spaces

Safety in road traffic, attractiveness of the area and protection of property: road lighting is an important and necessary part of our infrastructure, but it is also a strain for community budgets and for ecological balances.

Combining quality of light and energy efficiency is of primary importance. The future will be determined by LED technology, and lighting was never as efficient, flexible and innovative.

Completely new options have become apparent in all facets of lighting, including energy consumption, maintenance levels, quality of light, control and design.

We purposefully design this future to enable local authorities to make traffic routes safer, architectural areas more appealing and energy balances more positive, with a better quality of light.



### Lighting for traffic routes Light makes hazards more visible

The main task of road lighting is apparently simple: to ensure sufficient visual conditions for all road users. Minimum levels are stipulated by standards (EN 13201). Road users should be able to identify changing situations as well as sudden occurrences quickly and clearly, and at distances in order to have enough time to respond. Technical road lighting with a high, functional quality of light makes an active contribution to this.

### Lighting for squares and paths Light enlivens urban environments

Light makes places attractive and contributes to the positive appearance of a town or district. During the day, luminaires set design accents, and at night their light effects determine appearances. In addition to the functional task of illumination (EN 13201), luminaires also achieve atmosphere and ambience. The lighting of urban environments increases the level of attraction and is also able to enliven inner cities and promote business and gastronomy.

**One solution for all:  
Streetlight 10 LED family**

The spectrum of applications for technical lighting in public spaces is diverse. Road types, traffic density, driving speeds as well as carriageway widths and surfaces determine lighting classes and specified illuminance levels. Road luminaires must comply precisely with formulated requirements and also provide maximum quality of light for optimum visual comfort. The Streetlight 10 LED family sets new standards: a purist, functional design features high-power LED, outstanding optics and integrated intelligence, supplying light according to requirements.

With the micro, mini and midi construction sizes as well as a catenary version, all typical applications for technical road lighting in a community can be met efficiently, sustainably and with fitness for the future.







**Arriving in the future with LED  
LANTERN LED, CITY LIGHT LED, MUSHROOM  
LUMINAIRE LED**

More than 70% of road lighting in Europe is energetically obsolete, and hundreds of millions of euros could be saved. A majority of these are lantern or mushroom-shaped luminaires for illuminating pedestrian paths, residential streets and ancillary roads. Their looks are familiar and their designs are classics, but in terms of energy efficiency and light quality they are from the last millennium.

LED Module 520 and LED Module 540 render lantern-shaped luminaires fit for the future in terms of energy and optics. They are suitable as LED retrofit solutions for refurbishing luminaire heads fitted with standard lamps, and are ideal as efficient new installations with low maintenance and low costs thanks to modern LED gear trays and integrated intelligence. LANTERN LED, CITY LIGHT LED, and MUSHROOM LUMINAIRE LED have arrived in the future.

**Functionality and design  
DL® 20 LED**

Road lighting must be functional and comply with specific lighting tasks, but it can and should be representative in certain areas such as pedestrian zones and public plazas, structuring the space and setting accents as well as contributing to a pleasant atmosphere. And at night as well as during the day. Lighting solutions are needed that not only have convincing functionality but also outstanding design. The DL® 20 LED impressively shows how high-performance LED technology can be combined with outstanding quality of light and excellent design. The luminaire is focused completely on reduction, optics and materiality – the essentials – and in this way intelligently transfers the archetype of the mushroom-shaped luminaire into the LED era. Good design after all is subordinated to specific tasks.





# Perfect light for the fascination of a moment

Innovative lighting solutions for indoor and outdoor sports facilities

Sport is more than simply a competition for top results, goals and victories. When the dynamics of play is transferred to spectators, then sport becomes a perceptible experience and an event. To achieve this, fans in rear spectator ranks must also be able to follow what is happening in a stadium. Light makes peak athletic performances visible, the clashing of opposing teams and how sports equipment meets its target.

We know that professional athletes need professional light to be able to achieve best performance, but the same is true for sports at grass-roots level.

Whether indoors or outdoors, HDTV-compliant or low-cost for local sports halls, our light gives you decisive advantages in all disciplines.



## Indoor sports

### Quality of light and flexibility in all disciplines

Hall sports depend on dynamics, drama and speed, and brief moments are decisive. Lighting determines whether you experience such moments or miss them. Ball-proof solutions protect athletes and spectators, and the quality of light and good color rendering emphasize emotion and atmosphere, either on site or on television. Flexibility for different uses is provided by flexible and energy-efficient lighting solutions featuring modular control options.

## Outdoor sports

### For perfect experiences in all wind and weather

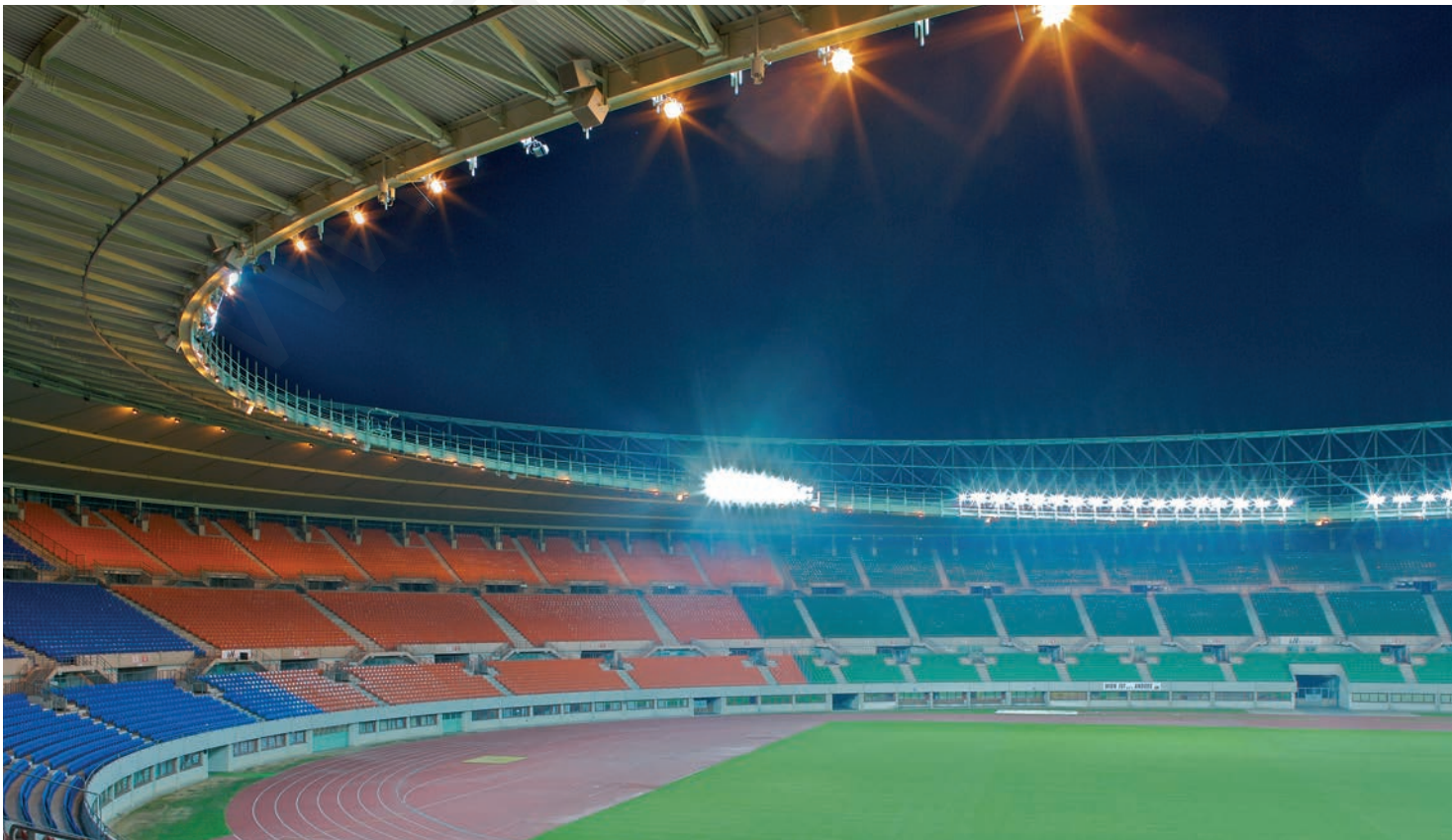
Sports in the open depends on rapidity, dynamics and highly exciting competition, and outside sports provide genuine experience.

And perhaps even more when nature plays its part: sun and rain as well as heat and cold are permanent challenges for the lighting system. The task of lighting is to ensure best possible visual conditions and maximum safety in adverse weather conditions and in all seasons of the year, and to guarantee perfect vision in a technical sense, because large sports associations have very stringent demands in terms of light quality and visual comfort.



**Maximum performance in all disciplines: SiCOMPACT® R3 MAXI**

Spectator expectations with top players reflect the requirements that associations and operators place on stadium lighting: it must provide optimum visual conditions for athletes and spectators, must fulfil international standards for television recording and at the same time must be durable, energy-efficient and feature low maintenance. The SiCOMPACT® R3 MAXI is the power package for illuminating large sports stadiums and arenas, true to the policy of outstanding sports performance demanding outstanding lighting performance. The concept of the floodlight is high performance in all facets: light quality, illuminance, energy efficiency, and convenience in terms of maintenance and installation. Maximum performance in all disciplines.







### Maximum efficiency at the highest levels T16 highbay luminaire

Safety for players and spectators in sports halls has top priority, and highbay luminaires must comply with DIN VDE 0710 Part 13. This certifies that luminaires have been constructed to resist ball impact and can be mounted safely, because balls flying from the playing surface up into the roof are simply part of the game.

T16 highbay luminaire  
Page 10.15

The T16 highbay luminaire represents the ideal solution for safety, quality of light and flexibility, and at any height. All luminaire components are matched to achieve the sole result of efficiency in terms of energy, service life, light control, maintenance and installation. With a luminaire light output ratio of up to 93%, amortisation periods of approximately 1.5 years are typical when upgrading obsolete lighting systems.

### Perfect light at any moment: SiCOMPACT® FL MIDI S

Sporting events broadcast on television have the highest requirements on lighting quality. Specifications are made down to the last detail so that sporting events are transformed into TV events, and this also concerns making perceivable what the human eye itself is no longer able to see. The decisive moment only becomes an image that can be broadcast across the world thanks to perfect light, and such light is provided by the SiCOMPACT® FL MIDI S floodlight. The luminaire unites all the benefits of LED in terms of efficiency and service life, and also scores points with outstanding quality of light and TV compliance: the optics ensure very good glare reduction, homogeneous distribution of light and good color rendering. The luminaire also emits light for flicker-free HD resolutions even in the super slow motion range of 300 images per second – perfect light at any moment.

SiCOMPACT® FL MIDI S  
Page 10.47







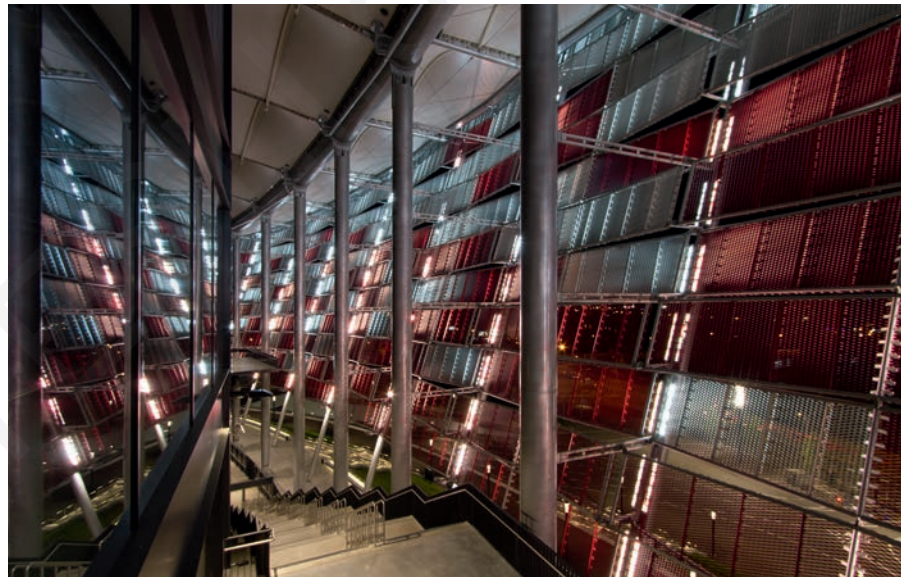


# Atmospheric light for lasting impressions

Innovative lighting solutions for architecture and objects

Light generates lasting impressions, enabling new perspectives, transforming the appearances of what is familiar and creating spectacular moments. Architectural lighting is becoming ever more a fixed part of marketing and art and also represents an entertainment factor. Architecture and individual objects are transformed into experiences for observers thanks to dynamic accent lighting, and light arouses buildings to life and emphasizes their special features.

The challenge with dynamic accent lighting is the individuality of the illuminated object and the vision of the designer. Each type of architecture has specific design challenges and its own individual character. The path from vision to solution is a creative process of intensive teamwork across all phases of the project, and we gladly support you in finding the customized solution that renders your project truly unique.



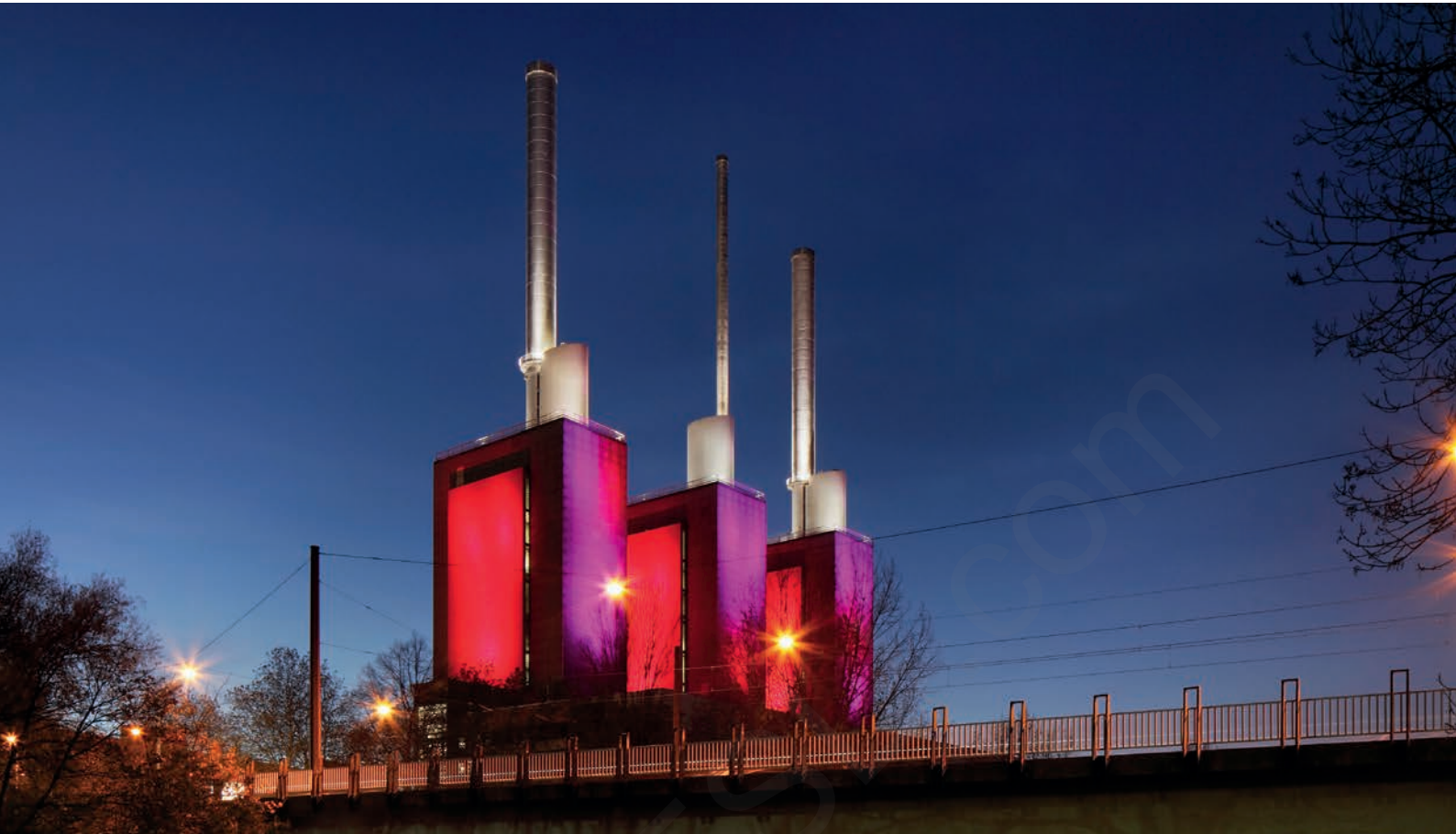
## Dynamic accent lighting outdoors Specifying stories with light

Architecture and objects are transformed into projection surfaces thanks to light, and can be seen from afar without effort.

Dynamic installations can contribute to creating urban landmarks and making town or city environments more attractive. Solutions consider architectural situations and make light available so that it becomes a universal medium for communicating the inherent story of the object and its creator.

## Dynamic accent lighting indoors Creating atmosphere with light

Creating a peaceful and pleasant ambience or setting stimulating accents – the options for designing interiors with light are as unlimited as fantasy itself. From shimmering walls and ceilings to illuminated balustrades and backlit niches, flexible lighting solutions and intelligent control systems supply light in a discreet way for completely individual atmospheres in all types of rooms and event locations.



**The transformation artist for outdoors**  
**Nano Liner Allegro AC XB**

Rendering architecture perceptible with light is not only a challenge in terms of planning but also a technological challenge. Tight mounting spaces, lack of space in corners and niches and protrusions demand smart and flexible solutions that provide high lumen output and yet blend discretely and invisibly into the architectural context.

The Nano Liner Allegro AC XB is an extremely slender lighting solution for outdoor applications with high performance and high energy efficiency. The linear system is flicker-free, even with control using forward phase control dimmers. Three white color temperatures, RGB and dynamic white as well as four lengths and two beam angles provide maximum design flexibility.

The Nano Liner Allegro AC XB is suitable for both planar lighting as well as linear and indirect lighting, in fact everywhere where efficient and space-saving solutions are needed.







### The transformation artist for indoors Cove Light AC

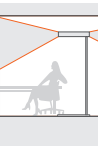
Ambience and accent lighting indoors is the play with colors, light colors, illuminance levels and light accents, and achieves ambience and atmosphere while upgrading interiors. Light influences how we perceive and experience rooms, and the more subtle light is used the more impressive it is. Solutions must blend as discreetly as possible into the interior and simultaneously provide complete flexibility for lighting design.

The Cove Light AC is a highly efficient and extremely diverse luminaire. Operation via 230 volt mains power enables flexible uses in architectural, gastronomy and retail environments. Whether for general lighting, planar or accent lighting, the Cove Light AC is an energy-efficient solution with a high lumen output of 985 to 1,312 lumens per metre for warm white and cool white applications. A real all-rounder for atmospheric light.

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Cove Light AC

Page 14.3



**1**  
Floorstanding luminaires



Futurel® LED Page 1.3  
 Futurel® 5MS with ELDAICON® Page 1.7  
 POWERPOLE® Page 1.11



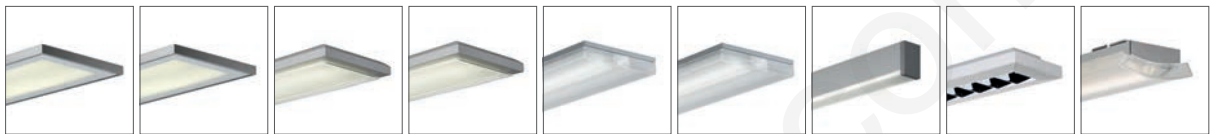
**2**  
Linear fluorescent luminaires for suspended mounting



Novaluna® S LED Page 2.5  
 Novaluna® P LED Page 2.5  
 Novaluna® S Page 2.9  
 Novaluna® P Page 2.9  
 Novaluna® Page 2.13  
 Quadrature® 2 Page 2.19  
 Quadrature® 2 rail system Page 2.19  
 Mira® LED Page 2.29  
 Mira® T16 Page 2.31



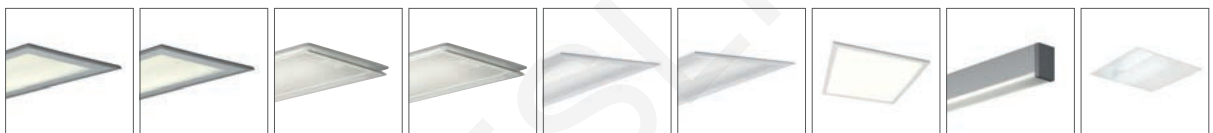
**3**  
Linear fluorescent luminaires for ceiling surface mounting



Quadrature® 2 LED ELDAICON® Page 3.5  
 Quadrature® 2 ELDAICON® Page 3.7  
 Mira® LED ELDAICON® Page 3.11  
 Mira® T16 ELDAICON® Page 3.15  
 Novaluna® ELDAICON® Page 3.19  
 Novaluna® HDP® Page 3.19  
 TECARIO® Page 3.27  
 Comfolight® 2 Page 3.43  
 Silhouette® LED Page 3.47



**4**  
Linear fluorescent luminaires for ceiling recessing



Quadrature® 2 LED Page 4.7  
 Quadrature® 2 Page 4.11  
 Mira® LED Page 4.15  
 Mira® T16 Page 4.19  
 Novaluna® ELDAICON® Page 4.23  
 Novaluna® HDP® Page 4.23  
 LEDVANCE® AREA Page 4.37  
 TECARIO® Page 4.41  
 SILUNA® Page 4.57



**5**  
Spotlights and downlights



Lunis® SLT Page 5.7  
 Lunis 2® Surface Page 5.17  
 Lunis 2® micro Page 5.27  
 Lunis 2® mini Page 5.27  
 Lunis 2® micro emergency Page 5.51  
 Lunis 2® micro controls Page 5.51  
 LEDVANCE® DOWNLIGHT Page 5.57  
 KIT LED PRO Page 5.61  
 KIT LED CLASSIC Page 5.63



**6**  
Wall and ceiling luminaires



Lunis R® LED Page 6.3  
 LEAF-Pendant LED Page 6.13  
 LEAF-Ceiling LED Page 6.13  
 Lunis R® Page 6.17  
 Futurel® 5MS Page 6.39  
 Europlex® TC mirror luminaire Page 6.41  
 TRESOL® Bloc Page 6.45  
 LED RONDEL Page 6.47  
 CALYX® Spot I Page 6.51



**7**  
Batten luminaires and under cabinet luminaires



LUMILUX® Combi LED Page 7.3  
 LJ100 LED Page 7.5  
 OSRAM ECOPACK® Page 7.9  
 LJ100 Page 7.15  
 OSRAM MINI5® ECO Page 7.21  
 LUMILUX® COMBI EL Page 7.23  
 LUMILUX® VARIO EL Page 7.29  
 LEDVANCE® LINEAR Page 7.31  
 LUMINESTRA® LED Page 7.35





ARKTIKA®-P LED Page 2.37  
 Comfolight® 2 ELDAICON® Page 2.39  
 Comfolight® 2 CAT louver Page 2.39  
 Silica® Page 2.45  
 Siteco® Louvre Luminaire M Page 2.49



Siluette® T16 Page 3.51  
 Siteco® Louvre Luminaire M for T16 Page 3.61  
 Siteco® Louvre Luminaire for T26 Page 3.65  
 Siteco® Louvre Luminaire M LED wallwasher Page 3.77  
 Siteco® Louvre Luminaire M wallwasher Page 3.79



Siteco® Louvre Luminaire XS Page 4.63  
 OSRAM DEDRA plus® LED Page 4.71  
 OSRAM DEDRA plus® Page 4.75  
 Siteco® Louvre Luminaire M LED Page 4.79  
 Siteco® Louvre Luminaire M Page 4.81  
 Siteco® Louvre Luminaire Plus Page 4.89  
 Siteco® Louvre Luminaire Plus wallwasher Page 4.99


















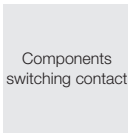
PUNCTOLED® Page 5.65  
 PUNCTOLED® IP65 Page 5.65  
 TRESOL® 10 W Page 5.69  
 LED TRESOL® Page 5.71  
 compact downlight Page 5.73



QOD® M CEILING Page 6.55  
 QOD® M | QOD® L Page 6.57  
 OSRAM DULUX® RONDEL Page 6.59  
 OSRAM DULUX® CARRÉ Page 6.59  
 Europlex® TC Page 6.63  
 LUMILUX FLATLITE® T5 F/P Page 6.71  
 OSRAM SOFTLITE® EL Page 6.73  
 LUMILUX DUO® EL Page 6.75  
 Europlex® Page 6.79



SLIMSHAPE LED Page 7.37  
 LUMINESTRA® EL Page 7.41  
 SLIMLITE® EL Page 7.43  
 LEDVANCE® DOWNLIGHT S Page 7.45  
 QOD® Page 7.47  
 QOD DOMINO® Page 7.49

<p><b>8</b> Trunking systems</p> 	<p>Modario® LED</p>  		<p>Modario® IP20/IP40 T16</p>    				<p>Modario® IP64 T16</p>   		
	<p>LED module IP20/IP40 Page 8.3</p>	<p>Spotlight module IP20 Page 8.17</p>	<p>Luminaire insert/ Refl.   IP20/IP40 Page 8.35</p>	<p>Spotlight module IP20 Page 8.76</p>	<p>Power module IP40 Page 8.83</p>	<p>Highbay luminaire Page 8.89</p>	<p>Luminaire insert/ reflector Page 8.101</p>	<p>Luminaire insert Page 8.108</p>	<p>Highbay luminaire Page 8.117</p>
<p><b>9</b> Damp-proof luminaires</p> 									
	<p>Monsun® 2 LED Page 9.5</p>	<p>Monsun® LED for trunking rail Page 9.19</p>	<p>Monsun® LED with LED tube Page 9.19</p>	<p>NEPTUNE® LED Page 9.27</p>	<p>FR200 Page 9.29</p>	<p>FR200 with vibration test Page 9.29</p>	<p>FR100 Page 9.39</p>	<p>FR100 with vibration testing Page 9.39</p>	<p>Monsun® Page 9.51</p>
<p><b>10</b> Highbay luminaires</p> 									
	<p>NJ700® LED Page 10.7</p>	<p>T16 highbay luminaire IP20 Page 10.15</p>	<p>T16 highbay luminaire IP65 Page 10.15</p>	<p>Siteco® Louvre Luminaire M Page 10.25</p>	<p>NJ600 Page 10.31</p>	<p>NX700 Page 10.43</p>	<p>SiCOMPACT® FL MIDI S LED Page 10.47</p>	<p>SiCOMPACT® A2 LED Page 10.51</p>	<p>SiCOMPACT® A2 Page 10.57</p>
<p><b>11</b> Secondary reflector systems</p> 	<p>Planning aid</p>								
	<p>Page 11.3</p>	<p>Reflector 100 square Page 11.11</p>	<p>Reflector 100 round Page 11.11</p>	<p>Reflector 100A square Page 11.11</p>	<p>Reflector 200CA Page 11.15</p>	<p>SiCOMPACT® R1 MINI-S Page 11.19</p>	<p>SiCOMPACT® R1 MINI-ALU Page 11.19</p>	<p>Siteco Mirrortec® Projector 400 Page 11.23</p>	<p>Siteco Mirrortec® Projector 1000 Page 11.25</p>
<p><b>12</b> Facade and path luminaires</p> 									
	<p>CL LED Ceiling Page 12.7</p>	<p>CL LED Wall Page 12.11</p>	<p>CL LED Linear Ceiling Page 12.15</p>	<p>CL LED Linear Wall Page 12.19</p>	<p>NOXLITE® LED CIRCULAR Page 12.23</p>	<p>NOXLITE® HALOGEN Page 12.27</p>	<p>CL LED Spotlight 10 Page 12.29</p>	<p>SiCOMPACT® R1 MINI Page 12.33</p>	<p>Siteco Mirrortec® Projector 400 Page 12.39</p>
<p><b>13</b> Light management systems</p> 									
	<p>Page 13.3</p>	<p>Page 13.21</p>	<p>Page 13.31</p>	<p>Page 13.41</p>	<p>Page 13.56</p>	<p>Page 13.69</p>	<p>Page 13.78</p>	<p>Page 13.85</p>	
<p><b>14</b> Media Solution</p> 									
	<p>Cove Light AC Page 14.3</p>								
<p><b>15</b> Appendix</p>									





Luminaire insert/ reflector Page 8.121	LED refurbishment kit Page 8.131	Power module IP40 Page 8.155	Trunking luminaire Page 8.165	Luminaire insert Page 8.174	Luminaire module IP20 Page 8.185
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NEPTUNE® POLY Page 9.67	LUMILUX BRIK® EL Page 9.69	Panel ceiling luminaire Page 9.71	AQUALINE® T5 Page 9.75	FR100 for low ambient temperatures Page 9.79	FR100 for high ambient temperatures Page 9.81	FR-Ex for explosion-hazard zones Page 9.83	DUS® mounting rails Page 9.87	GRP mounting rails Page 9.87
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AquaLED® 2 Page 12.41	CW 91 Page 12.49	CW 96 Page 12.49	CB 90 Page 12.53	CB 95 Page 12.53	CL LED Bollard Page 12.59	CITY-LIGHT LED bollards Page 12.65	CITY-LIGHT bollards Page 12.65	CITY-LIGHT LED pillars Page 12.65	CITY-LIGHT pillars Page 12.65
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### Floorstanding luminaires for office workstations



Futurel® LED  
Page 1.3



Futurel® 5MS  
Page 1.7

### Floorstanding luminaires for decorative supplementary lighting



POWERPOLE®  
Page 1.11

### Wall luminaires



Futurel® 5MS  
See chapter 6

www.tesli.com



# Futurel® LED



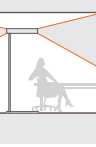
The floorstanding luminaires of the Futurel® LED family have been consistently designed for LED. The extremely flat luminaire head is only possible with this technology.

A multi-chamber reflector generates double asymmetric light distribution. At single workstations, the light is distributed precisely onto the working plane and into the adjacent surroundings. Undesired stray light is reduced to a minimum.

The luminaires of the Futurel® LED family feature an integrated presence and brightness sensor. Configuration is carried out either via Bluetooth® or Windows PC.

With white and silver as design colors, the Futurel® LED blends harmoniously into a wide diversity of office environments and supports open, transparent spatial concepts.





### Features

- LED technology for direct and indirect light components via separate switching
- consistent LED design with very flat luminaire head
- highly precise light distribution via double asymmetric beam characteristics
- glare rating UGR < 19
- suitable for computer screen workstations
- integrated daylight and motion sensor
- individual configuration possible via Bluetooth®

### Lighting technology

Futurel® LED indirect/direct distribution, with double asymmetric light distribution for the precise illumination of a single workstation and the surrounding work area. Standard-compliant lighting in accordance with EN 12464 for room heights up to 3 meters (500lx on the working plane and 300lx in the peripheral extended work area); CAT2 ( $L \leq 1500\text{cd/m}^2$ ), glare reduction UGR < 19 | two different optical versions each for spatial arrangements on the left side or on the right side, adjacent to the workstation: the light is guided precisely onto the desk and additionally towards the user with the double asymmetry of the multi-chamber reflector.

### Electrics

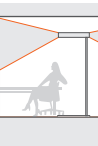
Luminaire completely wired, with connection cable, L = 2.5m, with safety plug; luminaire components with electric plug-in system | with ECG DALI, multi-functional ON/OFF rotary switch, ambient light sensor and motion sensor  
 Completely automatic, sensor-controlled operation or manual operation via a push-button on the luminaire: ON/OFF/bright/dark (direct and indirect component can be separately switched ON/OFF) | configuration of various modes for sensor-controlled operation via Bluetooth® and notebook (e.g. daylight control, presence detection, automatic switch-off | switch-off time 5...30 min; various standby values, parameterize light level)

Software download for Windows (XP/7/8):

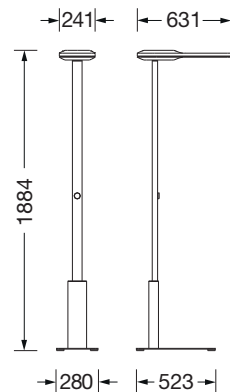
[www.siteco.com/software](http://www.siteco.com/software)

### Housing

Lamp unit housing of diecast aluminum, supporting column of extruded aluminum, baseplate of floorstanding luminaire of steel, all parts traffic white (RAL 9016) or white aluminum (RAL 9006) | optical cover of PMMA or PC | modular-design luminaire with mechanical and electrical plug-in connection | luminaire components packed separately: luminaire head/ support column/baseplate

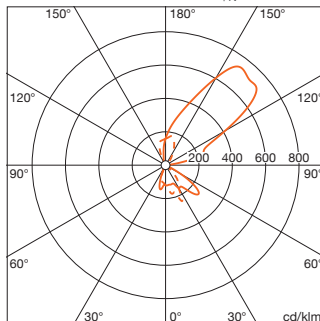


LED



4050737100012  
5XR2461A1A1S

1 x LED 4000K / CRI ≥ 80  $\phi_N$  6650 lm



$\phi_{\downarrow}$  24%  $\phi_{\uparrow}$  76%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	260	42
L <sub>70</sub>	649	153
L <sub>65</sub>	3474	457

**Futurel® LED | silver**  
**indirect/direct distribution | with multi-sensor**

Floorstanding luminaire

- with multi-chamber reflector, indirect/direct light distribution
- indirect and direct component: double asymmetric right or double asymmetric left distribution
- multi-functional ON/OFF rotary push-button and light and presence sensor

- luminaire head of diecast aluminum; support column of extruded aluminum; white aluminum (RAL 9006) luminaire
- protection rating: IP20 (light engine: IP50)
- insulation class: I

**Function**

- Completely automatic, sensor-controlled operation or manual operation via push-button on the luminaire: ON/OFF/bright/dark (direct and indirect component separate ON/OFF switching)
- Parameterization of various modes via Bluetooth™ and notebook (e.g. daylight control, presence detection, deactivate automatic switch-off, switch-off time 5...30 min; various standby values, parameterize light level)

Software download: see [www.siteco.com/software](http://www.siteco.com/software)



**Light source**



**Order no.**  
**OSRAM**

**Order no.**  
**Siteco**

with shockproof plug, double asymmetric, right

LED	4000	> 80	6650	99	17.2	ECG	4050737100012	5XR2461A1A1S
-----	------	------	------	----	------	-----	---------------	--------------

with shockproof plug, double asymmetric, left

LED	4000	> 80	6650	99	17.2	ECG	4050737100050	5XR2462A1A1S
-----	------	------	------	----	------	-----	---------------	--------------

with T12 plug, double asymmetric, right

LED	4000	> 80	6650	99	17.3	ECG	4050737100036	5XR2461A1A2S
-----	------	------	------	----	------	-----	---------------	--------------

with T12 plug, double asymmetric, left

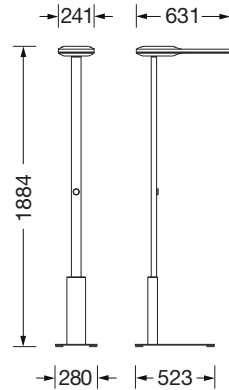
LED	4000	> 80	6650	99	17.3	ECG	4050737100074	5XR2462A1A2S
-----	------	------	------	----	------	-----	---------------	--------------

- 'T12': country-specific plug connection for Switzerland
- luminaire partly pre-assembled



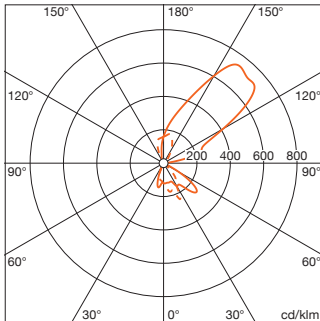


LED



4050737100029  
5XR2461A1A1W

1 x LED 4000K / CRI ≥ 80  $\phi_N$  6650 lm



$\phi_{\downarrow}$  24%  $\phi_{\uparrow}$  76%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	260	42
L <sub>70</sub>	649	153
L <sub>65</sub>	3474	457

**Futurel® LED | white**  
**indirect/direct distribution | with multi-sensor**

Floorstanding luminaire

- with multi-chamber reflector, indirect/direct light distribution
- indirect and direct component: double asymmetric right or double asymmetric left distribution
- multi-functional ON/OFF rotary push-button and light and presence sensor

- luminaire head of diecast aluminum; support column of extruded aluminum; traffic white (RAL 9016) luminaire
- protection rating: IP20 (light engine: IP50)
- insulation class: I

**Function**

- Completely automatic, sensor-controlled operation or manual operation via push-button on the luminaire: ON/OFF/bright/dark (direct and indirect component separate ON/OFF switching)
- Parameterization of various modes via Bluetooth™ and notebook (e.g. daylight control, presence detection, deactivate automatic switch-off, switch-off time 5...30 min; various standby values, parameterize light level)

Software download: see [www.siteco.com/software](http://www.siteco.com/software)

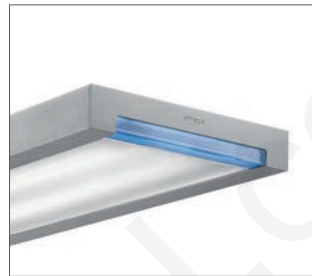


**Light source**

	K	R <sub>a</sub>	l <sub>m</sub>	W SYSTEM	KG	ECG LLCG	Order no. OSRAM	Order no. Siteco
with shockproof plug, double asymmetric, right								
LED	4000	> 80	6650	99	17.2	ECG	4050737100029	5XR2461A1A1W
with shockproof plug, double asymmetric, left								
LED	4000	> 80	6650	99	17.2	ECG	4050737100104	5XR2462A1A1W
with T12 plug, double asymmetric, right								
LED	4000	> 80	6650	99	17.3	ECG	4050737100043	5XR2461A1A2W
with T12 plug, double asymmetric, left								
LED	4000	> 80	6650	99	17.3	ECG	4050737100081	5XR2462A1A2W

- 'T12': country-specific plug connection for Switzerland
- luminaire partly pre-assembled

# Futurel<sup>®</sup> 5MS with ELDAICON<sup>®</sup>



The floorstanding uprights of the Futurel<sup>®</sup> 5MS family unite clear, striking forms with the patented ELDAICON<sup>®</sup> light control system. This creates a homogeneous distribution of light upon the working plane with a high, glare-free direct component. The balanced contrast creates a pleasant atmosphere, and lighting that complies with standards for computer workstations.

Due to their high workmanship and quality of design, the luminaires of the Futurel<sup>®</sup> 5MS family adapt to modern office environments – technically as well as in terms of visual appearance.

## Features

- glare-free direct component with use of transparent ELDAICON<sup>®</sup> microprismatic technology
- glare rating UGR < 16
- timeless, flat design
- rotatable luminaire head
- also available with ambient light sensor and movement sensor
- uniform design for luminaire family: as floorstanding or wall luminaire

## Lighting technology

ELDAICON<sup>®</sup> technology: glare-free light control via highly precise microprismatic structures with ELDAICON<sup>®</sup>, indirect/direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ ) translucent end cap, can be color-accentuated (incl. color foils in colors: red, orange, green, blue, mocca)

## Electrics

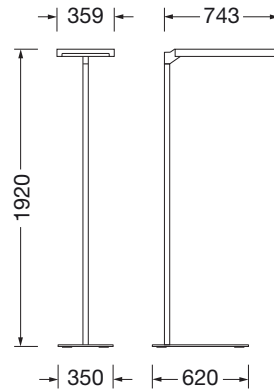
Luminaire completely wired, with connection cable, L = 2.5m, with safety plug; luminaire components with electric plug-in system | with ECG (with on/off switch on luminaire head) or with ECG DALI (with on/off switch and ambient light and motion sensor)

## Housing

Luminaire head housing of extruded aluminum with diecast arm, white aluminum (RAL 9006) | ELDAICON<sup>®</sup> of PMMA | luminaire head end cap with translucent plastic decorative element, can be color-accentuated | luminaire has modular construction with mechanical and electrical plug-in connection | luminaire components packed separately: luminaire head/support column/baseplate

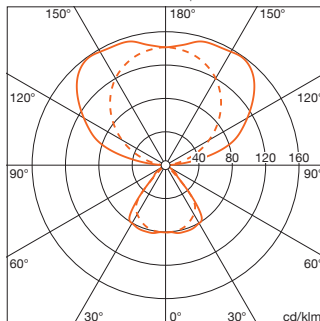
For wall luminaires of this product family, see **chapter 6**





4039806445988  
5MS42674ULO

4 x TC-LEL 55W/840  $\phi$  19200 lm



$\eta_{LB}$  70.7%  $\phi_{\downarrow}$  20%  $\phi_{\uparrow}$  80%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1347	243
L <sub>70</sub>	1174	327
L <sub>65</sub>	1322	547

**Future!® 5MS | with ELDACON®  
indirect/direct distribution**

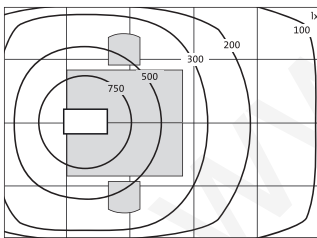
- Floorstanding luminaire
- with ELDACON®, indirect/direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- translucent end caps, can be color-accented
- with ECG and two ON/OFF switches for separately switchable direct light component
- luminaire head and support column of extruded aluminum; diecast mounting

- bracket; white aluminum (RAL 9006) luminaire
- protection rating: IP20
- insulation class: I
- incl. color foils for accenting face ends: red, orange, green, blue, mocca



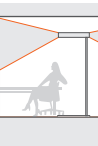
Light source				Order no. OSRAM	Order no. Siteco
3x TC-LEL 55 W	2G11	25.8	ECG	4039806445971	5MS42673ULO
4x TC-LEL 55 W	2G11	25.8	ECG	4039806445988	5MS42674ULO

Office with double workstation  
Room 5 x 3.5 x 2.7m, working plane h 0.75m

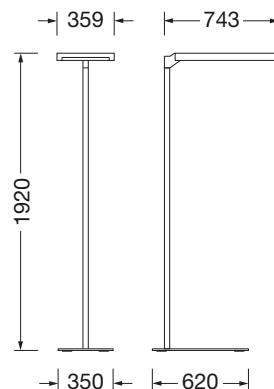


Reflection grade 80/50/30, maintenance factor 0,8  
Em room 447 lx Em table 643lx

- luminaire partly pre-assembled

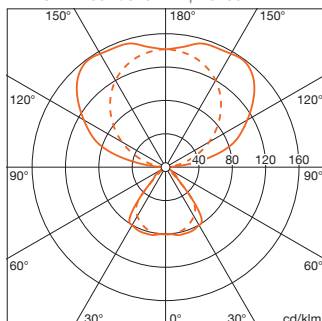


TC-LEL  
2G11



4050737009483  
5MS426D4UL0D

4 x TC-LEL 55W/840  $\phi$  19200 lm



$\eta_{LB}$  70.7%  $\phi_{\downarrow}$  20%  $\phi_{\uparrow}$  80%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1347	243
L <sub>70</sub>	1174	327
L <sub>65</sub>	1322	547

**Futurel® 5MS | with ELDACON®**  
indirect/direct distribution | with multi-sensor

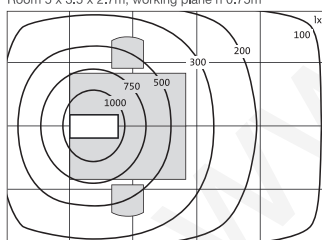
- Floorstanding luminaire
- with ELDACON®, indirect/direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- translucent face ends, can be color-accented
- with ECG DALI, ON/OFF switch and light and motion sensor
- luminaire head and support column of extruded aluminum; diecast mounting
- bracket; white aluminum (RAL 9006) luminaire
- protection rating: IP20
- insulation class: I
- incl. color foils for accenting face ends: red, orange, green, blue, mocca

**Function**

- fully automatic operation, sensor-controlled ON/OFF/bright/dark or manual operation ON/OFF/bright/dark via push-button on luminaire
- DIP switch in luminaire head for setting various modes (e.g. daylight control, presence detection, deactivate automatic switch-off; switch-off time 1s...60min; various standby values, parameterize light level)



Office with double workstation  
Room 5 x 3.5 x 2.7m, working plane h 0.75m



Reflection grade 80/50/30, maintenance factor 0.8  
Em room 480 lx Em table 739 lx

**Light source**

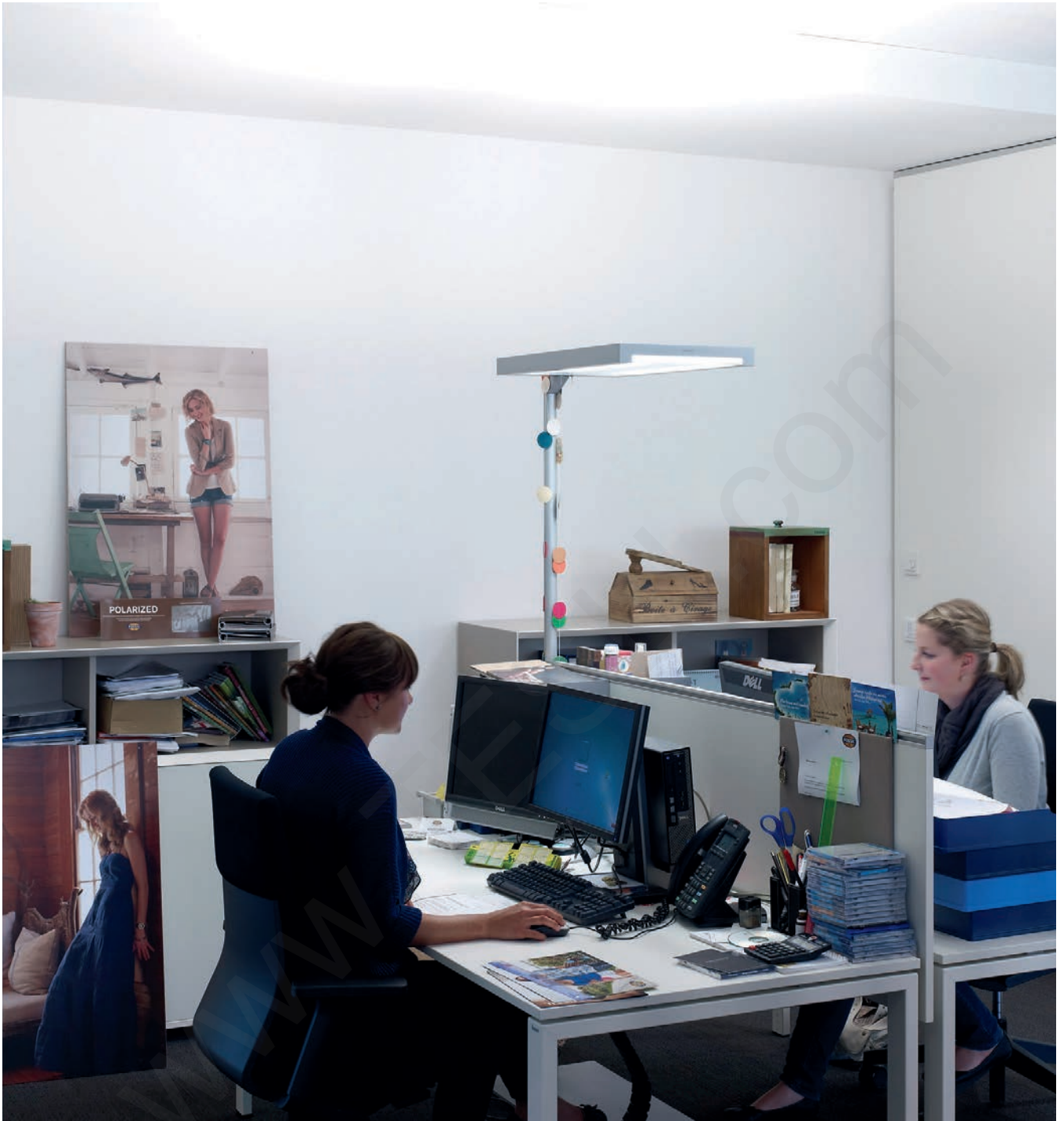


**Order no.**  
**OSRAM**

**Order no.**  
**Siteco**

Light source	OSRAM	kg	ECG-LLCG	Order no. OSRAM	Order no. Siteco
3x TC-LEL 55 W	2G11	25.7	DALI	4050737009476	5MS426D3UL0D
4x TC-LEL 55 W	2G11	26.9	DALI	4050737009483	5MS426D4UL0D

- luminaire partly pre-assembled





# POWERPOLE®



The POWERPOLE® floorstanding uplight features an unusual and slender design and innovative optics. The filigree design is made possible by the use of a sophisticated light guide system. The purist look is determined by the high-quality housing material of brushed and anodized aluminum as well as the transparent light emission aperture over almost the complete length of the luminaire of 1600mm. When switched on, the luminaire appears as a continuously luminous pole that distributes pleasant, warm white light asymmetrically into the room. The floorstanding uplight is steplessly dimmed and switched with a touch sensor on the luminaire head. If required, the POWERPOLE® automatically switches off after one hour with the supplementary AutoSleep function.

## Features

- elegant, extremely slender floorstanding LED luminaire with innovative light guide optics
- simple Plug & Light installation
- asymmetric light distribution with pleasant, warm white light
- versatile luminaire for direct and indirect illumination
- steplessly dimmable, also with AutoSleep function
- housing of anodized aluminum
- very long service life of LED

## Lighting technology

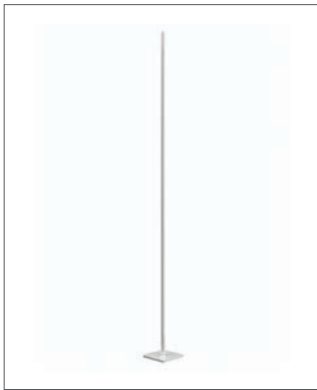
Asymmetric medium distribution, for decorative direct or indirect lighting

## Electrics

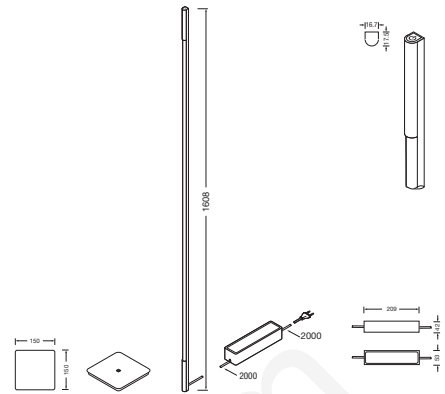
Wired ready for connection with 3.8m power cable and flat euro plug, with ECG in supply cable | touch sensor on upper luminaire part for ON/OFF/bright/dark and supplementary AutoSleep function | AutoSleep function: automatic switch-off after 1h

## Housing

Luminaire housing of aluminum, brushed and anodized; PMMA cover; baseplate of aluminum with steel ground plate | control gear box of highly specular white plastic; brushed and anodized aluminum upper side



LED



**POWERPOLE® with LED**  
**with light guide technology | asymmetric medium distribution**

Floorstanding luminaire

- with light guide technology for homogeneous, asymmetric medium light distribution
- ON/OFF/bright/dark and AutoSleep function by touching the upper luminaire part
- housing of aluminum profile, anodized; cover of PMMA
- protection rating: IP20
- insulation class: II



Light source	K	R <sub>a</sub>	Im	W SYSTEM	Kg	EVG VVG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	242	12	1.5	ECG	4008321992451	OSS88711WTS1

— for information concerning energy consumption labeling regulation (EU) 874/2012, see page 15.25

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**Luminaire families with ELDAICON®**



Novaluna® S LED  
Page 2.5



Novaluna® P LED  
Page 2.5



Novaluna® S  
Page 2.9



Novaluna® P  
Page 2.9



Novaluna®  
Page 2.13



Quadrature® 2  
Page 2.19



Quadrature® 2  
rail system  
Page 2.19



Mira® LED  
Page 2.29



Mira® T16  
Page 2.31

**Luminaire families with hexagonal structure Luminaire families with opal diffuser optics**



ARKTIKA®-P  
LED  
Page 2.37



LEDVANCE®  
AREA  
See chapter 4

**Luminaire families with various lighting technologies**



Tecario®  
frosted  
See chapter 3



Tecario®  
HDP®  
See chapter 3



Tecario®  
CAT louver  
See chapter 3



Comfolight® 2  
ELDAICON®  
Page 2.39

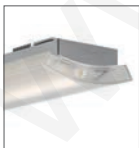


Comfolight® 2  
CAT louver  
Page 2.39

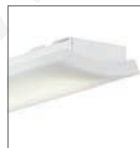
**Luminaire families with prismatic or diffuser optics**



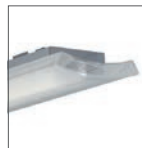
Silhouette® LED  
HDP®  
See chapter 3



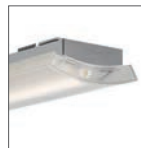
Silhouette® LED  
frosted  
See chapter 3



Silhouette® LED  
opal  
See chapter 3



Silhouette®  
HDP®  
See chapter 3



Silhouette®  
frosted  
See chapter 3

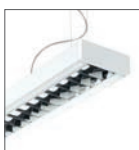


Silhouette®  
opal  
See chapter 3

**Luminaire families with louver optics**



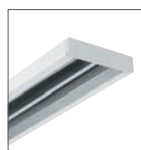
Silica®  
Page 2.45



Siteco® Louvre  
Luminaire M  
Page 2.49



Siteco® Louvre  
Luminaire M LED  
See chapter 3











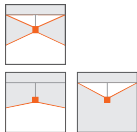



Siteco® Louvre  
Luminaire M  
See chapter 3

**Luminaire families with wallwasher reflectors**















							
		Novaluna® S LED Novaluna® P LED	Novaluna® S Novaluna® P	Novaluna®	Quadrature® 2	Quadrature® 2 rail system	Mira® LED
<b>Light source</b>	LED	■				■	■
	T16		■	■	■	■	
	TC-LEL						
<b>Lighting technology</b>	ELDACON®	■	■	■	■	■	■
	hex. structure						
	louver optics						
<b>UGR rating</b>	≤ 13						
	≤ 16	■	■	■	■	■	
	≤ 19						■
	≤ 25						
<b>Suitable for VDU use (CAT)</b> depending on version	■	■	■	■	■	■	■
<b>Light distribution</b>							
<b>Configuration</b>	single	■	■	■	■	■	■
	row				■	■	

\*\*\* with specular louver

D row configuration with optically continuous lighting technology (louver, reflector, cover)

				
Mira®	ARKTIKA®-P LED	Comfolight® 2	Silica®	Siteco® Louvre Luminaire M
	■			
■		■	■	■
			■	
■		■		
	■			
		■	■	■
		■***	■	
		■***	■	■
■	■			■
■	■	■	■	■***
				
■	■	■	■	■
				■ <sup>D</sup>



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## Novaluna<sup>®</sup> S LED | ... P LED



The LED versions of the Novaluna<sup>®</sup> family are equipped with the patented ELDAICON<sup>®</sup> light control system. This creates a uniform light distribution over the illuminated area with a high, glare-free direct component.

The balanced contrast creates a pleasant atmosphere, and lighting conditions which comply with standards for computer workstations (UGR < 16). This allows the luminaires to be arranged independently of the office layout, leaving a high level of flexibility for interior design. The luminaires Novaluna<sup>®</sup> P and Novaluna<sup>®</sup> S can provide special design accents with their translucent, soft appearance. The Novaluna<sup>®</sup> S has a spherical underside, the Novaluna<sup>®</sup> P has a flat underside.

Rapid advances in LED technology lead to permanently improving energy efficiency. The result of this is that luminous flux or power consumption can change correspondingly. The respective current values can be found in the photometric test report for each product and in the current download files of the photometric project planning data.



### Features

- two designs variations: Novaluna® P with flat underside and Novaluna® S with curved underside
- extremely flat luminaire: only 33mm high
- ELDAICON® microprism technology for optimal restriction of reflected and direct glare, glare rating UGR < 16
- precise light control via the large, prismatic light emission surface creates light distribution with balanced contrasts and allows a completely free arrangement of luminaires within the room
- light control is optimized for LED, with improved direct component for efficient illumination of work surfaces; direct/indirect ratio 45:55
- economic operation due to long system lifespan of up to 50,000h and high energy efficiency of 83lm/W
- housing of brushed and anodized aluminum
- microprism element sealed against insects and larger dust particles

### Lighting technology

High-quality prism structures make Novaluna® an extremely ergonomic and flexible workplace luminaire. Novaluna® is a combination of secondary and prism technology and optimally exploits the advantages of both systems: Although the user cannot directly see the light sources, large light emission surfaces create particularly reduced, yet uniform luminance levels. In addition, the prism structures ensure efficient and exact light control

The special prism structures optimized for LED improve the direct component (direct/indirect ratio 45:55) and the efficiency of lighting

ELDAICON® technology achieves an optimal reduction of reflected and direct glare and is especially suitable for illuminating computer workstations according to current standards | CAT2 ( $L \leq 1500\text{cd/m}^2$ ); UGR < 16

Distribution of the direct light component with reduced glare in an angle range between 0° and 20° creates ideal contrast conditions, making the luminaire especially suitable for mounting directly above workplaces

### Electrics

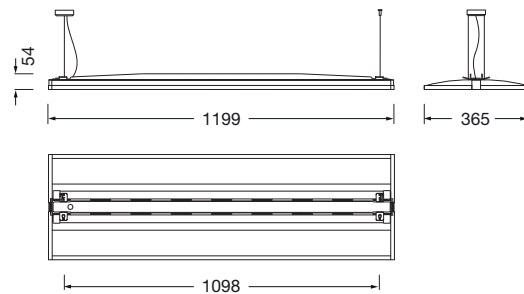
Luminaire wired ready for connection | with 5-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | incl. connecting cable with transparent insulation

### Housing

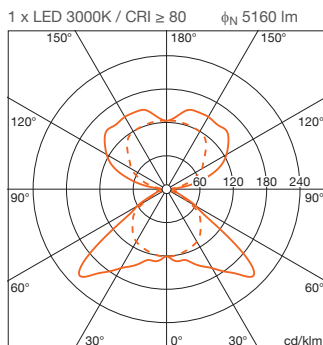
Luminaire housing made of extruded aluminum profile, brushed and anodized | ELDAICON® made of PMMA | incl. wire suspension with height adjustment, canopy at one end



LED



4050737096902  
5MC254DL3HS1



$\phi_{\downarrow}$  45%     $\phi_{\uparrow}$  55%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	998	317
L <sub>70</sub>	703	371
L <sub>65</sub>	952	735

UGR 12.8    9.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.5	1.9	3.9	4.6
30 m <sup>2</sup>	1.2	1.4	2.4	2.8	6.1	7.0
40 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.6	8.5
50 m <sup>2</sup>	1.8	2.0	3.7	4.1	9.1	10
75 m <sup>2</sup>	2.6	2.9	5.2	5.7	13	14
100 m <sup>2</sup>	3.3	3.6	6.7	7.2	17	18
500 m <sup>2</sup>	15	15	29	30	73	75

Maintenance factor 0.8    Rh = Lh + 0.5 m

**Novaluna® P LED**  
**CAT2 with ELDAICON® | with indirect/direct distribution**

- Single luminaire for suspended mounting
- with ELDAICON®, indirect/direct distribution, CAT2 ( $L \leq 1500 \text{cd/m}^2$ )
- with ECG DALI
- housing of aluminum profile, brushed and anodized
- protection rating: IP20

- insulation class: I
- incl. double-wire suspension with height adjustment from 500...1200mm and connection cable with transparent insulation



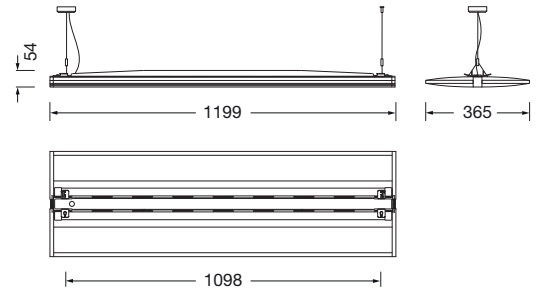
Light source

	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG L.L.C.G.	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	5160	70	5.5	DALI	4050737096902	5MC254DL3HS1
LED	4000	> 80	5890	70	5.5	DALI	4050737096940	5MC254DL4HS1



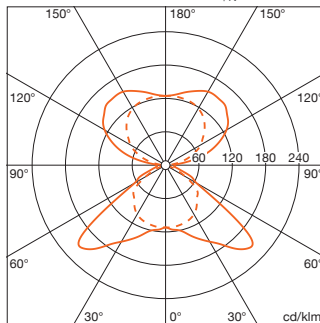


LED



4050737096926  
5MC254DL3HS2

1 x LED 3000K / CRI ≥ 80  $\phi_{\text{N}}$  5125 lm



$\phi_{\downarrow}$  45%  $\phi_{\uparrow}$  55%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	829	313
L <sub>70</sub>	1004	404
L <sub>65</sub>	1310	684

UGR 13.4 9.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	1.0	1.6	1.9	4.0	4.8
30 m <sup>2</sup>	1.2	1.4	2.5	2.8	6.2	7.1
40 m <sup>2</sup>	1.5	1.7	3.1	3.4	7.7	8.6
50 m <sup>2</sup>	1.9	2.1	3.7	4.1	9.3	10
75 m <sup>2</sup>	2.7	2.9	5.3	5.8	13	14
100 m <sup>2</sup>	3.4	3.6	6.8	7.3	17	18
500 m <sup>2</sup>	15	15	29	30	74	76

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Novaluna® S LED**  
**CAT2 with ELDAICON® | with indirect/direct distribution**

- Single luminaire for suspended mounting
- with ELDAICON®, indirect/direct distribution, CAT2 ( $L \leq 1500 \text{cd/m}^2$ )
- with ECG DALI
- housing of aluminum profile, brushed and anodized
- protection rating: IP20

- insulation class: I
- incl. Y-wire suspension with height adjustment from 500...1200mm and connection cable with transparent insulation



Light source

	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	5160	70	5.5	DALI	4050737096926	5MC254DL3HS2
LED	4000	> 80	5890	70	5.5	DALI	4050737096964	5MC254DL4HS2

## Novaluna<sup>®</sup> S | ... P



The suspended design luminaires of the Novaluna<sup>®</sup> family are equipped with the patented ELDAICON<sup>®</sup> light control system. This creates a uniform light distribution over the illuminated area with a high, glare-free direct component.

The balanced contrast creates a pleasant atmosphere, and lighting that complies with standards for computer workstations (UGR < 16). This allows the luminaires to be arranged independently of the office layout, leaving a high level of flexibility for interior design. The luminaires Novaluna<sup>®</sup> P and Novaluna<sup>®</sup> S can provide special design accents with their translucent, soft appearance. The Novaluna<sup>®</sup> S has a spherical underside, the Novaluna<sup>®</sup> P has a flat underside.

### Features

- two designs variations: Novaluna<sup>®</sup> P with flat underside and Novaluna<sup>®</sup> S with curved underside
- extremely flat luminaire: only 33mm high
- combination of secondary and prismatic technology
- ELDAICON<sup>®</sup> microprism technology for optimal reduction of reflected and direct glare, glare rating UGR < 16
- precise light control via the large, prismatic light emission surface creates light distribution with balanced contrasts and allows a completely free arrangement of luminaires within the room
- light sources not directly visible for users
- very high luminaire light output ratio of up to 97%
- flexibility using multiwatt technology for exchangeable light packages
- housing of brushed and anodized aluminum
- microprism element sealed against insects and larger dust particles
- tool-free relamping
- design canopy

### Lighting technology

High-quality prism structures make Novaluna<sup>®</sup> an extremely ergonomic and flexible workplace luminaire. Novaluna<sup>®</sup> is a combination of secondary and prism technology and knows how to use the advantages of both systems: Although the user cannot directly see the light sources, large light emission surfaces create particularly reduced yet uniform luminance levels. In addition, the prism structures ensure efficient and exact light control

ELDAICON<sup>®</sup> technology represents the optimal restriction of reflected and direct glare and is especially suitable for lighting

computer workstations according to current standards | CAT2 ( $L \leq 1500\text{cd/m}^2$ ); UGR < 16 | extremely high operating efficiency of up to 97%

The distribution of the direct light component with reduced glare in an angle range between 0...20°, coupled with the ratio of direct to indirect light (25:75), creates ideal contrast conditions and makes the luminaire especially suitable for mounting directly above workplaces

### Electrics

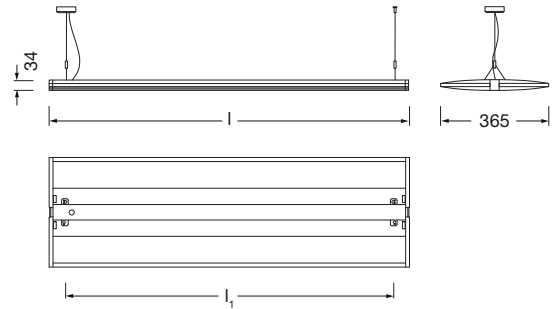
Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | incl. connecting cable with transparent insulation

### Housing

Luminaire housing of extruded aluminum profile, brushed and anodized | ELDAICON<sup>®</sup> of PMMA | incl. wire suspension with height adjustment, canopy at one end

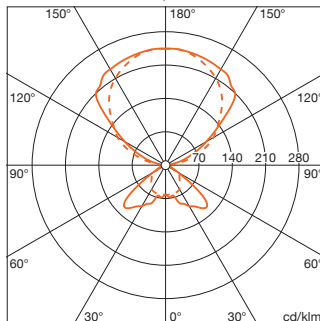


T16  
G5



4039806551085  
5MC25472HS2

2 x T16 54W/840  $\phi$  8900 lm



$\eta_{LB}$  97.1%  $\phi_{\downarrow}$  25%  $\phi_{\uparrow}$  75%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	893	283
L <sub>70</sub>	634	340
L <sub>65</sub>	807	645

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.5	0.6	1.0	1.2	2.5	3.0
30 m <sup>2</sup>	0.9	1.0	1.7	2.0	4.3	4.9
40 m <sup>2</sup>	1.0	1.2	2.1	2.3	5.2	5.8
50 m <sup>2</sup>	1.3	1.4	2.5	2.8	6.3	7.0
75 m <sup>2</sup>	1.8	2.0	3.6	4.0	9.1	9.9
100 m <sup>2</sup>	2.3	2.4	4.5	4.9	11	12
500 m <sup>2</sup>	9.7	10	19	20	49	50

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Novaluna® S**  
**CAT2 with ELDAICON® | with indirect/direct distribution**

- Single luminaire for suspended mounting
- with ELDAICON®, indirect/direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG
- housing of aluminum profile, brushed and anodized

- protection rating: IP20
- insulation class: I
- incl. Y-wire suspension with height adjustment from 500...1200mm and connection cable with transparent insulation



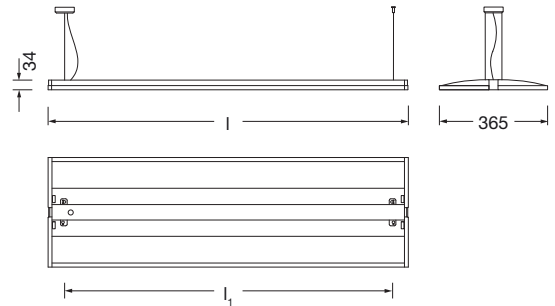
**Light source**

						Order no. OSRAM	Order no. Siteco
2 x TC-LEL 28/54 W	G5	1199	1098	5.5	Multi	4039806551085	5MC25472HS2
2 x TC-LEL 28/54 W	G5	1199	1098	5.5	Multi DALI	4039806551122	5MC254D2HS2
2 x TC-LEL 28/54 W	G5	1199	1098	5.5	Multi 1...10V	4039806551047	5MC25462HS2
2 x T16 35/49/80 W	G5	1499	1398	6.3	Multi	4039806804846	5MC25472QS2
2 x T16 35/49/80 W	G5	1499	1398	6.3	Multi DALI	4039806568373	5MC254D2QS2
2 x T16 35/49/80 W	G5	1499	1398	6.3	Multi 1...10V	4039806568137	5MC25462QS2



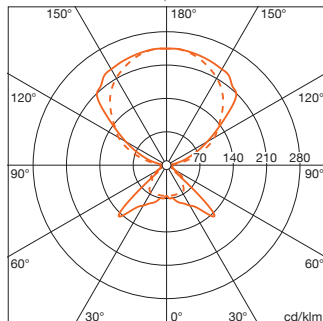


T16  
G5



4039806551078  
5MC25472HS1

2 x T16 54W/840  $\phi$  8900 lm



$\eta_{LB}$  95.8%  $\phi_{\downarrow}$  24%  $\phi_{\uparrow}$  76%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	849	297
L <sub>70</sub>	436	323
L <sub>65</sub>	641	533

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.5	0.6	1.0	1.2	2.5	3.0
30 m <sup>2</sup>	0.9	1.0	1.7	2.0	4.3	4.9
40 m <sup>2</sup>	1.1	1.2	2.1	2.4	5.3	5.9
50 m <sup>2</sup>	1.3	1.4	2.5	2.9	6.4	7.1
75 m <sup>2</sup>	1.8	2.0	3.7	4.0	9.2	9.9
100 m <sup>2</sup>	2.3	2.5	4.6	4.9	11	12
500 m <sup>2</sup>	9.9	10	20	20	50	51

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

### Novaluna® P

#### CAT2 with ELDAICON® | with indirect/direct distribution

- Single luminaire for suspended mounting
- with ELDAICON®, indirect/direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG
- housing of aluminum profile, brushed and anodized

- protection rating: IP20
- insulation class: I
- incl. double-wire suspension with height adjustment from 500...1200mm and connection cable with transparent insulation



#### Light source

						Order no. OSRAM	Order no. Siteco
2 x TC-LEL 28/54 W	G5	1199	1098	5.5	Multi	4039806551078	5MC25472HS1
2 x TC-LEL 28/54 W	G5	1199	1098	5.5	Multi DALI	4039806551115	5MC254D2HS1
2 x TC-LEL 28/54 W	G5	1199	1098	5.5	Multi 1...10V	4039806551030	5MC25462HS1
2 x T16 35/49/80 W	G5	1499	1398	6.5	Multi	4039806804822	5MC25472QS1
2 x T16 35/49/80 W	G5	1499	1398	6.5	Multi DALI	4039806568359	5MC254D2QS1
2 x T16 35/49/80 W	G5	1499	1398	6.5	Multi 1...10V	4039806568113	5MC25462QS1



## Novaluna®



The luminaires of the Novaluna® family are characterized by a purist design and slender construction. The suspended luminaires are equipped with the patented ELDAICON® light control system. This creates a uniform light distribution over the illuminated area with a high, glare-free direct component. The balanced contrast creates a pleasant atmosphere, and lighting that complies with standards for computer workstations (UGR < 16). This allows the luminaires to be arranged independently of the office layout, leaving a high level of flexibility for interior design. With their T16 light sources, they also attain a high degree of efficiency.

### Features

- complete family of surface-mounted, recessed, semi-recessed, suspended and design variations for a wide spectrum of applications
- extremely flat design – only 33mm high
- combination of secondary and prismatic technology
- ELDAICON® microprism technology for optimal restriction of reflected and direct glare, glare rating UGR < 16
- precise light control via the large, prismatic light emission surface creates light distribution with balanced contrasts and allows a free arrangement of luminaires within the room
- high light output ratio of up to 85%
- flexibility using multiwatt technology for exchangeable light packages
- tool-free relamping

### Lighting technology

The combination of secondary and prismatic technology as well as the large light emission surface enable efficient and precise light control with especially reduced, homogeneous luminance levels.

- ELDAICON® microprism technology for optimal restriction of reflected and direct glare, CAT2 ( $L \leq 1000\text{cd/m}^2$ ); UGR < 16

Especially suitable for the standard-compliant illumination of computer workstations

High light output ratios:

- Up to 85% with single-lamp configuration
- Up to 80% with twin-lamp configuration (with version for High Efficiency (HE) lamps)

### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

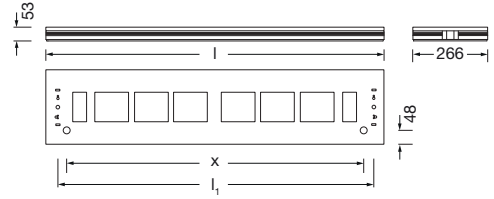
### Housing

Luminaire housing of sheet steel, white aluminum (RAL 9006) | ELDAICON® made of PMMA



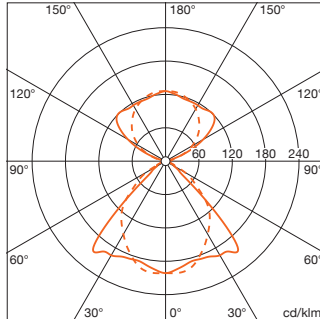


T16  
G5



4039806906779  
5MC24B71HS

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  82%  $\phi_{\downarrow}$  51%  $\phi_{\uparrow}$  49%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	306	110
L <sub>70</sub>	335	232
L <sub>65</sub>	445	439

UGR 8.9 8.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.1	1.9	2.2	4.7	5.4
30 m <sup>2</sup>	1.6	1.7	3.1	3.4	7.8	8.6
40 m <sup>2</sup>	1.9	2.2	3.8	4.3	9.6	11
50 m <sup>2</sup>	2.3	2.6	4.7	5.1	12	13
75 m <sup>2</sup>	3.5	3.6	7.0	7.3	17	18
100 m <sup>2</sup>	4.4	4.7	8.7	9.3	22	23
500 m <sup>2</sup>	20	20	39	41	98	101

Maintenance factor 0.8

Rh = Lh + 0.5 m

**Novaluna®**  
**CAT2 with ELDAICON® | direct/indirect distribution**

- Single luminaire for suspended mounting
- with ECG
- with ELDAICON®, CAT2 ( $L \leq 1000\text{cd/m}^2$ ), direct distribution with integrated prismatic optics
- with ECG
- housing of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I



**Light source**

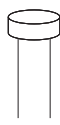
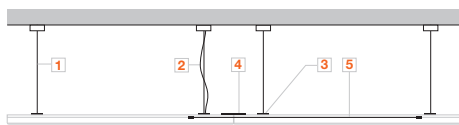
							Order no. OSRAM	Order no. Siteco
1 x TC-TEL 28/54 W G5		1203	1040	1124	6.6	Multi	4039806906779	5MC24B71HS
1 x TC-TEL 28/54 W G5		1203	1040	1124	6.6	Multi 1...10V	4050737028682	5MC24B61HS
1 x T16 35/49/80 W G5		1503	1340	1424	8.5	Multi	4050737029412	5MC24B71QS
1 x T16 35/49/80 W G5		1503	1340	1424	8.5	Multi DALI	4050737017709	5MC24BD1QS
1 x T16 35/49/80 W G5		1503	1340	1424	8.5	Multi 1...10V	4050737038865	5MC24B61QS
2 x TC-LEL 28/54 W G5		1203	1040	1124	7.0	Multi	4039806597533	5MC24B72HS
2 x TC-LEL 28/54 W G5		1203	1040	1124	7.0	Multi 1...10V	4039806599148	5MC24B62HS
2 x TC-LEL 35/49 W G5		1503	1340	1424	8.2	Multi	4039806804785	5MC24B72WS
2 x TC-LEL 35/49 W G5		1503	1340	1424	8.2	Multi DALI	4039806862846	5MC24BD2WS
2 x TC-LEL 35/49 W G5		1503	1340	1424	8.2	Multi 1...10V	4039806599162	5MC24B62WS

— please order suspension separately

**Mandatory accessories (for details see page 2.15 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Quick-fit mounting bracket	set of 2	0.2	4039806571526	5MC90201
Connector, steel sheet, zinc-plated		0.1	4039806577672	5MC90202
Y-wire suspension, with canopy, round, gray		0.1	4039806547651	5LY91105
Y-wire suspension, with canopy, round, white		0.1	4039806547675	5LY91106
Double-wire suspension, with canopy, round, gray		0.1	4039806547699	5LY91107
Double-wire suspension, with canopy, round, white		0.1	4039806547712	5LY91108
Double-wire suspension, with canopy, rectangular, gray		0.1	4039806547088	5LY91115
Double-wire suspension, with canopy, rectangular, white		0.1	4039806547101	5LY91116
Connection cable, 3 x 0.75 mm <sup>2</sup> , transparent, l = 2000 mm, with terminal		0.1	4039806507693	5LF90003L
Connection cable, 5 x 0.75 mm <sup>2</sup> , transparent, l = 2000 mm, with terminal		0.2	4039806507709	5LF90006L

**Novaluna® Double-wire suspension**



**Double-wire suspension  
round canopy, white**

**Double-wire suspension  
round canopy, gray**

**Double-wire suspension  
rectangular canopy, white**

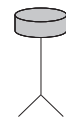
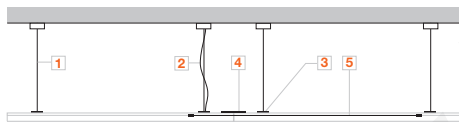
**Individual luminaires**

<b>1</b> Suspension without terminal	4039806547712   5LY91108	4039806547699   5LY91107	4039806547101   5LY91116
<b>2</b> Connection cable, transparent insulation, 0.75mm <sup>2</sup>			
3-core, l = 2.0m	4039806507693   5LF90003L	4039806507693   5LF90003L	4039806507693   5LF90003L
5-core, l = 2.0m	4039806507709   5LF90006L	4039806507709   5LF90006L	4039806507709   5LF90006L

**Trunking arrangement**

<b>1</b> Suspension without terminal	4039806547712   5LY91108	4039806547699   5LY91107	4039806547101   5LY91116
<b>3</b> Quick-fit mounting bracket (set of 2)	4039806571526   5MC90201	4039806571526   5MC90201	4039806571526   5MC90201
<b>4</b> Luminaire connector	4039806577672   5MC90202	4039806577672   5MC90202	4039806577672   5MC90202
<b>5</b> Through-wiring set, 1.5mm <sup>2</sup>			
3-core (54W)	4039806580085   5MC91002	4039806580085   5MC91002	4039806580085   5MC91002
5-core (54W)	4039806580054   5MC91001	4039806580054   5MC91001	4039806580054   5MC91001
3-core (49/80W)	4039806580115   5MC91003	4039806580115   5MC91003	4039806580115   5MC91003
5-core (49/80W)	4039806580146   5MC91004	4039806580146   5MC91004	4039806580146   5MC91004
<b>2</b> Connection cable, transparent insulation, 0.75mm <sup>2</sup>			
3-core, l = 2.0m	4039806507693   5LF90003L	4039806507693   5LF90003L	4039806507693   5LF90003L
5-core, l = 2.0m	4039806507709   5LF90006L	4039806507709   5LF90006L	4039806507709   5LF90006L

**Novaluna® Double-wire suspension/Y-wire suspension**



**Double-wire suspension  
rectangular canopy, gray**

**Y-wire suspension  
round canopy, white**

**Y-wire suspension  
round canopy, gray**

**Individual luminaires**

<b>1</b> Suspension without terminal	4039806547088   5LY91115	4039806547675   5LY91106	4039806547651   5LY91105
<b>2</b> Connection cable, transparent insulation, 0.75mm <sup>2</sup>			
3-core, l = 2.0m	4039806507693   5LF90003L	4039806507693   5LF90003L	4039806507693   5LF90003L
5-core, l = 2.0m	4039806507709   5LF90006L	4039806507709   5LF90006L	4039806507709   5LF90006L

**Trunking arrangement**

<b>1</b> Suspension without terminal	4039806547088   5LY91115	4039806547675   5LY91106	4039806547651   5LY91105
<b>3</b> Quick-fit mounting bracket (set of 2)	4039806571526   5MC90201	4039806571526   5MC90201	4039806571526   5MC90201
<b>4</b> Luminaire connector	4039806577672   5MC90202	4039806577672   5MC90202	4039806577672   5MC90202
<b>5</b> Through-wiring set, 1.5mm <sup>2</sup>			
3-core (54W)	4039806580085   5MC91002	4039806580085   5MC91002	4039806580085   5MC91002
5-core (54W)	4039806580054   5MC91001	4039806580054   5MC91001	4039806580054   5MC91001
3-core (49/80W)	4039806580115   5MC91003	4039806580115   5MC91003	4039806580115   5MC91003
5-core (49/80W)	4039806580146   5MC91004	4039806580146   5MC91004	4039806580146   5MC91004
<b>2</b> Connection cable, transparent insulation, 0.75mm <sup>2</sup>			
3-core, l = 2.0m	4039806507693   5LF90003L	4039806507693   5LF90003L	4039806507693   5LF90003L
5-core, l = 2.0m	4039806507709   5LF90006L	4039806507709   5LF90006L	4039806507709   5LF90006L

**Novaluna® Electrical accessories**



**Through-wiring set for continuous row arrangement**

for through-wiring from the terminal of a luminaire to the terminal of the neighboring luminaire (luminaires mounted end to end)

Designation	Order no. OSRAM	Order no. Siteco
For 28/54 W		
3 x 1.5 mm <sup>2</sup>	4039806580085	5MC91002
5 x 1.5 mm <sup>2</sup>	4039806580054	5MC91001
For 35/49/80 W		
3 x 1.5 mm <sup>2</sup>	4039806580115	5MC91003
5 x 1.5 mm <sup>2</sup>	4039806580146	5MC91004

**Novaluna® Mounting accessories**



**Quick-fit mounting bracket**

for click attachment of the Novaluna® with suspended mounting or ceiling-surface mounting | for individual or trunking arrangement

Designation	PU	Order no. OSRAM	Order no. Siteco
Quick-fit mounting bracket	set of 2	4039806571526	5MC90201

— 2 pieces required per luminaire



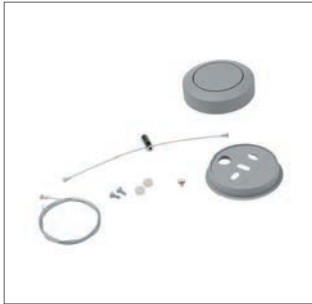
**Luminaire connector**

for trunking arrangement | central suspension for double-wire or Y-wire suspension, tubular pendant suspension or ceiling suspension

Designation	Order no. OSRAM	Order no. Siteco
Luminaire connector	4039806577672	5MC90202

— only in connection with quick-fit mounting bracket (1 required per luminaire coupling joint)





### Y-wire suspension

with height adjustment up to 1.2m | wire: D = 1.2mm | incl. ceiling mounting element and round canopy

Designation	Order no. OSRAM	Order no. Siteco
With round canopy, gray	4039806547651	5LY91105
With round canopy, white	4039806547675	5LY91106

- without terminals, without connection cable
- please order quick-fit mounting bracket and luminaire connector separately for trunking arrangement

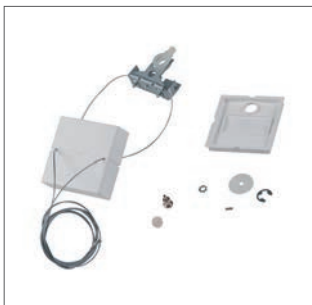


### Double-wire suspension

with height adjustment up to 1.2m | wire: D = 1.2mm | incl. ceiling mounting element and round canopy

Designation	Order no. OSRAM	Order no. Siteco
With round canopy, gray	4039806547699	5LY91107
With round canopy, white	4039806547712	5LY91108

- without terminals, without connection cable
- please order quick-fit mounting bracket and luminaire connector separately for trunking arrangement



### Double-wire suspension

with height adjustment up to 1.2m | wire: D = 1.2mm | incl. ceiling mounting element and rectangular canopy

Designation	Order no. OSRAM	Order no. Siteco
With rectangular canopy, gray	4039806547088	5LY91115
With rectangular canopy, white	4039806547101	5LY91116

- without terminals, without connection cable
- for mounting to quick-fit mounting bracket on luminaire side, or, in the case of trunking arrangement, on the luminaire connector



### Supplementary wire

suitable for double-wire suspension | for suspension height up to max. 2.95m | wire: D = 1.2mm

Designation	l (mm)	Order no. OSRAM	Order no. Siteco
Supplementary wire	6000	4039806046079	5LP91303S



### Connection cable

with transparent insulation | with insulated pin terminals on one side

Designation	Order no. OSRAM	Order no. Siteco
3x 0.75mm <sup>2</sup> ; l = 2m	4039806507693	5LF90003L
3x 0.75mm <sup>2</sup> ; l = 2m	4039806507709	5LF90006L

- incl. 2 or 4 plug-in terminals, 1-pole, max. 2.5mm<sup>2</sup>



## Quadrature® 2



The luminaires in the Quadrature® 2 family feature an extremely flat housing, purist design and modern lighting technology. They are equipped with the patented ELDAICON® light control system. This creates a uniform light distribution over the illuminated area with a high, glare-free direct component. The balanced contrast creates a pleasant atmosphere, and lighting that complies with standards for computer workstations.

This allows the luminaires to be arranged independently of the office layout, leaving a high level of flexibility for interior design. The system rail provides additional options. The Quadrature® 2 luminaires can be freely positioned along the rail. It can also be equipped with efficient T16 lamps and be operated independently of the Quadrature® 2 to create indirect light distribution.

### Features

- compact, especially flat housing formed from a single aluminum profile
- a complete luminaire family of recessed, surface-mounted, rail and pendant luminaires
- extremely flat CAT luminaire – made possible by using transparent ELDAICON® microprism technology
- reduced reflected glare even directly below the luminaire
- flexibility for interior design with an independent luminaire arrangement within the room, even directly above workplaces
- glare rating UGR < 19
- good cylindrical illuminance levels

### Lighting technology

ELDAICON® technology: glare-free light control via highly precise microprism structures | uniform luminance over complete light emission surface without direct view of lamps | reduced reflected glare directly below the luminaire, enabling independent arrangement of luminaires in the room, even directly above workstations

**Luminaire for suspended mounting** with ELDAICON®, direct distribution with approx. 45% ceiling illumination, CAT2 ( $L \leq 1000\text{cd/m}^2$ ) | glare rating UGR < 19 | luminaire light output ratio  $\geq 70\%$

**Luminaire module for mounting** to system rail with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ ) | glare rating UGR  $\leq 19$

**Indirect lighting insert** with aluminum reflector, indirect wide distribution

### Electrics

**Luminaire** wired ready for connection | with 3-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max.  $2.5\text{mm}^2$

**Wired mounting rail** with a 6-pole terminal at each rail end, max.  $2.5\text{mm}^2$  and through-wiring  $6 \times 1.5\text{mm}^2$  (for control signal, 3-phase wiring and multiple circuits)

**Indirect light insert** for mounting rail wired ready for connection | 3-pole, with free wire ends (ECG DALI: 3-pole + 2-pole for control signal) for connection to nearest terminal block on the rail luminaire and indirect light insert can be operated independently

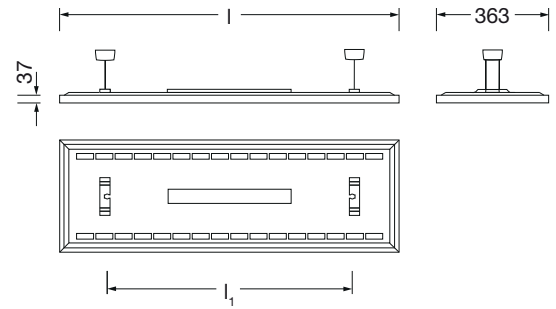
### Housing

Visible frame of luminaire and system rail of anodized extruded aluminum; brushed vertical luminaire sides, high-gloss underside; top of housing of sheet steel, white aluminum (RAL 9006); ELDAICON® of PMMA



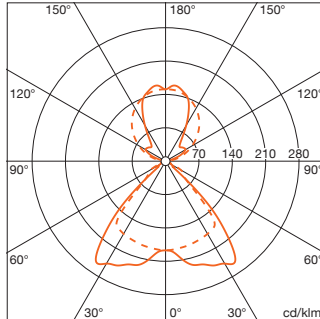


T16  
G5



4050737024240  
5MQ23872W

2 x T16 49W/840  $\phi$  8600 lm



$\eta_{LB}$  76.6%  $\phi_{\downarrow}$  56%  $\phi_{\uparrow}$  44%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	651	338
L <sub>70</sub>	733	435
L <sub>65</sub>	400	806

UGR 10.8 10.7

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.5	0.5	1.0	1.1	2.4	2.7
30 m <sup>2</sup>	0.8	0.9	1.6	1.9	4.1	4.7
40 m <sup>2</sup>	1.0	1.1	2.0	2.3	5.1	5.6
50 m <sup>2</sup>	1.2	1.4	2.5	2.7	6.2	6.8
75 m <sup>2</sup>	1.9	2.0	3.7	4.1	9.3	10
100 m <sup>2</sup>	2.3	2.5	4.7	5.0	12	12
500 m <sup>2</sup>	11	11	21	22	53	55

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

**Quadrature<sup>®</sup> 2 single luminaire  
CAT2 with ELDAICON<sup>®</sup> | direct/indirect distribution**

Single luminaire for suspended mounting  
 - with ELDAICON<sup>®</sup>, direct/indirect distribution, CAT2 (L ≤ 1000cd/m<sup>2</sup>)  
 - with ECG  
 - visible frame of anodized extruded aluminum, brushed vertical sides, high-gloss underside

- top of housing of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I



Light source



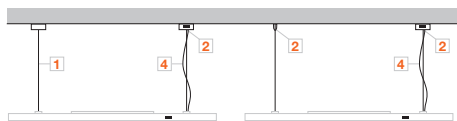
Light source	l [mm]	h [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco	
2 x TC-LEL 21/39 W G5	946	720	7.7	Multi	4050737024226	5MQ23872L	
2 x TC-LEL 21/39 W G5	946	720	7.7	Multi DALI	4050737024301	5MQ238D2L	
2 x TC-LEL 28/54 W G5	1246	1020	9.8	Multi	4050737024202	5MQ23872H	
2 x TC-LEL 28/54 W G5	1246	1020	9.8	Multi DALI	4050737024288	5MQ238D2H	
2 x TC-LEL 35/49 W G5	1546	1320	12.0	Multi	4050737024240	5MQ23872W	
2 x TC-LEL 35/49 W G5	1546	1320	12.0	Multi DALI	4050737024325	5MQ238D2W	
2 x T16 80 W	G5	1546	1320	12.0	ECG	4050737024271	5MQ23872X
2 x T16 80 W	G5	1546	1320	12.0	DALI	4050737024349	5MQ238D2X

- recommended installation method: suspended mounting as single luminaire
- please order suspension kit separately

**Mandatory accessories (for details see page 2.21 ff.)**

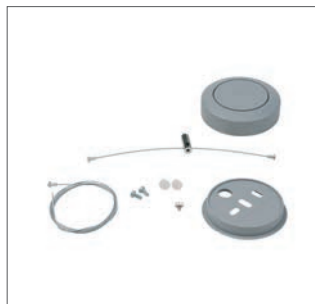
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-wire suspension, with canopy, gray, suspension height 0...1000mm	0.2	4039806436535	5LM59311A
Y-wire suspension, with ceiling mounting element, suspension height 0...1000mm	0.1	4039806436511	5LM59301A
Double-wire suspension, with canopy, gray	0.2	4039806113498	5LF91302A
Double-wire suspension, with canopy, gray, with terminal	0.2	4039806113511	5LF91312A
Double-wire suspension, with canopy, white	0.2	4039806119469	5LF91302
Double-wire suspension, with canopy, white, with terminal	0.2	4039806119483	5LF91312
Connection cable, 3 x 0.75mm <sup>2</sup> , transparent, l = 750mm, with terminal	0.1	4039806139948	5LF90001L
Connection cable, 3 x 0.75mm <sup>2</sup> , transparent, l = 1400mm, with terminal	0.1	4039806198839	5LF90002L
Connection cable, 5 x 0.75mm <sup>2</sup> , transparent, l = 1400mm, with terminal	0.1	4039806201935	5LF90005L

### Quadrature® Suspension accessories



	Y-wire suspension canopy, gray	Double-wire suspension canopy, white	Double-wire suspension canopy, gray
1 Suspension without terminal	4039806119469   5LF91302	4039806113498   5LF91302A	
2 Suspension with terminal		4039806119483   5LF91312	4039806113511   5LF91312A
3 Suspension with ceiling bushing (without canopy)	4039806436511   5LM59301A		
4 Connection cable, transparent insulation, 0.75mm <sup>2</sup>			
3-core, l = 0.75m	4039806139948   5LF90001L	4039806139948   5LF90001L	4039806139948   5LF90001L
3-core, l = 1.4m	4039806198839   5LF90002L	4039806198839   5LF90002L	4039806198839   5LF90002L
5-core, l = 1.4m	4039806201935   5LF90005L	4039806201935   5LF90005L	4039806201935   5LF90005L

### Quadrature® Mounting accessories



#### Y-wire suspension

with height adjustment up to 1.0m | incl. ceiling mounting element | wire: D = 1.2mm

Designation	Order no. OSRAM	Order no. Siteco
With canopy, gray	4039806436535	5LM59311A
Without canopy, with ceiling bushing	4039806436511	5LM59301A

— 1 x required per suspension point



#### Double-wire suspension

with height adjustment up to 1.0m | incl. ceiling mounting element and canopy | wire: D = 1.2mm

Designation	Order no. OSRAM	Order no. Siteco
With rectangular canopy, gray		
Without terminals	4039806113535	5LF91301A
With terminals <sup>1)</sup>	4039806113559	5LF91311A
With rectangular canopy, white		
Without terminals	4039806119421	5LF91301
With terminals <sup>1)</sup>	4039806119445	5LF91311
With round canopy, gray		
Without terminals	4039806113498	5LF91302A
With terminals <sup>1)</sup>	4039806113511	5LF91312A
With round canopy, white		
Without terminals	4039806119469	5LF91302
With terminals <sup>1)</sup>	4039806119483	5LF91312

— 1 x required per suspension point

1) with 5 terminals, 1-pole, max. 2.5mm<sup>2</sup> and strain relief (without connection cable)



**Additional wire**

suitable for double-wire suspension (5LF913... | 5LM593...) | for suspension height up to 2.95m | wire: D = 1.2mm

Designation	l (mm)	Order no. OSRAM	Order no. Siteco
Additional wire	6000	4039806046079	5LP91303S

— 1 x required per suspension point



**Connection cable**

with transparent insulation | with insulated pin terminals on one side

Designation	Order no. OSRAM	Order no. Siteco
3 x 0.75mm <sup>2</sup> ; l = 0.75m	4039806139948	5LF90001L
3 x 0.75mm <sup>2</sup> ; l = 1.4m	4039806198839	5LF90002L
5 x 0.75mm <sup>2</sup> ; l = 1.4m	4039806201935	5LF90005L

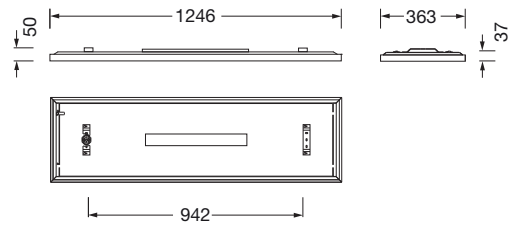
— incl. 2 or 4 plug-in terminals, 1-pole, max. 2.5mm<sup>2</sup>





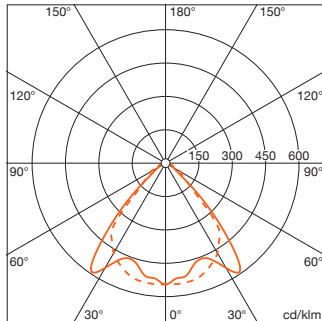


LED



4050737463483  
5MQ218DL3P

1 x LED 3000K / CRI ≥ 80     $\phi_N$  4285 lm



$\phi_{\downarrow}$  100%     $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1337	698
L <sub>70</sub>	1467	853
L <sub>65</sub>	1050	1491

UGR 16.6    15.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.5	0.6	1.1	1.3	2.7	3.2						
30 m <sup>2</sup>	1.0	1.1	1.9	2.1	4.9	5.3						
40 m <sup>2</sup>	1.2	1.3	2.4	2.6	5.9	6.6						
50 m <sup>2</sup>	1.4	1.6	2.9	3.1	7.2	7.9						
75 m <sup>2</sup>	2.3	2.4	4.5	4.7	11	12						
100 m <sup>2</sup>	2.8	3.0	5.5	5.9	14	15						
500 m <sup>2</sup>	13	14	27	27	66	68						

Maintenance factor 0.8    Rh = Lh

**Quadrature® 2 rail system  
light module LED, CAT2 with ELDAICON® | direct distribution**

- Luminaire module for mounting to system rail
- with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG
- visible frame of anodized extruded aluminum, brushed vertical sides, high-gloss underside
- top of housing of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I



**Light source**

	K	R <sub>a</sub>	lm	W SYSTEM	Kg	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	4300	78	10.3	4050737463483	5MQ218DL3P
LED	4000	> 80	4600	74	10.3	4050737462936	5MQ218DL4P

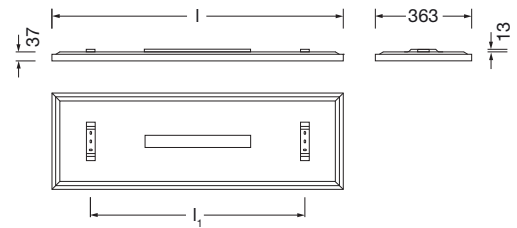
— please order system rail and system components separately

**Mandatory accessories (for details see page 2.27)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mounting set, white aluminum (RAL 9006)	set of 2	0.3	4050737518992	5MQ90102

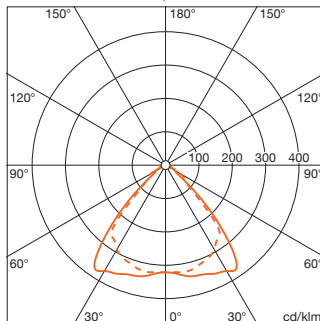


T16  
G5



4050737024103  
5MQ21872P

2 x T16 28W/840  $\phi$  5200 lm



$\eta_{LB}$  69.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	900	690
L <sub>70</sub>	838	825
L <sub>65</sub>	926	994

UGR 15.7 15  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.4	3.9
30 m <sup>2</sup>	1.1	1.2	2.2	2.4	5.4	6.1
40 m <sup>2</sup>	1.4	1.5	2.8	3.1	7.0	7.7
50 m <sup>2</sup>	1.7	1.8	3.4	3.7	8.4	9.2
75 m <sup>2</sup>	2.5	2.7	5.0	5.5	13	14
100 m <sup>2</sup>	3.3	3.5	6.5	7.0	16	17
500 m <sup>2</sup>	16	16	31	32	78	80

Maintenance factor 0.8

Rh = Lh

**Quadrature® 2 rail system  
light module T16, CAT2 with ELDAICON® | direct distribution**

- luminaire module for mounting to system rail
- with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG
- visible frame of anodized extruded aluminum, brushed vertical sides, high-gloss underside
- top of housing of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I



**Light source**

		$l$ [mm]	$h$ [mm]			Order no. OSRAM	Order no. Siteco
2x T16 21 W	G5	946	580	7.9	ECG	4050737024097	5MQ21872N
2x T16 21 W	G5	946	580	7.9	DALI	4050737024141	5MQ218D2N
2 x T16 28 W	G5	1246	880	11.4	ECG	4050737024103	5MQ21872P
2 x T16 28 W	G5	1246	880	11.4	DALI	4050737024165	5MQ218D2P
2 x T16 35 W	G5	1546	1180	12.4	ECG	4050737024127	5MQ21872R
2 x T16 35 W	G5	1546	1180	12.4	DALI	4050737024196	5MQ218D2R

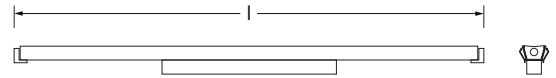
— please order system rail and system components separately

**Mandatory accessories (for details see page 2.27)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mounting set, white aluminum (RAL 9006)	set of 2	0.3	4050737017723	5MQ593040S

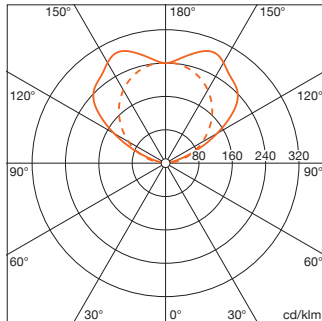


T16  
G5



4050737019895  
5MQ54071Q

1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  85.1%

**Quadrature® 2 rail system  
light insert T16 for system rail | indirect distribution**

light insert for mounting in suspended system rail  
— with aluminum reflector, indirect distribution

- with ECG
- protection rating: IP20
- insulation class: I



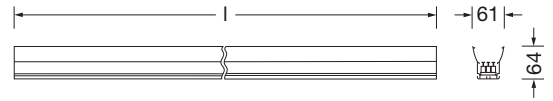
No. of luminaires in room	Reflection factors 70/50/20					
	Em(lx) 100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.2	2.5	5.5	6.3
30 m <sup>2</sup>	1.8	2.0	3.6	4.0	8.9	10.0
40 m <sup>2</sup>	2.1	2.3	4.2	4.6	10	12
50 m <sup>2</sup>	2.6	2.8	5.1	5.6	13	14
75 m <sup>2</sup>	3.6	3.9	7.3	7.8	18	20
100 m <sup>2</sup>	4.5	4.9	9.1	9.7	23	24
500 m <sup>2</sup>	19	19	38	39	94	97

Maintenance factor 0.8 Rh = Lh + 0.5 m

Light source					Order no.	Order no.
					OSRAM	Siteco
1 x T16 21/39 W	G5	905	0.6	Multi	4050737019888	5MQ54071L
1 x T16 21/39 W	G5	905	0.6	Multi DALI	4050737019932	5MQ540D1L
1 x T16 28/54 W	G5	1205	0.7	Multi	4050737019857	5MQ54071H
1 x T16 28/54 W	G5	1205	0.7	Multi DALI	4050737019918	5MQ540D1H
1x T16 35/49/80 W	G5	1505	0.8	Multi	4050737019895	5MQ54071Q
1x T16 35/49/80 W	G5	1505	0.8	Multi DALI	4050737019956	5MQ540D1Q

— please order system rail and system components separately







**Quadrature® 2 rail system system rail**

- System rail for suspended mounting
- wired or unwired
- extruded aluminum rail, anodized
- protection rating: IP20
- insulation class: I

• system rail not wired or wired ready for connection, with two terminals, 6-pole max. 2.5mm<sup>2</sup>, and 6 x 1.5mm<sup>2</sup> for through-wiring



 l (mm)	 kg	Order no. OSRAM	Order no. Siteco
<b>Trunking rail</b>			
1800	2.3	4050737021546	5MQ530010S
2700	3.3	4050737021560	5MQ530020S
3600	4.3	4050737021584	5MQ530030S
<b>Trunking rail, with through-wiring 6 x 1.5mm<sup>2</sup></b>			
1800	2.4	4050737024615	5MQ530110S
2700	3.5	4050737024622	5MQ530120S
3600	4.5	4050737024646	5MQ530130S

**Mandatory accessories (for details see page 2.27 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap	set of 2	0.2	4050737019680	5MQ593060S
Connector, galvanized steel		0.2	4039806160348	5LM59307
Wall flange, white aluminum (RAL 9006), sheet steel, galvanized		0.3	4050737019369	5MQ593080S
Single-wire suspension, with canopy, gray, with terminal, with mounting bracket, recessed		0.2	4039806160126	5LM593120S
Single-wire suspension, with canopy, white, with terminal, with mounting bracket, recessed		0.2	4039806160249	5LM593120W
Single-wire suspension, with ceiling mounting element, with mounting bracket, recessed		0.1	4039806160140	5LM593020S
Single-wire suspension, with ceiling mounting element, with mounting bracket, raised		0.1	4039806162021	5LM593010S
Connection cable, 3 x 0.75mm <sup>2</sup> , transparent, l = 750mm, with terminal		0.1	4039806139948	5LF90001L
Connection cable, 3 x 0.75mm <sup>2</sup> , transparent, l = 1400mm, with terminal		0.1	4039806198839	5LF90002L
Connection cable, 5 x 0.75mm <sup>2</sup> , transparent, l = 1400mm, with terminal		0.1	4039806201935	5LF90005L



### Quadrature® on rail system mounting accessories



#### End cap

to plug onto the rail | coated steel

Designation	PU	Order no. OSRAM	Order no. Siteco
White aluminum (RAL9006)	set of 2	4050737019680	5MQ593060S



#### Straight connector

galvanized steel

Designation	Order no. OSRAM	Order no. Siteco
Straight connector	4039806160348	5LM59307

— firm connection, only one suspension at joints ( $l_{a_{max}} = 0.5m$ ) required



#### Wall connection

incl. cover, coated | galvanized steel | load capacity: 14kg

Designation	Order no. OSRAM	Order no. Siteco
Cover, white aluminum (RAL 9006)	4050737019369	5MQ593080S



#### Mounting set

for mounting direct-distribution Quadrature® luminaires on the rail | incl. 5 individual cores to connect in the rail; incl. plastic cover for electrical connection to the outside of the rail

Designation	PU	Order no. OSRAM	Order no. Siteco
For light module LED	set of 2	4050737518992	5MQ90102
For light module T16	set of 2	4050737017723	5MQ593040S

— set of 2 fastening elements + 1 connection set; 1 set required per luminaire



### Single-wire suspension

with height adjustment up to 1.0m | wire: D = 1.2mm | load capacity: 14kg | incl. concealed mounting bracket recessed into rail; ceiling side with canopy or with ceiling mounting element, nickel-plated

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension with recessed mounting bracket <sup>1)</sup>		
With canopy, gray; with terminals <sup>2)</sup>	4039806160126	5LM593120S
With canopy, white; with terminals <sup>2)</sup>	4039806160249	5LM593120W
With ceiling mounting element; without terminals	4039806160140	5LM593020S

1) for rail suspension with indirect light insert/without indirect light insert  
 2) with 4 plug-in terminals, 1-pole, max. 2.5mm<sup>2</sup> (without connection cable)



### Single-wire suspension

with height adjustment up to 1.0m | wire: D = 1.2mm | load capacity: 14kg | incl. raised visible mounting bracket to attach via indirect lighting inserts; ceiling side with a ceiling mounting element, nickel-plated

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension with raised mounting bracket <sup>1)</sup> ; without terminals		
With ceiling mounting elements, mounting bracket, silver	4039806162021	5LM593010

1) for rail suspension via an indirect light insert



### Connection cable

with transparent insulation | with insulated pin terminals on one side

Designation	Order no. OSRAM	Order no. Siteco
3 x 0.75mm <sup>2</sup> ; l = 0.75m	4039806162021	5LF90001L
3 x 0.75mm <sup>2</sup> ; l = 1.4m	4039806198839	5LF90002L
3 x 0.75mm <sup>2</sup> ; l = 1.4m	4039806201935	5LF90005L

— incl. 2 or 4 plug-in terminals, 1-pole, max. 2.5mm<sup>2</sup>

The number of attachment points depends on the weight of the total arrangement (rail system and light modules), the load capacity of the suspension elements and the number of joints. However, the max. permissible distance between two attachment points, the max. length of the freely suspended rail end and the max. permissible distance to the joint may not be exceeded.

- max. permissible length of freely suspended end of rail:  $l_{\max} = 0.5\text{m}$
- max. permissible distance between two attachment points:  $l_{\max} = 2.5\text{m}$
- at least one suspension element is required in the area of the joint:  $l_{\max} = 0.5\text{m}$



# Mira® LED



Mira® is the intelligent luminaire family for economic office and general lighting. The luminaires are available either with LED or with T16 lamps. The design features an all-round aluminum frame with striking contours and precise miter cuts. Optically, the Mira® luminaires utilize specially developed microprism technology that ensures uniform light distribution without reflected or direct glare and standard-compliant lighting conditions for computer workstations (UGR < 19). The high glare reduction enables free arrangement of screens and workstations in the room which allows for high flexibility during planning.

The LED versions of the Mira® family are equipped with OSRAM PrevaLED® LED modules and designed for up to 50,000 operating hours.

Motion and brightness sensors are available as an option.

## Features

- a complete luminaire family of recessed, surface-mounted and pendant luminaires
- energy-efficient and maintenance-free LED technology
- available in standard construction forms and module dimensions
- suitable for computer workstations due to prismatic technology for optimized luminous efficacy
- homogeneous light distribution without direct or reflected glare (UGR < 19)
- flexible interior designs due to independent luminaire arrangements in the room
- timeless design with quality workmanship
- optionally available with sensor technology

## Lighting technology

ELDAICON® microprism technology for optimal restriction of reflected and direct glare | uniform luminance over complete light emission surface | reduced reflected glare directly below the luminaire enables independent arrangement of luminaires in the room, even directly above workstations luminaire supplied with direct distribution; supplementary direct/indirect light distribution can be implemented using removable film during installation; medium or wide light distribution characteristics with flexibly mountable prismatic film

## Electrics

Luminaire wired ready for connection | with 5-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

## Luminaire with motion and light sensor

fully automatic operation, with sensor-controlled ON/OFF/bright/dark possible or manual mode, ON/OFF/bright/dark possible using convenient remote control or external push-button | luminaire operates as “master”, a max. of 32 further luminaires can be switched and dimmed using two DALI outputs.

Detailed information: [www.siteco.com](http://www.siteco.com) (Navigation: products/ indoor luminaires/linear fluorescent luminaires for ceiling surface mounting/Mira® with ELDAICON®/ ...)

## Housing

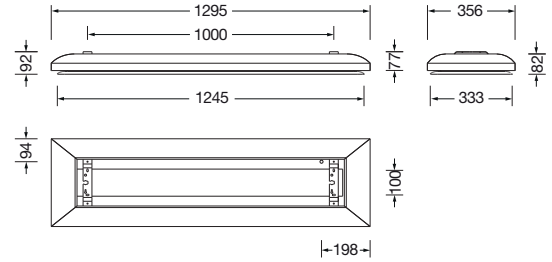
Visible frame of anodized extruded aluminum; top of housing of transparent PMMA, coated with light-impermeable film, easily removable for direct/indirect light distribution; ELDAICON® of PMMA

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

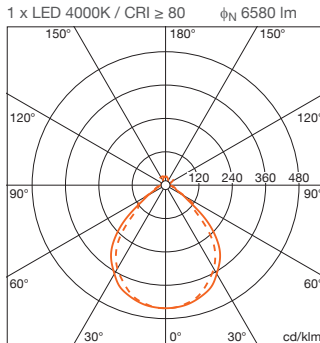
Rapid advances in LED technology lead to permanent improvements in energy efficiency. This means that luminous flux and power consumption can also change. The latest specific values can be found in the photometric report of each product and in the current download files of the lighting planning data.



LED



4050737476841  
5LK218D10S



$\phi_d$  92%     $\phi_r$  8%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2154	2467
L <sub>70</sub>	1713	1965
L <sub>65</sub>	1701	1646

UGR 18.9    18

X 4H    Y 8H     $\rho$  70/50/20    S 0.25H

**Mira® LED with ELDAICON® rectangular**

- Single luminaire for ceiling surface or suspended mounting:
  - with ELDAICON® New Generation, direct distribution with ceiling illumination
  - discreet illumination of housing edge via all-round prismatic edge
  - with ECG DALI

- housing made of extruded aluminum, anodized
- protection rating: IP50
- insulation class: I

• luminaire supplied with direct distribution; supplementary indirect component can be implemented during installation



**Light source**

	K	R <sub>a</sub>	lm	W SYSTEM	LLGS	ECG SYSTEM	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	4360	50	10.0	DALI	4050737471280	5LK218D12S
LED	4000	> 80	6320	75	10.0	DALI	4050737476841	5LK218D10S

— please order suspension separately

**No. of luminaires in room**

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Rh(m)	Lh(m)	Rh(m)	Lh(m)	Rh(m)
20 m <sup>2</sup>	0.4	0.5	0.9	1.0	2.1	2.4
30 m <sup>2</sup>	0.7	0.7	1.3	1.5	3.4	3.7
40 m <sup>2</sup>	0.9	0.9	1.7	1.9	4.3	4.7
50 m <sup>2</sup>	1.0	1.1	2.1	2.3	5.2	5.7
75 m <sup>2</sup>	1.5	1.6	3.1	3.3	7.7	8.2
100 m <sup>2</sup>	2.0	2.1	3.9	4.2	9.8	10
500 m <sup>2</sup>	9.1	9.4	18	19	46	47

Maintenance factor 0.8    Rh = Lh + 0.5 m

**Mandatory accessories (for details see page 2.33 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-wire suspension, with canopy, round, gray	0.2	4050737478647	5LK91105
Y-wire suspension, with canopy, round, white	0.2	4050737478623	5LK91106
Y-wire suspension, with canopy, rectangular, gray	0.2	4050737478548	5LK91117
Y-wire suspension, with canopy, rectangular, white	0.1	4050737478524	5LK91118
Double-wire suspension, with canopy, round, gray	0.1	4050737478708	5LK91107
Double-wire suspension, with canopy, round, white	0.1	4050737478500	5LK91108
Double-wire suspension, with canopy, rectangular, gray	0.1	4050737478685	5LK91115
Double-wire suspension, with canopy, rectangular, white	0.1	4050737478661	5LK91116
Connection cable, 3 x 0.75mm <sup>2</sup> , transparent, l = 2000mm, with terminal	0.1	4039806507693	5LF90003L

# Mira® T16



Mira® is the intelligent luminaire family for economic office and general lighting. The luminaires are available either with LED or with T16 lamps. The design features an all-round aluminum frame with striking contours and precise miter cuts. Optically, the Mira® luminaires utilize specially developed microprism technology that ensures uniform light distribution without reflected or direct glare and standard-compliant lighting conditions for computer workstations (UGR < 19). The high glare reduction enables free arrangement of screens and workstations in the room which allows for high flexibility during planning.

The T16 versions of the Mira® family are equipped with ECG Multiwatt and can be operated with lamps of varying wattages. Tool-free relamping.

Motion and brightness sensors and are optionally available.

## Features

- a complete luminaire family of recessed, surface-mounted and pendant luminaires
- economic operation with T16 fluorescent lamps
- available in standard construction forms and module dimensions
- suitable for computer workstations due to prismatic technology for optimized luminous efficacy
- homogeneous light distribution without direct or reflected glare (UGR < 19)
- flexible interior designs due to independent luminaire arrangements in the room
- timeless design with quality workmanship
- optionally available with sensor technology

## Lighting technology

ELDAICON® microprism technology for optimal restriction of reflected and direct glare | uniform luminance over complete light emission surface | reduced reflected glare directly below the luminaire enables independent arrangement of luminaires in the room, even directly above workstations  
Luminaire supplied with direct distribution; supplementary direct/indirect light distribution can be implemented using removable film during installation; medium or wide light distribution characteristics with flexibly mountable prismatic film

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

## Luminaire with motion and light sensor

Fully automatic operation, with sensor-controlled ON/OFF/bright/dark possible or manual mode, ON/OFF/bright/dark possible using convenient remote control or external push-button | luminaire operates as “master”, a max. of 32 further luminaires can be switched and dimmed using two DALI outputs.

Detailed information: [www.siteco.com](http://www.siteco.com) (Navigation: products/ indoor luminaires/linear fluorescent luminaires for ceiling surface mounting/Mira® with ELDAICON®/ ...)

## Housing

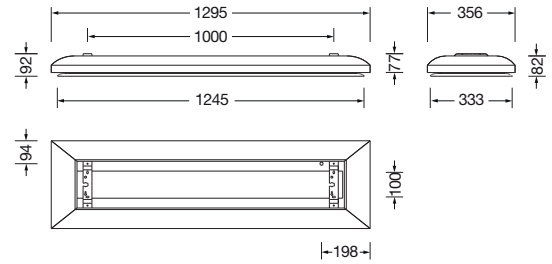
Visible frame of anodized extruded aluminum; top of housing of transparent PMMA, coated with light-impermeable film, easily removable for direct/indirect light distribution; ELDAICON® of PMMA

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**



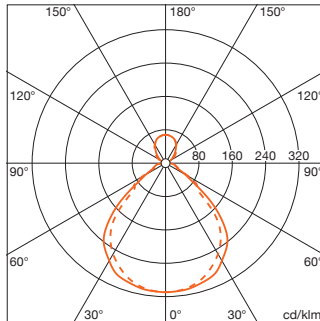


T16  
G5



4050737099774  
5LK21872HS

2 x T16 54W/840  $\phi$  8900 lm



$\eta_{LB}$  83.5%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2311	2531
L <sub>70</sub>	1772	2051
L <sub>65</sub>	1779	1724

UGR 17.7 16.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	2.5	3.0	2.5	3.0	2.5	3.0
30 m <sup>2</sup>	0.4	0.5	0.8	0.9	2.0	2.3
40 m <sup>2</sup>	0.6	0.7	1.3	1.4	3.2	3.6
50 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.0	4.5
75 m <sup>2</sup>	1.0	1.1	2.0	2.1	4.9	5.4
100 m <sup>2</sup>	1.4	1.6	2.9	3.1	7.2	7.8
150 m <sup>2</sup>	1.8	2.0	3.7	4.0	9.2	9.9
500 m <sup>2</sup>	8.5	8.7	17	17	42	44

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Mira® T16 with ELDAICON® rectangular**

Single luminaire for ceiling surface or suspended mounting:  
 - with ELDAICON® New Generation, direct distribution with ceiling illumination  
 - discreet brightening of housing edge via all-round prismatic edge  
 - with ECG Multiwatt

- housing made of extruded aluminum, anodized
- protection rating: IP50
- insulation class: I

• luminaire supplied with direct distribution; supplementary indirect component can be implemented during installation



**Light source**

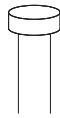
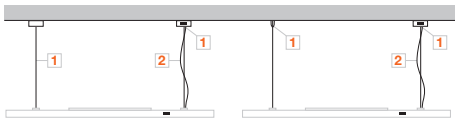
Light source				Order no. OSRAM	Order no. Siteco
1 x T16 28/54 W	G5	8.5	Multi	4050737476827	5LK21871HS
1 x T16 28/54 W	G5	8.5	Multi DALI	4050737525020	5LK218D1HS
2 x TC-LEL 28/54 W	G5	8.6	Multi	4050737099774	5LK21872HS
2 x TC-LEL 28/54 W	G5	8.6	Multi DALI	4050737471297	5LK218D2HS

- please order suspension separately

**Mandatory accessories (for details see page 2.33 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-wire suspension, with canopy, round, gray	0.2	4050737478647	5LK91105
Y-wire suspension, with canopy, round, white	0.2	4050737478623	5LK91106
Y-wire suspension, with canopy, rectangular, gray	0.2	4050737478548	5LK91117
Y-wire suspension, with canopy, rectangular, white	0.1	4050737478524	5LK91118
Double-wire suspension, with canopy, round, gray	0.1	4050737478708	5LK91107
Double-wire suspension, with canopy, round, white	0.1	4050737478500	5LK91108
Double-wire suspension, with canopy, rectangular, gray	0.1	4050737478685	5LK91115
Double-wire suspension, with canopy, rectangular, white	0.1	4050737478661	5LK91116
Connection cable, 3 x 0.75mm <sup>2</sup> , transparent, l = 2000mm, with terminal	0.1	4039806507693	5LF90003L

Mira® LED | ... T16 double-wire suspension/Y-wire suspension



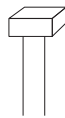
Double-wire suspension  
round canopy, white



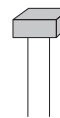
Double-wire suspension  
round canopy, gray

Individual luminaires

1 Suspended without terminal	4050737478500   5LK91108	4050737478708   5LK91107
2 Connection cable, transparent insulation, 0.75mm <sup>2</sup>		
3-core, l = 2.0m	4039806507693   5LF90003L	4039806507693   5LF90003L
5-core, l = 2.0m	4039806507709   5LF90006L	4039806507709   5LF90006L



Double-wire suspension  
rectangular canopy, white



Double-wire suspension  
rectangular canopy, gray

Individual luminaires

1 Suspension without terminal	4050737478661   5LK91116	4050737478685   5LK91115
2 Connection cable, transparent insulation, 0.75mm <sup>2</sup>		
3-core, l = 2.0m	4039806507693   5LF90003L	4039806507693   5LF90003L
5-core, l = 2.0m	4039806507709   5LF90006L	4039806507709   5LF90006L



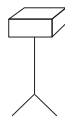
Y-wire suspension  
round canopy, white



Y-wire suspension  
round canopy, gray

Individual luminaires

1 Suspension without terminal	4050737478623   5LK91106	4050737478647   5LK91105
2 Connection cable, transparent insulation, 0.75mm <sup>2</sup>		
3-core, l = 2.0m	4039806507693   5LF90003L	4039806507693   5LF90003L
5-core, l = 2.0m	4039806507709   5LF90006L	4039806507709   5LF90006L



Y-wire suspension  
rectangular canopy, white



Y-wire suspension  
rectangular canopy, gray

Individual luminaires

1 Suspension without terminal	4050737478524   5LK91118	4050737478548   5LK91117
2 Connection cable, transparent insulation, 0.75mm <sup>2</sup>		
3-core, l = 2.0m	4039806507693   5LF90003L	4039806507693   5LF90003L
5-core, l = 2.0m	4039806507709   5LF90006L	4039806507709   5LF90006L

**Mira® LED | ... T16 Mounting accessories**



**Y-wire suspension**

with height adjustment up to 1.2m | wire: D = 1.2mm | incl. ceiling mounting element and round canopy

Designation	Order no. OSRAM	Order no. Siteco
With round canopy, gray	4050737478647	5LK91105
With round canopy, white	4050737478623	5LK91106

— without terminals, without connection cable



**Y-wire suspension**

with height adjustment up to 1.2m | wire: D = 1.2mm | incl. ceiling mounting element and rectangular canopy

Designation	Order no. OSRAM	Order no. Siteco
With rectangular canopy, gray	4050737478548	5LK91117
With rectangular canopy, white	4050737478524	5LK91118

— without terminals, without connection cable



**Ceiling bushing**

for Y-wire suspension | cylindrical ceiling mounting element, nickel-plated | as replacement for canopy of a Y-wire suspension

Designation	Order no. OSRAM	Order no. Siteco
Ceiling bushing	4050737478456	5LK91202

— please order design mast separately



**Double-wire suspension**

with height adjustment up to 1.2m | wire: D = 1.2mm | incl. ceiling mounting element and round canopy

Designation	Order no. OSRAM	Order no. Siteco
With round canopy, gray	4050737478708	5LK91107
With round canopy, white	4050737478500	5LK91108

— without terminals, without connection cable



**Double-wire suspension**

with height adjustment up to 1.2m | wire: D = 1.2mm | incl. ceiling mounting element and rectangular canopy

Designation	Order no. OSRAM	Order no. Siteco
With rectangular canopy, gray	4050737478685	5LK91115
With rectangular canopy, white	4050737478661	5LK91116

— without terminals, without connection cable





### Additional wire

suitable for double-wire suspension | for suspension heights up to max. 2.95m | wire: D = 1.2mm

Designation	length (mm)	Order no. OSRAM	Order no. Siteco
Additional wire	6000	4039806046079	5LP91303S

— without terminals, without connection cable



### Connection cable

with transparent insulation | with insulated pin terminals on one side

Designation	Order no. OSRAM	Order no. Siteco
Cable 3 x 0.75mm <sup>2</sup> ; l = 2m	4039806507693	5LF90003L
Cable 5 x 0.75mm <sup>2</sup> ; l = 2m	4039806507709	5LF90006L

— incl. 2 or 4 plug-in terminals, 1-pole, max. 2.5mm<sup>2</sup>

## Mira® LED | ... T16 accessories for mounting on Quadrature® system rail



### Mounting set

for mounting on Quadrature® system rail | incl. 5 single cores for connection in the rail; incl. plastic cover for electrical connection to the outside of the rail

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting set, gray cover	set of 2	4050737480299	5LK593040S

— set of 2 fastening elements + 1 connection set; 1 set required per luminaire





# ARKTIKA®-P LED



ARKTIKA®-P LED is an ultra-flat pendant luminaire family for glare-free, professional office lighting. Designed specifically for LED, it has an extremely flat construction with a height of < 8mm. This allows the luminaire to blend harmoniously into any environment, from sophisticated to purist surroundings.

Another optical or photometric feature is the high-gloss reflector insert, where small, hexagonal darklight reflectors surround each LED. The result is uniform illumination without hard shadows and minimized glare with a high level of visual comfort (UGR < 19). ARKTIKA®-P LED thus meets the criteria for lighting computer workstations, and the balanced combination of direct and indirect light components provides a pleasant atmosphere.

LED and ECG form a perfectly harmonized system of high-quality OSRAM components to achieve high efficiency and durability. Versions with an integrated DALI interface are available.

## Features

- efficient LED technology with long system service life of up to 40,000 hours
- designed specifically for LED: extremely flat construction with low height of 8 mm
- for aesthetically sophisticated surroundings with an open, transparent spatial effect
- winner of the 2014 iF product design award
- harmonized system with OSRAM components
- suitable for lighting computer workstations
- glare restriction through high-gloss reflective hexagonal darklight reflectors (UGR < 19)
- direct and indirect components for harmonious room atmosphere
- available in two light colors (3000K and 4000K)
- available with ECG and ECG DALI

## Lighting technology

Luminaire direct/indirect distribution, CAT2 ( $L \leq 1500\text{cd/m}^2$ ), UGR < 19 | direct component with hexagonal structure for every LED; micro-grid as darklight reflector, wide distribution; indirect part extremely wide distribution

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | ECG in ceiling canopy | connection cable between ECG and luminaire with transparent insulation; incl. plug connection on ECG

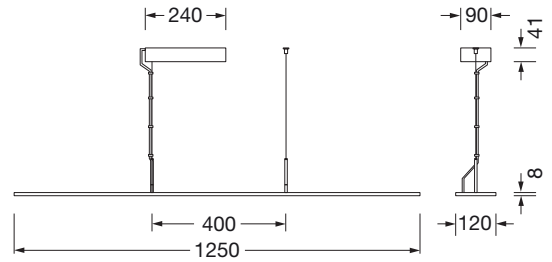
## Housing

Luminaire housing of extruded aluminum, plastic end caps, luminaire and end caps white (RAL 9016); micro-grid of aluminum, underside matt, reflector surface high-gloss silver-coated | incl. wire suspension with height adjustment, with canopy



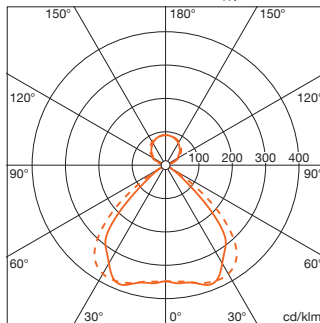


LED



4008321867698  
OMB2512L45840

1 x LED 4000K / CRI ≥ 80  $\phi_N$  3950 lm



$\phi_d$  74%  $\phi_r$  26%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	187	143
L <sub>70</sub>	297	199
L <sub>65</sub>	544	796
UGR	18.4	19.1
X 4H Y 8H $\rho$ 70/50/20 S 0.25H		

**ARKTIKA®-P LED**  
**CAT2 with micro hexagonal structure | direct/indirect distribution**

- Single luminaire for suspended mounting
- with a micro-grid in a hexagonal structure, highly reflective high-gloss, direct/indirect distribution, CAT2 ( $L \leq 1500\text{cd/m}^2$ )
- with ECG
- extruded aluminum housing, white (RAL 9016)
- plastic end caps, white (RAL 9016)
- micro louver, matt or high-gloss silver
- protection rating: IP20
- insulation class: II
- incl. single-wire suspension with height adjustment from 200...1500mm and connection cable with transparent insulation



Light source	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG LLGG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	3830	45	1.8	ECG	4008321867704	OMB2512L45830
LED	3000	> 80	3942	45	1.8	DALI	4052899078741	OMB251DL45830
LED	4000	> 80	3830	45	1.8	ECG	4008321867698	OMB2512L45840
LED	4000	> 80	3942	45	1.8	DALI	4052899078758	OMB251DL45840

for information concerning energy consumption labeling regulation (EU) 874/2012, see page 15.25

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.6	4.1
30 m <sup>2</sup>	1.2	1.3	2.3	2.6	5.9	6.5
40 m <sup>2</sup>	1.5	1.6	3.0	3.3	7.4	8.2
50 m <sup>2</sup>	1.8	2.0	3.6	3.9	8.9	9.8
75 m <sup>2</sup>	2.7	2.9	5.4	5.8	13	14
100 m <sup>2</sup>	3.4	3.7	6.9	7.3	17	18
500 m <sup>2</sup>	16	16	32	33	80	82

Maintenance factor 0.8      Rh = Lh + 0.5 m

## Comfolight® 2



Luminaires in the Comfolight® 2 family feature a timeless, aesthetic design with a wide range of possible applications. The luminaire with direct/indirect light distribution has a range of different lighting technologies at its disposal. Lighting computer workstations in a way to comply with standards can be provided by using the CAT2 specular louvers made of light-output-ratio-optimized aluminum (MIRO®) or the ELDAICON® light control system.

The microprism structures ensure a uniform light distribution with a high, glare-free direct component.

Direct and reflected glare are minimized. Multiwatt technology provides additional flexibility by allowing use of various T16 lamps.

### Features

- flexible luminaire system by using different lamp wattages and different optical inserts
- ELDAICON® microprism technology for UGR < 16 glare rating
- miter cut over convex, anodized extruded aluminum
- maintenance-friendly relamping from below
- with ECG Multiwatt
- one and two-length luminaires
- wire suspension can be adjusted longitudinally with pendant luminaires, installation-friendly click connection via quick-fit mounting brackets with surface-mounted luminaires
- pendant luminaire supplied completely pre-assembled (incl. wire suspension with canopy)

### Lighting technology

Multiwatt technology for interchangeable luminous flux levels within the same luminaire

- with ELDAICON®, indirect/direct distribution CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- specular louver of light-output-ratio-optimized aluminum (MIRO®), high-gloss, direct/indirect distribution CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- specular louver of light-output-ratio-optimized aluminum (MIRO®), direct/indirect distribution CAT2 ( $L \leq 1000\text{cd/m}^2$ )

### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG Multiwatt DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | incl. connecting cable with transparent insulation

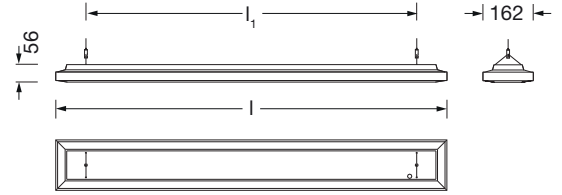
### Housing

Housing of extruded aluminum, anodized | housing and end caps mitered for an all-round, consistent housing contour | cover of PMMA | louver and cover installed without tools and fixed into luminaire housing with catches; they are secured with safety retaining cords and remain earthed for protection even when hinged downwards | incl. Y-wire suspension with height adjustment



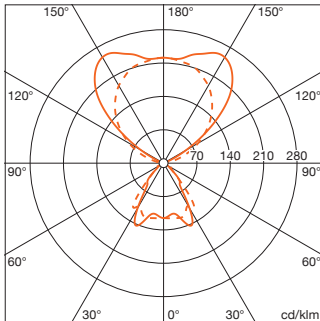


T16  
G5



4039806575579  
5MF43871HS

2 x T16 54W/840  $\phi$  8900 lm



$\eta_{LB}$  86.5%  $\phi_{\downarrow}$  25%  $\phi_{\uparrow}$  75%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	595	395
L <sub>70</sub>	707	528
L <sub>65</sub>	906	896

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.6	0.6	1.1	1.2	2.8	3.1
30 m <sup>2</sup>	0.9	1.0	1.8	2.1	4.5	5.2
40 m <sup>2</sup>	1.1	1.2	2.2	2.4	5.6	6.1
50 m <sup>2</sup>	1.4	1.5	2.7	2.9	6.8	7.4
75 m <sup>2</sup>	2.0	2.2	3.9	4.3	9.8	11
100 m <sup>2</sup>	2.5	2.6	5.0	5.3	13	13
500 m <sup>2</sup>	11	11	22	22	55	56

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Comflight® 2**  
**CAT2 with ELDAICON® | with indirect/direct distribution**

- Single luminaire for suspended mounting
- with ELDAICON®, indirect/direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG Multiwatt
- side housing components and end caps of anodized extruded aluminum
- protection rating: IP20
- insulation class: I
- incl. Y-wire suspension with height adjustment from 500...1200mm and connection cable with transparent insulation



**Light source**



**1 length**

	G5	l [mm]	h [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1 x T16 28/54 W	G5	1254	1060	5.3	Multi	4039806575357	5MF23871HS
1 x T16 28/54 W	G5	1254	1060	5.3	Multi DALI	4039806895707	5MF238D1HS
1x T16 35/49/80 W	G5	1554	1360	6.3	Multi	4039806575364	5MF23871QS
1x T16 35/49/80 W	G5	1554	1360	6.3	Multi DALI	4039806856838	5MF238D1QS

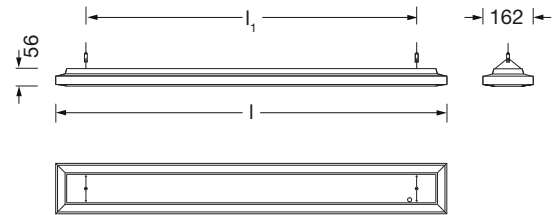
**2 length**

	G5	l [mm]	h [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
2 x 1x T16 28/54 W	G5	2432	2238	9.9	Multi	4039806575579	5MF43871HS
2 x 1x T16 28/54 W	G5	2432	2238	9.9	Multi DALI	4039806809261	5MF438D1HS
2 x 1x T16 35/49 W	G5	3032	2838	11.9	Multi	4039806592811	5MF43871WS
2 x 1x T16 35/49 W	G5	3032	2838	11.9	Multi DALI	4039806856852	5MF438D1WS

we recommend using the removal device (rubber suction pad) to remove the cover, order no. 5LJ48400XJ

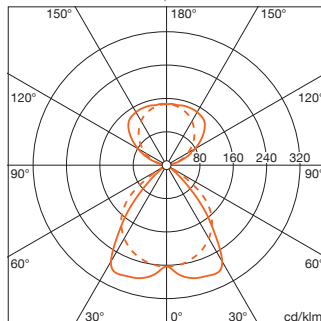


T16  
G5



4039806578464  
5MF23B75WS

2 x T16 49W/840  $\phi$  8600 lm



$\eta_{LB}$  96.7%  $\phi_{\downarrow}$  52%  $\phi_{\uparrow}$  48%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	0	35
L <sub>70</sub>	0	5
L <sub>65</sub>	4	481

UGR 12.9 15.6

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.4	0.5	0.8	0.9	2.1	2.3
30 m <sup>2</sup>	0.6	0.7	1.3	1.4	3.2	3.6
40 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.1	4.5
50 m <sup>2</sup>	1.0	1.1	2.0	2.2	4.9	5.4
75 m <sup>2</sup>	1.4	1.6	2.9	3.1	7.2	7.8
100 m <sup>2</sup>	1.9	2.0	3.7	4.0	9.4	9.9
500 m <sup>2</sup>	8.5	8.8	17	18	43	44

Maintenance factor 0.8

Rh = Lh + 0.5 m

### Comfolight® 2

CAT2 specular louver, highly reflective (MIRO®), high-gloss | direct/indirect distribution

Single luminaire for suspended mounting

- with specular louver, highly reflective (MIRO®) high-gloss, direct/indirect distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )

- with ECG Multiwatt

- side housing components and end caps of anodized extruded aluminum

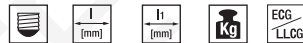
- protection rating: IP20

- insulation class: I

- incl. Y-wire suspension with height adjustment from 500...1200mm and connection cable with transparent insulation



#### Light source



1 length

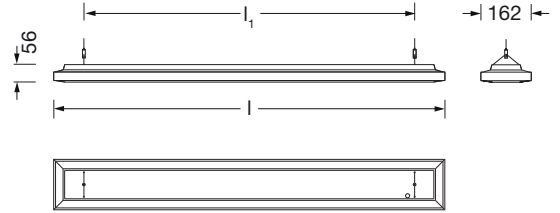
							Order no. OSRAM	Order no. Siteco
1 x T16 28/54 W	G5	1254	1060	3.7	Multi		4039806575371	5MF23B71HS
1 x T16 28/54 W	G5	1254	1060	3.7	Multi DALI		4050737004853	5MF23BD1HS
1 x T16 35/49/80 W	G5	1554	1360	4.3	Multi		4039806575388	5MF23B71QS
1 x T16 35/49/80 W	G5	1554	1360	4.3	Multi DALI		4039806809797	5MF23BD1QS
2 x TC-LEL 28/54 W	G5	1254	1060	4.0	Multi		4039806575401	5MF23B75HS
2 x TC-LEL 35/49 W	G5	1554	1060	4.4	Multi		4039806578464	5MF23B75WS
2 x TC-LEL 35/49 W	G5	1554	1060	4.4	Multi DALI		4039806892263	5MF23BD5WS

2 length

							Order no. OSRAM	Order no. Siteco
2 x 1x T16 28/54 W	G5	2432	2238	6.7	Multi		4039806576712	5MF43B71HS
2 x 1x T16 35/49 W	G5	3032	2838	6.1	Multi		4039806578525	5MF43B71WS
2 x 2 x T16 28/54 W	G5	2432	2238	7.0	Multi		4039806575609	5MF43B75HS
2 x 2 x T16 28/54 W	G5	2432	2238	7.0	Multi DALI		4050737015217	5MF43BD5HS
2 x 2 x T16 35/49 W	G5	3032	2838	8.0	Multi		4039806578549	5MF43B75WS
2 x 2 x T16 35/49 W	G5	3032	2838	8.0	Multi DALI		4039806851291	5MF43BD5WS

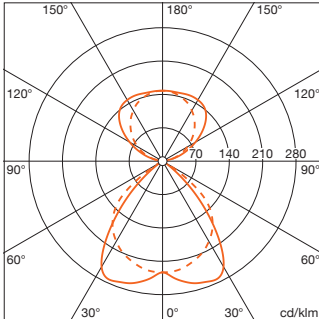


T16  
G5



4039806578440  
5MF23475WS

2 x T16 49W/840  $\phi$  8600 lm



$\eta_{LB}$  95.8%  $\phi_{\downarrow}$  51%  $\phi_{\uparrow}$  49%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3	35
L <sub>70</sub>	221	32
L <sub>65</sub>	385	319

UGR 13.3 15.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.4	0.5	0.8	0.9	2.1	2.3
30 m <sup>2</sup>	0.7	0.7	1.3	1.5	3.3	3.7
40 m <sup>2</sup>	0.8	0.9	1.7	1.8	4.2	4.6
50 m <sup>2</sup>	1.0	1.1	2.0	2.2	5.0	5.5
75 m <sup>2</sup>	1.5	1.6	2.9	3.2	7.3	8.0
100 m <sup>2</sup>	1.9	2.0	3.8	4.0	9.5	10
500 m <sup>2</sup>	8.7	8.9	17	18	43	45

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Comfloght® 2**

**CAT2 specular louver, highly reflective (MIRO®), matt | direct/indirect distribution**

- Single luminaire for suspended mounting
- with specular louver, highly reflective (MIRO®) matt, direct/indirect distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG Multiwatt
- side housing components and end caps of anodized extruded aluminum

- protection rating: IP20
- insulation class: I
- incl. Y-wire suspension with height adjustment from 500...1200mm and connection cable with transparent insulation



**Light source**



1 length

						Order no. OSRAM	Order no. Siteco
1 x T16 28/54 W	G5	1254	1060	3.9	Multi	4039806575319	5MF23471HS
1x T16 35/49/80 W	G5	1554	1360	4.0	Multi	4039806575326	5MF23471QS
2 x TC-LEL 28/54 W	G5	1254	1060	3.5	Multi	4039806575333	5MF23475HS
2 x TC-LEL 35/49 W	G5	1554	1360	4.7	Multi	4039806578440	5MF23475WS

2 length

						Order no. OSRAM	Order no. Siteco
2 x 1x T16 28/54 W	G5	2432	2238	6.5	Multi	4039806575531	5MF43471HS
2 x 1x T16 35/49 W	G5	3032	2838	8.0	Multi	4039806578488	5MF43471WS
2 x 2 x T16 28/54 W	G5	2432	2238	7.0	Multi	4039806575555	5MF43475HS
2 x 2 x T16 35/49 W	G5	3032	2838	8.1	Multi	4039806578501	5MF43475WS



### Comfolight 2® Mounting accessories



#### Luminaire connector

for trunking arrangement of individual luminaires

Designation	Order no. OSRAM	Order no. Siteco
Luminaire connector	4039806578341	5MF90001



#### Removal device

rubber suction pad to remove smooth covers (e.g. with recessed installation)

Designation	Order no. OSRAM	Order no. Siteco
Removal device	4039806175854	5LJ48400XJ

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## Silica®



The luminaires of the Silica® family are characterized by purist, minimalist design. The special construction allows them to be positioned directly above computer workstations and parallel to building axes.

This is achieved by dividing the luminaire body into three parts. The side ends have matt-finished CAT2 specular louver optics for direct and indirect light. The central module consists of an indirect-distribution aluminum reflector for harmonious light distribution in the room.

### Features

- for flexible office layouts, luminaires can be arranged parallel to building axes
- positioning directly above workstations possible due to central module with only indirect light distribution
- combination of spacial and task area lighting
- purist housing design with seamless transition between end and central section
- less mounting points and high energy saving: a Silica® substitutes up to six louver luminaires

### Lighting technology

**End modules:** CAT2 specular louver, matt gloss, direct/indirect distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )

**Central module:** aluminum reflector, matt anodized, indirect wide distribution for uniform ceiling illumination

### Electrics

Luminaire wired ready for connection | with 4-pole connection terminal, max. 2.5mm<sup>2</sup> | two separate circuits for end modules and central module

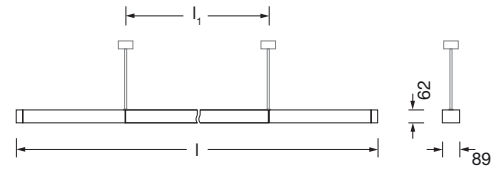
### Housing

Housing of extruded aluminum and diecast zinc end caps, white aluminum (RAL 9006) | the louvers of end caps are mounted without tools and fixed in luminaire housing with catches; these are secured with safety retaining cords and earthed for protection even when hinged downwards



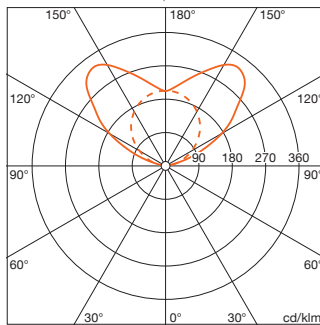
T16  
G5

TC-LEL  
2G11



**Central module**

4039806418920  
5MM12475UX  
1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  88.8%  $\phi_{\downarrow}$  0%  $\phi_{\uparrow}$  100%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	0	0
L <sub>70</sub>	0	0
L <sub>65</sub>	0	0

**Silica<sup>®</sup>, workstation luminaire for flexible office designs with CAT2 specular louver, matt | indirect/direct distribution**

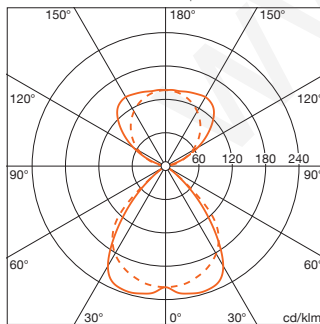
- Single luminaire for suspended mounting, even directly above workstations
- end modules with specular louver, matt-finished, direct/indirect distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- central module with aluminum reflector, matt, indirect distribution
- with ECG
- housing of extruded aluminum, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I



Light source	Light source	Light source	L	I <sub>1</sub>	I <sub>2</sub>	kg	ECG	Order no.	Order no.
End modules	Central module		[mm]	[mm]			LLCG	OSRAM	Siteco
for T16, for T16									
2 x 2 x T16 24 W	G5	1x T16 80 W	G5	2820	1565	6.0	ECG	4039806418944	5MM12476YX
for TC-LEL, for T16									
2 x 1 x TC-LEL 36 W 2G11		2 x T16 54W	G5	2206	1265	5.4	ECG	4039806418968	5MM12477TJ
2 x 1 x TC-LEL 55 W 2G11		1x T16 80 W	G5	2746	1565	7.0	ECG	4039806418920	5MM12475UX

**End modules**

4039806418920  
5MM12475UX  
1 x TC-LEL 55W/840  $\phi$  4800 lm



$\eta_{LB}$  81.9%  $\phi_{\downarrow}$  48%  $\phi_{\uparrow}$  52%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	194	187
L <sub>70</sub>	291	140
L <sub>65</sub>	418	159

UGR 13.2 14  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

- end modules direct/indirect distribution; central module indirect distribution
- please order suspension separately

**Mandatory accessories (for details see page 2.47)**

Designation	Wt. (kg)	Order no.	Order no.
		OSRAM	Siteco
Double-wire suspension, gray	0.3	4039806418531	5LF91302BD
Pendant suspension, silver-gray (RAL 7001)	0.6	4039806418555	5LF91502BD

**Central module**

No. of luminaires in room		Reflection factors 70/50/20					
Em(lx)		100	200	500			
Lh(m)		2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>		1.1	1.3	2.3	2.6	5.7	6.6
30 m <sup>2</sup>		1.7	1.9	3.3	3.7	8.3	9.3
40 m <sup>2</sup>		2.0	2.2	4.0	4.4	9.9	11
50 m <sup>2</sup>		2.4	2.6	4.8	5.3	12	13
75 m <sup>2</sup>		3.4	3.7	6.8	7.3	17	18
100 m <sup>2</sup>		4.3	4.6	8.6	9.2	21	23
500 m <sup>2</sup>		18	19	36	37	90	93

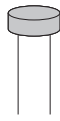
Maintenance factor 0.8 Rh = Lh + 0.5 m

**End modules**

No. of luminaires in room		Reflection factors 70/50/20					
Em(lx)		100	200	500			
Lh(m)		2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>		0.9	1.0	1.8	2.0	4.5	4.9
30 m <sup>2</sup>		1.4	1.6	2.8	3.1	7.0	7.8
40 m <sup>2</sup>		1.8	1.9	3.5	3.9	8.8	9.7
50 m <sup>2</sup>		2.2	2.3	4.3	4.7	11	12
75 m <sup>2</sup>		3.1	3.4	6.3	6.8	16	17
100 m <sup>2</sup>		4.1	4.3	8.1	8.6	20	22
500 m <sup>2</sup>		18	19	37	38	92	95

Maintenance factor 0.8 Rh = Lh + 0.5 m

### Silica® wire and suspension accessories



**Double-wire suspension  
round canopy, gray**



**Pendant suspension  
round canopy, gray  
(incl. cable 6 x 0.5mm<sup>2</sup>)**

#### Single luminaire

1 Suspension (set of 2)	4039806418531   5LF91302BD	4039806418555   5LF91502BD
-------------------------	----------------------------	----------------------------

### Silica® Mounting accessories



#### Double-wire suspension

with height adjustment 400...600mm | incl. ceiling mounting element and canopy wire:  
D = 1.2mm

Designation	Order no. OSRAM	Order no. Siteco
With canopy, gray	4039806418531	5LF91302BD

- set for suspending one luminaire
- please make connection cable of suitable length available on site



#### Pendant suspension

incl. ceiling mounting element and canopy, gray; pendant, white aluminum, D = 10mm  
suspension height: 400mm | with thread at luminaire end for height adjustment

Designation	Order no. OSRAM	Order no. Siteco
With canopy, gray	4039806418555	5LF91502BD

- with 6 terminals, 1-pole, max. 2.5mm<sup>2</sup> and cable 6x0.5mm<sup>2</sup>, white aluminum
- set for suspending one luminaire





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## Siteco® Louvre Luminaire M



Louvre luminaires in the classic design of the Siteco® Louvre Luminaire M family are available as pendant, surface-mounted or recessed luminaires. The housing dimensions and louver optics are designed in a way that the efficient T16 lamps fitted can attain optimal light output ratios.

The light distribution from the direct component is controlled by a CAT2 specular louver made of light-output-ratio-optimized aluminum (MIRO®). The removable end caps make it possible to create trunking arrangements with optically seamless louvers.

### Features

- consistent design solution due to clear lines
- classic lighting technology for T16 fluorescent lamps with good price-performance ratio
- standard-compliant room lighting with louver optics
- homogeneous, standard-compliant wall and panel lighting with wallwasher
- continuous row luminaire for optically seamless lighting technology

### Lighting technology

Specular louver of light-output-ratio-optimized aluminum (MIRO®), high-gloss, direct/indirect distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )

### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

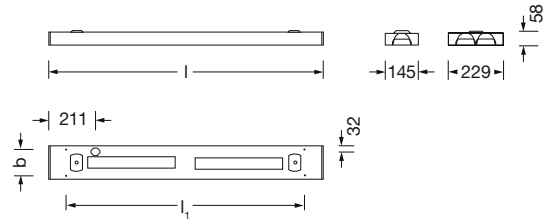
### Housing

Housing of sheet steel with mounted plastic end caps, housing and end cap pure white (similar to RAL 9010) | end caps can be removed for continuous row configurations | the louver is mounted without tools and fixed in housing with catches; it is secured with safety retaining cords and earthed for protection even when hinged downwards

For variants of this luminaire with wallwasher reflectors, see **chapter 3**

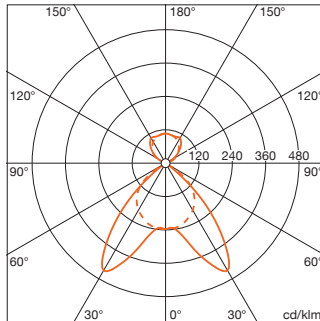


T16  
G5



4039806580528  
5LF53B71QW

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  95.7%  $\phi_d$  70%  $\phi_r$  30%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	10
L <sub>70</sub>	1	0
L <sub>65</sub>	14	170

UGR 14.4 14.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	Em(lx)	100	200	500	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.0	1.9	2.1	4.7	5.1
30 m <sup>2</sup>	1.5	1.8	3.1	3.6	7.6	8.9
40 m <sup>2</sup>	1.9	2.1	3.9	4.3	9.6	11
50 m <sup>2</sup>	2.3	2.6	4.6	5.1	12	13
75 m <sup>2</sup>	3.4	3.9	6.9	7.7	17	19
100 m <sup>2</sup>	4.4	4.7	8.8	9.5	22	24
500 m <sup>2</sup>	21	21	41	43	103	106

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Siteco® Louvre Luminaire M with CAT2 specular louver, highly reflective (MIRO®), high-gloss direct/indirect distribution**

Luminaire for single or continuous row mounting; for suspended mounting  
 - with specular louver, high-gloss, direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )  
 - with ECG  
 - housing of sheet steel, pure white (similar to RAL 9010)

- plastic end caps, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- including installed end caps



**Light source**

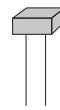
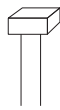
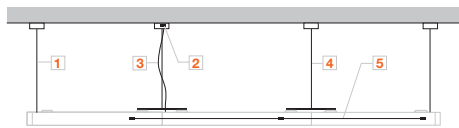
		$l$ [mm]	$h$ [mm]	$b$ [mm]			Order no. OSRAM	Order no. Siteco
1 x T16 28/54 W	G5	1208	1040	115	2.7	Multi	4039806580504	5LF53B71HW
1 x T16 28/54 W	G5	1208	1040	115	2.7	Multi DALI	4050737007366	5LF53BD1HW
1 x T16 28/54 W	G5	1208	1040	115	2.7	Multi 1...10V	4050737007144	5LF53B61HW
1x T16 35/49/80 W	G5	1508	1340	115	3.1	Multi	4039806580528	5LF53B71QW
1x T16 35/49/80 W	G5	1508	1340	115	3.1	Multi DALI	4039806999085	5LF53BD1QW
1x T16 35/49/80 W	G5	1508	1340	115	3.1	Multi 1...10V	4050737007205	5LF53B61QW
2 x TC-LEL 28/54 W	G5	1208	1040	138	3.4	Multi	4039806580542	5LF53B72HW
2 x TC-LEL 28/54 W	G5	1208	1040	138	3.4	Multi DALI	4050737007427	5LF53BD2HW
2 x TC-LEL 28/54 W	G5	1208	1040	138	3.4	Multi 1...10V	4050737007267	5LF53B62HW
2 x TC-LEL 35/49 W	G5	1508	1340	138	4.1	Multi	4039806591463	5LF53B72WW
2 x TC-LEL 35/49 W	G5	1508	1340	138	4.1	Multi DALI	4050737007472	5LF53BD2WW
2 x TC-LEL 35/49 W	G5	1508	1340	138	4.1	Multi 1...10V	4050737007328	5LF53B62WW

- luminaire with fitted end caps (length = l), please remove end caps for continuous row arrangement (housing length without end caps:  $l_1 = l - 2 \times 15\text{mm}$ )
- please order suspension separately

**Mandatory accessories (for details see page 2.51 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Double-wire suspension, with canopy, white, for housing width = 145mm	0.2	4039806119421	5LF91301
Double-wire suspension, with canopy, white, with terminal, for housing width = 145mm	0.2	4039806119445	5LF91311
Continuous row central suspension, with canopy, white, for housing width = 145mm	0.3	4039806137470	5LF91305B
Double-wire suspension, with canopy, white, for housing width = 229mm	0.2	4039806101051	5LF91401
Double-wire suspension, with canopy, white, with terminal, for housing width = 229mm	0.2	4039806101099	5LF91411
Continuous row central suspension, with canopy, white, for housing width = 229mm	0.4	4039806137494	5LF91306B
Connection cable, 3 x 0.75mm <sup>2</sup> , transparent, l = 750mm, with terminal	0.1	4039806139948	5LF90001L
Connection cable, 3 x 0.75mm <sup>2</sup> , transparent, l = 1400mm, with terminal	0.1	4039806198839	5LF90002L
Connection cable, 5 x 0.75mm <sup>2</sup> , transparent, l = 1400mm, with terminal	0.1	4039806201935	5LF90005L

**Siteco® Louvre Luminaire M suspensions**



**Double-wire suspension  
rectangular canopy, white**

**Double-wire suspension  
rectangular canopy, gray**

**Housing width 145mm, 1 lamp**

**Individual luminaires**

<b>1</b> Suspension without terminal	4039806119421   5LF91301	4039806113535   5LF91301A
<b>2</b> Suspension with terminal	4039806119445   5LF91311	4039806113559   5LF91311A
<b>3</b> Connection cable, transparent insulation, 0.75mm <sup>2</sup>		
3-core, l = 0.75m	4039806139948   5LF90001L	4039806139948   5LF90001L
3-core, l = 1.4m	4039806198839   5LF90002L	4039806198839   5LF90002L
5-core, l = 1.4m	4039806201935   5LF90005L	4039806201935   5LF90005L

**Continuous row arrangement**

<b>1</b> Suspension without terminal	4039806119421   5LF91301	4039806113535   5LF91301A
<b>2</b> Suspension with terminal	4039806119445   5LF91311	4039806113559   5LF91311A
<b>4</b> Trunking central suspension without terminal	4039806137470   5LF91305B <sup>1)</sup>	4039806137517   5LF91305BA <sup>1)</sup>
<b>5</b> Through-wiring set, 1.5mm <sup>2</sup>		
3-core (28/54W)	4039806167583   5LY9115	4039806167583   5LY9115
5-core (28/54W)	4039806167637   5LY9117	4039806167637   5LY9117
3-core (35/49/80W)	4039806167606   5LY9116	4039806167606   5LY9116
5-core (35/49/80W)	4039806167651   5LY9118	4039806167651   5LY9118
<b>3</b> Connection cable, transparent insulation, 0.75mm <sup>2</sup>		
3-core, l = 0.75m	4039806139948   5LF90001L	4039806139948   5LF90001L
3-core, l = 1.4m	4039806198839   5LF90002L	4039806198839   5LF90002L
5-core, l = 1.4m	4039806201935   5LF90005L	4039806201935   5LF90005L

- for 5-pole luminaire connection (or for 5-pole cable routing) a 2-pole additional terminal is required per luminaire

**Housing width 229mm, 2 lamps**

**Individual luminaires**

<b>1</b> Suspension without terminal	4039806101051   5LF91401	4039806108036   5LF91401A
<b>2</b> Suspension with terminal	4039806101099   5LF91411	4039806108050   5LF91411A
<b>3</b> Connection cable, transparent insulation, 0.75mm <sup>2</sup>		
3-core, l = 0.75m	4039806139948   5LF90001L	4039806139948   5LF90001L
3-core, l = 1.4m	4039806198839   5LF90002L	4039806198839   5LF90002L
5-core, l = 1.4m	4039806201935   5LF90005L	4039806201935   5LF90005L

**Continuous row arrangement**

<b>1</b> Suspension without terminal	4039806101051   5LF91401	4039806108036   5LF91401A
<b>2</b> Suspension with terminal	4039806101099   5LF91411	4039806108050   5LF91411A
<b>4</b> Trunking central suspension without terminal	4039806137494   5LF91306B <sup>1)</sup>	4039806137531   5LF91306BA <sup>1)</sup>
<b>5</b> Through-wiring set, 1.5mm <sup>2</sup>		
3-core (28/54W)	4039806167583   5LY9115	4039806167583   5LY9115
5-core (28/54W)	4039806167637   5LY9117	4039806167637   5LY9117
3-core (35/49/80W)	4039806167606   5LY9116	4039806167606   5LY9116
5-core (35/49/80W)	4039806167651   5LY9118	4039806167651   5LY9118
<b>3</b> Connection cable, transparent insulation, 0.75mm <sup>2</sup>		
3-core, l = 0.75m	4039806139948   5LF90001L	4039806139948   5LF90001L
3-core, l = 1.4m	4039806198839   5LF90002L	4039806198839   5LF90002L
5-core, l = 1.4m	4039806201935   5LF90005L	4039806201935   5LF90005L

1) central suspension incl. double-wire suspension  
- for 5-pole luminaire connection (or for 5-pole cable routing) a 2-pole additional terminal is required per luminaire



**Siteco® Louvre Luminaire M Electrical accessories**



**Through-wiring set**

for through-wiring from the terminal of a luminaire to the terminal of the neighboring luminaire

Designation	Order no. OSRAM	Order no. Siteco
For 28W and 54W		
3 x 1.5mm <sup>2</sup>	4039806167583	5LY9115
5 x 1.5mm <sup>2</sup>	4039806167637	5LY9117
For 35W/49W and 80W		
3 x 1.5mm <sup>2</sup>	4039806167606	5LY9116
5 x 1.5mm <sup>2</sup>	4039806167651	5LY9118

— for 5-pole through-wiring, please also order one additional 2-pole terminal (L2, L3) per luminaire



**Supplementary terminals**

for installation in luminaire

Designation	Order no. OSRAM	Order no. Siteco
2 x max. 2.5mm <sup>2</sup> (L2, L3)	4039806271976	5LJ80002XK

— for 5-pole luminaire connection (or for 5-pole through-wiring) 1 is required per luminaire

**Siteco® Louvre Luminaire M Mounting accessories**



**Double-wire suspension**

with height adjustment up to 1.2m steel wire: D = 1.2mm incl. ceiling mounting element, rectangular canopy and mounting bracket on luminaire side (trunking central suspension incl. double-wire suspension)

Designation	Order no. OSRAM	Order no. Siteco
For 1-lamp luminaires with canopy, gray		
Without terminals	4039806113535	5LF91301A
With terminals <sup>1)</sup>	4039806113559	5LF91311A
Trunking central suspension <sup>2)</sup> (incl. double-wire suspension)	4039806137517	5LF91305BA
For 1-lamp luminaires with canopy, white		
Without terminals	4039806119421	5LF91301
With terminals <sup>1)</sup>	4039806119445	5LF91311
Trunking central suspension <sup>2)</sup> (incl. double-wire suspension)	4039806137470	5LF91305B
For 2-lamp luminaires with canopy, gray		
Without terminals	4039806108036	5LF91401A
With terminals <sup>1)</sup>	4039806108050	5LF91411A
Trunking central suspension <sup>2)</sup> (incl. double-wire suspension)	4039806137531	5LF91306BA
For 2-lamp luminaires with canopy, white		
Without terminals	4039806101051	5LF91401
With terminals <sup>1)</sup>	4039806101099	5LF91411
Trunking central suspension <sup>2)</sup> (incl. double-wire suspension)	4039806137494	5LF91306B

1) with 5 plug-in terminals, 1-pole, max. 2.5mm<sup>2</sup> (without connection cable)

2) for central suspension via the luminaire joint



### Supplementary wire

suitable for double-wire suspension | for suspension height to max. 2.95m | steel wire: D = 1.2mm

Designation	Order no. OSRAM	Order no. Siteco
Supplementary wire	4039806046079	5LP91303S

— 1 x required per suspension point



### Connection cable

with transparent insulation | with insulated pin terminals on one side

Designation	Order no. OSRAM	Order no. Siteco
3 x 0.75mm <sup>2</sup> ; l = 0.75m	4039806139948	5LF90001L
3 x 0.75mm <sup>2</sup> ; l = 1.4m	4039806198839	5LF90002L
5 x 0.75mm <sup>2</sup> ; l = 1.4m	4039806201935	5LF90005L

— incl. 2 or 4 plug-in terminals

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SQUARE 3



**Luminaire families with ELDAICON® or HDP®**



Quadrature® 2 LED  
ELDAICON®  
Page 3.5



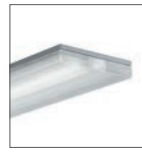
Quadrature® 2  
ELDAICON®  
Page 3.7



Mira® LED  
ELDAICON®  
Page 3.11



Mira® T16  
ELDAICON®  
Page 3.15



Novaluna®  
ELDAICON®  
Page 3.19



Novaluna®  
HDP®  
Page 3.19

**Luminaire families with various lighting technologies**



TECARIO®  
frosted  
Page 3.27



TECARIO®  
HDP®  
Page 3.27

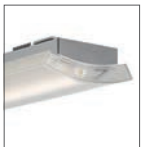


TECARIO®  
CAT louvers  
Page 3.27

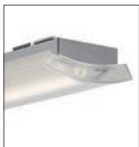


Comfolight® 2  
CAT louvers  
Page 3.43

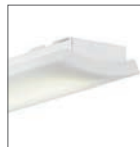
**Luminaire families with prismatic or diffuser optics**



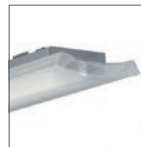
Silhouette® LED  
HDP®  
Page 3.47



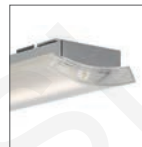
Silhouette® LED  
frosted  
Page 3.47



Silhouette® LED  
opal  
Page 3.47



Silhouette®  
HDP®  
Page 3.51



Silhouette®  
frosted  
Page 3.51



Silhouette®  
opal  
Page 3.51

**Luminaire families with louver optics**



Siteco® Louvre  
Luminaire M T16  
CAT louvers  
Page 3.61



Siteco® Louvre  
Luminaire M T16  
ribbed aluminum  
louver  
Page 3.61



Siteco® Louvre  
Luminaire T26  
CAT louvers  
Page 3.65



Siteco® Louvre  
Luminaire T26  
ribbed aluminum  
louver  
Page 3.65

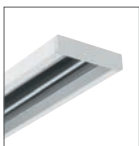


Siteco® Louvre  
Luminaire T26  
white louver  
Page 3.65

**Luminaire families with wallwasher reflector**








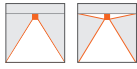



Siteco® Louvre  
Luminaire M LED  
Page 3.77




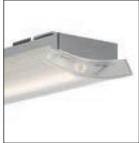





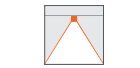
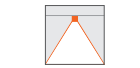

Siteco® Louvre  
Luminaire M  
Page 3.79





							
		Quadrature <sup>®</sup> 2 LED	Quadrature <sup>®</sup> 2	Mira <sup>®</sup> LED	Mira <sup>®</sup>	Novaluna <sup>®</sup>	TECARIO <sup>®</sup>
<b>Light source</b>	LED	■		■			
	T16		■		■	■	■
	T26						
<b>Lighting technology</b>	ELDACON <sup>®</sup>	■	■	■	■	■	
	HDP <sup>®</sup>					■	■
	frosted diffuser						■
	opal diffuser						
	louver optics						■
	wallwasher						
<b>UGR rating</b>	≤ 16		■		■	■*	
	≤ 19	■		■	■	■**	■**/**
	≤ 22						■**/**
	≤ 25						■**/**
<b>Suitable for VDU use (CAT)</b> depending on version		■	■	■	■	■	■/-****
<b>Light distribution</b>							
<b>Configuration</b>	single	■	■	■	■	■	■
	row	■	■			■	■ <sup>D</sup>

\* with ELDACON<sup>®</sup>  
 \*\* with HDP<sup>®</sup>  
 \*\*\* with specular louver  
 \*\*\*\* with frosted diffuser  
 \*\*\*\*\* with opal diffuser  
 D row configuration with optically continuous lighting technology (louver, reflector, cover)

						
Comfolight® 2	Silhouette® LED	Silhouette®	Siteco® Louvre Luminaire M	Siteco® Louvre Luminaire	Siteco® Louvre Luminaire M LED	Siteco® Louvre Luminaire M
	■				■	
■		■	■			■
				■		
	■	■				
	■	■				
	■	■				
■			■	■		
					■	■
	■**	■**	■	■		
	■**/****	■**	■	■		
■	■*****	■****	■	■		
	■*****	■*****				
■	■	■/_*****	■	■		
						
■	■	■	■	■	■	■
	■ <sup>D</sup>	■ <sup>D</sup>	■ <sup>D</sup>	■	■ <sup>D</sup>	■ <sup>D</sup>



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## Quadrature<sup>®</sup> 2 LED



The Quadrature<sup>®</sup> 2 LED family is characterized by a very slimline construction, a purist design, and state-of-the-art lighting technology. The luminaires are equipped with the patented ELDAICON<sup>®</sup> light control system. This creates homogeneous, glare-free light distribution on the working plane.

The balanced contrast creates a pleasant atmosphere and lighting that complies with standards for computer workstations.

This allows for an office layout independent of the arrangement of luminaires, enabling a high level of flexibility for interior design.

### Features

- compact, flat housing formed from a single aluminum profile
- a complete luminaire family of recessed, surface-mounted, rail and suspended variations
- extremely flat CAT luminaire, made possible through the use of transparent ELDAICON<sup>®</sup> microprismatic technology
- reduced reflected glare even directly below the luminaire
- flexibility for interior design with an independent luminaire arrangement within the room, even directly above workstations
- glare rating UGR < 19
- good cylindrical illuminance levels

### Lighting technology

ELDAICON<sup>®</sup> microprismatic technology for optimal restriction of reflected and direct glare | uniform luminance over complete light emission surface | reduced reflected glare directly below the luminaire, enabling independent luminaire arrangements in the room, even directly above workstations  
Direct light distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ ) | glare rating UGR < 19

### Electrics

Luminaire wired ready for connection | with 5-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

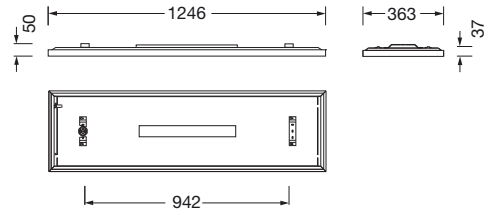
### Housing

Visible frame made of anodized extruded aluminum profile, brushed vertical sides, highly specular underside; upper housing part made of sheet steel, white aluminum (RAL 9006) ELDAICON<sup>®</sup> of PMMA



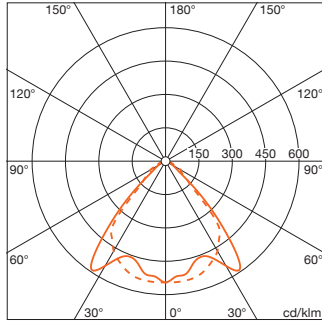


LED



4050737463483  
5MQ218DL3P

1 x LED 3000K / CRI ≥ 80  $\phi_N$  4285 lm



$\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1337	698
L <sub>70</sub>	1467	853
L <sub>65</sub>	1050	1491

UGR 16.6 15.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.5	0.6	1.1	1.3	2.7	3.2
30 m <sup>2</sup>	1.0	1.1	1.9	2.1	4.9	5.3
40 m <sup>2</sup>	1.2	1.3	2.4	2.6	5.9	6.6
50 m <sup>2</sup>	1.4	1.6	2.9	3.1	7.2	7.9
75 m <sup>2</sup>	2.3	2.4	4.5	4.7	11	12
100 m <sup>2</sup>	2.8	3.0	5.5	5.9	14	15
500 m <sup>2</sup>	13	14	27	27	66	68

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Quadrature® 2 LED**  
**CAT2 with ELDAICON® | direct distribution**

- Single luminaire for mounting close to ceiling
- with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG
- visible frame of anodized extruded aluminum profile, brushed vertical sides, highly specular underside
- upper housing part of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I

• recommended installation method: mounting close to ceiling (a = 12mm)



Light source

K	R <sub>a</sub>	lm	W SYSTEM	19	ECG CCG
---	----------------	----	----------	----	---------

Order no.  
OSRAM

Order no.  
Siteco

LED	3000	> 80	4300	78	10.3	DALI	4050737463483	5MQ218DL3P
LED	4000	> 80	4600	74	10.3	DALI	4050737462936	5MQ218DL4P

— please order ceiling mounting separately

**Mandatory accessories (for details, see page 3.10)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ceiling installation set, 12mm suspension height	1 set = 2 pieces	0.1	4050737511375	5MQ90101

## Quadrature<sup>®</sup> 2



The Quadrature<sup>®</sup> 2 family is characterized by a very slimline construction, a purist design, and state-of-the-art lighting technology. The luminaires are equipped with the patented ELDAICON<sup>®</sup> light control system. This creates homogeneous, glare-free light distribution on the working plane. The balanced contrast creates a pleasant atmosphere and lighting that complies with standards for computer workstations.

This allows for an office layout independent of the arrangement of luminaires, enabling a high level of flexibility for interior design.

### Features

- compact, flat housing formed from a single aluminum profile
- a complete luminaire family of recessed, surface-mounted, rail and suspended variations
- extremely flat CAT luminaire, made possible with the use of transparent ELDAICON<sup>®</sup> microprismatic technology
- reduced reflected glare even directly below the luminaire
- flexibility for interior design with an independent luminaire arrangement within the room, even directly above workstations
- glare rating UGR < 16
- good cylindrical illuminance levels

### Lighting technology

ELDAICON<sup>®</sup> microprismatic technology for optimal restriction of reflected and direct glare | uniform luminance over complete light emission surface without a direct view of the light source | reduced reflected glare directly below the luminaire, enabling independent luminaire arrangements in the room, even directly above workstations  
direct light distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )  
direct light distribution with approx. 10% ceiling illumination, CAT2 ( $L \leq 1000\text{cd/m}^2$ )  
Glare rating UGR < 16 | very high luminaire light output ratio  $\geq 70\%$

### Electrics

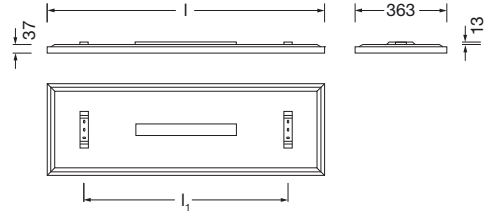
Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5 mm<sup>2</sup>

### Housing

Visible frame made of anodized extruded aluminum profile, brushed vertical sides, highly specular underside; upper housing part made of sheet steel, white aluminum (RAL 9006); ELDAICON<sup>®</sup> of PMMA

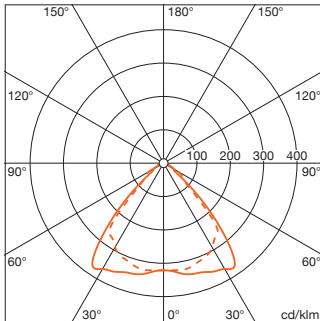


T16  
G5



4050737024196  
5MQ218D2R

2 x T16 35W/840  $\phi$  6600 lm



$\eta_{LB}$  69.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	905	694
L <sub>70</sub>	843	829
L <sub>65</sub>	931	1000

UGR 15.7 15  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	2.5	3.0	2.5	3.0
Em(lx)	100	200	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.5	0.6	1.1	1.2	2.7	3.1
30 m <sup>2</sup>	0.8	1.0	1.7	1.9	4.2	4.8
40 m <sup>2</sup>	1.1	1.2	2.2	2.4	5.5	6.1
50 m <sup>2</sup>	1.3	1.4	2.7	2.9	6.6	7.2
75 m <sup>2</sup>	2.0	2.2	4.0	4.3	9.9	11
100 m <sup>2</sup>	2.6	2.7	5.2	5.5	13	14
500 m <sup>2</sup>	12	13	25	25	61	63

Maintenance factor 0.8

Rh = Lh

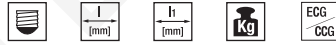
**Quadrature® 2**  
**CAT2 with ELDAICON® | for T16 lamps | direct distribution**

- Single luminaire for mounting close to ceiling
  - with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
  - with ECG
  - visible frame of anodized extruded aluminum profile, brushed vertical sides, highly specular underside
- upper housing part of sheet steel, white aluminum (RAL 9006)
  - protection rating: IP20
  - insulation class: I

• recommended installation method: mounting close to ceiling ( $a = 12 \text{mm}$ )



Light source



Light source	G5	l [mm]	h [mm]	ECG	CCG	Order no. OSRAM	Order no. Siteco
2x T16 21 W	G5	946	580	7.9	ECG	4050737024097	5MQ21872N
2x T16 21 W	G5	946	580	7.9	DALI	4050737024141	5MQ218D2N
2x T16 28 W	G5	1246	880	11.4	ECG	4050737024103	5MQ21872P
2x T16 28 W	G5	1246	880	11.4	DALI	4050737024165	5MQ218D2P
2x T16 35 W	G5	1546	1180	12.4	ECG	4050737024127	5MQ21872R
2x T16 35 W	G5	1546	1180	12.4	DALI	4050737024196	5MQ218D2R

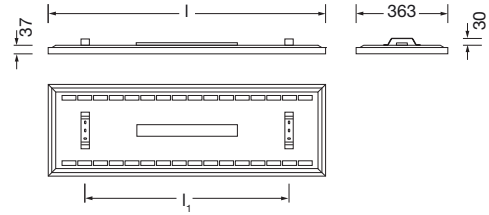
— please order ceiling mounting separately

**Mandatory accessories (for details, see page 3.10)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ceiling installation set, 12mm suspension height	1 set = 2 pieces	0.2	4039806159229	5LM59201

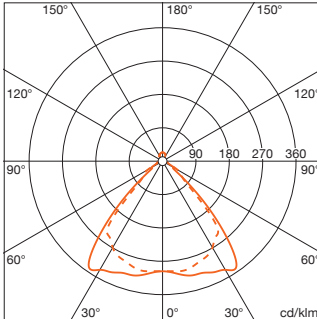


T16  
G5



4050737024387  
5MQ24872P

2 x T16 28W/840  $\phi$  5200 lm



$\eta_{LB}$  69.6%  $\phi_{\downarrow}$  93%  $\phi_{\uparrow}$  7%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	857	657
L <sub>70</sub>	840	820
L <sub>65</sub>	918	991

UGR 15.5 14.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.6	4.1
30 m <sup>2</sup>	1.1	1.3	2.3	2.6	5.7	6.5
40 m <sup>2</sup>	1.5	1.6	3.0	3.3	7.4	8.2
50 m <sup>2</sup>	1.8	1.9	3.6	3.9	8.9	9.7
75 m <sup>2</sup>	2.7	2.9	5.3	5.8	13	14
100 m <sup>2</sup>	3.4	3.7	6.9	7.3	17	18
500 m <sup>2</sup>	16	17	33	33	81	83

Maintenance factor 0.8 Rh = Lh + 0.5 m

### Quadrature® 2

### CAT2 with ELDAICON® | for T16 lamps | direct distribution with ceiling illumination

- Single luminaire for mounting close to ceiling
- with ELDAICON®, direct distribution with ceiling illumination, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG
- visible frame of anodized extruded aluminum profile, brushed vertical sides, highly specular underside
- upper housing part of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I

- recommended installation method: mounting close to ceiling (a = 30mm)



#### Light source



	Light source	G5	L [mm]	h [mm]	ECG/CCG	Order no. OSRAM	Order no. Siteco
2x T16 21 W	G5	946	580	7.8	ECG	4050737024370	5MQ24872N
2x T16 21 W	G5	946	580	7.8	DALI	4050737024424	5MQ248D2N
2x T16 28 W	G5	1246	880	9.9	ECG	4050737024387	5MQ24872P
2x T16 28 W	G5	1246	880	9.9	DALI	4050737024455	5MQ248D2P
2x T16 35 W	G5	1546	1180	12.1	ECG	4050737024400	5MQ24872R
2x T16 35 W	G5	1546	1180	12.1	DALI	4050737024462	5MQ248D2R

- please order ceiling mounting separately

### Mandatory accessories (for details, see page 3.10)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ceiling installation set, 30mm suspension height	1 set = 2 pieces	0.2	4039806159243	5LM59202



## Quadrature® 2 mounting accessories



### Ceiling mounting

Galvanized steel  
 for direct-distribution luminaires; ceiling distance: a = 12mm  
 for luminaires with ceiling illumination; ceiling distance: a = 30mm

Designation	Ceiling distance	PU	Order no. OSRAM	Order no. Siteco
For Quadrature® 2 LED	a = 12mm	1 set = 2 pieces	4050737511375	5MQ90101
For Quadrature® 2	a = 12mm	1 set = 2 pieces	4039806159229	5LM59201
For Quadrature® 2	a = 30mm	1 set = 2 pieces	4039806159243	5LM59202

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For accessories for suspended installation of this product family, see **chapter 2**

## Mira<sup>®</sup> LED



Mira<sup>®</sup> is the intelligently designed luminaire family for economic office and general illumination. The luminaires are available as LED and as T16 versions. Their design features an all-round aluminum frame with precise miter cuts. Optically, the Mira<sup>®</sup> luminaires utilize specially developed microprismatic technology that ensures uniform light distribution without reflected or direct glare and standard-compliant lighting conditions for computer workstations (UGR < 19). The high glare reduction enables free arrangements of screens and workstations in the room which allows for high flexibility during planning.

The LED versions of the Mira<sup>®</sup> family are equipped with OSRAM PrevaLED<sup>®</sup> LED modules and designed for up to 50,000 operating hours.

Motion and brightness sensors are available as an option.



### Features

- a complete luminaire family of recessed, surface-mounted, and suspended versions
- energy-efficient and maintenance-free LED technology
- available in standard construction forms and module dimensions
- suitable for computer workstations due to prismatic technology for optimized luminous efficacy
- homogeneous light distribution without direct or reflected glare (UGR < 19)
- flexible interior design due to independent luminaire arrangements in the room
- timeless design with quality workmanship
- sensor technology available as an option

### Lighting technology

ELDAICON® microprismatic technology for optimal restriction of reflected and direct glare | uniform luminance over complete light emission surface | reduced reflected glare directly below the luminaire, enabling independent luminaire arrangements in the room, even directly above workstations luminaire with direct distribution upon delivery; medium or wide light distribution via flexibly mountable prismatic film, direct/indirect light distribution is possible during installation process via removable film

### Electrics

Luminaire wired ready for connection | with 5-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

### Luminaire with motion and light sensor

Fully automatic operation, with sensor-controlled ON/OFF/bright/dark or manual operation ON/OFF/bright/dark via convenient remote control or external push-button | luminaire operates as master; a max. of 32 further luminaires can be switched and dimmed via two DALI outputs

Detailed information: [www.siteco.com](http://www.siteco.com) (navigation: products/indoor luminaires/linear fluorescent luminaires for ceiling surface mounting/Mira® with ELDAICON®/...)

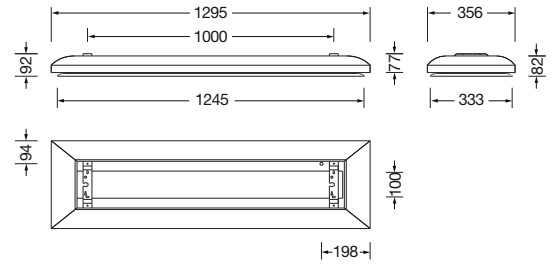
### Housing

Visible frame of anodized extruded aluminum profile; upper side of housing of transparent PMMA, coated with light-impermeable film, easily removable for direct/indirect light distribution; ELDAICON® made of PMMA

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

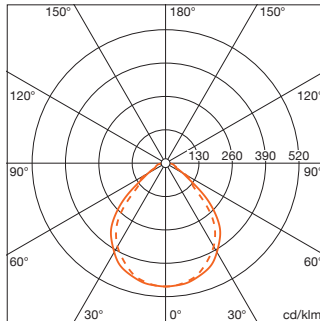


LED



4050737476841  
5LK218D10S

1 x LED 4000K / CRI ≥ 80  $\phi_N$  6320 lm



$\phi_d$  100%  $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2246	2578
L <sub>70</sub>	1766	2045
L <sub>65</sub>	1769	1706

UGR 19 18.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.4	0.5	0.8	1.0	2.1	2.4
30 m <sup>2</sup>	0.7	0.7	1.3	1.5	3.3	3.7
40 m <sup>2</sup>	0.8	0.9	1.7	1.9	4.2	4.7
50 m <sup>2</sup>	1.0	1.1	2.0	2.2	5.1	5.6
75 m <sup>2</sup>	1.5	1.6	3.0	3.2	7.6	8.1
100 m <sup>2</sup>	2.0	2.1	3.9	4.2	9.8	10
500 m <sup>2</sup>	9.2	9.4	18	19	46	47

Maintenance factor 0.8

Rh = Lh

**Mira® LED | with ELDAICON® rectangular**

- Single luminaire for ceiling surface or suspended mounting
- with ELDAICON® New Generation, direct distribution
- discreet illumination of housing edge via all-round prismatic edge
- with ECG DALI

- housing of extruded aluminum profile, anodized
- protection rating: IP50
- insulation class: I

- luminaire supplied with direct distribution; supplementary indirect component can be implemented during installation



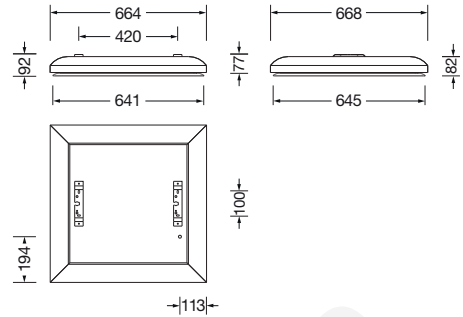
Light source

	K	R <sub>a</sub>	lm	W SYSTEM	ECG CCG	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	4360	50	10.0 DALI	4050737471280	5LK218D1ZS
LED	4000	> 80	6320	75	10.0 DALI	4050737476841	5LK218D10S



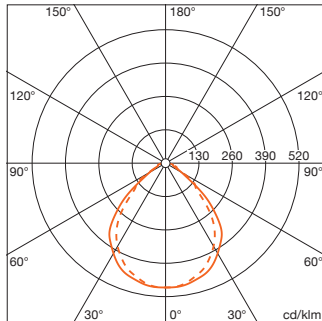


LED



4050737471310  
5LK218D4GS

1 x LED 4000K / CRI ≥ 80  $\phi_N$  3580 lm



$\phi_d$  100%  $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1237	1313
L <sub>70</sub>	818	1176
L <sub>65</sub>	977	984

UGR 16.6 16.3

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.9	1.5	1.7	3.7	4.3
30 m <sup>2</sup>	1.2	1.3	2.3	2.6	5.8	6.5
40 m <sup>2</sup>	1.5	1.6	3.0	3.3	7.4	8.2
50 m <sup>2</sup>	1.8	2.0	3.6	3.9	9.0	9.8
75 m <sup>2</sup>	2.7	2.9	5.3	5.7	13	14
100 m <sup>2</sup>	3.4	3.7	6.9	7.3	17	18
500 m <sup>2</sup>	16	17	32	33	81	83

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Mira® LED | with ELDAICON® square**

- Single luminaire for ceiling surface mounting
- with ELDAICON® New Generation, direct distribution
- discreet illumination of housing edge via all-round prismatic edge
- with ECG DALI

- housing of extruded aluminum profile, anodized
- protection rating: IP50
- insulation class: I



Light source

	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG CCG	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	3580	42	8.7	DALI	4050737471310	5LK218D4GS

## Mira<sup>®</sup> T16



Mira<sup>®</sup> is the intelligently designed luminaire family for economic office and general illumination. The luminaires are available as LED and as T16 versions. Their design features an all-round aluminum frame with precise miter cuts. Optically, the Mira<sup>®</sup> luminaires utilize specially developed microprismatic technology that ensures uniform light distribution without reflected or direct glare and standard-compliant lighting conditions for computer workstations (UGR < 19). The high glare reduction enables free arrangements of screens and workstations in the room which allows for high flexibility during planning.

The T16 versions of the Mira<sup>®</sup> family are equipped with ECG Multiwatt for operation with lamps of varying wattages. Relamping is without tools.

Motion and brightness sensors are available as an option.



### Features

- a complete luminaire family of recessed, surface-mounted, and suspended versions
- economic operation with T16 fluorescent lamps
- available in standard construction forms and module dimensions
- suitable for computer workstations due to prismatic technology for optimized luminous efficacy
- homogeneous light distribution without direct or reflected glare (UGR < 19)
- flexible interior design due to independent luminaire arrangements in the room
- timeless design with quality workmanship
- sensor technology available as an option

### Lighting technology

ELDAICON® microprismatic technology for optimal restriction of reflected and direct glare | uniform luminance over complete light emission surface | reduced reflected glare directly below the luminaire, enabling independent luminaire arrangements in the room, even directly above workstations luminaire with direct distribution upon delivery; medium or wide light distribution via flexibly mountable prismatic film, direct/indirect light distribution is possible during installation process via removable film

### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

### Luminaire with motion and light sensor

Fully automatic operation, with sensor-controlled ON/OFF/bright/dark or manual operation ON/OFF/bright/dark via convenient remote control or external push-button | luminaire operates as master; a max. of 32 further luminaires can be switched and dimmed via two DALI outputs

Detailed information: [www.siteco.com](http://www.siteco.com) (navigation: products/indoor luminaires/linear fluorescent luminaires for ceiling surface mounting/Mira® with ELDAICON®/...)

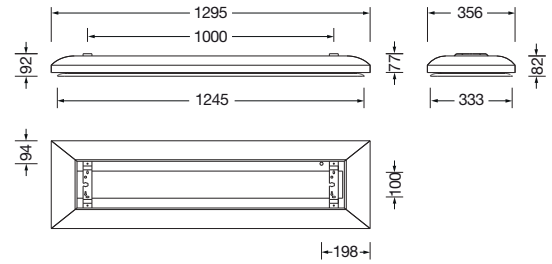
### Housing

Visible frame of anodized extruded aluminum profile; upper side of housing of transparent PMMA, coated with light-impermeable film, easily removable for direct/indirect light distribution; ELDAICON® made of PMMA

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

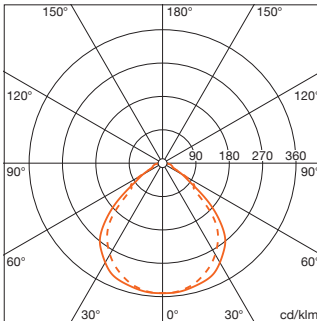


T16  
G5



4050737099774  
5LK21872HS

2 x T16 54W/840  $\phi$  8900 lm



$\eta_{LB}$  76.8%  $\phi_{\downarrow}$  99%  $\phi_{\uparrow}$  1%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2289	2516
L <sub>70</sub>	1750	2056
L <sub>65</sub>	1761	1723

UGR 19 18.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.4	0.5	0.8	0.9	2.0	2.3
30 m <sup>2</sup>	0.6	0.7	1.2	1.4	3.1	3.4
40 m <sup>2</sup>	0.8	0.9	1.6	1.7	3.9	4.3
50 m <sup>2</sup>	0.9	1.0	1.9	2.1	4.7	5.2
75 m <sup>2</sup>	1.4	1.5	2.8	3.0	7.0	7.5
100 m <sup>2</sup>	1.8	1.9	3.6	3.9	9.0	9.7
500 m <sup>2</sup>	8.5	8.7	17	17	42	44

Maintenance factor 0.8

Rh = Lh

### Mira® T16 with ELDAICON® rectangular

Single luminaire for ceiling surface or suspended mounting  
 — with ELDAICON® New Generation, direct distribution  
 — discreet illumination of housing edge via all-round prismatic edge  
 — with ECG Multiwatt

- housing of extruded aluminum profile, anodized
- protection rating: IP50
- insulation class: I

- luminaire supplied with direct distribution; supplementary indirect component can be implemented during installation



Light source



Order no.

OSRAM

Order no.

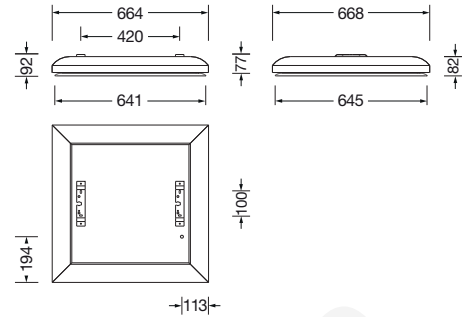
Siteco

1x T16 28/54 W	G5	8.5	Multi	4050737476827	5LK21871HS
1x T16 28/54 W	G5	8.5	Multi DALI	4050737525020	5LK218D1HS
2x T16 28/54 W	G5	8.6	Multi	4050737099774	5LK21872HS
2x T16 28/54 W	G5	8.6	Multi DALI	4050737471297	5LK218D2HS



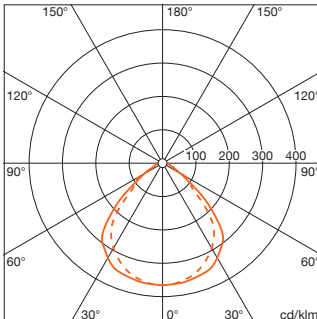


T16  
G5



4050737471273  
5LK21874BS

4 x T16 14W/840  $\phi$  4800 lm



$\eta_{LB}$  79.4%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1358	1460
L <sub>70</sub>	969	1200
L <sub>65</sub>	1046	1080

UGR 17 16.5

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.5	4.0
30 m <sup>2</sup>	1.1	1.2	2.2	2.4	5.5	6.1
40 m <sup>2</sup>	1.4	1.6	2.8	3.1	7.0	7.8
50 m <sup>2</sup>	1.7	1.8	3.4	3.7	8.5	9.2
75 m <sup>2</sup>	2.5	2.7	5.0	5.4	13	13
100 m <sup>2</sup>	3.2	3.5	6.5	6.9	16	17
500 m <sup>2</sup>	15	16	30	31	76	78

Maintenance factor 0.8

Rh = Lh

### Mira® T16 with ELDAICON® square

Single luminaire for ceiling surface mounting  
 — with ELDAICON® New Generation, direct distribution  
 — discreet illumination of housing edge via all-round prismatic edge  
 — with ECG Multiwatt

- housing of extruded aluminum profile, anodized
- protection rating: IP50
- insulation class: I



#### Light source

				Order no. OSRAM	Order no. Siteco
4x T16 14/24 W	G5	8.1	Multi	4050737471273	5LK21874BS
4x T16 14/24 W	G5	8.1	Multi DALI	4050737471303	5LK218D4BS

## Novaluna®



The luminaires of the Novaluna® family are characterized by a purist design and slimline construction. The microprismatic structures create homogenous, glare-free light distribution. The balanced contrast creates a pleasant atmosphere and illumination that complies with current standards for computer workstations, independent of the arrangement of luminaires within the room.

These characteristics qualify the luminaire for use within rooms with high demands for glare reduction (with ELDAICON®: UGR < 16; with HDP®: UGR < 19). The luminaires incorporate T16 lamping for high light output ratios.



### Features

- complete family of surface-mounted, recessed, semi-recessed, suspended, and design variations for a wide spectrum of applications
- combination of secondary and prismatic technology in very flat construction
- two different prismatic technologies for differing glare rating requirements: with ELDAICON®: UGR < 16; with HDP® UGR < 19
- ELDAICON® microprismatic technology for optimal restriction of reflected and direct glare
- with HDP®: multi-level glare restriction via inner V-prisms for homogeneous, reduced luminance values within beam area
- precise light control via the large, prismatic light emission surface creates light distribution with balanced contrasts and allows a free arrangement of luminaires within the room
- very high light output ratio of up to 90%
- flexibility via multiwatt technology for exchangeable lumen packages
- tool-free relamping

### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5 mm<sup>2</sup>

### Lighting technology

The combination of secondary and prismatic technology as well as the large light emission surface enable efficient and precise light control with reduced, homogeneous luminance. luminaire with direct distribution with integrated all-round indirect component via lateral prismatic optics:

- ELDAICON® microprismatic technology for optimal restriction of reflected and direct glare; CAT2 ( $L \leq 1000\text{cd/m}^2$ ); UGR < 16 especially suitable for the standard-compliant illumination of computer workstations
- High Definition Prismatics (HDP®) with multi-level glare reduction via inner V-prisms for uniform and reduced luminance in the light emission area and with good limitation of direct glare; UGR < 19

Extremely high light output ratios:  
 up to 90% with 1-lamp configuration  
 up to 72% with 2-lamp configuration  
 (with version for High Efficiency (HE) lamps)

### Housing

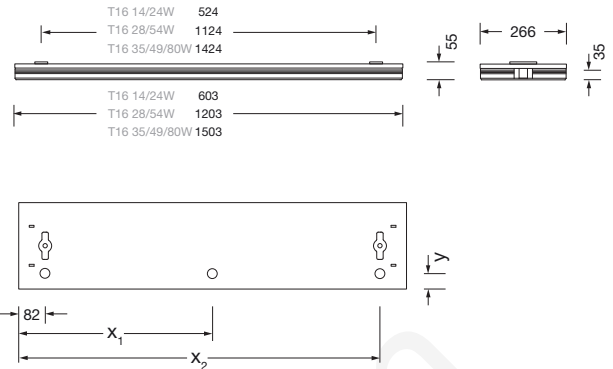
Housing of sheet steel, white aluminum (RAL 9006); cover made of PMMA

### Applications

Lighting of communication areas, libraries, catering, waiting zones, classrooms, and auditoriums

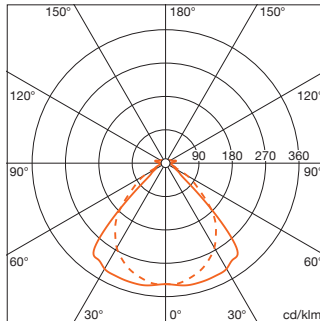


T16  
G5



4050737469317  
5MC22B71HS

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  76%  $\phi_{\downarrow}$  93%  $\phi_{\uparrow}$  7%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	897	403
L <sub>70</sub>	828	531
L <sub>65</sub>	885	850

UGR 15.3 15.1

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Novaluna® | with ELDAICON®**  
rectangular | direct distribution with ceiling illumination

- Single luminaire for ceiling surface mounting
- with ECG
- with ELDAICON®, CAT2 ( $L \leq 1000\text{cd/m}^2$ ), direct distribution with integrated all-round indirect component via lateral prismatic optics
- housing of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I



**Light source**

		$X_1$ [mm]	$X_2$ [mm]	$y$ [mm]			Order no. OSRAM	Order no. Siteco
1x T16 28/54W	G5	600	1120	53	6.5	Multi	4050737469317	5MC22B71HS
1x T16 28/54W	G5	600	1120	53	6.5	Multi DALI	4050737713311	5MC22BD1HS
1x T16 28/54W	G5	600	1120	53	6.5	Multi 1...10V	4050737651798	5MC22B61HS
1x T16 35/49/80W	G5	752	1422	48	7.6	Multi	4039806908551	5MC22B71QS
1x T16 35/49/80W	G5	752	1422	48	7.6	Multi DALI	4050737713021	5MC22BD1QS
1x T16 35/49/80W	G5	752	1422	48	7.6	Multi 1...10V	4050737014302	5MC22B61QS

— height specification H: Housing height + shadow gap on mounting surface

**No. of luminaires in room**

Reflection factors 70/50/20

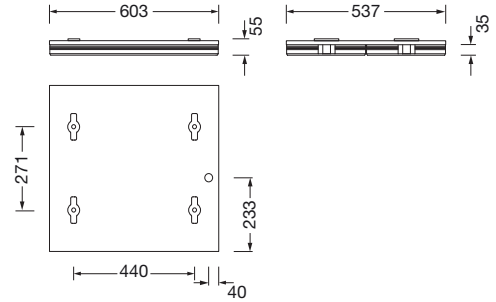
Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.0	4.6
30 m <sup>2</sup>	1.3	1.4	2.6	2.8	6.4	7.0
40 m <sup>2</sup>	1.6	1.8	3.2	3.6	8.0	9.0
50 m <sup>2</sup>	1.9	2.1	3.9	4.3	9.7	11
75 m <sup>2</sup>	2.9	3.1	5.9	6.1	15	15
100 m <sup>2</sup>	3.7	4.0	7.5	8.0	19	20
500 m <sup>2</sup>	17	18	35	36	87	90

Maintenance factor 0.8 Rh = Lh + 0.5 m

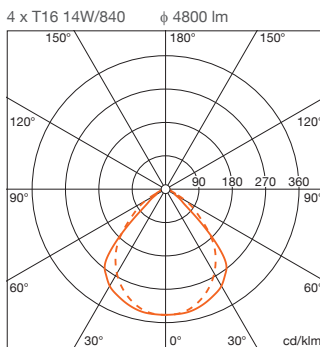




T16  
G5



4050737579078  
5MC22B74BS



$\eta_{LB}$  70.1%  $\phi_{\downarrow}$  96%  $\phi_{\uparrow}$  4%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	589	382
L <sub>70</sub>	669	538
L <sub>65</sub>	887	939

UGR 14.6 14.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.6	1.8	3.9	4.5
30 m <sup>2</sup>	1.3	1.4	2.5	2.7	6.3	6.9
40 m <sup>2</sup>	1.6	1.8	3.2	3.5	7.9	8.8
50 m <sup>2</sup>	1.9	2.1	3.9	4.2	9.6	11
75 m <sup>2</sup>	2.9	3.0	5.8	6.1	15	15
100 m <sup>2</sup>	3.7	4.0	7.5	7.9	19	20
500 m <sup>2</sup>	18	18	35	36	88	90

Maintenance factor 0.8

Rh = Lh

### Novaluna® | with ELDAICON® square | direct distribution with ceiling illumination

- Single luminaire for ceiling surface mounting
- with ECG
- with ELDAICON®, CAT2 ( $L \leq 1000 \text{cd/m}^2$ ), direct distribution with integrated all-round indirect component via lateral prismatic optics
- housing of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I



Light source

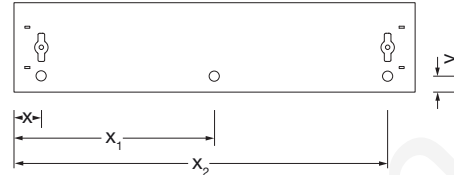
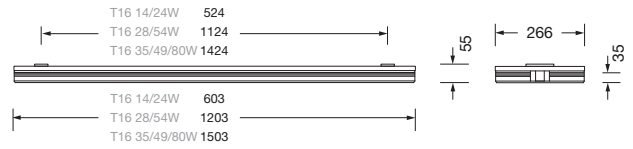


				Order no. OSRAM	Order no. Siteco
2x T16 14/24W	G5	6.2	Multi	4050737579092	5MC22B76BS
2x T16 14/24W	G5	6.2	Multi DALI	4050737579115	5MC22BD6BS
2x T16 14/24W	G5	6.2	Multi 1...10V	4050737579054	5MC22B66BS
4x T16 14/24W	G5	6.2	Multi	4050737579078	5MC22B74BS
4x T16 14/24W	G5	6.2	Multi 1...10V	4050737579047	5MC22B64BS

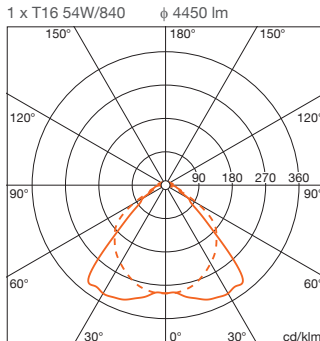
height specification H: Housing height + shadow gap on mounting surface



T16  
G5



4039806596413  
5MC22671HS



$\eta_{LB}$  83.7%  $\phi_{\downarrow}$  94%  $\phi_{\uparrow}$  6%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1328	617
L <sub>70</sub>	1335	1147
L <sub>65</sub>	1111	1886

UGR 17.4 16.8

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.5	1.8	3.8	4.4
30 m <sup>2</sup>	1.2	1.3	2.4	2.7	6.0	6.7
40 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.5	8.5
50 m <sup>2</sup>	1.8	2.0	3.6	4.0	9.1	10
75 m <sup>2</sup>	2.7	2.9	5.4	5.8	13	14
100 m <sup>2</sup>	3.5	3.7	6.9	7.4	17	19
500 m <sup>2</sup>	16	17	32	33	80	83

Maintenance factor 0.8

Rh = Lh + 0.5 m

**Novaluna® | with High Definition Prismatics (HDP®)**  
rectangular | direct distribution with ceiling illumination

- Single luminaire for ceiling surface mounting
- with High Definition Prismatics (HDP®), direct distribution with integrated all-round indirect component via lateral prismatic optics
- with ECG
- housing of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I

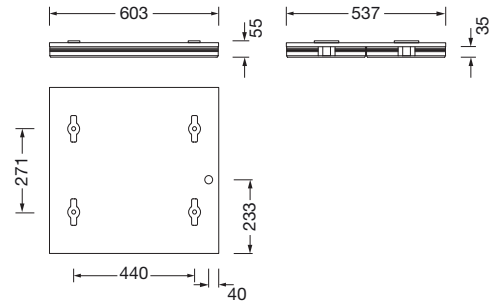


Light source		X [mm]	X <sub>1</sub> [mm]	X <sub>2</sub> [mm]	Y [mm]	kg	ECG CCG	Order no. OSRAM	Order no. Siteco
1x T16 14/24W	G5	564	-	-	33	3.1	Multi	4050737578873	5MC22671BS
1x T16 28/54W	G5	82	600	1120	53	5.8	Multi	4039806596413	5MC22671HS
1x T16 28/54W	G5	82	600	1120	53	5.8	Multi DALI	4050737578934	5MC226D1HS
1x T16 28/54W	G5	82	600	1120	53	5.8	Multi 1...10V	4050737578750	5MC22661HS
1x T16 35/49/80W	G5	82	752	1422	48	6.8	Multi	4039806907660	5MC22671QS
1x T16 35/49/80W	G5	82	752	1422	48	6.8	Multi DALI	4050737578958	5MC226D1QS
1x T16 35/49/80W	G5	82	752	1422	48	6.8	Multi 1...10V	4050737578774	5MC22661QS
2x T16 14/24W	G5	564	-	-	33	3.1	Multi	4050737019437	5MC22672BS
2x T16 14/24W	G5	564	-	-	33	3.1	Multi DALI	4050737578972	5MC226D2BS
2x T16 14/24W	G5	564	-	-	33	3.1	Multi 1...10V	4050737578798	5MC22662BS
2x T16 28/54W	G5	82	600	1120	53	5.5	Multi	4039806804747	5MC22672HS
2x T16 28/54W	G5	82	600	1120	53	5.5	Multi DALI	4050737578996	5MC226D2HS
2x T16 35/49/80W	G5	82	752	1422	48	5.5	Multi	4050737578897	5MC22672QS
2x T16 35/49/80W	G5	82	752	1422	48	5.5	Multi DALI	4050737059358	5MC226D2QS
2x T16 35/49/80W	G5	82	752	1422	48	5.5	Multi 1...10V	4050737578811	5MC22662QS

— height specification H: Housing height + shadow gap on mounting surface

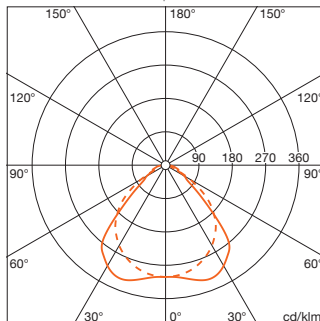


T16  
G5



4050737019451  
5MC22674BS

4 x T16 14W/840  $\phi$  4800 lm



$\eta_{LB}$  75.6%  $\phi_{\downarrow}$  96%  $\phi_{\uparrow}$  4%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1449	423
L <sub>70</sub>	1368	699
L <sub>65</sub>	1134	1254

UGR 17.2 15.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Novaluna® | with High Definition Prismatics (HDP®)  
square | direct distribution with ceiling illumination**

Single luminaire for ceiling surface mounting  
 — with High Definition Prismatics (HDP®),  
 direct distribution with integrated all-  
 round indirect component via lateral  
 prismatic optics  
 — with ECG

- housing of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I



**Light source**



	OSRAM	ECG	CCG	Order no.	Order no.
2x T16 14/24W	G5	5.2	Multi	4050737578910	5MC22676BS
2x T16 14/24W	G5	5.2	Multi DALI	4050737579016	5MC226D6BS
2x T16 14/24W	G5	5.2	Multi 1...10V	4050737578866	5MC22666BS
4x T16 14/24W	G5	6.2	Multi	4050737019451	5MC22674BS
4x T16 14/24W	G5	6.2	Multi DALI	4050737069371	5MC226D4BS
4x T16 14/24W	G5	6.2	Multi 1...10V	4050737578835	5MC22664BS

— height specification H: Housing height + shadow gap on mounting surface

**No. of luminaires in room**

Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.5	1.8	3.9	4.4
30 m <sup>2</sup>	1.2	1.3	2.3	2.6	5.9	6.6
40 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.6	8.4
50 m <sup>2</sup>	1.8	2.0	3.7	4.0	9.2	10
75 m <sup>2</sup>	2.7	2.9	5.4	5.8	13	15
100 m <sup>2</sup>	3.5	3.8	7.0	7.5	18	19
500 m <sup>2</sup>	16	17	33	34	82	85

Maintenance factor 0.8

Rh = Lh

### Novaluna® mounting accessories

#### Quick-fit mounting bracket

For mounting the Novaluna® with ceiling surface mounting using a click attachment | for continuous row mounting or as a single luminaire

Designation	PU	Order no. OSRAM	Order no. Siteco
Quick-fit mounting bracket	1 set = 2 pieces	4039806571526	5MC90201

— 2 pieces required per luminaire

#### Luminaire connector

For continuous row mounting

Designation	Order no. OSRAM	Order no. Siteco
Luminaire connector	4039806577672	5MC90202

— only in conjunction with the quick-fit mounting bracket (1 piece required for each luminaire joint)



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# TECARIO®



The TECARIO® light line system for recessed ceiling mounting and suspended mounting features a slender housing made of extruded aluminum profile, a purist appearance, and high-quality, efficient lighting technology. The optical enclosure as a block-like element with supplementary lateral light emission and the mounted end caps set further design accents and emphasize the character of the luminaire.

The system with a modular design consists of housing, luminaire insert with T16 lamp, and optical enclosure, offering a wide range of combination possibilities: from single luminaires to infinite light lines. The overlapping lamp configuration guarantees homogeneous illumination without visible dark spots (with frosted cover or HDP®).

Different lighting technologies allow the use of a wide variety of applications. A fully frosted version, a version with HDP®, and a version with CAT2 louver technology are available.

The completely frosted version is suitable for all public building areas such as hallways, walkways, entrance areas and gathering areas, and the glare-reduced HDP® and CAT2 louver versions are ideal for use in offices, conference rooms, and meeting rooms.



### Features

- clear, purist design
- modular construction for simple configuration of individual light lines
- optical enclosure as a block-like element with additional lateral light emission
- various optics for a wide range of applications
- multi-sensor (light/presence) for efficient lighting
- luminaire insert with single battery
- luminaire insert with multiwatt technology for individual lumen packages
- luminaire insert and optical enclosures are mounted without tools
- homogeneous illumination via overlapping lamp positioning

### Lighting technology

Optical cover as a profile with a width of 70mm and a height of 15mm | various optical enclosures are available for differing application areas:

- completely frosted cover with diffuse light distribution for optically seamless light lines without dark spots
- cover with frosted lateral surfaces and transparent underside for seamless light lines without dark spots; good glare reduction via combination with inner High Definition Prismatics (HDP®)
- cover with frosted lateral surfaces and transparent underside in combination with highly specular louver, for reduced luminance; CAT2 ( $L \leq 1000\text{cd/m}^2$ ) high luminaire light output ratio > 65% (frosted cover)

### Electrics

Luminaire housing and luminaire insert wired ready for connection

**Housing** with 7-pole connection terminal, max. 2.5 mm<sup>2</sup> and 7x 1.5mm<sup>2</sup> through-wiring for 3-phases + brightness control | with sockets for connection of light inserts in housing

**Luminaire insert** with 3-pole plug system (ECG DALI: 3-pole + 2-pole for control signal) | 3-phase pre-selection via moving of contact pin prior to installation in rail

**Luminaire insert with multi-sensor** with 6-pole plug system (3-pole for normal power supply | 1-pole for ON/OFF/bright/dark button | 2-pole for control of other DALI luminaire inserts)

Luminaire insert with ECG Multiwatt or ECG Multiwatt DALI; for ECG Multiwatt 1...10V version, see [www.siteco.com](http://www.siteco.com)

### Housing

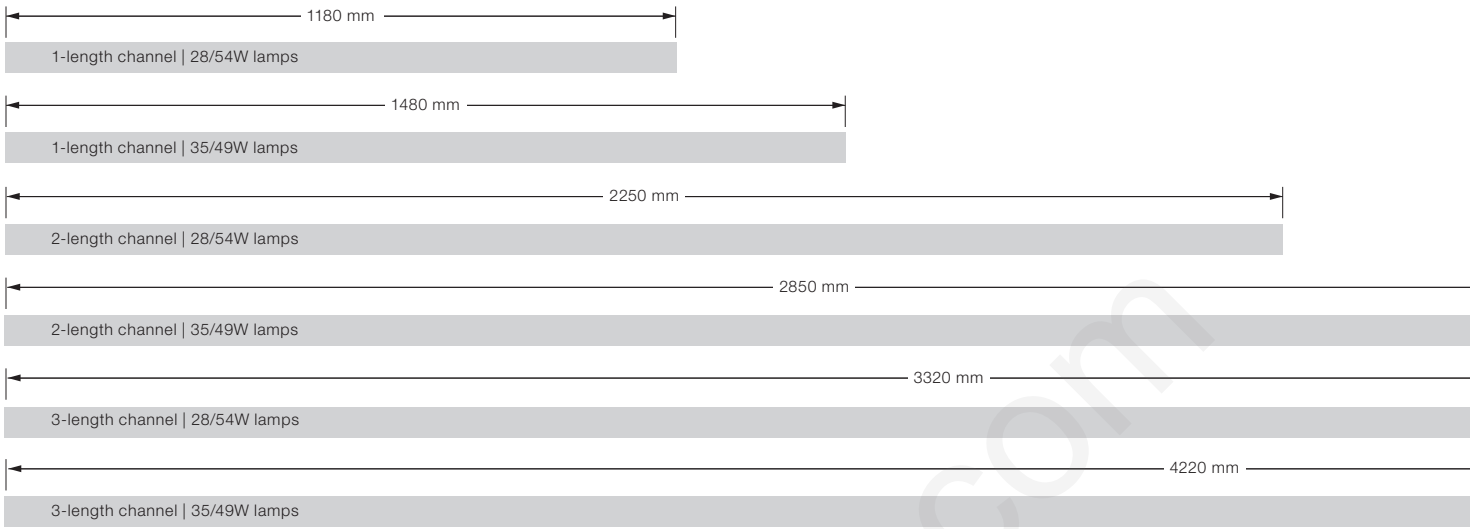
Luminaire housing of extruded aluminum profile; end caps made of diecast aluminum; housing and end caps made of white aluminum (RAL 9006) | differing housing lengths for configuring light lines | sturdy connection element made of sheet steel, galvanized, for self-supporting, flush-fitting connections | luminaire insert of sheet steel, pure white (similar to RAL 9010); offset lamp positioning with frosted cover and HDP® cover for light lines without dark spots | mechanical fixing of insert in luminaire housing with easy-to-use twist-lock catches | frosted cover, HDP® and louver cover of PMMA | wide mounting distances of housings thanks to robust connection elements and high load capacity of ceiling mounting



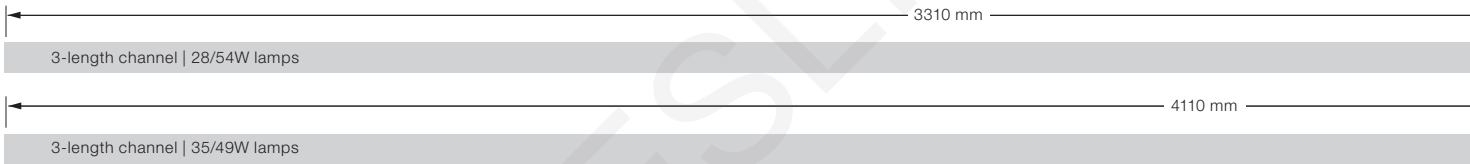
For multi-sensor versions of this luminaire, see **page 3.37**

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

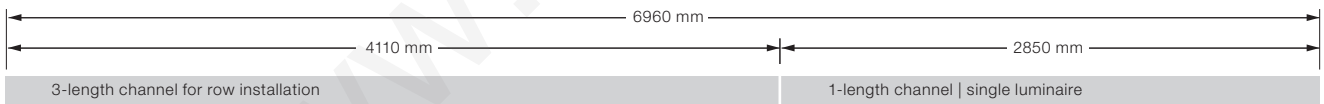
**Lengths: TECARIO® light channel for single luminaire**



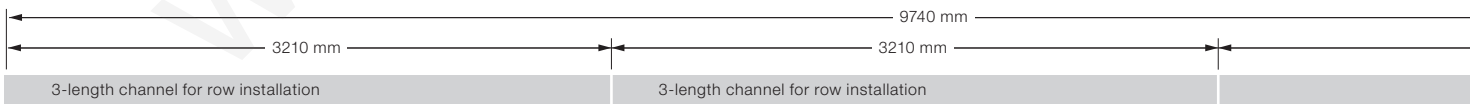
**Lengths: TECARIO® light channel for row installations**



**Configuration: TECARIO® continuous row – example with 35/49W lamps**



**Configuration: TECARIO® continuous row – example for a continuous row calculation, 28/54W lamps (room length: 10m)**



**Configuration: TECARIO® continuous row – example for a continuous row calculation with mixed 35W and 28W lamps**





**Finely matched lengths**

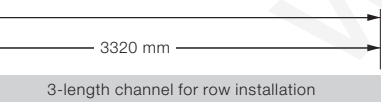
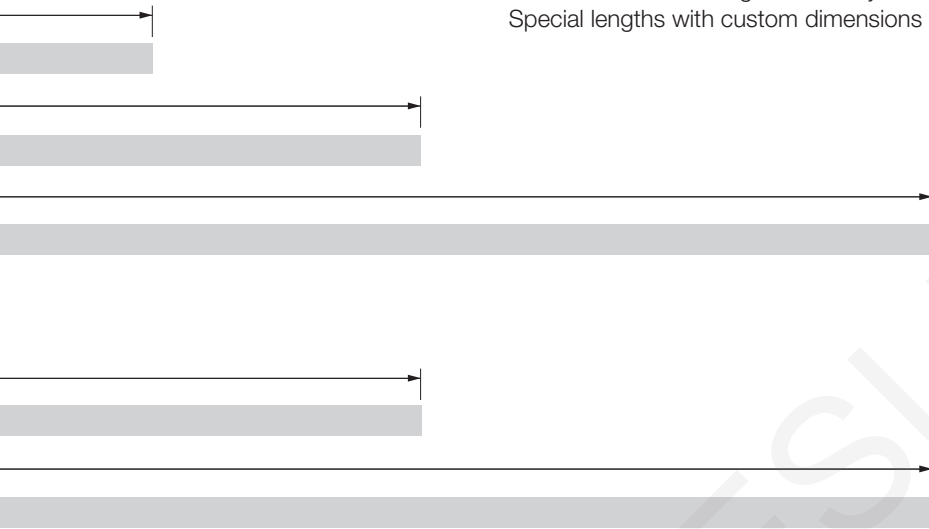
TECARIO® enables single luminaires and continuous rows of any length to be implemented. The basis for this is the slender light channel, available in various system lengths. This accommodates the luminaire modules and optical enclosures.

**Single luminaires**

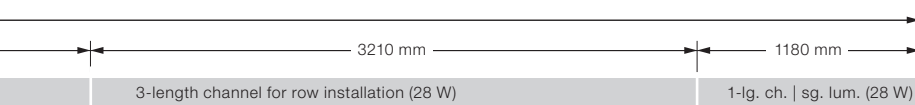
The light channel is available for single luminaires in system lengths for 28/54W and 35/49W in 1, 2 and 3-length.

**Continuous row configuration**

For longer continuous rows, the 3-length light channel for row installations is used either singly or repeatedly. The row is terminated with a 1 to 3-length single luminaire channel. This method enables light lines in system lengths 28/54W and 35/49W to be implemented. Special lengths with custom dimensions are available on request.



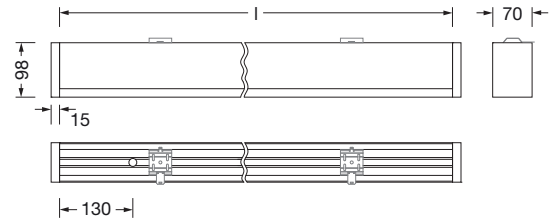
**(room length: 15m)**



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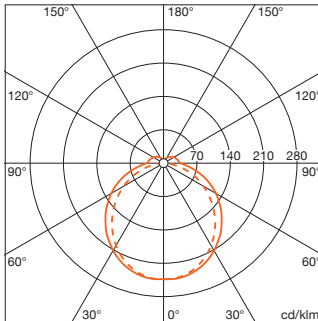


T16  
G5



4050737022758 + 4050737016283  
5MP31171W + 5MP6101W

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  83.6%  $\phi_{\downarrow}$  90%  $\phi_{\uparrow}$  10%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	4950	4340
L <sub>70</sub>	5480	5551
L <sub>65</sub>	5692	5931

UGR 23.4 21.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	1.2	1.5	2.5	2.9	6.2	7.3
30 m <sup>2</sup>	1.8	2.1	3.7	4.2	9.1	10
40 m <sup>2</sup>	2.3	2.6	4.6	5.2	12	13
50 m <sup>2</sup>	2.8	3.1	5.6	6.2	14	15
75 m <sup>2</sup>	4.0	4.3	8.0	8.7	20	22
100 m <sup>2</sup>	5.1	5.5	10	11	26	28
500 m <sup>2</sup>	23	24	45	47	114	118

Maintenance factor 0.8  $R_h = L_h + 0.5 \text{ m}$

### TECARIO® | for single mounting with frosted cover

Light line system for 1- or 2-length single mounting; for ceiling surface mounting or suspended mounting

- with frosted cover, diffuse distribution with ceiling illumination, without dark spots due to overlapping lamp positioning
- with ECG Multiwatt

- modular system of housing, luminaire insert, and optical enclosure: housing of aluminum profile, anodized; end caps made of diecast aluminum, white aluminum (RAL 9006); luminaire insert made of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing



Light source



Length type



Order no.  
OSRAM

Order no.  
Siteco

Luminaire housing

Luminaire housing	Length type	Length (mm)	Weight (kg)	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	1-length	1180	2.1	4050737021928	5MP21130H
1x T16 35/49 W	1-length	1480	2.6	4050737021959	5MP21130W
2x 1x T16 28/54 W	2-length	2250	4.0	4050737021966	5MP21230H
2x 1x T16 35/49 W	2-length	2850	5.1	4050737021980	5MP21230W

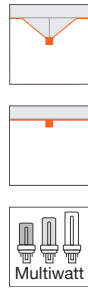
Luminaire insert

Luminaire insert	Length type	Length (mm)	Weight (kg)	Technology	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5 1-length	1174	1.0	Multi	4050737022703	5MP31171H
1x T16 28/54 W	G5 1-length	1174	1.0	Multi DALI	4050737022765	5MP311D1H
1x T16 35/49 W	G5 1-length	1474	1.4	Multi	4050737022758	5MP31171W
1x T16 35/49 W	G5 1-length	1474	1.4	Multi DALI	4050737022819	5MP311D1W
2x 1x T16 28/54 W	G5 2-length	2244	1.5	Multi	4050737042480	5MP31471H
2x 1x T16 28/54 W	G5 2-length	2244	1.5	Multi DALI	4050737049199	5MP314D1H
2x 1x T16 35/49 W	G5 2-length	2843	1.9	Multi	4050737049182	5MP31471W
2x 1x T16 35/49 W	G5 2-length	2843	1.9	Multi DALI	4050737049311	5MP314D1W

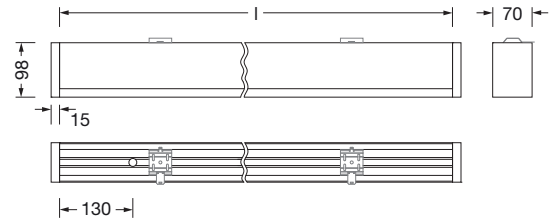
Cover, frosted

Cover, frosted	Length type	Length (mm)	Weight (kg)	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	1-length	1177	0.5	4050737016245	5MP6101H
1x T16 35/49 W	1-length	1476	0.5	4050737016283	5MP6101W
2x 1x T16 28/54 W	2-length	2244	0.6	4050737016382	5MP6104H
2x 1x T16 35/49 W	2-length	2843	0.8	4050737016412	5MP6104W

- please order housing, luminaire insert, and optical enclosure separately
  - please order the necessary accessories (end-cap set and ceiling mounting or suspension) in addition;
- for details, see page 3.41**

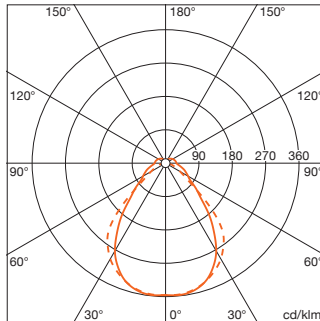


T16  
G5



4050737022758 + 4050737022963  
5MP31171W + 5MP6211W

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  80.4%  $\phi_{\downarrow}$  90%  $\phi_{\uparrow}$  10%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3164	1887
L <sub>70</sub>	3168	2291
L <sub>65</sub>	3183	2561

UGR 20.8 18.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		100		200		500		
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.3	2.5	5.7	6.3			
30 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.5	9.4			
40 m <sup>2</sup>	2.2	2.4	4.4	4.8	11	12			
50 m <sup>2</sup>	2.6	2.9	5.3	5.7	13	14			
75 m <sup>2</sup>	3.8	4.1	7.7	8.2	19	21			
100 m <sup>2</sup>	5.0	5.3	10	11	25	27			
500 m <sup>2</sup>	23	24	46	47	115	118			

Maintenance factor 0.8 Rh = Lh + 0.5 m

**TECARIO® | for single mounting with High Definition Prismatics (HDP®)**

- Light line system for 1- or 2-length single mounting; for ceiling surface mounting or suspended mounting
- with High Definition Prismatics (HDP®)
- direct wide distribution with ceiling illumination, without dark spots due to overlapping lamp positioning
- with ECG Multiwatt

- modular system of housing, luminaire insert, and optical enclosure: housing of aluminum profile, anodized; end caps made of diecast aluminum, white aluminum (RAL 9006); luminaire insert made of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing



**Light source**



**Length type**



**Order no. OSRAM**

**Order no. Siteco**

**Luminaire housing**

Light source	Length type	Length (mm)	Weight (kg)	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	1-length	1180	2.1	4050737021928	5MP21130H
1x T16 35/49 W	1-length	1480	2.6	4050737021959	5MP21130W
2x 1x T16 28/54 W	2-length	2250	4.0	4050737021966	5MP21230H
2x 1x T16 35/49 W	2-length	2850	5.1	4050737021980	5MP21230W

**Luminaire insert**

Light source	Length type	Length (mm)	Weight (kg)	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5 1-length	1174	1.0	4050737022703	5MP31171H
1x T16 28/54 W	G5 1-length	1174	1.0	4050737022765	5MP311D1H
1x T16 35/49 W	G5 1-length	1474	1.4	4050737022758	5MP31171W
1x T16 35/49 W	G5 1-length	1474	1.4	4050737022819	5MP311D1W
2x 1x T16 28/54 W	G5 2-length	2244	1.5	4050737042480	5MP31471H
2x 1x T16 28/54 W	G5 2-length	2244	1.5	4050737049199	5MP314D1H
2x 1x T16 35/49 W	G5 2-length	2843	1.9	4050737049182	5MP31471W
2x 1x T16 35/49 W	G5 2-length	2843	1.9	4050737049311	5MP314D1W

**End cover, High Definition Prismatics (HDP®)**

Light source	Length type	Length (mm)	Weight (kg)	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	1-length	1122	0.5	4050737022994	5MP6212H
1x T16 35/49 W	1-length	1421	0.6	4050737023007	5MP6212W

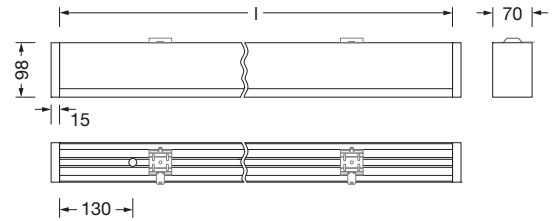
**Single cover, High Definition Prismatics (HDP®)**

Light source	Length type	Length (mm)	Weight (kg)	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	1-length	1177	0.7	4050737022949	5MP6211H
1x T16 35/49 W	1-length	1476	0.8	4050737022963	5MP6211W

- please order housing, luminaire insert, and optical enclosure separately
  - for 1-length luminaire housing, please order 1x single cover, for 2-length luminaire housing, please order 2x end cover
  - please order the necessary accessories (end-cap set and ceiling mounting or suspension) in addition;
- for details, see page 3.41**

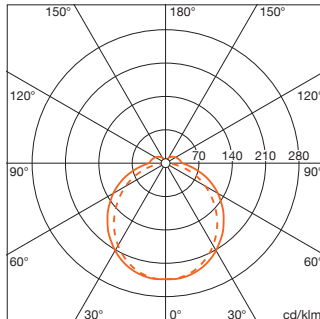


T16  
G5



4050737022758 + 4050737016337  
5MP31171W + 5MP6102W

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  83.6%  $\phi_{\downarrow}$  90%  $\phi_{\uparrow}$  10%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5142	4508
L <sub>70</sub>	5692	5766
L <sub>65</sub>	5913	6160

UGR 23.5 21.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

### TECARIO® | for continuous row mounting with frosted cover

Light line system for 3-length or multi-length continuous rows; for ceiling surface mounting or suspended mounting

- with frosted cover, diffuse distribution, without dark spots due to overlapping lamp positioning
- with ECG Multiwatt

- modular system of housing, luminaire insert, and optical enclosure: housing of aluminum profile, anodized; end caps made of diecast aluminum, white aluminum (RAL 9006); luminaire insert made of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I

#### Configuration

##### Housing:

Multi-length light line systems are configured using one or more housings for continuous rows and a 1-, 2-, or 3-length individual housing

##### Light inserts and optical enclosures:

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing; only light inserts and covers for 21/39W can be used in the 21/39W housing  
2 end covers as well as central covers of the correct quantity are required per light line



No. of luminaires in room

Reflection factors 70/50/20





Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	1.3	1.5	2.7	3.1	6.6	7.7
30 m <sup>2</sup>	2.0	2.2	4.0	4.5	9.9	11
40 m <sup>2</sup>	2.5	2.8	5.0	5.6	13	14
50 m <sup>2</sup>	3.0	3.3	6.1	6.7	15	17
75 m <sup>2</sup>	4.4	4.8	8.8	9.5	22	24
100 m <sup>2</sup>	5.7	6.1	11	12	28	30
500 m <sup>2</sup>	26	26	51	53	128	132

Maintenance factor 0.8

Rh = Lh

Light source	Length type	l [mm]	h [mm]	Order no. OSRAM	Order no. Siteco
Luminaire housing					
1x T16 28/54 W	1-length	1180	2.1	4050737021928	5MP21130H
1x T16 35/49 W	1-length	1480	2.6	4050737021959	5MP21130W
2x 1x T16 28/54 W	2-length	2250	4.0	4050737021966	5MP21230H
2x 1x T16 35/49 W	2-length	2850	5.1	4050737021980	5MP21230W
3x 1x T16 28/54 W	3-length	3320	5.7	4050737022048	5MP21430H
3x 1x T16 35/49 W	3-length	4220	7.3	4050737022062	5MP21430W
Luminaire housing, continuous row					
3x 1x T16 28/54 W	3-length for continuous row mounting	3210	6.0	4050737022086	5MP21530H
3x 1x T16 35/49 W	3-length for continuous row mounting	4110	7.5	4050737022116	5MP21530W



Light source		Length type				Order no. OSRAM	Order no. Siteco
Luminaire insert							
1x T16 28/54 W	G5	1-length	1174	1.0	Multi	4050737022703	5MP31171H
1x T16 28/54 W	G5	1-length	1174	1.0	Multi DALI	4050737022765	5MP311D1H
1x T16 35/49 W	G5	1-length	1474	1.4	Multi	4050737022758	5MP31171W
1x T16 35/49 W	G5	1-length	1474	1.4	Multi DALI	4050737022819	5MP311D1W
2x 1x T16 28/54 W	G5	2-length	2244	1.5	Multi	4050737042480	5MP31471H
2x 1x T16 28/54 W	G5	2-length	2244	1.5	Multi DALI	4050737049199	5MP314D1H
2x 1x T16 35/49 W	G5	2-length	2843	1.9	Multi	4050737049182	5MP31471W
2x 1x T16 35/49 W	G5	2-length	2843	1.9	Multi DALI	4050737049311	5MP314D1W
End cover, frosted							
1x T16 28/54 W		1-length	1122	0.3		4050737016306	5MP6102H
1x T16 35/49 W		1-length	1421	0.6		4050737016337	5MP6102W
Central cover, frosted							
1x T16 28/54 W		1-length	1067	0.3		4050737016344	5MP6103H
1x T16 35/49 W		1-length	1366	0.4		4050737016368	5MP6103W
2x 1x T16 28/54 W		2-length	2137	1.0		4050737016429	5MP6105H
2x 1x T16 35/49 W		2-length	2736	0.8		4050737016443	5MP6105W

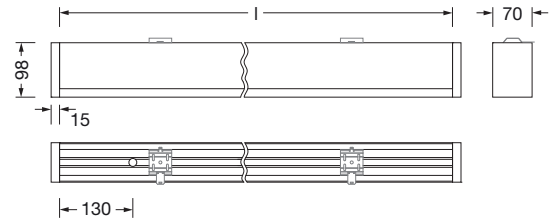
- please order housing, end cap, luminaire insert, and optical enclosure separately
- please order connectors and ceiling mounting or suspension separately

#### Mandatory accessories (for details, see page 3.41 ff.)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connector, sheet steel, galvanized		0.3	4050737017839	5MP90101
End-cap set for attachment channel, white aluminum (RAL 9006)	1 set = 2 pieces	0.2	4050737017617	5MP90301
Ceiling installation element	1 set = 2 pieces	0.1	4050737017419	5MP90201
Single-wire suspension		0.1	4050737017440	5MP90202
Single-wire suspension, with canopy, gray		0.2	4050737017471	5MP90203

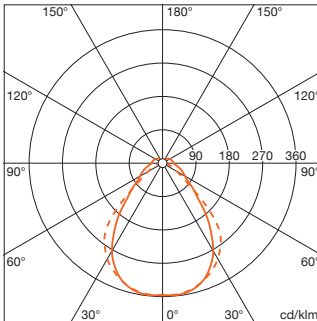


T16  
G5



4050737022758 + 4050737023007  
5MP31171W + 5MP6212W

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  80.4%  $\phi_{\downarrow}$  90%  $\phi_{\uparrow}$  10%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3286	1960
L <sub>70</sub>	3291	2380
L <sub>65</sub>	3306	2660

UGR 21 18.8

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

### TECARIO® | for continuous row mounting with High Definition Prismatics (HDP®)

- Light line system for 3-length or multi-length continuous rows; for ceiling surface mounting or suspended mounting
- with High Definition Prismatics (HDP®)
- direct wide distribution with ceiling illumination, without dark spots due to overlapping lamp positioning
- with ECG Multiwatt

- modular system of housing, luminaire insert, and optical enclosure: housing of aluminum profile, anodized; end caps made of diecast aluminum, white aluminum (RAL 9006); luminaire insert made of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I

#### Configuration

##### Housing:

Multi-length light line systems are configured using one or more housings for continuous rows and a 1-, 2-, or 3-length individual housing

##### Light inserts and optical enclosures:

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing; only light inserts and covers for 21/39W can be used in the 21/39W housing  
2 optical end covers as well as central covers of the correct quantity are required per light line



#### No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.2	1.3	2.4	2.6	5.9	6.6
30 m <sup>2</sup>	1.8	2.0	3.6	4.0	8.9	9.9
40 m <sup>2</sup>	2.3	2.5	4.6	5.1	12	13
50 m <sup>2</sup>	2.8	3.0	5.6	6.1	14	15
75 m <sup>2</sup>	4.1	4.4	8.2	8.8	21	22
100 m <sup>2</sup>	5.4	5.7	11	11	27	28
500 m <sup>2</sup>	25	26	50	52	126	129





Maintenance factor 0.8

Rh = Lh

Light source	Length type	$\frac{l}{mm}$	$\frac{h}{mm}$	Order no. OSRAM	Order no. Siteco
Luminaire housing					
1x T16 28/54 W	1-length	1180	2.1	4050737021928	5MP21130H
1x T16 35/49 W	1-length	1480	2.6	4050737021959	5MP21130W
2x 1x T16 28/54 W	2-length	2250	4.0	4050737021966	5MP21230H
2x 1x T16 35/49 W	2-length	2850	5.1	4050737021980	5MP21230W
3x 1x T16 28/54 W	3-length	3320	5.7	4050737022048	5MP21430H
3x 1x T16 35/49 W	3-length	4220	7.3	4050737022062	5MP21430W

#### Luminaire housing, continuous row

3x 1x T16 28/54 W	3-length for continuous row mounting	3210	6.0	4050737022086	5MP21530H
3x 1x T16 35/49 W	3-length for continuous row mounting	4110	7.5	4050737022116	5MP21530W

Light source		Length type				Order no.	Order no.
						OSRAM	Siteco
Luminaire insert							
1x T16 28/54 W	G5	1-length	1174	1.0	Multi	4050737022703	5MP31171H
1x T16 28/54 W	G5	1-length	1174	1.0	Multi DALI	4050737022765	5MP311D1H
1x T16 35/49 W	G5	1-length	1474	1.4	Multi	4050737022758	5MP31171W
1x T16 35/49 W	G5	1-length	1474	1.4	Multi DALI	4050737022819	5MP311D1W
2x 1x T16 28/54 W	G5	2-length	2244	1.5	Multi	4050737042480	5MP31471H
2x 1x T16 28/54 W	G5	2-length	2244	1.5	Multi DALI	4050737049199	5MP314D1H
2x 1x T16 35/49 W	G5	2-length	2843	1.9	Multi	4050737049182	5MP31471W
2x 1x T16 35/49 W	G5	2-length	2843	1.9	Multi DALI	4050737049311	5MP314D1W
End cover, High Definition Primitives (HDP®)							
1x T16 28/54 W		1-length	1122	0.5		4050737022994	5MP6212H
1x T16 35/49 W		1-length	1421	0.6		4050737023007	5MP6212W
Central cover, High Definition Primitives (HDP®)							
1x T16 28/54 W		1-length	1067	0.6		4050737023021	5MP6213H
1x T16 35/49 W		1-length	1366	0.9		4050737023052	5MP6213W

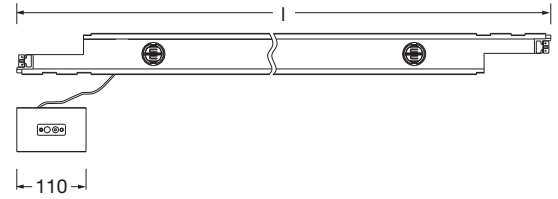
- please order housing, end cap, luminaire insert, and optical enclosure separately
- please order connectors and ceiling mounting or suspension separately

#### Mandatory accessories (for details, see page 3.41 ff.)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connector, sheet steel, galvanized		0.3	4050737017839	5MP90101
End-cap set for attachment channel, white aluminum (RAL 9006)	1 set = 2 pieces	0.2	4050737017617	5MP90301
Ceiling installation element	1 set = 2 pieces	0.1	4050737017419	5MP90201
Single-wire suspension		0.1	4050737017440	5MP90202
Single-wire suspension, with canopy, gray		0.2	4050737017471	5MP90203



T16  
G5



**TECARIO® | with frosted cover or with HDP® luminaire insert with multi-sensor | for single or continuous row mounting**

Light line system, T16 luminaire insert with light and presence sensor

— for frosted cover and/or High Definition Primitives (HDP®)

— luminaire insert with ECG Multiwatt DALI and PIR sensor, light sensor, and IR receiver for remote control

— luminaire insert made of sheet steel, pure white

— protection rating: IP20

— insulation class: I

The luminaire insert with multi-sensor can replace a luminaire insert without multi-sensor in all housings  
Only light inserts for 28/54W can be used in the 28/54W housing;  
only light inserts for 35/49W can be used in the 35/49W housing

**Function**

- fully automatic operation, with sensor-controlled ON/OFF/bright/dark or manual operation, ON/OFF/bright/dark via comfort remote control or external button
- luminaire operates as master, a max. of 10 further luminaires (slaves) can be switched and dimmed

For more information: see data sheet and chapter 13 "Light Management"



Light source					Order no. OSRAM	Order no. Siteco
Luminaire insert						
1x T16 28/54 W	G5	1174	1.4	Multi DALI	4050737050867	5MP311D1HMA
1x T16 35/49 W	G5	1474	1.6	Multi DALI	4050737050874	5MP311D1WMA

- please order housing, end cap, multi-sensor, luminaire insert for multi-sensor and optical enclosure separately
- if a multi-sensor is used, a central cover (sensor length: 110mm) will be required

**Mandatory accessories (for details, see chapter 13)**

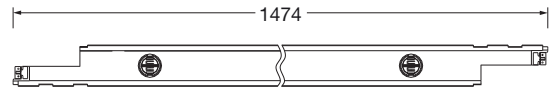
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cover with ActiLume sensor, anodized aluminum	0.2	4050737040448	5MP90501
Cover with ActiLume sensor, painted aluminum, white aluminum (RAL 9006)	0.2	4050737040462	5MP90502

**Accessories (for details, see chapter 13)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Comfort remote control	0.1	4050737020426	5LZ914009
Wall bracket	0.1	4050737020433	5LZ914010
Commissioning remote control	0.1	4050737018539	5LZ914007



T16  
G5



**TECARIO® | with frosted cover or with HDP® luminaire insert with single battery | for single or continuous row mounting**

- Light line system, T16 luminaire insert with single battery
- luminaire insert made of sheet steel, pure white
- for frosted cover and/or High Definition Prismatic (HDP®)
- protection rating: IP20
- luminaire insert with ECG Multiwatt, additionally with single battery
- insulation class: I

The luminaire insert with single battery can be used in housings for 35/49W

**Electrics**

- Luminaire insert for operation with normal power supply or with the integrated single battery supply
- luminaire wired ready for connection, with 4- or 6-pole connection (3-pole for normal power supply with switched phase + 1-pole for additional unswitched phase; with ECG DALI: 4-pole + 2-pole for control signal)
- switched phase and unswitched phase must have same phase angle
- single battery for 1 h operating life with reduced luminous flux
- with optical self-test functioning check of battery (LED for display of operational state)

Detailed information: see data sheet



**Light source**



**Order no.  
OSRAM**

**Order no.  
Siteco**

Luminaire insert, with single battery, nominal operating life 1 h

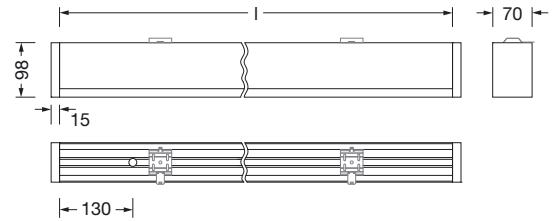
1x T16 35/49 W	G5	2.0	Multi	4050737023694	5MP31171W1
1x T16 35/49 W	G5	2.0	Multi DALI	4050737042138	5MP311D1W1

- please order housing, end cap, luminaire insert, and optical enclosure separately



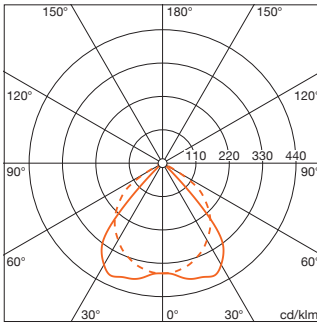


T16  
G5



4050737022871 + 4050737023069  
5MP31271H + 5MP6221H

1 x T16 28W/840  $\phi$  2600 lm



$\eta_{LB}$  74.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	138	104
L <sub>70</sub>	141	143
L <sub>65</sub>	152	378

UGR 16.5 19.7

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	1.3	1.4	2.5	2.8	6.4	7.0
30 m <sup>2</sup>	2.0	2.2	4.0	4.4	10.0	11
40 m <sup>2</sup>	2.5	2.8	5.0	5.7	13	14
50 m <sup>2</sup>	3.1	3.4	6.2	6.7	15	17
75 m <sup>2</sup>	4.7	4.9	9.3	9.8	23	25
100 m <sup>2</sup>	6.0	6.4	12	13	30	32
500 m <sup>2</sup>	29	30	58	60	145	149

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

### TECARIO® | with CAT2 specular louvers and transparent cover | for single or continuous row mounting

Light line system for single or continuous row mounting; for ceiling surface mounting or suspended mounting

- with highly specular louvers, direct wide distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with transparent cover
- with ECG Multiwatt

- modular system of housing, luminaire insert, and optical enclosure: housing of aluminum profile, anodized; end caps made of diecast aluminum, white aluminum (RAL 9006); luminaire insert made of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I

Multi-length light line systems configured with use of several individual housings

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing



Light source



Length type



Order no.

OSRAM

Order no.

Siteco

Luminaire housing

Light source	Length type	L [mm]	Weight [kg]	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	1-length	1180	2.1	4050737021928	5MP21130H
1x T16 35/49 W	1-length	1480	2.6	4050737021959	5MP21130W
2x 1x T16 28/54 W	2-length for louvers	2360	4.2	4050737022000	5MP21330H
2x 1x T16 35/49 W	2-length for louvers	2960	5.2	4050737022031	5MP21330W

Luminaire insert

Light source	Length type	L [mm]	Weight [kg]	Technology	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5 1-length	1174	1.2	Multi	4050737022871	5MP31271H
1x T16 28/54 W	G5 1-length	1174	1.2	Multi DALI	4050737022901	5MP312D1H
1x T16 35/49 W	G5 1-length	1474	1.1	Multi	4050737022888	5MP31271W
1x T16 35/49 W	G5 1-length	1474	1.1	Multi DALI	4050737022932	5MP312D1W

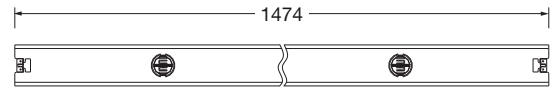
Cover, louvers

Light source	Length type	L [mm]	Weight [kg]	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	1-length	1177	0.7	4050737023069	5MP6221H
1x T16 35/49 W	1-length	1476	0.9	4050737023083	5MP6221W

- please order housing, luminaire insert, and optical enclosure separately
- please order the necessary accessories (end-cap set, connector and ceiling mounting or suspension) in addition; for details, see page 3.41 ff.



T16  
G5



**TECARIO® | with CAT2 specular louver and transparent cover luminaire insert with single battery | for single or continuous row mounting**

- Light line system, T16 luminaire insert with single battery
- for CAT2 specular louvers
- luminaire insert with ECG Multiwatt, additionally with single battery
- luminaire insert made of sheet steel, pure white
- protection rating: IP20
- insulation class: I

The luminaire insert with single battery can be used in housings for 35/49W

**Electrics**

- Luminaire insert for operation with normal power supply or with the integrated single battery supply
- luminaire wired ready for connection, with 4- or 6-pole connection (3-pole for normal power supply with switched phase + 1-pole for additional unswitched phase; with ECG DALI: 4-pole + 2-pole for control signal)
- switched phase and unswitched phase must have same phase angle
- single battery for 1 h operating life with reduced luminous flux
- with optical self-test functioning check of battery (LED for display of operational state)

Detailed information: see data sheet



**Light source**



**Order no.  
OSRAM**

**Order no.  
Siteco**

Luminaire insert, with single battery, nominal operating life 1 h

				Order no. OSRAM	Order no. Siteco
1x T16 35/49 W	G5	2.0	Multi	4050737041407	5MP31271W1
1x T16 35/49 W	G5	2.0	Multi DALI	4050737041421	5MP312D1W1

— please order housing, end cap, luminaire insert, and optical enclosure separately

### TECARIO® housing accessories



#### End cap for TECARIO® housing

Screw fastening from the inside of the housing; no screws visible from the exterior | diecast aluminum, white aluminum (RAL 9006)

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	4050737017617	5MP90301

— additional cable entry available on top of rail



#### Connector for TECARIO® housing

Galvanized steel | connected through 2x screw firm, flush-fit connection | self-supporting

Designation	Order no. OSRAM	Order no. Siteco
Longitudinal connector	4050737017839	5MP90101

— firm connection, only one suspension is required in the area of the joint ( $l_{a_{max}} = 0.25m$ )

## TECARIO® mounting accessories



### Ceiling mounting

Of V2A spring steel, glossy | mounting with snap fittings | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4050737017419	5MP90201



### Wire suspension with canopy

With variable height adjustment | attachment bracket made of V2A spring steel, bright; graphite canopy | mounting with snap fittings | wire length  $l = 2\text{m}$  | wire:  $D = 1.2\text{mm}$  | load capacity: 12kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	$H \leq 2\text{m}$	4050737017471	5MP90203

— with 5 plug terminals, 1-pole, max.  $2.5\text{mm}^2$



### Wire suspension without canopy

With cylindrical ceiling mount element, nickel-plated | with variable height adjustment | attachment bracket made of V2A spring steel, bright; mounting with snap fittings | wire length  $l = 2\text{m}$  | wire:  $D = 1.5\text{mm}$  | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	$H \leq 2\text{m}$	4050737017440	5MP90202



### Connection cable

With transparent insulation | with terminal pins on one side

Designation	Order no. OSRAM	Order no. Siteco
3 x $0.75\text{mm}^2$ ; $l = 0.75\text{m}$	4039806139948	5LF90001L
3 x $0.75\text{mm}^2$ ; $l = 1.4\text{m}$	4039806198839	5LF90002L
5 x $0.75\text{mm}^2$ ; $l = 1.4\text{m}$	4039806201935	5LF90005L
3 x $0.75\text{mm}^2$ ; $l = 2.0\text{m}$	4039806507693	5LF90003L
5 x $0.75\text{mm}^2$ ; $l = 2.0\text{m}$	4039806507709	5LF90006L

— incl. 2 or 4 plug terminals, 1-pole, max.  $2.5\text{mm}^2$

The number of attachment points results from the weight of the entire configuration (housing, light inserts, and covers), the load capacity of the suspension bracket, and the number of joints. The max. permissible distance between two attachment points, the max. length of the self-supporting rail end, and the max. permissible distance to the joint of the light modules must not be exceeded.

- length of the self-supporting rail end:  $l_{a_{\max}} = 0.75\text{m}$
- max. permissible distance between the two attachment points:  $l_{\max} = 3.4\text{m}$
- at least 1 suspension bracket is required in the area of the joint:  $l_{a_{\max}} = 0.25\text{m}$

## Comfolight® 2



The luminaires in the Comfolight® 2 family are characterized by their timeless aesthetic design and their numerous application possibilities. For the direct-distribution surface-mounted luminaire, CAT2 specular light output ratio-optimized aluminum louvers (MIRO®) are available for the standard-compliant illumination of computer workstations. Multiwatt technology provides additional flexibility by allowing the use of various T16 wattages.

### Features

- flexible luminaire system via use of different lamp wattages and different optical inserts
- miter cut over convex, anodized, extruded aluminum sections
- ECG Multiwatt
- simple installation via “click-mounting bracket”

### Lighting technology

Possible to replace lumen packages in a luminaire due to the multiwatt technology

- highly specular aluminum louvers with optimized light output ratio (MIRO®), direct distribution CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- semi-specular aluminum louvers with optimized light output ratio (MIRO®), direct distribution CAT2 ( $L \leq 1000\text{cd/m}^2$ )

### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG Multiwatt DALI: 3-pole + 2-pole for control signal), max. 2.5 mm<sup>2</sup>

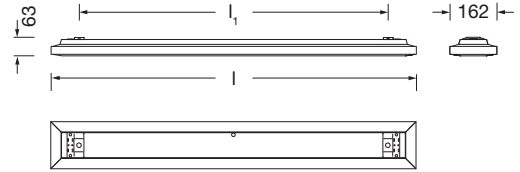
### Housing

Housing of extruded aluminum profile, anodized | housing and end caps mitered for an all-round, consistent housing contour | louvers are mounted without tools and retained in the housing with springs; they are secured with safety retaining cords and grounded for protection even when suspended



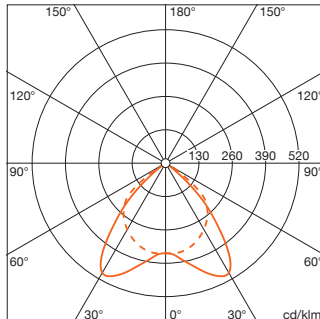


T16  
G5



4039806575272  
5MF21B71QS

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  84.2%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	0
L <sub>70</sub>	49	0
L <sub>65</sub>	95	293

UGR 16.7 18  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.0	1.8	2.0	4.5	4.9
30 m <sup>2</sup>	1.4	1.6	2.7	3.1	6.9	7.9
40 m <sup>2</sup>	1.8	2.0	3.6	3.9	9.0	9.9
50 m <sup>2</sup>	2.2	2.4	4.3	4.7	11	12
75 m <sup>2</sup>	3.2	3.5	6.4	7.0	16	18
100 m <sup>2</sup>	4.2	4.5	8.4	8.9	21	22
500 m <sup>2</sup>	20	21	41	42	101	104

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

### Comfolight® 2

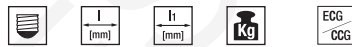
with CAT2 highly specular louvers | highly reflective (MIRO®)

Single luminaire for ceiling surface mounting  
 — with highly specular louvers (MIRO®), highly reflective, direct distribution CAT2 ( $L \leq 1000 \text{cd/m}^2$ )  
 — with ECG Multiwatt

— housing length and end caps made of aluminum profile, anodized  
 — protection rating: IP20  
 — insulation class: I



#### Light source



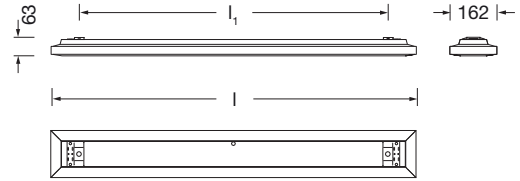
1-length

	G5	l [mm]	h [mm]	kg	ECG/CCG	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1254	1060	4.2	Multi	4039806575265	5MF21B71HS
1x T16 35/49/80 W	G5	1554	1360	4.8	Multi	4039806575272	5MF21B71QS
1x T16 35/49/80 W	G5	1554	1360	4.8	Multi DALI	4039806870629	5MF21BD1QS

— height specification H: Housing height incl. shadow gap on mounting surface

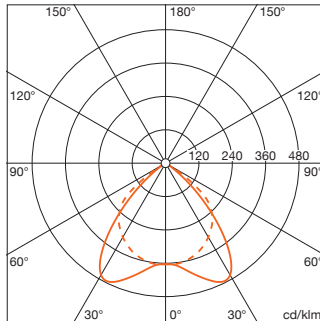


T16  
G5



4039806575258  
5MF21471QS

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  83.4%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	1
L <sub>70</sub>	158	19
L <sub>65</sub>	297	245

UGR 16.7 17.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.9	1.0	1.8	2.0	4.6	5.0
30 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.0	7.9
40 m <sup>2</sup>	1.8	2.0	3.6	4.0	9.1	10.0
50 m <sup>2</sup>	2.2	2.4	4.4	4.8	11	12
75 m <sup>2</sup>	3.2	3.5	6.5	7.1	16	18
100 m <sup>2</sup>	4.3	4.5	8.5	9.1	21	23
500 m <sup>2</sup>	20	21	41	42	102	105

Maintenance factor 0.8

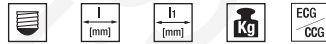
Rh = Lh

**Comflight® 2**  
with CAT2 highly reflective matt specular louvers (MIRO®) |

- Single luminaire for ceiling surface mounting
- with semi-specular louvers (MIRO®), highly reflective, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG Multiwatt
- housing length and end caps made of aluminum profile, anodized
- protection rating: IP20
- insulation class: I



Light source



1-length

	G5	l [mm]	h [mm]	kg	ECG/CCG	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1254	1060	4.1	Multi	4039806575241	5MF21471HS
1x T16 28/54 W	G5	1254	1060	4.1	Multi DALI	4039806866790	5MF214D1HS
1x T16 35/49/80 W	G5	1554	1360	4.8	Multi	4039806575258	5MF21471QS
1x T16 35/49/80 W	G5	1554	1360	4.8	Multi DALI	4039806866813	5MF214D1QS

height specification H: Housing height incl. shadow gap on mounting surface

**Comfolight 2® mounting accessories**



**Luminaire connector**

For continuous row mounting of single luminaires

Designation	Order no. OSRAM	Order no. Siteco
Luminaire connector	4039806578341	5MF90001



www.TESLI.com

# Silhouette® LED



Luminaires in the Silhouette® family distribute light via a special diffuser and prismatic cover uniformly into the room and onto work surfaces. The luminaires can be used for ceiling surface mounting and suspended mounting.

Their balanced direct light distribution, high anti-glare characteristics, and good color rendering help to avoid fatigue when work is being done with books and electronic media.

Three optical enclosures are available: HDP® microprismatic with UGR < 19 for lighting work areas with computer screens or frosted and opal diffuser optics. The linear luminaire features a slender contour with harmonious proportions. The convex optical enclosure creates attractive illumination of the ceiling that makes rooms appear higher. The luminaire can also be installed in continuous rows due to the cover being flush with the housing at the cap ends.

Thanks to LED technology, the luminaires have a system service life of up to 50,000 hours.

## Features

- pleasant room atmosphere via direct light distribution with ceiling illumination
- efficient LED technology with low energy consumption and long service life
- slender contour with balanced, harmonious proportions
- three different optical enclosures for various applications
- HDP® microprismatic technology for UGR < 19 glare reduction
- suitable for continuous rows with optically seamless luminaire covers
- rapid mounting system
- mounting to DUS® mounting rail possible
- suspended mounting via suitable accessories

## Electrics

Luminaire wired ready for connection | with 5-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | cable entry from above, at luminaire center | through-wiring for continuous row mounting above luminaires with sheathed cable, D ≤ 12mm (e.g. NYM 5x 1.5mm<sup>2</sup>)

## Lighting technology

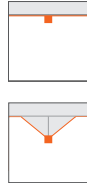
Cover with high-quality prismatic structures for precise light control in transparent, opal, or frosted versions | direct distribution with ceiling illumination for optimal room illumination via special shape of cover and indirect component via lateral prismatic optics

- transparent cover: with High Definition Prismatics (HDP®) and symmetric distribution reflector | direct wide distribution with ceiling illumination | for rooms with high demands for reduction of direct glare | UGR < 16 to < 19
- cover with opal diffuser optics: with inner prismatic structure | direct distribution with ceiling illumination | UGR < 22
- cover with frosted diffuser optics: with inner prismatic structure | direct distribution with ceiling illumination | UGR < 25

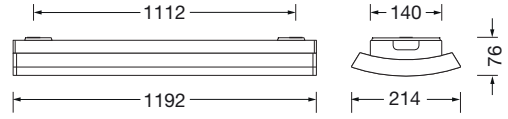
## Housing

Housing made of torsionally rigid-formed sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010) depending on version | with attached end caps of plastic, graphite (RAL 7037) or pure white; cover of non-yellowing PMMA, completely recyclable | cover overlaps laterally, flush at cap ends | incl. quick-fit mounting brackets for luminaire attachment

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This means that luminous flux and power consumption can also change. The latest specific values can be found in the photometric report of each product and in the current download files of the lighting planning data.

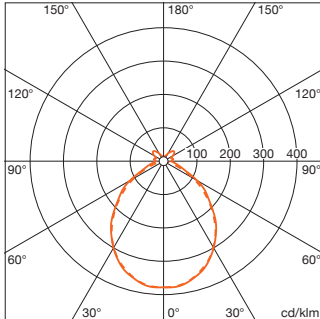


LED



4050737514062  
5MJ223DL44

1 x LED 4000K / CRI ≥ 80     $\phi_N$  4940 lm



$\phi_d$  87%     $\phi_r$  13%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1758	1026
L <sub>70</sub>	2088	2006
L <sub>65</sub>	2500	2883

UGR 18.7    17.3

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	0.6	0.7	1.3	1.5	3.2	3.6
30 m <sup>2</sup>	0.9	1.1	1.9	2.1	4.7	5.3
40 m <sup>2</sup>	1.2	1.3	2.4	2.7	6.1	6.7
50 m <sup>2</sup>	1.5	1.6	2.9	3.2	7.3	8.0
75 m <sup>2</sup>	2.1	2.3	4.2	4.5	11	11
100 m <sup>2</sup>	2.7	2.9	5.5	5.9	14	15
500 m <sup>2</sup>	12	13	25	26	62	64

Maintenance factor 0.8

Rh = Lh + 0.5 m

**Silhouette® LED for continuous rows or single mounting | with transparent cover with HDP® direct wide distribution with ceiling illumination**

Luminaire for single or continuous row mounting; for ceiling surface mounting, suspended mounting, or mounting to a rail  
 — with High Definition Prismatics (HDP®) and aluminum reflector; direct wide distribution with ceiling illumination  
 — with ECG

- housing of sheet steel, white aluminum (RAL 9006)
- end caps made of plastic, graphite (RAL 7037)
- cover of PMMA
- protection rating: IP50
- insulation class: I
- incl. quick-fit mounting brackets

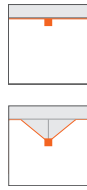
- luminaire for continuous row mounting has cover flush with cap ends
- through-wiring possible above luminaire



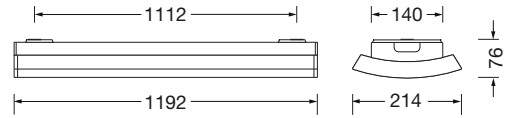
Light source	K	Ra	lm	W SYSTEM	Kg	ECG CCG	Order no.	Order no.
							OSRAM	Siteco
LED	3000	> 80	2220	28	3.9	DALI	4050737523262	5MJ223DL23
LED	3000	> 80	4140	57	3.9	DALI	4050737523248	5MJ223DL43
LED	4000	> 80	2650	28	3.9	DALI	4050737523255	5MJ223DL24
LED	4000	> 80	4940	57	3.9	DALI	4050737514062	5MJ223DL44

— height specification H: Housing height incl. shadow gap on mounting surface



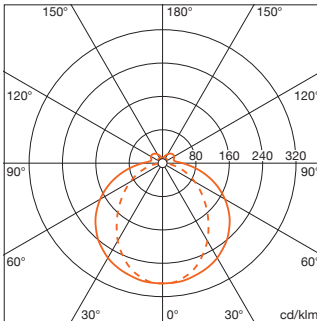


LED



4050737523279  
5MJ222DL44

1 x LED 4000K / CRI ≥ 80     $\phi_N$  4930 lm



$\phi_d$  87%     $\phi_r$  13%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	4345	2137
L <sub>70</sub>	4661	2801
L <sub>65</sub>	4786	3035

UGR 23    18.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.7	3.5	4.1
30 m <sup>2</sup>	1.0	1.2	2.1	2.4	5.2	5.9
40 m <sup>2</sup>	1.3	1.5	2.6	3.0	6.6	7.4
50 m <sup>2</sup>	1.6	1.8	3.2	3.5	7.9	8.8
75 m <sup>2</sup>	2.3	2.5	4.5	4.9	11	12
100 m <sup>2</sup>	2.9	3.1	5.8	6.3	15	16
500 m <sup>2</sup>	13	13	26	27	64	67

Maintenance factor 0.8    Rh = Lh + 0.5 m

**Silhouette® LED for continuous rows or single mounting | with frosted diffuser optics direct wide distribution with ceiling illumination**

Luminaire for single or continuous row mounting; for ceiling surface mounting, suspended mounting, or mounting to a rail  
 — with frosted diffuser optics with inner prismatic structure; direct distribution with ceiling illumination  
 — with ECG

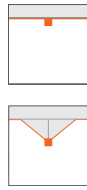
- housing of sheet steel, white aluminum (RAL 9006)
- end caps made of plastic, graphite (RAL 7037)
- cover of PMMA
- protection rating: IP50
- insulation class: I
- incl. quick-fit mounting brackets

- luminaire for continuous row mounting has cover flush with cap ends
- through-wiring possible above luminaire

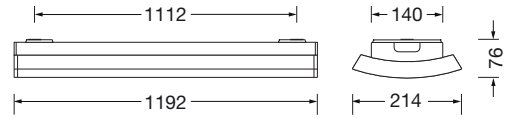


Light source	K	Ra	lm	W SYSTEM	Kg	ECG CCG	Order no.	Order no.
							OSRAM	Siteco
LED	3000	> 80	2220	29	3.6	DALI	4050737524900	5MJ222DL23
LED	3000	> 80	4130	57	3.6	DALI	4050737523286	5MJ222DL43
LED	4000	> 80	2650	29	3.6	DALI	4050737523293	5MJ222DL24
LED	4000	> 80	4930	57	3.6	DALI	4050737523279	5MJ222DL44

— height specification H: Housing height incl. shadow gap on mounting surface

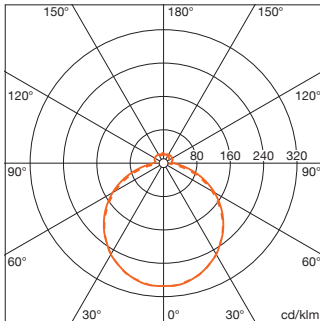


LED



4050737524917  
5MJ211DL44

1 x LED 4000K / CRI ≥ 80  $\phi_{\text{N}}$  3940 lm



$\phi_{\downarrow}$  88%  $\phi_{\uparrow}$  12%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2097	2471
L <sub>70</sub>	2726	3460
L <sub>65</sub>	2974	3713

UGR 20.1 20  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(x)					
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	1.0	1.7	2.0	4.2	4.9
30 m <sup>2</sup>	1.3	1.4	2.5	2.9	6.3	7.2
40 m <sup>2</sup>	1.6	1.8	3.2	3.6	8.0	9.0
50 m <sup>2</sup>	1.9	2.1	3.9	4.3	9.6	11
75 m <sup>2</sup>	2.8	3.0	5.6	6.0	14	15
100 m <sup>2</sup>	3.6	3.8	7.1	7.7	18	19
500 m <sup>2</sup>	16	16	32	33	79	82

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Silhouette® LED for continuous rows or single mounting | with opal diffuser optics direct wide distribution with ceiling illumination**

Luminaire for single or continuous row mounting; for ceiling surface mounting, suspended mounting, or mounting to a rail  
 — with opal diffuser optics with inner prismatic structure; direct distribution with ceiling illumination  
 — with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- end caps of plastic, pure white
- cover of PMMA
- protection rating: IP50
- insulation class: I
- incl. quick-fit mounting brackets

- luminaire for continuous row mounting has cover flush with cap ends
- through-wiring possible above luminaire

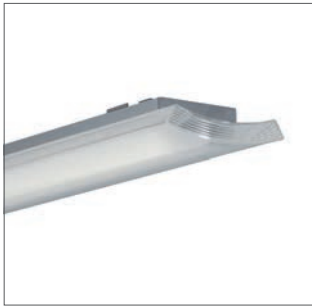


Light source

	K	R <sub>a</sub>	lm	W SYSTEM	IC	ECG CCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	1770	29	3.4	DALI	4050737524948	5MJ211DL23
LED	3000	> 80	3300	57	3.4	DALI	4050737524924	5MJ211DL43
LED	4000	> 80	2110	29	3.4	DALI	4050737524931	5MJ211DL24
LED	4000	> 80	3940	57	3.4	DALI	4050737524917	5MJ211DL44

— height specification H: Housing height incl. shadow gap on mounting surface

# Silhouette® T16



Luminaires in the Silhouette® family distribute light via a special diffuser and prismatic cover uniformly into the room and onto work surfaces. The luminaires can be used for ceiling surface mounting and suspended mounting.

Their balanced direct light distribution, high anti-glare characteristics, and good color rendering help to avoid fatigue when work is being done with books and electronic media.

Three optical enclosures are available: HDP® microprismatic with UGR < 19 for lighting work areas with computer screens or frosted and opal diffuser optics. The linear luminaire features a slender contour with harmonious proportions. The convex optical enclosure creates attractive illumination of the ceiling that makes rooms appear higher. In the version in which the cover is flush with the housing at the cap ends, it can also be installed in continuous rows.

The luminaires are equipped with multiwatt control gears for the flexible use of differing lamp wattages in a single luminaire.

## Features

- pleasant room atmosphere via direct light distribution with ceiling illumination
- slender contour with balanced, harmonious proportions
- uniform appearance with single and twin lamp versions due to identical luminaire cross-section
- three different optical enclosures for various applications
- HDP® microprismatic technology for UGR < 19 glare reduction
- suitable for continuous rows with optically seamless luminaire covers
- rapid mounting system
- mounting to DUS® mounting rail possible
- suspended mounting via suitable accessories

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5 mm<sup>2</sup> | cable entry from above at luminaire center | through-wiring for continuous row mounting either above luminaires with sheathed cable, D ≤ 12mm (e.g. NYM) or within the luminaires (with special wiring sets)

## Lighting technology

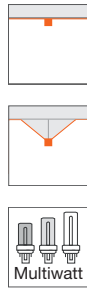
Cover with high-quality prismatic structures for precise light control in transparent, opal, or frosted versions | direct distribution with ceiling illumination for optimal room illumination via special shape of cover and indirect component via lateral prismatic optics

- transparent cover: with High Definition Prismatics (HDP®) and symmetric distribution reflector | direct wide distribution with ceiling illumination | for rooms with high demands for reduction of direct glare | UGR < 19
- cover with opal diffuser optics: with inner prismatic structure | direct distribution with ceiling illumination | UGR < 22
- cover with frosted diffuser optics: with inner prismatic structure | direct distribution with ceiling illumination | UGR < 25

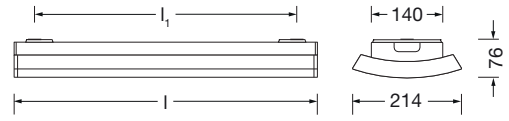
cover overlaps laterally with all versions; flush with cap ends with luminaires for single or continuous row mounting; overlaps cap ends with luminaires for single mounting

## Housing

Housing made of torsionally rigid-formed sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010) depending on version | with attached end caps of plastic, graphite (RAL 7037) or pure white; cover of non-yellowing PMMA, completely recyclable | cover overlaps laterally; depending on version, flush with cap ends (for continuous row mounting) or overlapping with cap ends (as a single luminaire) | incl. quick-fit mounting brackets for luminaire attachment

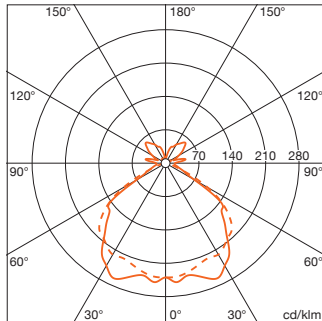


T16  
G5



4039806498335  
5MJ22371QS

1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  83.3%  $\phi_{\downarrow}$  81%  $\phi_{\uparrow}$  19%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	996	768
L <sub>70</sub>	1133	1192
L <sub>65</sub>	1391	2323

UGR 16.7 16.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.7	1.3	1.5	3.3	3.7
30 m <sup>2</sup>	0.9	1.1	1.9	2.1	4.7	5.4
40 m <sup>2</sup>	1.2	1.3	2.4	2.7	6.0	6.7
50 m <sup>2</sup>	1.4	1.6	2.9	3.2	7.2	8.0
75 m <sup>2</sup>	2.1	2.3	4.2	4.6	10	11
100 m <sup>2</sup>	2.7	2.9	5.5	5.9	14	15
500 m <sup>2</sup>	12	13	25	26	62	64

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Silhouette® for continuous rows or single mounting | for T16 lamps with clear cover with HDP® | direct wide distribution with ceiling illumination**

Luminaire for single or continuous row mounting; for ceiling surface mounting, suspended mounting, or mounting to a rail  
 — with High Definition Prismatics (HDP®) and aluminum reflector; direct wide distribution with ceiling illumination  
 — with ECG

- housing of sheet steel, white aluminum (RAL 9006)
- end caps made of plastic, graphite (RAL 7037)
- cover of PMMA
- protection rating: IP50
- insulation class: I
- incl. quick-fit mounting brackets

- luminaire for continuous row mounting has cover flush with cap ends
- through-wiring possible above luminaire

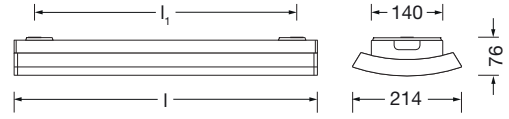


Light source						Order no.	Order no.
						OSRAM	Siteco
1x T16 28/54 W	G5	1192	1112	4.8	Multi	4039806498304	5MJ22371HS
1x T16 28/54 W	G5	1192	1112	4.8	Multi DALI	4039806901804	5MJ223D1HS
1x T16 28/54 W	G5	1192	1112	4.8	Multi 1...10V	4039806598288	5MJ22361HS
1x T16 35/49/80 W	G5	1492	1412	5.5	Multi	4039806498335	5MJ22371QS
1x T16 35/49/80 W	G5	1492	1412	5.5	Multi DALI	4039806541598	5MJ223D1QS
1x T16 35/49/80 W	G5	1492	1412	5.5	Multi 1...10V	4039806571489	5MJ22361QS
2x T16 28/54 W	G5	1192	1112	4.9	Multi	4039806498359	5MJ22372HS
2x T16 28/54 W	G5	1192	1112	4.9	Multi DALI	4039806901828	5MJ223D2HS
2x T16 28/54 W	G5	1192	1112	4.9	Multi 1...10V	4039806901767	5MJ22362HS
2x T16 35/49 W	G5	1492	1412	5.6	Multi	4039806596321	5MJ22372WS
2x T16 35/49 W	G5	1492	1412	5.6	Multi DALI	4039806926258	5MJ223D2WS
2x T16 35/49 W	G5	1492	1412	5.6	Multi 1...10V	4039806904089	5MJ22362WS
2x T16 80 W	G5	1492	1412	5.8	ECG	4039806498397	5MJ22372XS

— height specification H: Housing height incl. shadow gap on mounting surface

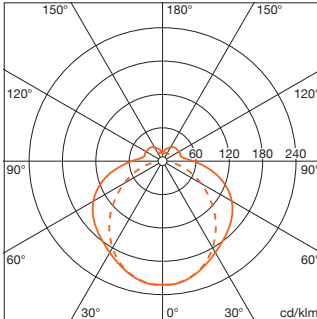


T16  
G5



4039806498243  
5MJ22271Q

1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  85.9%  $\phi_{\downarrow}$  83%  $\phi_{\uparrow}$  17%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	4374	1919
L <sub>70</sub>	4223	2517
L <sub>65</sub>	4146	2730

UGR 22.9 18.4

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.5	4.0
30 m <sup>2</sup>	1.0	1.2	2.0	2.3	5.1	5.8
40 m <sup>2</sup>	1.3	1.4	2.6	2.9	6.4	7.2
50 m <sup>2</sup>	1.5	1.7	3.1	3.4	7.7	8.5
75 m <sup>2</sup>	2.2	2.4	4.4	4.8	11	12
100 m <sup>2</sup>	2.8	3.0	5.6	6.1	14	15
500 m <sup>2</sup>	12	13	25	26	62	64

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

### Silhouette® for continuous rows or single mounting | for T16 lamps with frosted diffuser optics | direct wide distribution with ceiling illumination

Luminaire for single or continuous row mounting; for ceiling surface mounting, suspended mounting, or mounting to a rail  
 — with frosted diffuser optics with inner prismatic structure; direct distribution with ceiling illumination  
 — with ECG

- housing of sheet steel, white aluminum (RAL 9006)
- end caps made of plastic, graphite (RAL 7037)
- cover of PMMA
- protection rating: IP50
- insulation class: I
- incl. quick-fit mounting brackets

- luminaire for continuous row mounting has cover flush with cap ends
- through-wiring possible above luminaire



#### Light source



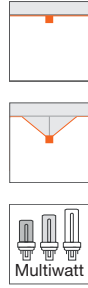
						Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1192	1112	4.0	Multi	4039806498236	5MJ22271H
1x T16 28/54 W	G5	1192	1112	4.0	Multi DALI	4039806533852	5MJ222D1H
1x T16 28/54 W	G5	1192	1112	4.0	Multi 1...10V	4039806539403	5MJ22261H
1x T16 35/49/80 W	G5	1492	1412	4.9	Multi	4039806498243	5MJ22271Q
1x T16 35/49/80 W	G5	1492	1412	4.9	Multi DALI	4039806533876	5MJ222D1Q
1x T16 35/49/80 W	G5	1492	1412	4.9	Multi 1...10V	4039806539861	5MJ22261Q
2x T16 28/54 W	G5	1192	1112	4.1	Multi	4039806498267	5MJ22272H
2x T16 28/54 W	G5	1192	1112	4.1	Multi DALI	4039806903013	5MJ222D2H
2x T16 28/54 W	G5	1192	1112	4.1	Multi 1...10V	4039806541413	5MJ22262H
2x T16 35/49 W	G5	1492	1412	4.9	Multi	4039806596307	5MJ22272W
2x T16 35/49 W	G5	1492	1412	4.9	Multi DALI	4050737000046	5MJ222D2W
2x T16 35/49 W	G5	1492	1412	4.9	Multi 1...10V	4039806926579	5MJ22262W
2x T16 80 W	G5	1492	1412	4.7	ECG	4039806498281	5MJ22272X

— height specification H: Housing height incl. shadow gap on mounting surface

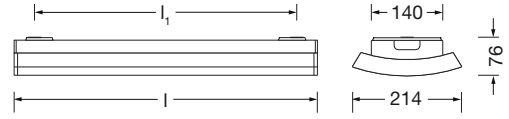
#### Accessories (for details, see page 3.57 ff.)

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, wide distribution, for 1/2x T16 28/54W	0.1	4039806509758	5MJ20002HS
Reflector, wide distribution, for 1/2x T16 35/49/80W	0.6	4039806509772	5MJ20002QS
Reflector, asymmetric distribution, for 1/2x T16 28/54W	0.4	4039806509741	5MJ20002HA
Reflector, asymmetric distribution, for 1/2x T16 35/49/80W	0.5	4039806509765	5MJ20002QA

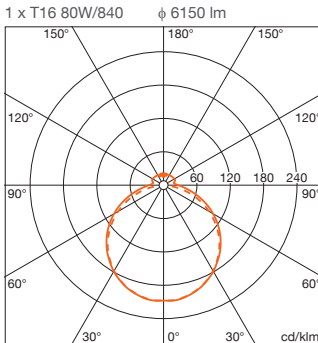




T16  
G5



4039806498175  
5MJ21171Q



$\eta_{LB}$  73.9%  $\phi_{\downarrow}$  86%  $\phi_{\uparrow}$  14%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2250	2154
L <sub>70</sub>	2572	3068
L <sub>65</sub>	2756	3306

UGR 20.1 19.4  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	Em(lx)	100	200	500	1000	2000
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.5	1.8	3.8	4.4
30 m <sup>2</sup>	1.1	1.3	2.2	2.5	5.6	6.4
40 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.1	7.9
50 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.5	9.4
75 m <sup>2</sup>	2.5	2.7	4.9	5.3	12	13
100 m <sup>2</sup>	3.1	3.4	6.3	6.8	16	17
500 m <sup>2</sup>	14	14	28	29	70	72

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Silhouette® for continuous rows or single mounting | for T16 lamps with opal diffuser optics | direct wide distribution with ceiling illumination**

Luminaire for single or continuous row mounting; for ceiling surface mounting, suspended mounting, or mounting to a rail  
 — with opal diffuser optics with inner prismatic structure; direct distribution with ceiling illumination  
 — with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- end caps made of plastic, graphite (RAL 7037)
- cover of PMMA
- protection rating: IP50
- insulation class: I
- incl. quick-fit mounting brackets

- luminaire for continuous row mounting has cover flush with cap ends
- through-wiring possible above luminaire

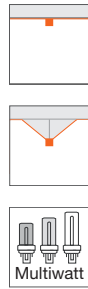


Light source	G5	l [mm]	h [mm]	kg	ECG CCG	Order no.	Order no.
						OSRAM	Siteco
1x T16 28/54 W	G5	1192	1112	4.0	Multi	4039806498168	5MJ21171H
1x T16 28/54 W	G5	1192	1112	4.0	Multi DALI	4039806902078	5MJ211D1H
1x T16 28/54 W	G5	1192	1112	4.0	Multi 1...10V	4039806901729	5MJ21161H
1x T16 35/49/80 W	G5	1492	1412	4.8	Multi	4039806498175	5MJ21171Q
1x T16 35/49/80 W	G5	1492	1412	4.8	Multi DALI	4039806544834	5MJ211D1Q
1x T16 35/49/80 W	G5	1492	1412	4.8	Multi 1...10V	4039806599766	5MJ21161Q
2x T16 28/54 W	G5	1192	1112	4.2	Multi	4039806498199	5MJ21172H
2x T16 28/54 W	G5	1192	1112	4.2	Multi DALI	4039806537218	5MJ211D2H
2x T16 28/54 W	G5	1192	1112	4.2	Multi 1...10V	4039806845078	5MJ21162H
2x T16 35/49 W	G5	1492	1412	5.0	Multi	4039806596284	5MJ21172W
2x T16 35/49 W	G5	1492	1412	5.0	Multi DALI	4050737008080	5MJ211D2W
2x T16 35/49 W	G5	1492	1412	5.0	Multi 1...10V	4050737037608	5MJ21162W
2x T16 80 W	G5	1492	1412	5.0	ECG	4039806498212	5MJ21172X

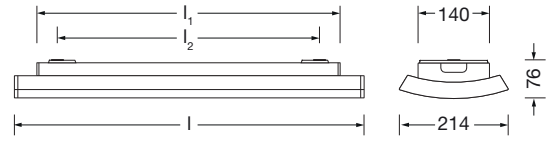
— height specification H: Housing height incl. shadow gap on mounting surface

**Accessories (for details, see page 3.57 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, wide distribution, for 1/2x T16 28/54W	0.1	4039806509758	5MJ20002HS
Reflector, wide distribution, for 1/2x T16 35/49/80W	0.6	4039806509772	5MJ20002QS
Reflector, asymmetric distribution, for 1/2x T16 28/54W	0.4	4039806509741	5MJ20002HA
Reflector, asymmetric distribution, for 1/2x T16 35/49/80W	0.5	4039806509765	5MJ20002QA

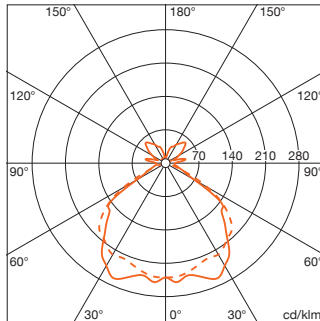


T16  
G5



4039806498465  
5MJ24371QS

1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  83.3%  $\phi_{\downarrow}$  81%  $\phi_{\uparrow}$  19%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	922	719
L <sub>70</sub>	1049	1110
L <sub>65</sub>	1287	2160

UGR 16.4 16

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.7	0.7	1.3	1.5	3.3	3.7
30 m <sup>2</sup>	0.9	1.1	1.9	2.1	4.7	5.4
40 m <sup>2</sup>	1.2	1.3	2.4	2.7	6.0	6.7
50 m <sup>2</sup>	1.4	1.6	2.9	3.2	7.2	8.0
75 m <sup>2</sup>	2.1	2.3	4.2	4.6	10	11
100 m <sup>2</sup>	2.7	2.9	5.5	5.9	14	15
500 m <sup>2</sup>	12	13	25	26	62	64

Maintenance factor 0.8

Rh = Lh + 0.5 m

**Silhouette® for single mounting | for T16 lamps with clear cover with HDP® | direct wide distribution with ceiling illumination**

Single luminaire for ceiling surface mounting, suspended mounting, or mounting to mounting rail  
 — with High Definition Prismatics (HDP®) and aluminum reflector; direct wide distribution with ceiling illumination  
 — with ECG

- housing of sheet steel, white aluminum (RAL 9006)
- end caps made of plastic, graphite (RAL 7037)
- cover of PMMA
- protection rating: IP50
- insulation class: I
- incl. quick-fit mounting brackets

- luminaire for single mounting with cover overlapping cap ends
- through-wiring possible above luminaire

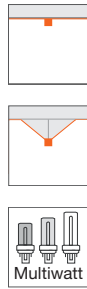


Light source

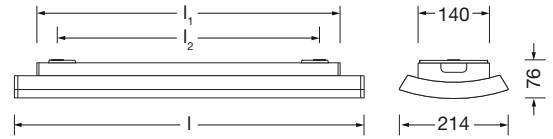


								Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1312	1192	1112	5.1	Multi		4039806498458	5MJ24371HS
1x T16 28/54 W	G5	1312	1192	1112	5.1	Multi DALI		4039806901927	5MJ243D1HS
1x T16 28/54 W	G5	1312	1192	1112	5.1	Multi 1...10V		4039806901903	5MJ24361HS
1x T16 35/49/80 W	G5	1612	1492	1412	6.1	Multi		4039806498465	5MJ24371QS
1x T16 35/49/80 W	G5	1612	1492	1412	6.1	Multi DALI		4039806901941	5MJ243D1QS
1x T16 35/49/80 W	G5	1612	1492	1412	6.1	Multi 1...10V		4039806585011	5MJ24361QS
2x T16 28/54 W	G5	1312	1192	1112	5.2	Multi		4039806498472	5MJ24372HS
2x T16 28/54 W	G5	1312	1192	1112	5.2	Multi DALI		4039806889683	5MJ243D2HS
2x T16 28/54 W	G5	1312	1192	1112	5.2	Multi 1...10V		4039806561183	5MJ24362HS
2x T16 35/49 W	G5	1612	1492	1412	5.2	Multi		4039806596369	5MJ24372WS
2x T16 35/49 W	G5	1612	1492	1412	5.2	Multi DALI		4050737002668	5MJ243D2WS
2x T16 35/49 W	G5	1612	1492	1412	5.2	Multi 1...10V		4039806941886	5MJ24362WS

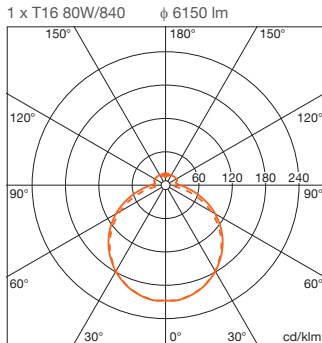
— height specification H: Housing height incl. shadow gap on mounting surface



T16  
G5



4039806498410  
5MJ23171Q



$\eta_{LB}$  73.9%  $\phi_d$  86%  $\phi_t$  14%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2083	2015
L <sub>70</sub>	2381	2856
L <sub>65</sub>	2551	3074

UGR 19.9 19.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.5	1.8	3.8	4.4
30 m <sup>2</sup>	1.1	1.3	2.2	2.5	5.6	6.4
40 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.1	7.9
50 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.5	9.4
75 m <sup>2</sup>	2.5	2.7	4.9	5.3	12	13
100 m <sup>2</sup>	3.1	3.4	6.3	6.8	16	17
500 m <sup>2</sup>	14	14	28	29	70	72

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Silhouette® for single mounting | for T16 lamps with opal diffuser optics | direct wide distribution with ceiling illumination**

- Single luminaire for ceiling surface mounting, suspended mounting, or mounting to mounting rail
- with opal diffuser optics with inner prismatic structure; direct distribution with ceiling illumination
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- end caps of plastic, pure white
- cover of PMMA
- protection rating: IP50
- insulation class: I
- incl. quick-fit mounting brackets

- luminaire for single mounting with cover overlapping cap ends
- through-wiring possible above luminaire



Light source	G5	l [mm]	h [mm]	l <sub>2</sub> [mm]	kg	ECG CCG	Order no.	Order no.
							OSRAM	Siteco
1x T16 28/54 W	G5	1312	1192	1112	4.3	Multi	4039806498403	5MJ23171H
1x T16 28/54 W	G5	1312	1192	1112	4.3	Multi DALI	4039806901842	5MJ231D1H
1x T16 28/54 W	G5	1312	1192	1112	4.3	Multi 1...10V	4039806902016	5MJ23161H
1x T16 35/49/80 W	G5	1612	1492	1412	5.0	Multi	4039806498410	5MJ23171Q
1x T16 35/49/80 W	G5	1612	1492	1412	5.0	Multi DALI	4039806901866	5MJ231D1Q
1x T16 35/49/80 W	G5	1612	1492	1412	5.0	Multi 1...10V	4039806573117	5MJ23161Q
2x T16 28/54 W	G5	1312	1192	1112	4.3	Multi	4039806498427	5MJ23172H
2x T16 28/54 W	G5	1312	1192	1112	4.3	Multi DALI	4039806901880	5MJ231D2H
2x T16 28/54 W	G5	1312	1192	1112	4.3	Multi 1...10V	4039806580207	5MJ23162H
2x T16 35/49 W	G5	1612	1492	1412	5.1	Multi	4039806596345	5MJ23172W
2x T16 35/49 W	G5	1612	1492	1412	5.1	Multi DALI	4039806904249	5MJ231D2W
2x T16 35/49 W	G5	1612	1492	1412	5.1	Multi 1...10V	4050737000060	5MJ23162W

— height specification H: Housing height incl. shadow gap on mounting surface

**Accessories (for details, see page 3.57 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, wide distribution, for 1/2x T16 28/54W	0.1	4039806509758	5MJ20002HS
Reflector, wide distribution, for 1/2x T16 35/49/80W	0.6	4039806509772	5MJ20002QS
Reflector, asymmetric distribution, for 1/2x T16 28/54W	0.4	4039806509741	5MJ20002HA
Reflector, asymmetric distribution, for 1/2x T16 35/49/80W	0.5	4039806509765	5MJ20002QA

### Silhouette® optical accessories



#### Supplementary reflector

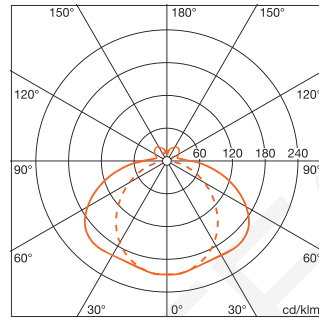
High-gloss aluminum | for equipping the luminaire with opal or frosted diffuser optics | for single-lamp or twin-lamp luminaires

Designation	Order no. OSRAM	Order no. Siteco
Reflector, symmetric, wide distribution		
For 28/54W	4039806509758	5MJ20002HS
For 35/49/80W	4039806509772	5MJ20002QS
Reflector, asymmetric distribution		
For 28/54W	4039806509741	5MJ20002HA
For 35/49/80W	4039806509765	5MJ20002QA

— luminaires with HDP® cover (5MJ243 . . S | 5MJ223 . . S) includes symmetric reflector in standard version; it can also be replaced with an asymmetric distribution reflector

4039806498243 + 4039806509772  
5MJ22271Q + 5MJ20002QS

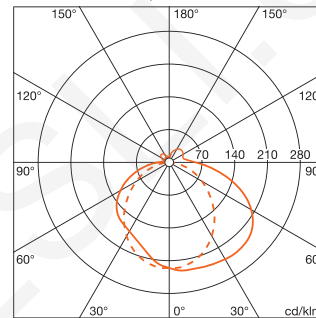
1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  86.8%  $\phi_{\downarrow}$  86%  $\phi_{\uparrow}$  14%

4039806498243 + 4039806509765  
5MJ22271Q + 5MJ20002QA

1 x T16 49W/840  $\phi$  4300 lm



$\eta_{LB}$  86.8%  $\phi_{\downarrow}$  87%  $\phi_{\uparrow}$  13%

### Silhouette® electrical accessories



#### Through-wiring set

For through-wiring from the terminal of one luminaire to the terminal of the adjacent luminaire | for continuous row luminaires with cover flush with cap ends (5MJ211... | 5MJ222... | 5MJ223...)

Designation	Order no. OSRAM	Order no. Siteco
For 28W/54W		
3x 1.5 mm <sup>2</sup>	4039806167583	5LY9115
5x 1.5 mm <sup>2</sup>	4039806167637	5LY9117
For 35W/49W/80W		
3x 1.5 mm <sup>2</sup>	4039806167606	5LY9116
5x 1.5 mm <sup>2</sup>	4039806167651	5LY9118

— 1 piece required per luminaire  
— a luminaire connector (5MJ20001) is additionally required for each joint (for cable gland compliant with protection rating)

## Silhouette® mounting accessories



### Luminaire connector

For continuous row mounting | central attachment for ceiling surface mounting or suspended mounting | for continuous row luminaire with cover flush with cap ends (5MJ211... | 5MJ222... | 5MJ223...)

Designation	Order no. OSRAM	Order no. Siteco
Luminaire connector	4039806508546	5MJ20001

- only suitable for 5MJ211... | 5MJ222... | 5MJ223...
- 1 piece required for each luminaire joint with continuous row mounting



### Y-wire suspension

Includes height adjustment up to 1.2m | wire: D = 1.2mm | incl. ceiling mount element, canopy, and terminals

Designation	Order no. OSRAM	Order no. Siteco
With canopy, white; includes terminals <sup>1)</sup>	4039806508522	5LY91203
With ceiling mount sleeve, without terminals	4039806436474	5LY91202
With canopy, graphite; includes terminals <sup>1)</sup>	4039806436467	5LY91201
Counterweight	4039806524881	5MJ20002

- 1) with 2 terminals, 1-pole, max. 2.5mm<sup>2</sup> | no connection cable
- please order one counterweight separately for each luminaire



### Double-wire suspension

Includes height adjustment up to 1.2m | steel wire: D = 1.2mm | incl. ceiling mount element and round canopy

Designation	Order no. OSRAM	Order no. Siteco
With canopy, graphite	4039806408679	5LF91302AD
With canopy, white	4039806255105	5LF913020D

- without terminals and without connection cable



### Supplementary wire

Suitable for double-wire suspension (5LF913...) | for suspension height up to 2.95m | steel wire: D = 1.2mm

Designation	Order no. OSRAM	Order no. Siteco
Supplementary wire	4039806046079	5LP91303S



### Connection cable

With transparent insulation | with terminal pins on one side

Designation	Order no. OSRAM	Order no. Siteco
3x 0.75mm <sup>2</sup> , l = 2m	4039806507693	5LF90003L
5x 0.75mm <sup>2</sup> , l = 2m	4039806507709	5LF90006L

- incl. 2 or 4 plug terminals, 1-pole terminal connection, max. 2.5mm<sup>2</sup> at luminaire center





### Pendant suspension

Suspension height = 400mm | pendant: D = 10mm | with luminaire-side thread for height compensation | incl. ceiling mount element and round canopy | without connection cable

Designation	Order no. OSRAM	Order no. Siteco
White aluminum	4039806407740	5LF91501AD
White	4039806255136	5LF915010D

— please order connection cable separately



### Connection cable

With transparent insulation | for routing within the pendant | with terminal pins on one side

Designation	Order no. OSRAM	Order no. Siteco
3x 0.75mm <sup>2</sup> , l = 1.4m	4039806198839	5LF90002L
5x 0.75mm <sup>2</sup> , l = 1.4m	4039806201935	5LF90005L

— incl. 2 or 4 plug terminals, terminal connection at luminaire center

## Silhouette® mounting rail accessories



### DUS® insert (IP60)

For rapid mounting of the Silhouette® luminaire on the DUS® mounting rail with 5-wire through-wiring (5LJ909...) | incl. connector line

Designation	Order no. OSRAM	Order no. Siteco
Pure white for 28/54W	4039806512642	5MJ20004BW
Pure white for 35/49/80W	4039806512666	5MJ20005BW

- only suitable for Silhouette® continuous row luminaire 5MJ211... | 5MJ222... | 5MJ223... (1 piece required for each luminaire)
- please order end-cap sets or connection elements for DUS® IP60 mounting rail separately
- for information on the DUS® IP60 mounting rail with through-wiring, see chapter 8



### Mounting element 3

For mechanical attachment to unwired DUS® mounting rail (5LS90920E | 5LS90930E; empty rail without through-wiring, galvanized)

Designation	Order no. OSRAM	Order no. Siteco
Mounting element 3	4039806512666	5LY9142

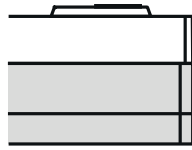
- 2 pieces required per luminaire
- for information on the DUS® mounting rail and accessories, see chapter 9
- wiring from luminaire to luminaire at the top of the luminaire using sheathed cable (e.g. NYM)

For more information on DUS® IP60 mounting rails (incl. through-wiring), see **chapter 8**

For more information on DUS® mounting rails (without through-wiring), see **chapter 9**

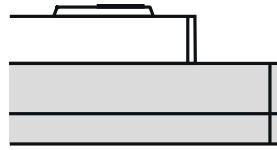
**Silhouette® spare parts**

Fig. 1



Cover flush at cap ends

Fig. 2



Cover overlapping at cap ends



**Optical enclosure, clear with prismatic optics**

PMMA

Designation	l (mm)	Order no. OSRAM	Order no. Siteco
Flush at cap ends (Fig. 1)			
For 28/54W	1192	4039806509857	5MJ22302HW
For 35/49/80W	1492	4039806509864	5MJ22302QW
Overlapping at cap ends (Fig. 2)			
For 28/54W	1392	4039806509895	5MJ24302HW
For 35/49/80W	1692	4039806509901	5MJ24302QW



**Optical enclosure with opal diffuser optics**

PMMA

Designation	l (mm)	Order no. OSRAM	Order no. Siteco
Flush at cap ends (Fig. 1)			
For 28/54W	1192	4039806509796	5MJ21102HW
For 35/49/80W	1492	4039806509802	5MJ21102QW
Overlapping at cap ends (Fig. 2)			
For 28/54W	1392	4039806509871	5MJ23102HW
For 35/49/80W	1692	4039806509888	5MJ23102QW



**Optical enclosure with frosted diffuser optics**

PMMA

Designation	l (mm)	Order no. OSRAM	Order no. Siteco
Flush at cap ends (Fig. 1)			
For 28/54W	1192	4039806509826	5MJ22202HW
For 35/49/80W	1492	4039806509833	5MJ22202QW

# Siteco® Louvre Luminaire M for T16 lamps



Luminaires in the classic design from the Siteco® Louvre Luminaire M family are available as surface-mounted, suspended, or recessed versions. The housing dimensions and louver optics are designed to attain optimal light output ratios with the use of efficient T16 lamps.

Light distribution is via CAT2 specular louvers made of aluminum light-output-ratio-optimized (MIRO®) or via aluminum louvers. A wallwasher is also available for homogeneous and standard-compliant wall and panel lighting. Continuous row mounting with optically seamless lighting technology is possible due to the removable end caps.

## Features

- consistent design solution due to linear shape
- classic lighting technology for T16 fluorescent lamps with good price-performance ratio
- standard-compliant room lighting due to louver optics
- homogeneous, standard-compliant wall and panel lighting with wallwasher
- mounting as single luminaires or as continuous rows with visually seamless reflectors

## Lighting technology

- highly specular aluminum louvers with optimized light output ratio (MIRO®), direct distribution CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- extruded aluminum louvers with ribbed crossblades, matt anodized, direct wide distribution
- semi-specular wallwasher with direct asymmetric distribution for uniform illumination of walls, shelving, or panels

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5 mm<sup>2</sup>

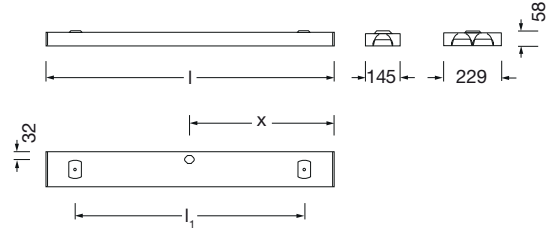
## Housing

Housing of sheet steel with mounted end caps of plastic, housing and end caps pure white (similar to RAL 9010) | end caps can be easily removed for continuous row configurations | the louvers are mounted without tools and affixed in the housing with springs; they are secured with safety retaining cords and grounded for protection even when suspended

For more information on versions of these luminaires with the wallwasher reflector, see **page 3.79**

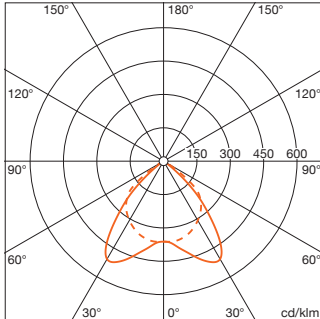


T16  
G5



4039806580467  
5LF51B71QW

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  86.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	0
L <sub>70</sub>	50	0
L <sub>65</sub>	98	302

UGR 16.8 18.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20				200				500			
	100		200		100		200		100		200	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	0.9	1.7	1.9	4.4	4.7						
30 m <sup>2</sup>	1.3	1.5	2.7	3.0	6.7	7.6						
40 m <sup>2</sup>	1.7	1.9	3.5	3.8	8.7	9.6						
50 m <sup>2</sup>	2.1	2.3	4.2	4.6	10	11						
75 m <sup>2</sup>	3.1	3.4	6.2	6.8	16	17						
100 m <sup>2</sup>	4.1	4.3	8.2	8.7	20	22						
500 m <sup>2</sup>	20	20	39	40	98	101						

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M for continuous rows or single mounting | for T16 lamps with CAT2 highly specular louvers, highly reflective (MIRO®)**

luminaire for single or continuous row mounting; for ceiling surface mounting  
 — with highly specular louvers, direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )  
 — with ECG  
 — housing of sheet steel, pure white (similar to RAL 9010)

- end caps of plastic, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- includes installed end caps

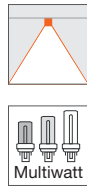
• luminaire with fitted end caps (length = L); please remove end caps for continuous row mounting or latticed arrangements (housing length without end caps:  $L_1 = L - 2 \times 15\text{mm}$ )



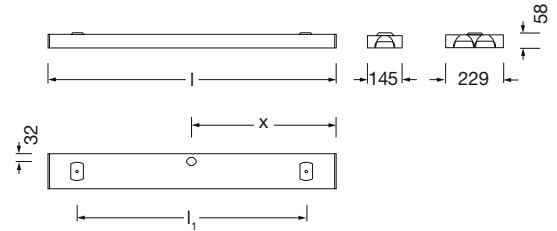
**Light source**

		$L$ [mm]	$L_r$ [mm]	$X$ [mm]		Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1208	950	604	2.8	Multi	4039806580443 5LF51B71HW
1x T16 28/54 W	G5	1208	950	604	2.8	Multi DALI	4050737006666 5LF51BD1HW
1x T16 28/54 W	G5	1208	950	604	2.8	Multi 1...10V	4050737006420 5LF51B61HW
1x T16 35/49/80 W	G5	1508	1250	754	3.6	Multi	4039806580467 5LF51B71QW
1x T16 35/49/80 W	G5	1508	1250	754	3.6	Multi DALI	4039806910417 5LF51BD1QW
1x T16 35/49/80 W	G5	1508	1250	754	3.6	Multi 1...10V	4039806854445 5LF51B61QW
2x T16 28/54 W	G5	1208	950	604	3.7	Multi	4039806580481 5LF51B72HW
2x T16 28/54 W	G5	1208	950	604	3.7	Multi DALI	4050737006710 5LF51BD2HW
2x T16 28/54 W	G5	1208	950	604	3.7	Multi 1...10V	4050737006543 5LF51B62HW
2x T16 35/49 W	G5	1508	1250	754	4.5	Multi	4039806591449 5LF51B72WW
2x T16 35/49 W	G5	1508	1250	754	4.5	Multi DALI	4039806851796 5LF51BD2WW
2x T16 35/49 W	G5	1508	1250	754	4.5	Multi 1...10V	4050737006659 5LF51B62WW
2x T16 35/49/80 W	G5	1508	1250	754	5.0	Multi	4039806581167 5LF51B72QW
2x T16 35/49/80 W	G5	1508	1250	754	5.0	Multi DALI	4050737006727 5LF51BD2QW
2x T16 35/49/80 W	G5	1508	1250	754	5.0	Multi 1...10V	4050737006598 5LF51B62QW

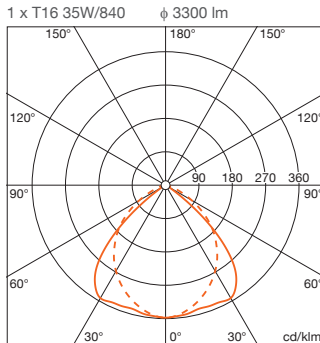
— height specification H: Housing height + shadow gap on mounting surface



T16  
G5



4039806572226  
5LF51671QW



$\eta_{LB}$  73.3%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	77	1457
L <sub>70</sub>	201	2385
L <sub>65</sub>	347	3371

UGR 16.9 19.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.2	2.1	2.4	5.2	6.0
30 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.5	9.4
40 m <sup>2</sup>	2.2	2.4	4.3	4.7	11	12
50 m <sup>2</sup>	2.6	2.8	5.2	5.7	13	14
75 m <sup>2</sup>	3.9	4.2	7.8	8.3	20	21
100 m <sup>2</sup>	5.0	5.3	10	11	25	27
500 m <sup>2</sup>	24	24	47	48	118	121

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M for continuous rows or single mounting | for T16 lamps with extruded aluminum louvers, matt | wide distribution**

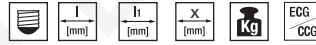
luminaire for single or continuous row mounting; for ceiling surface mounting  
 — with extruded aluminum louvers, matt, direct wide distribution  
 — with ECG  
 — housing of sheet steel, pure white (similar to RAL 9010)

- end caps of plastic, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- includes installed end caps

• luminaire with fitted end caps (length = L); please remove end caps for continuous row mounting or latticed arrangements (housing length without end caps: L<sub>1</sub> = L - 2x 15mm)



Light source



							Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1208	950	604	2.8	Multi	4039806580405	5LF51671HW
1x T16 28/54 W	G5	1208	950	604	2.8	Multi DALI	4039806871312	5LF516D1HW
1x T16 28/54 W	G5	1208	950	604	2.8	Multi 1...10V	4050737005881	5LF51661HW
1x T16 35/49/80 W	G5	1508	1250	754	3.4	Multi	4039806572226	5LF51671QW
1x T16 35/49/80 W	G5	1508	1250	754	3.4	Multi DALI	4050737006048	5LF516D1QW
1x T16 35/49/80 W	G5	1508	1250	754	3.4	Multi 1...10V	4039806910202	5LF51661QW
2x T16 28/54 W	G5	1208	950	604	3.7	Multi	4039806580429	5LF51672HW
2x T16 28/54 W	G5	1208	950	604	3.7	Multi DALI	4050737006062	5LF516D2HW
2x T16 28/54 W	G5	1208	950	604	3.7	Multi 1...10V	4050737005973	5LF51662HW
2x T16 35/49 W	G5	1508	1250	754	4.5	Multi	4039806591425	5LF51672WW
2x T16 35/49 W	G5	1508	1250	754	4.5	Multi DALI	4050737006086	5LF516D2WW
2x T16 35/49 W	G5	1508	1250	754	4.5	Multi 1...10V	4050737004495	5LF51662WW

— height specification H: Housing height + shadow gap on mounting surface



**Siteco® Louvre Luminaire M electrical accessories**



**Through-wiring set for continuous row mounting**

For through-wiring from the terminal of one luminaire to the terminal of the adjacent luminaire (luminaires mounted joint to joint)

Designation	Order no. OSRAM	Order no. Siteco
For 28/54W		
3x 1.5mm <sup>2</sup>	4039806167583	5LY9115
5x 1.5mm <sup>2</sup>	4039806167637	5LY9117
For 35/49/80W		
3x 1.5mm <sup>2</sup>	4039806167606	5LY9116
5x 1.5mm <sup>2</sup>	4039806167651	5LY9118

— for 5-pole through-wiring, please order a 2-pole supplementary terminal (L2, L3) separately



**Supplementary terminal**

For installation in luminaire

Designation	Order no. OSRAM	Order no. Siteco
2x max. 2.5mm <sup>2</sup> (L2, L3) <sup>1)</sup>	4039806271976	5LJ80002XK
3x max. 2.5mm <sup>2</sup> (L1, N, PE) <sup>2)</sup>	4039806271983	5LJ80003XK

1) for 5-pole luminaire connection (or 5-pole through-wiring), 1 required for each luminaire

2) with suspended mounting, a 3-pole connection terminal is required for the luminaire connection in the end cap area; for a 5-pole feed, a 2-pole terminal is required in addition

# Siteco® Louvre Luminaire for T26 lamps



Luminaires from the Siteco® Louvre Luminaire family are available as surface-mounted or recessed versions; as single luminaires with varied lighting technology, they can meet a wide spectrum of various standard lighting requirements. There are various T26 lamps available for this. The luminaire is equipped with CAT2 specular louvers, extruded aluminum louvers, or white louvers.

## Features

- economic luminaire range for standard applications
- identical housing width for single-lamp or twin-lamp variations ensures uniform appearance
- standard-compliant room lighting due to louver optics
- simple asymmetric light distribution by adjusting lamp socket position with 1-lamp luminaires and with the use of supplementary reflector

## Lighting technology

- specular louvers, aluminum, highly specular anodized, direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- extruded aluminum louvers with ribbed crossblades, matt anodized, direct wide distribution
- white louvers, aluminum, painted pure white, direct extremely wide distribution
- simple asymmetric light distribution by adjusting lamp socket position with 1-lamp luminaires and with luminaires with housing width 325mm
- asymmetric light distribution via supplementary reflector (accessory) with 1-lamp luminaires and with luminaires with housing width of 325mm

## Electrics

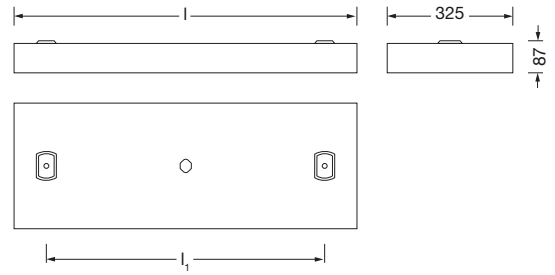
Luminaire wired ready for connection | with 3-pole terminal, max. 2.5 mm<sup>2</sup>

## Housing

Housing of sheet steel, pure white (similar to RAL 9010) | in the version with 325-mm housing width, the louvers are affixed in the luminaire housing with springs; the louvers are inserted with all other versions; they are secured with safety retaining cords and grounded for protection even when suspended

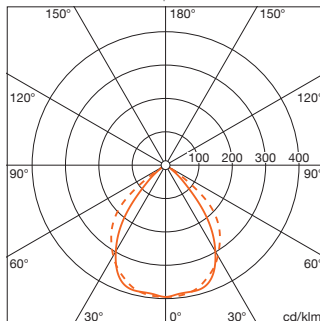


T26  
G13



4039806405883  
5LP21B72C

2 x T26 36W/840  $\phi$  6400 lm



$\eta_{LB}$  64.2%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	0	5
L <sub>70</sub>	1	7
L <sub>65</sub>	6	24

UGR 12.5 15.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.6	0.7	1.2	1.3	3.0	3.3
30 m <sup>2</sup>	0.9	1.0	1.8	2.0	4.5	5.0
40 m <sup>2</sup>	1.2	1.3	2.4	2.6	6.0	6.5
50 m <sup>2</sup>	1.5	1.6	2.9	3.1	7.3	7.8
75 m <sup>2</sup>	2.1	2.3	4.2	4.6	11	11
100 m <sup>2</sup>	2.8	3.0	5.7	6.0	14	15
500 m <sup>2</sup>	14	14	27	28	68	70

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Siteco® Louvre Luminaire single luminaire | for T26 lamps rectangular, B = 325mm | with CAT2 highly specular louvers**

Single luminaire for ceiling surface mounting  
 - with highly specular louvers, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )  
 - with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



Light source

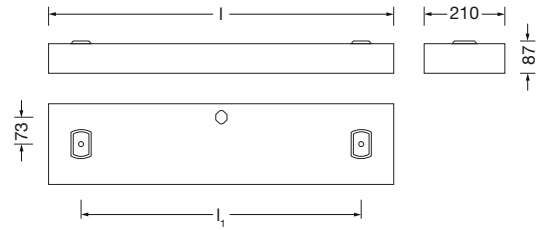


Order no.  
OSRAM

Order no.  
Siteco

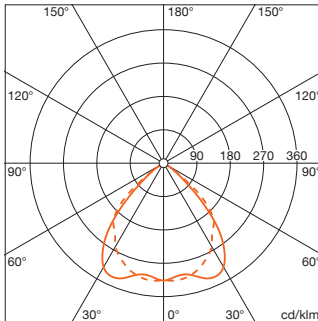
2x T26 36 W	G13	1248	1000	5.4	ECG	4039806405883	5LP21B72C
2x T26 58 W	G13	1548	1300	6.5	ECG	4039806405906	5LP21B72E

- height specification H: Housing height + shadow gap on mounting surface



4039806050328  
5LL21271E

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  60.4%  $\phi_d$  100%  $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	20	29
L <sub>70</sub>	31	35
L <sub>65</sub>	45	45

UGR 14.6 15  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.0	4.5
30 m <sup>2</sup>	1.3	1.4	2.5	2.9	6.3	7.2
40 m <sup>2</sup>	1.6	1.8	3.3	3.6	8.2	9.1
50 m <sup>2</sup>	2.0	2.2	4.0	4.4	9.9	11
75 m <sup>2</sup>	3.0	3.2	5.9	6.4	15	16
100 m <sup>2</sup>	3.9	4.1	7.7	8.3	19	21
500 m <sup>2</sup>	19	19	37	38	93	96

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Siteco® Louvre Luminaire single luminaire | for T26 lamps rectangular, B = 210mm | with CAT2 highly specular louvers**

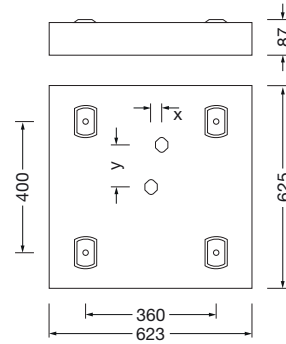
- Single luminaire for ceiling surface mounting
- with highly specular louvers, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- luminaire without louver catch or springs; louvers are inserted into luminaire housing



**Light source**

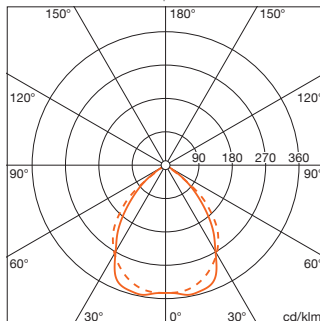
		$l$ [mm]	$h$ [mm]			Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1248	1000	4.0	ECG	4039806050281	5LL21271C
1x T26 58 W	G13	1548	1300	4.9	ECG	4039806050328	5LL21271E
2x T26 36 W	G13	1248	1000	4.2	ECG	4039806050489	5LL21275C
2x T26 58 W	G13	1548	1300	5.0	ECG	4039806050526	5LL21275E

— height specification H: Housing height + shadow gap on mounting surface



4039806050366  
5LL21273A

3 x T26 18W/840  $\phi$  3900 lm



$\eta_{LB}$  60.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	11	13
L <sub>70</sub>	27	16
L <sub>65</sub>	72	21

UGR 11.6 12.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.2	2.1	2.4	5.4	5.9
30 m <sup>2</sup>	1.6	1.8	3.2	3.6	7.9	8.9
40 m <sup>2</sup>	2.1	2.3	4.2	4.6	11	11
50 m <sup>2</sup>	2.6	2.8	5.1	5.5	13	14
75 m <sup>2</sup>	3.7	4.0	7.5	8.0	19	20
100 m <sup>2</sup>	5.0	5.2	10.0	10	25	26
500 m <sup>2</sup>	24	24	48	49	120	122

Maintenance factor 0.8

Rh = Lh

### Siteco® Louvre Luminaire single luminaire | for T26 lamps square | with CAT2 highly specular louvers

- Single luminaire for ceiling surface mounting
- with highly specular louvers, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- luminaire without louver catch or springs; louvers are inserted into luminaire housing



#### Light source

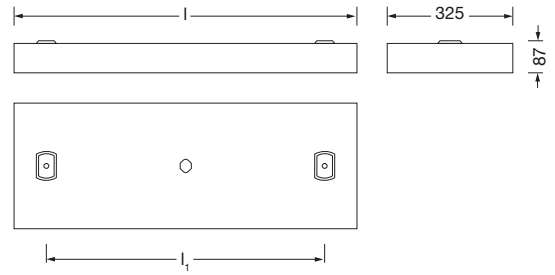
		$x$ [mm]	$y$ [mm]			Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	10	94	4.7	ECG	4039806050366	5LL21273A
4x T26 18 W	G13	-	-	4.7	ECG	4039806050403	5LL21274A

height specification H: Housing height + shadow gap on mounting surface





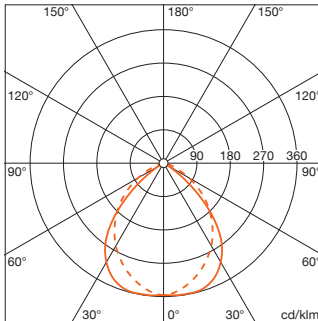
T26  
G13



4039806024398

5LP21672C

2 x T26 36W/840  $\phi$  6400 lm



$\eta_{LB}$  68.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	64	1233
L <sub>70</sub>	245	1694
L <sub>65</sub>	402	2345

UGR 14.8 17.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.6	0.7	1.2	1.3	3.0	3.3
30 m <sup>2</sup>	0.9	1.0	1.8	2.0	4.6	5.1
40 m <sup>2</sup>	1.2	1.3	2.4	2.6	5.9	6.5
50 m <sup>2</sup>	1.4	1.6	2.9	3.1	7.2	7.8
75 m <sup>2</sup>	2.1	2.3	4.2	4.5	11	11
100 m <sup>2</sup>	2.8	2.9	5.5	5.8	14	15
500 m <sup>2</sup>	13	13	26	27	65	67

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Siteco® Louvre Luminaire single luminaire | for T26 lamps square, B = 325mm | with extruded aluminum louvers, matt | wide distribution**

Single luminaire for ceiling surface mounting  
 - with extruded aluminum louvers, matt, direct wide distribution  
 - with ECG

- housing of sheet steel, pure white (similar to RAL 9010)  
 - protection rating: IP20  
 - insulation class: I



Light source



Order no.  
OSRAM

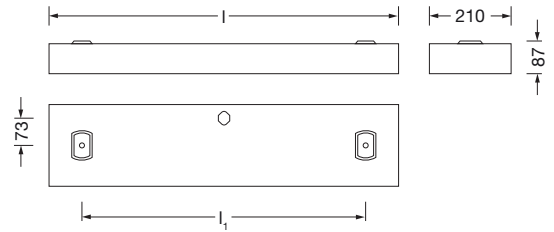
Order no.  
Siteco

2x T26 36 W	G13	1248	1000	5.1	ECG	4039806024398	5LP21672C
2x T26 58 W	G13	1548	1300	6.1	ECG	4039806024411	5LP21672E

- height specification H: Housing height + shadow gap on mounting surface  
 - please order asymmetric supplementary reflector separately as needed

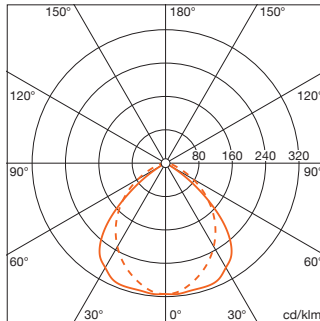


T26  
G13



4039806051721  
5LL21671C

1 x T26 36W/840  $\phi$  3200 lm



$\eta_{LB}$  64.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	69	1229
L <sub>70</sub>	178	1658
L <sub>65</sub>	283	2129

UGR 15.2 17.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.3	1.5	2.5	2.9	6.3	7.3
30 m <sup>2</sup>	2.0	2.2	4.0	4.4	9.9	11
40 m <sup>2</sup>	2.5	2.8	5.1	5.6	13	14
50 m <sup>2</sup>	3.1	3.3	6.1	6.7	15	17
75 m <sup>2</sup>	4.5	4.9	9.1	9.7	23	24
100 m <sup>2</sup>	5.9	6.2	12	12	29	31
500 m <sup>2</sup>	28	28	55	57	139	142

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Siteco® Louvre Luminaire single luminaire | for T26 lamps square, B = 210mm | with extruded aluminum louvers, matt | wide distribution**

- Single luminaire for ceiling surface mounting
- with extruded aluminum louvers, matt, direct wide distribution
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- luminaire without louver catch or springs; louvers are inserted into luminaire housing



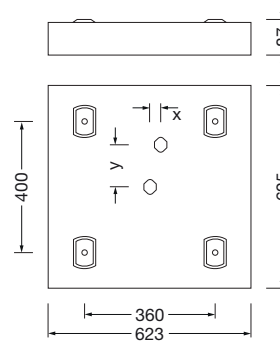
**Light source**

		$l$ [mm]	$h$ [mm]			Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1248	1000	4.0	ECG	4039806051721	5LL21671C
1x T26 58 W	G13	1548	1300	4.9	ECG	4039806051769	5LL21671E
2x T26 36 W	G13	1248	1000	4.2	ECG	4039806051929	5LL21675C
2x T26 58 W	G13	1548	1300	5.0	ECG	4039806051967	5LL21675E

- height specification H: Housing height + shadow gap on mounting surface
- please order asymmetric supplementary reflector for 1-lamp luminaires separately as needed

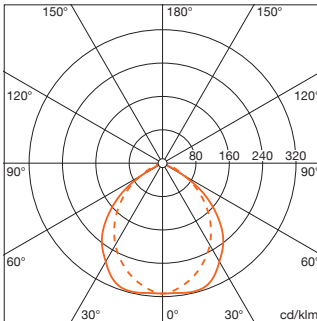
**Accessories (for details, see page 3.75 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, satin matt, asymmetric distribution, for 1x T26 36W	0.3	4039806046512	5LP97001C
Reflector, aluminum, satin matt, asymmetric distribution, for 1x T26 58W	0.3	4039806046536	5LP97001E



4039806051806  
5LL21673A

3 x T26 18W/840  $\phi$  3900 lm



$\eta_{LB}$  64.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	57	528
L <sub>70</sub>	97	839
L <sub>65</sub>	287	1058

UGR 14.8 15.4  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.2	2.1	2.4	5.3	6.1
30 m <sup>2</sup>	1.6	1.8	3.2	3.6	8.0	9.0
40 m <sup>2</sup>	2.1	2.3	4.2	4.6	10	11
50 m <sup>2</sup>	2.5	2.7	5.1	5.5	13	14
75 m <sup>2</sup>	3.7	4.0	7.4	7.9	18	20
100 m <sup>2</sup>	4.8	5.1	9.7	10	24	26
500 m <sup>2</sup>	23	23	45	46	113	116

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Siteco® Louvre Luminaire single luminaire | for T26 lamps square | with extruded aluminum louvers, matt | wide distribution**

- Single luminaire for ceiling surface mounting
- with extruded aluminum louvers, matt, direct wide distribution
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- luminaire without louver catch or springs; louvers are inserted into luminaire housing



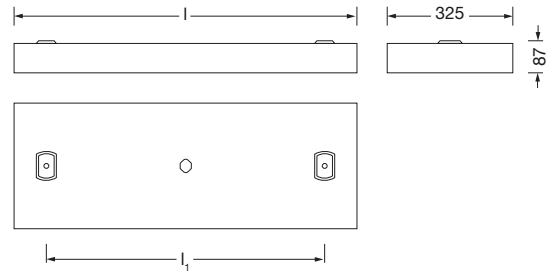
**Light source**

		$x$ [mm]	$y$ [mm]		ECG CCG	Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	10	94	4.5	ECG	4039806051806	5LL21673A
4x T26 18 W	G13	-	-	4.6	ECG	4039806051844	5LL21674A

height specification H: Housing height + shadow gap on mounting surface

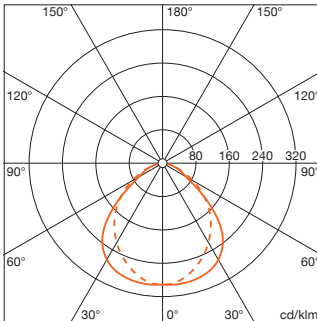


T26  
G13



4039806025494  
5LP21772C

2 x T26 36W/840  $\phi$  6400 lm



$\eta_{LB}$  67.9%  $\phi_d$  100%  $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1626	1984
L <sub>70</sub>	2177	2344
L <sub>65</sub>	2380	2820

UGR 18.7 19.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.6	0.7	1.3	1.5	3.2	3.7
30 m <sup>2</sup>	1.0	1.1	2.0	2.2	4.9	5.5
40 m <sup>2</sup>	1.3	1.4	2.5	2.8	6.3	7.0
50 m <sup>2</sup>	1.5	1.7	3.0	3.3	7.6	8.3
75 m <sup>2</sup>	2.2	2.4	4.5	4.8	11	12
100 m <sup>2</sup>	2.9	3.1	5.8	6.1	14	15
500 m <sup>2</sup>	13	14	27	27	67	69

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Siteco® Louvre Luminaire single luminaire | for T26 lamps square, B = 325mm | with white louver | extremely wide distribution**

- Single luminaire for ceiling surface mounting
- with white louver, direct extremely wide distribution
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



Light source



Order no.  
OSRAM

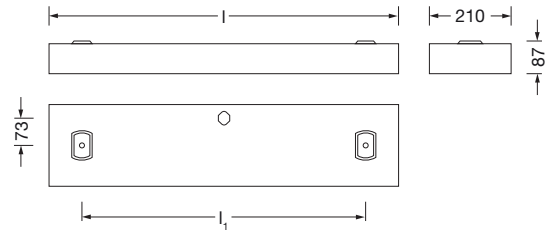
Order no.  
Siteco

2x T26 36 W	G13	1248	1000	5.4	ECG	4039806025494	5LP21772C
2x T26 58 W	G13	1548	1300	6.3	ECG	4039806025517	5LP21772E

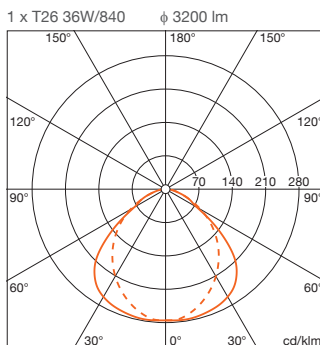
height specification H: Housing height + shadow gap on mounting surface



T26  
G13



4039806052643  
5LL21771C



$\eta_{LB}$  69.2%  $\phi_d$  100%  $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1736	1909
L <sub>70</sub>	2285	2234
L <sub>65</sub>	2479	2622

UGR 19.2 19.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.3	1.5	2.6	3.0	6.4	7.4
30 m <sup>2</sup>	2.0	2.2	3.9	4.4	9.8	11
40 m <sup>2</sup>	2.5	2.8	5.0	5.6	13	14
50 m <sup>2</sup>	3.0	3.3	6.0	6.6	15	17
75 m <sup>2</sup>	4.4	4.8	8.9	9.5	22	24
100 m <sup>2</sup>	5.7	6.1	11	12	29	30
500 m <sup>2</sup>	26	27	53	54	131	135

Maintenance factor 0.8

Rh = Lh

### Siteco® Louvre Luminaire single luminaire | for T26 lamps square, B = 210mm | with white louver | extremely wide distribution

- Single luminaire for ceiling surface mounting
- with white louver, direct extremely wide distribution
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- luminaire without louver catch or springs; louvers are inserted into luminaire housing

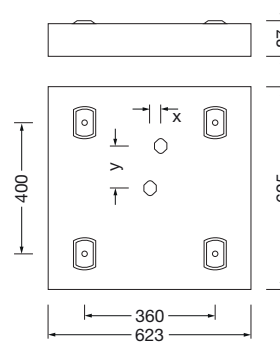


#### Light source

		$l$ [mm]	$h$ [mm]			Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1248	1000	4.0	ECG	4039806052643	5LL21771C
1x T26 58 W	G13	1548	1300	4.9	ECG	4039806052681	5LL21771E
2x T26 36 W	G13	1248	1000	4.2	ECG	4039806052827	5LL21775C
2x T26 58 W	G13	1548	1300	5.0	ECG	4039806052865	5LL21775E

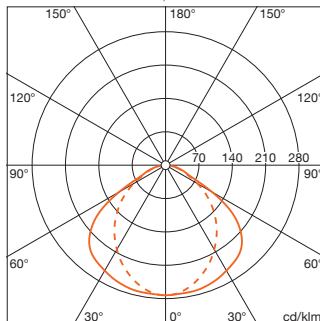
height specification H: Housing height + shadow gap on mounting surface





4039806052728  
5LL21773A

3 x T26 18W/840  $\phi$  3900 lm



$\eta_{LB}$  70.4%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1222	1197
L <sub>70</sub>	1509	1375
L <sub>65</sub>	1730	1508

UGR 18.5 17.4  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(lx)		Em(lx)		Em(lx)	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.2	2.1	2.5	5.3	6.2
30 m <sup>2</sup>	1.6	1.8	3.2	3.6	8.0	9.0
40 m <sup>2</sup>	2.0	2.3	4.1	4.5	10	11
50 m <sup>2</sup>	2.5	2.7	4.9	5.4	12	13
75 m <sup>2</sup>	3.6	3.8	7.2	7.7	18	19
100 m <sup>2</sup>	4.6	4.9	9.3	9.9	23	25
500 m <sup>2</sup>	21	22	42	44	106	109

Maintenance factor 0.8 Rh = Lh

**Siteco® Louvre Luminaire single luminaire | for T26 lamps square | with white louvre | extremely wide distribution**

- Single luminaire for ceiling surface mounting
- with white louvre, direct extremely wide distribution
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- luminaire without louvre catch or springs; louvers are inserted into luminaire housing



**Light source**

		$x$ [mm]	$y$ [mm]			Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	10	94	4.6	ECG	4039806052728	5LL21773A
4x T26 18 W	G13	-	-	4.6	ECG	4039806052766	5LL21774A

height specification H: Housing height + shadow gap on mounting surface

**Siteco® Louvre Luminaire electrical accessories**



**Through-wiring set for continuous row mounting**

for through-wiring from the terminal of one luminaire to the terminal of the adjacent luminaire (luminaires mounted joint to joint)

Designation	Order no. OSRAM	Order no. Siteco
for 36W		
3x 1.5mm <sup>2</sup>	4039806167583	5LY9115
5x 1.5mm <sup>2</sup>	4039806167637	5LY9117
for 58W		
3x 1.5mm <sup>2</sup>	4039806167606	5LY9116
5x 1.5mm <sup>2</sup>	4039806167651	5LY9118

- please order cable glands separately
- for 5-pole through-wiring, please order a 2-pole supplementary terminal (L2, L3) separately



**Supplementary terminal**

for installation in luminaire

Designation	Order no. OSRAM	Order no. Siteco
2x max. 2.5mm <sup>2</sup> (L2, L3) <sup>1)</sup>	4039806271976	5LJ80002XK

1) for 5-pole luminaire connection (or 5-pole through-wiring), 1 required for each luminaire



**Cable gland**

for cable infeed at ends with single luminaire (also to protect the through-wiring with continuous row mounting of single luminaires and to align the luminaires)

Designation	Order no. OSRAM	Order no. Siteco
Line bushing	4039806369291	5LY9183

**Siteco® Louvre Luminaire mounting accessories**



**Mounting element 3**

For mechanical attachment to unwired DUS® mounting rail (5LS90920E | 5LS90930E; empty rail without through-wiring, galvanized)

Designation	Order no. OSRAM	Order no. Siteco
Mounting element 3	4039806369253	5LY9142

- 2 pieces required per luminaire
- For information on the DUS® mounting rail and accessories, see chapter 8
- wiring from luminaire to luminaire at the top of the luminaire using sheathed cable (e.g. NYM)



**Mounting set 4**

For mounting Siteco® Louvre Luminaire Plus surface-mounted luminaires to wired DUS® mounting rail | incl. connection cable and connector with phase selection, for connection in the DUS® mounting rail

Designation	Order no. OSRAM	Order no. Siteco
3-core	4039806106346	5LJ90940XC
5-core	4039806888037	5LJ90950XC

- 3-pole for 5- or 7-core wired rail
- 5-pole for 7-core wired rail
- 1 set required per luminaire
- For information on the DUS® mounting rail and accessories, see chapter 9

For more information on DUS® mounting rails (incl. through-wiring) and accessories, see **chapter 8**

For more information on DUS® mounting rails (without through-wiring) and accessories, see **chapter 9**

# Siteco® Louvre Luminaire M LED wallwasher



The Siteco® Louvre Luminaire M LED wallwasher is a surface-mounted luminaire for the standard-compliant and glare-free lighting of panels. Formally, the Siteco® Louvre Luminaire M LED is the functional LED equivalent of the classic T16 luminaire.

With its asymmetric light distribution and semi-specular involute reflector, the wallwasher provides deep, uniform illumination for walls, shelves, and panels. Pre-assembled end caps can be removed from the housing for continuous row mounting with seamless reflectors.

The Siteco® Louvre Luminaire M LED wallwasher LED has DALI integration as a standard feature.

## Features

- system optimized for LED
- standard-compliant solution for glare-free panel lighting
- asymmetric light distribution for the deep, homogeneous illumination of walls, shelves, and panels
- DALI integration as a standard feature
- minimized construction height allows use in compact spaces
- mounting as single luminaires or as continuous rows with visually seamless reflectors

## Lighting technology

- semi-specular wallwasher with direct asymmetric distribution for uniform illumination of walls, shelving, or panels

## Electrics

Luminaire wired ready for connection | with 5-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

## Housing

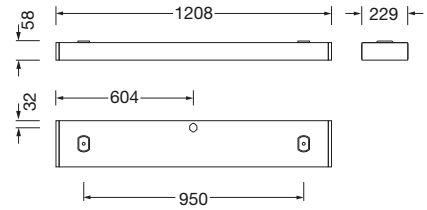
Housing of sheet steel, optionally white aluminum (RAL 9006) or pure white (similar to RAL 9010) | with mounted end caps of plastic, graphite (similar to RAL 7037) or pure white | end caps easily removed for continuous mounting | the reflector is mounted without tools and fixed in housing with springs; it is secured with safety retaining cords and grounded for protection even when suspended

For electrical and suspension accessories of this product family, see **page 2.51 ff.**

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This means that luminous flux and power consumption can also change. The latest specific values can be found in the photometric report of each product and in the current download files of the lighting planning data.

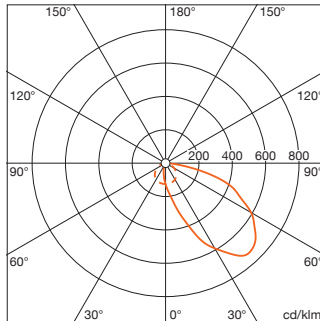


LED



4050737514024  
5LF519D1ZW

1 x LED 4000K / CRI ≥ 80  $\phi_N$  4700 lm



$I_{max}$  732 cd/klm at  $\gamma$  45°

**Siteco® Louvre Luminaire M LED for continuous row or single mounting with wallwasher for wall and panel illumination**

Luminaire for single or continuous row mounting; for ceiling surface mounting  
 — with semi-specular wallwasher, direct asymmetric distribution  
 — with ECG DALI  
 — housing of sheet steel, optionally white aluminum (RAL 9006) or luminaire pure white (similar to RAL 9010)

- end caps of plastic, end caps in graphite (similar to RAL 7037), or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- includes installed end caps

- luminaire with fitted end caps (length = L); please remove end caps for continuous row mounting or latticed arrangements (housing length without end caps:  $l_1 = l - 2 \times 15\text{mm}$ )



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

Pure white

LED	3000	>80	3960	58	3.9	DALI	4050737530284	5LF519D1ZW002
LED	4000	>80	4700	59	3.9	DALI	4050737514024	5LF519D1ZW

White aluminum (RAL 9006)

LED	3000	>80	3960	58	3.9	DALI	4050737530260	5LF519D1ZS002
LED	4000	>80	4700	59	3.9	DALI	4050737530246	5LF519D1ZS

- height specification H: Housing height incl. ceiling-side passages and housing embossments



# Siteco® Louvre Luminaire M wallwasher for T16 lamps



The classic, direct-distribution surface-mounted luminaires in the Siteco® Louvre Luminaire M family create optimum light output ratios. This is ensured by the specially designed housing dimensions, high-performance louver optics, and efficient T16 lamps with electronic control gears (standard equipment).

The classic wallwasher is characterized by a concise linear design and functional lighting technology. It has direct asymmetric light distribution for homogeneous, deep illumination of walls, shelves, and panels.

Continuous row mounting with optically seamless lighting technology is possible due to the removable end caps.

## Features

- standard-compliant solution for glare-free panel lighting
- asymmetric light distribution for the deep, homogeneous illumination of walls, shelves, and panels
- classic lighting technology for T16 fluorescent lamps with good price-performance ratio
- consistent design solution due to linear shape
- mounting as single luminaires or as continuous rows with visually seamless reflectors

## Lighting technology

- semi-specular wallwasher with direct asymmetric distribution for uniform illumination of walls, shelving, or panels

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5 mm<sup>2</sup>

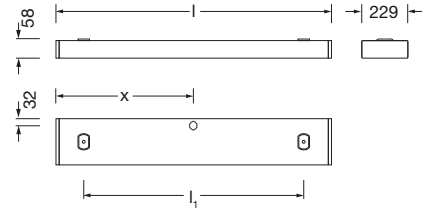
## Housing

Housing of sheet steel, optionally white aluminum (RAL 9006) or pure white (similar to RAL 9010) | with mounted end caps of plastic, graphite (similar to RAL 7037) or pure white | end caps easily removed for continuous mounting | the reflector is mounted without tools and fixed in housing with springs; it is secured with safety retaining cords and grounded for protection even when suspended

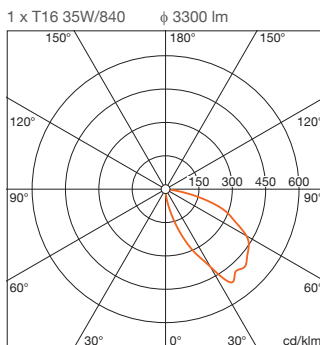
For electrical and suspension accessories of this product family, see **page 2.51 ff.**



T16  
G5



4039806579256  
5LF51971QW



**Siteco® Louvre Luminaire M for continuous rows or single mounting | for T16 lamps with wallwasher for wall and panel illumination**

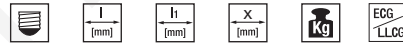
Luminaire for single or continuous row mounting; for ceiling surface mounting  
 — with semi-specular wallwasher, direct asymmetric distribution  
 — with ECG  
 — housing of sheet steel, optionally white aluminum (RAL 9006) or luminaire pure white (similar to RAL 9010)

- end caps of plastic, end caps in graphite (similar to RAL 7037), or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- includes installed end caps

- luminaire with fitted end caps (length = L); please remove end caps for continuous row mounting or latticed arrangements (housing length without end caps:  $L_1 = L - 2 \times 15\text{mm}$ )



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

Pure white

	Lamp	L [mm]	H [mm]	X [mm]	KG	ECG/LLCG	OSRAM	Siteco
1x T16 28/54 W	G5	1208	950	604	3.8	Multi	4039806862907	5LF51971HW
1x T16 28/54 W	G5	1208	950	604	3.9	Multi DALI	4050737006284	5LF519D1HW
1x T16 28/54 W	G5	1208	950	604	3.9	Multi 1...10V	4050737006192	5LF51961HW
1x T16 35/49/80 W	G5	1508	1250	754	4.6	Multi	4039806579256	5LF51971QW
1x T16 35/49/80 W	G5	1508	1250	754	4.6	Multi DALI	4050737006352	5LF519D1QW
1x T16 35/49/80 W	G5	1508	1250	754	4.6	Multi 1...10V	4050737006253	5LF51961QW

White aluminum (RAL 9006)

	Lamp	L [mm]	H [mm]	X [mm]	KG	ECG/LLCG	OSRAM	Siteco
1x T16 28/54 W	G5	1208	950	604	3.9	Multi DALI	4050737006260	5LF519D1HS
1x T16 35/49/80 W	G5	1508	1250	754	4.6	Multi DALI	4050737006321	5LF519D1QS
1x T16 35/49/80 W	G5	1508	1250	754	4.6	Multi 1...10V	4050737006222	5LF51961QS

- height specification H: Housing height + shadow gap on mounting surface



**Luminaire families with ELDAICON® or HDP®**



Quadrature® 2 LED  
ELDAICON®

Page 4.7



Quadrature® 2  
ELDAICON®

Page 4.11



Mira® LED  
ELDAICON®

Page 4.15



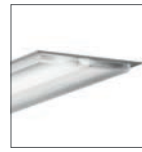
Mira® T16  
ELDAICON®

Page 4.19



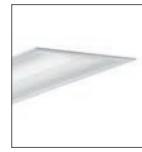
Novaluna®  
ELDAICON® direct  
distribution

Page 4.23



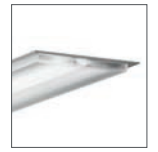
Novaluna®  
ELDAICON® with  
ceiling illumination

Page 4.23



Novaluna®  
HDP® direct  
distribution

Page 4.23



Novaluna®  
HDP® with ceiling  
illumination

Page 4.23

**Luminaire families with various lighting technologies**



TECARIO®  
frosted

Page 4.41



TECARIO®  
HDP®

Page 4.41



TECARIO®  
CAT louvre

Page 4.41



Siteco® Louvre  
Luminaire XS  
CAT louvre

Page 4.63



Siteco® Louvre  
Luminaire XS  
ribbed aluminum  
louvre

Page 4.63



Siteco® Louvre  
Luminaire XS  
opal

Page 4.63

**Luminaire families with opal diffuser optics**



LEDVANCE®  
AREA

Page 4.37



OSRAM  
DEDRA plus® LED

Page 4.71

**Luminaire families with secondary lighting technology**



SiLUNA®  
secondary  
reflector  
perforated

Page 4.57



SiLUNA®  
secondary  
reflector  
prismatic

Page 4.57



SiLUNA®  
secondary  
reflector  
opal

Page 4.57

**Luminaire families with louvre optics**



OSRAM  
DEDRA plus®

Page 4.75



Siteco® Louvre  
Luminaire  
M LED

Page 4.79



Siteco® Louvre  
Luminaire M

Page 4.81



Siteco® Louvre  
Luminaire

Page 4.89













**Luminaire families with wallwasher reflector**



Siteco® Louvre  
Luminaire Plus






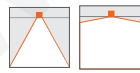
Page 4.99



							
		Quadrature <sup>®</sup> 2 LED	Quadrature <sup>®</sup> 2	Mira <sup>®</sup> LED	Mira <sup>®</sup>	Novaluna <sup>®</sup>	LEDVANCE <sup>®</sup> AREA
<b>Light source</b>	LED	■		■			■
	T16		■		■	■	
	T26						
	TC-LEL						
<b>Lighting technology</b>	ELDACON <sup>®</sup>	■	■	■	■	■	
	HDP <sup>®</sup>					■	
	frosted diffuser						
	opal diffuser						■
	louver optics						
	secondary optics						
	wallwasher						
<b>UGR rating</b>	≤ 16		■			■*	
	≤ 19	■		■	■		
	≤ 22					■	
	≤ 25						
<b>Suitable for VDU use (CAT)</b> depending on version	■	■	■	■	■**/_**	■	
<b>Light distribution</b>							
<b>Arrangement</b>	single	■	■	■	■	■	■
	row						













\* with ELDACON<sup>®</sup>  
 \*\* with HDP<sup>®</sup>  
 \*\*\* with specular louver  
 \*\*\*\* with frosted diffuser  
 D row arrangement with optically continuous lighting technology (louver, reflector, cover)



		
OSRAM DEDRA plus® LED	TECARIO®	Siteco® Louvre Luminaire XS
■		
	■	■
	■	
	■	
■		
	■	■
	■**/**	
	■**/**	■
	■**/**	
-	■**/-	■**/-
		
■	■	■
	■ <sup>D</sup>	■ <sup>D</sup>



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		SiLUNA®	Siteco® Louvre Luminaire M LED	Siteco® Louvre Luminaire M	OSRAM DEDRA plus®	Siteco® Louvre Luminaire	Siteco® Louvre Luminaire Plus
<b>Light source</b>	LED		■				
	T16	■		■	■		
	T26					■	■
	TC-LEL	■					
<b>Lighting technology</b>	ELDACON®						
	HDP®						
	frosted diffuser	■					
	opal diffuser	■			■		
	louver optics		■	■		■	
	secondary optics	■					
	wallwasher						■
<b>UGR rating</b>	≤ 16					■***	
	≤ 19		■	■		■	
	≤ 22	■		■		■	
	≤ 25	■					
<b>Suitable for VDU use (CAT)</b> depending on version	■/-	■	■***/-	-	■***/-	-	
<b>Light distribution</b>							
<b>Arrangement</b>	single	■	■	■	■	■	■
	row			■ <sup>D</sup>			■ <sup>D</sup>

\* with HDP®  
 \*\* with ELDACON®  
 \*\*\* with specular louver  
 D row arrangement with optically continuous lighting technology (louver, reflector, cover)



## Quadrature<sup>®</sup> 2 LED



The Quadrature<sup>®</sup> 2 LED family is characterized by a very slimline construction, a purist design and state-of-the-art lighting technology. The linear fluorescent luminaires are equipped with the patented ELDAICON<sup>®</sup> light control system. This creates homogeneous, glare-free light distribution upon the working plane. The balanced contrast creates a pleasant atmosphere and lighting that complies with standards for computer screen workstations.

This allows an office layout independent of the arrangement of luminaires, enabling a high level of flexibility for interior design.

### Features

- compact, especially flat housing formed from a single aluminum profile
- a complete luminaire family of recessed, surface-mounted, rail and suspended variations
- extremely flat CAT luminaire, made possible with the use of transparent ELDAICON<sup>®</sup> microprismatic technology
- reduced reflected glare even directly below the luminaire
- flexibility for interior design with an independent luminaire arrangement within the room – even directly above workstations
- glare rating UGR < 19
- good cylindrical illuminance levels
- recessed luminaires for simple, rapid installation with Linect<sup>®</sup> interface, compatible with plug connection systems of various manufacturers

### Lighting technology

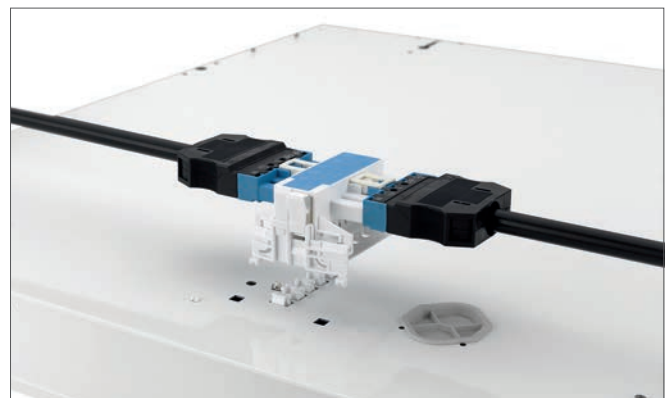
ELDAICON<sup>®</sup> microprismatic technology for optimal restriction of reflected and direct glare | homogeneous luminance over the entire light emission surface | reduced reflected glare below luminaire, enabling independent luminaire arrangements in room, even directly above workstations | direct light distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ ) | glare rating UGR < 19

### Electrics

Luminaire wired ready for connection | with 5-pole Linect<sup>®</sup> connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

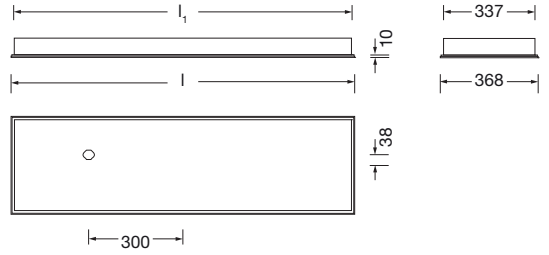
### Housing

Visible frame of extruded aluminum, anodized, brushed vertical sides, highly specular underside; upper housing part of sheet steel, white aluminum (RAL 9006); ELDAICON<sup>®</sup> of PMMA



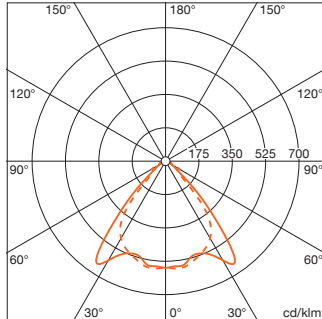


LED



4050737116815  
5MQ128DL3P

1 x LED 3000K / CRI ≥ 80  $\phi_N$  4040 lm



$\phi_d$  100%  $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1466	607
L <sub>70</sub>	1417	828
L <sub>65</sub>	1153	1379

UGR 16.4 14.8

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	0.6	0.7	1.2	1.3	2.9	3.4
30 m <sup>2</sup>	1.0	1.1	2.0	2.2	5.0	5.5
40 m <sup>2</sup>	1.2	1.4	2.5	2.8	6.2	6.9
50 m <sup>2</sup>	1.5	1.7	3.0	3.3	7.5	8.3
75 m <sup>2</sup>	2.3	2.5	4.7	5.0	12	12
100 m <sup>2</sup>	2.9	3.1	5.9	6.2	15	16
500 m <sup>2</sup>	14	14	28	29	70	72

Maintenance factor 0.8

Rh = Lh

**Quadrature® 2 LED | CAT2 with ELDAICON® rectangular**

Single luminaire for ceiling recessing  
 — with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )  
 — with ECG DALI  
 — visible frame of extruded aluminum, anodized, brushed vertical sides, highly specular underside

- upper housing part of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20 (IP43 for light emission aperture)
- insulation class: I



Light source



Order no. OSRAM

Order no. Siteco

for M600 and for cut ceiling aperture

	K	Ra	lm	W	I [mm]	It [mm]	Kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	4100	78	1197	1171	10.2	DALI	4050737116815	5MQ128DL3P
LED	4000	> 80	4400	74	1197	1171	10.2	DALI	4050737116839	5MQ128DL4P

for M625 and for cut ceiling aperture

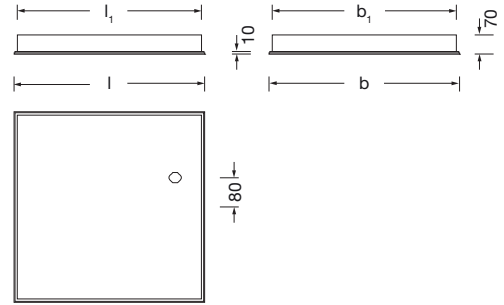
	K	Ra	lm	W	I [mm]	It [mm]	Kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	4100	78	1247	1221	10.5	DALI	4050737101972	5MQ118DL3P
LED	4000	> 80	4400	74	1247	1221	10.5	DALI	4050737101996	5MQ118DL4P

— lay-in mounting not possible (please order mounting accessories separately)

**Mandatory accessories (for details see page 4.10)**

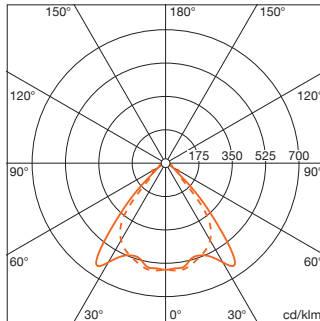
Designation	PU	Order no. OSRAM	Order no. Siteco
Rapid-mounting bracket, clamping range 31...42mm	set of 4	4039806504463	5LM59105
Rapid-mounting bracket, clamping range 45...56mm	set of 4	4039806204929	5LM59103
Rapid-mounting bracket, clamping range 56...78mm	set of 4	4039806213853	5LM59104





4050737116662  
5MQ128DL3Y

1 x LED 3000K / CRI ≥ 80  $\phi_{N}$  3525 lm



$\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1509	626
L <sub>70</sub>	1460	852
L <sub>65</sub>	1188	1420

UGR 16.5 14.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.7	0.8	1.3	1.5	3.3	3.9
30 m <sup>2</sup>	1.1	1.3	2.3	2.5	5.7	6.3
40 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.1	7.9
50 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.6	9.5
75 m <sup>2</sup>	2.7	2.9	5.3	5.7	13	14
100 m <sup>2</sup>	3.4	3.6	6.7	7.1	17	18
500 m <sup>2</sup>	16	17	32	33	81	83

Maintenance factor 0.8

Rh = Lh

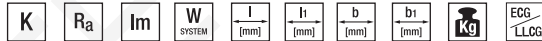
### Quadrature® 2 LED | CAT2 with ELDAICON® square

Single luminaire for ceiling recessing  
 — with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )  
 — with ECG DALI  
 — visible frame of extruded aluminum, anodized, brushed vertical sides, highly specular underside

- upper housing part of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20 (IP43 for light emission aperture)
- insulation class: I



Light source



Order no.  
OSRAM

Order no.  
Siteco

for M600 and for cut ceiling aperture

	LED	3000	> 80	3600	77	597	578	597	576	8.4	DALI	4050737116662	5MQ128DL3Y
LED	4000	> 80	3600	77	597	578	597	576	8.4	DALI	4050737116686	5MQ128DL4Y	

for M625 and for cut ceiling aperture

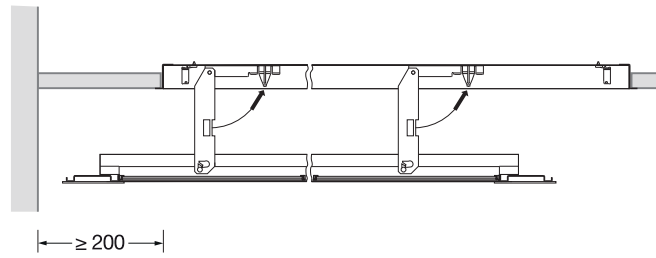
	LED	3000	> 80	3700	77	622	600	622	601	8.9	DALI	4050737116624	5MQ118DL3Y
LED	4000	> 80	3700	77 <td>622</td> <td>600</td> <td>622</td> <td>601</td> <td>8.9</td> <td>DALI</td> <td>4050737116648</td> <td>5MQ118DL4Y</td>	622	600	622	601	8.9	DALI	4050737116648	5MQ118DL4Y	

— lay-in mounting not possible (please order mounting accessories separately)

### Mandatory accessories (for details see page 4.10)

Designation	PU	Order no. OSRAM	Order no. Siteco
Rapid-mounting bracket, clamping range 31...42mm	set of 4	4039806504463	5LM59105
Rapid-mounting bracket, clamping range 45...56mm	set of 4	4039806204929	5LM59103
Rapid-mounting bracket, clamping range 56...78mm	set of 4	4039806213853	5LM59104

### Quadrature® 2 LED recessed-luminaire mounting information



### Quadrature® 2 LED recessed-luminaire mounting accessories



#### Rapid-mounting bracket

for support profiles or contact surfaces positioned longitudinally to the luminaire | steel, galvanized

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 31...42mm	set of 4	4039806504463	5LM59105
Clamping range 45...56mm	set of 4	4039806204929	5LM59103
Clamping range 56...78mm	set of 4	4039806213853	5LM59104

— 4 units required per luminaire

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## Quadrature<sup>®</sup> 2



The Quadrature<sup>®</sup> 2 family is characterized by a very slimline construction, a purist design and state-of-the-art lighting technology. The linear fluorescent luminaires are equipped with the patented ELDAICON<sup>®</sup> light control system. This creates a homogeneous, glare-free light distribution upon the working plane. The balanced contrast creates a pleasant atmosphere and lighting that complies with standards for computer screen workstations.

This allows an office layout independent of the arrangement of luminaires, enabling a high level of flexibility for interior design.

### Features

- compact, especially flat housing formed from a single aluminum profile
- a complete luminaire family of recessed, surface-mounted, rail and suspended variations
- extremely flat CAT luminaire, made possible with the use of transparent ELDAICON<sup>®</sup> microprismatic technology
- reduced reflected glare even directly below the luminaire
- flexibility for interior design with an independent luminaire arrangement within the room – even directly above workstations
- glare rating UGR < 16
- good cylindrical illuminance levels
- recessed luminaires for simple, rapid installation with Linect<sup>®</sup> interface, compatible with plug connection systems of various manufacturers

### Lighting technology

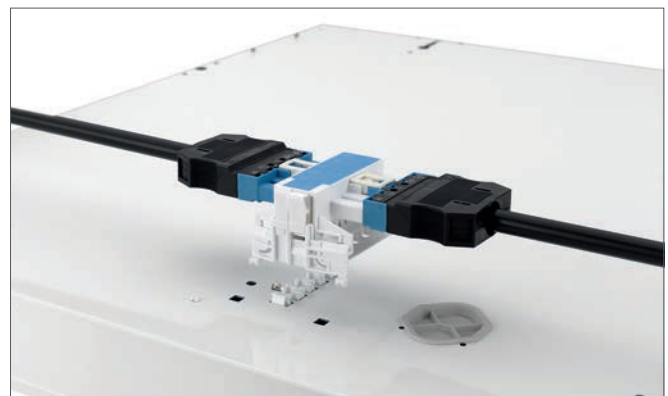
ELDAICON<sup>®</sup> microprismatic technology for optimal restriction of reflected and direct glare | homogeneous luminance over the entire light emission surface without direct view of the light source | reduced reflected glare below luminaire, enabling independent luminaire arrangements in room, even directly above workstations | direct light distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ ) | glare rating UGR < 16 | very high luminaire light output ratio  $\geq 70\%$

### Electrics

Luminaire wired ready for connection | with 3-pole Linect<sup>®</sup> connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

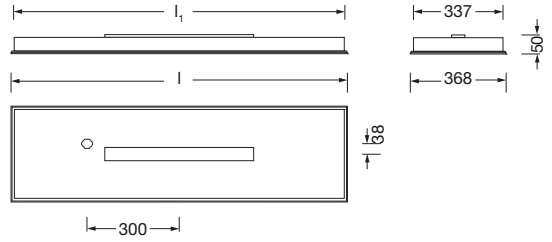
### Housing

Visible frame of extruded aluminum, anodized, brushed vertical sides, highly specular underside; upper housing part of sheet steel, white aluminum (RAL 9006); ELDAICON<sup>®</sup> of PMMA



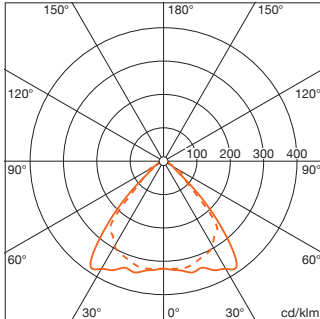


T16  
G5



4050737023946  
5MQ12872P

2 x T16 28W/840  $\phi$  5200 lm



$\eta_{LB}$  69.7%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	727	743
L <sub>70</sub>	718	887
L <sub>65</sub>	932	957

UGR 15.6 15.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Em(lx)	Reflection factors 70/50/20				100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.4	3.9				
30 m <sup>2</sup>	1.1	1.2	2.2	2.5	5.4	6.1				
40 m <sup>2</sup>	1.4	1.6	2.8	3.1	7.0	7.8				
50 m <sup>2</sup>	1.7	1.8	3.4	3.7	8.4	9.2				
75 m <sup>2</sup>	2.5	2.7	5.0	5.5	13	14				
100 m <sup>2</sup>	3.3	3.5	6.5	7.0	16	17				
500 m <sup>2</sup>	16	16	31	32	78	80				

Maintenance factor 0.8 Rh = Lh

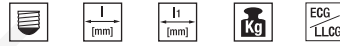
**Quadrature® 2 | CAT2 with ELDAICON® | for T16 lamps rectangular**

Single luminaire for ceiling recessing  
 - with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )  
 - with ECG or ECG DALI  
 - visible frame of extruded aluminum, anodized, brushed vertical sides, highly specular underside

- upper housing part of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20 (IP43 for light emission aperture)
- insulation class: I



**Light source**



Order no. OSRAM Order no. Siteco

for M600 and for cut ceiling aperture

	G5	1197	1171	8.2	ECG	4050737023946	5MQ12872P
2x T16 28W							
2x T16 28W					DALI	4050737024028	5MQ128D2P

for M625 and for cut ceiling aperture

	G5	1247	1221	10.1	ECG	4050737023441	5MQ11872P
2x T16 28W							
2x T16 28W					DALI	4050737023489	5MQ118D2P

for cut ceiling aperture

	G5	897	871	7.5	ECG	4050737023939	5MQ12872N
2x T16 21W							
2x T16 21W					DALI	4050737024011	5MQ128D2N
2x T16 35W					ECG	4050737023960	5MQ12872R
2x T16 35W					DALI	4050737024042	5MQ128D2R

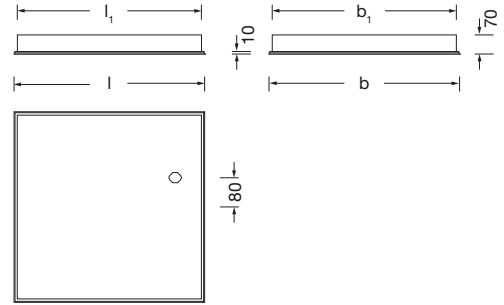
- lay-in mounting not possible (please order mounting accessories separately)

**Mandatory accessories (for details see page 4.14)**

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting bracket for housing: B = 353mm, clamping range 34...45mm	set of 4	4039806204905	5LM59102
for housing: B = 353mm, cl. range 45...56mm   B = 597/622mm, cl. range 59...70mm	set of 4	4039806213853	5LM59104

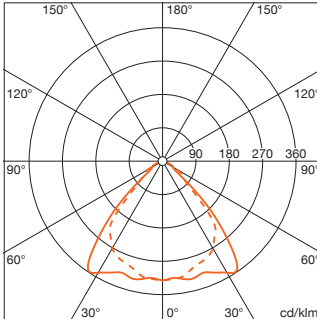


T16  
G5



4050737023984  
5MQ12872Y

2 x T16 24W/840  $\phi$  3500 lm



$\eta_{LB}$  64.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	537	496
L <sub>70</sub>	542	610
L <sub>65</sub>	960	889

UGR 14.7 14

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.2	2.2	2.5	5.5	6.2						
30 m <sup>2</sup>	1.7	2.0	3.5	3.9	8.7	9.8						
40 m <sup>2</sup>	2.2	2.5	4.5	5.0	11	12						
50 m <sup>2</sup>	2.7	2.9	5.4	5.9	14	15						
75 m <sup>2</sup>	4.0	4.4	8.1	8.8	20	22						
100 m <sup>2</sup>	5.2	5.6	10	11	26	28						
500 m <sup>2</sup>	25	26	50	51	125	129						

Maintenance factor 0.8

Rh = Lh

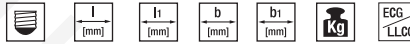
### Quadrature® 2 | CAT2 with ELDAICON® | for T16 lamps square

Single luminaire for ceiling recessing  
 — with ELDAICON®, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )  
 — with ECG or ECG DALI  
 — visible frame of extruded aluminum, anodized, brushed vertical sides, highly specular underside

- upper housing part of sheet steel, white aluminum (RAL 9006)
- protection rating: IP20 (IP43 for light emission aperture)
- insulation class: I



#### Light source



for M600 and for cut ceiling aperture

	G5	597	578	597	576	7.6	ECG	Order no. OSRAM	Order no. Siteco
2x T16 24W	G5	597	578	597	576	7.6	ECG	4050737023984	5MQ12872Y
2x T16 24W	G5	597	578	597	576	7.6	DALI	4050737024066	5MQ128D2Y

for M625 and for cut ceiling aperture

	G5	622	600	622	601	7.6	ECG	Order no. OSRAM	Order no. Siteco
2x T16 24W	G5	622	600	622	601	7.6	ECG	4050737023465	5MQ11872Y
2x T16 24W	G5	622	600	622	601	7.6	DALI	4050737023908	5MQ118D2Y

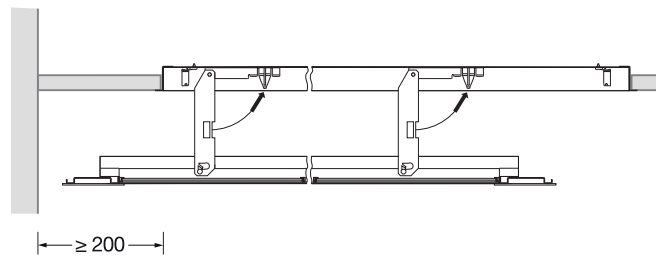
— lay-in mounting not possible (please order mounting accessories separately)

#### Mandatory accessories (for details see page 4.14)

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting bracket for housing: B = 597/622mm, for T-profile H = 38mm	set of 4	4039806202017	5LM59101
Mounting bracket for housing: B = 597/622mm, clamping range 37...48mm	set of 4	4039806204929	5LM59103
for housing: B = 353mm, cl. range 45...56mm   B = 597/622mm, cl. range 59...70mm	set of 4	4039806213853	5LM59104



### Quadrature® 2 recessed-luminaire mounting information



### Quadrature® 2 recessed-luminaire mounting accessories



#### Rapid-mounting bracket

for support profiles or contact surfaces positioned longitudinally to the luminaire | steel, galvanized

Designation	PU	Order no. OSRAM	Order no. Siteco
for luminaire housing: B = 368mm; H = 50mm			
Clamping range 34...45mm	set of 4	4039806204905	5LM59102
Clamping range 45...56mm	set of 4	4039806213853	5LM59104

for luminaire housing: B = 622mm; H = 59mm			
Clamping range 37...48mm	set of 4	4039806204929	5LM59103
Clamping range 59...70mm	set of 4	4039806213853	5LM59104

— 4 units required per luminaire



#### Mounting bracket for T-profiles

for support profiles positioned longitudinally to the luminaire for T-profile: H = 38mm | steel, galvanized

Designation	PU	Order no. OSRAM	Order no. Siteco
for luminaire housing: B = 622mm; H = 59mm			
for T-profiles (clamping height 38mm)	set of 4	4039806202017	5LM59101

— 4 units required per luminaire

# Mira<sup>®</sup> LED



Mira<sup>®</sup> is the intelligent luminaire family for economic office and general lighting. The luminaires are available either with LED or T16 light sources and with square or rectangular design.

The all-round prismatic edge with its specially formed grooves with single luminaires ensures discreet ceiling illumination. A subtle light ceiling is created with groups. Optically, the luminaires of the Mira<sup>®</sup> family utilize specially developed microprismatic technology that ensures uniform light distribution without reflected or direct glare and standard-compliant lighting conditions for computer screen workstations (UGR < 19). The high glare reduction enables free arrangements of screens and workstations in the room which allows for high flexibility during planning.

The LED versions of the Mira<sup>®</sup> family are equipped with OSRAM PrevaLED<sup>®</sup> LED modules and designed for up to 50,000 operating hours. Motion and brightness sensors are available optionally.

## Features

- a complete luminaire family of recessed, surface-mounted and suspended versions
- energy-efficient and maintenance-free LED technology
- available in standard construction forms and module dimensions
- suitable for computer screen workstations due to prismatic technology for optimized luminous efficacy
- homogeneous light distribution without direct or reflected glare (UGR < 19)
- flexible interior designs due to independent luminaire arrangements in the room
- timeless design with high-quality workmanship
- discreet ceiling illumination via all-round prismatic edge
- optionally with sensor technology

## Lighting technology

ELDAICON<sup>®</sup> microprismatic technology for optimal restriction of reflected and direct glare | homogeneous luminance over the entire light emission surface | reduced reflected glare below luminaire, enabling independent luminaire arrangements in room, even directly above workstations | direct medium or wide distribution with discreet ceiling illumination via all-round prismatic edge; medium or wide light distribution characteristic via flexibly mountable prismatic film

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

## Electrics

Luminaire wired ready for connection | with 5-pole Linect<sup>®</sup> connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

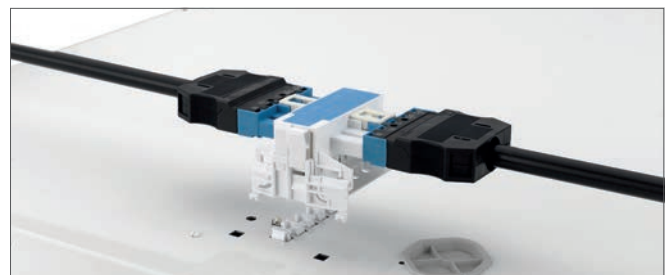
### Luminaire with motion and light sensor:

Fully automatic operation, with sensor-controlled ON/OFF/bright/dark, or manual operation ON/OFF/bright/dark via convenient remote control or on-site push-button | luminaire operates as master, a max. of 32 further luminaires can be switched and dimmed via two DALI outputs

Detailed information: [www.siteco.com](http://www.siteco.com) (navigation: products/indoor luminaires/linear fluorescent luminaires for recessed ceiling mounting/Mira<sup>®</sup> with ELDAICON<sup>®</sup>/...)

## Housing

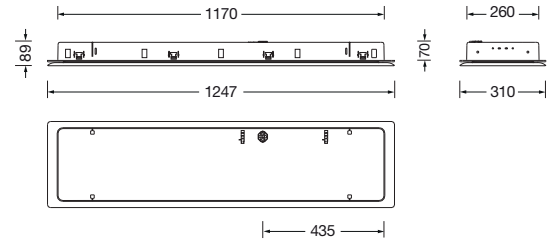
Housing of sheet steel, pure white (similar to RAL 9010); ELDAICON<sup>®</sup> of PMMA



Rapid advances in LED technology lead to permanent improvements in energy efficiency. This means that luminous flux and power consumption can also change accordingly. The latest specific values can be found in the photometric report of each product and in the current download files of the photometric planning data.

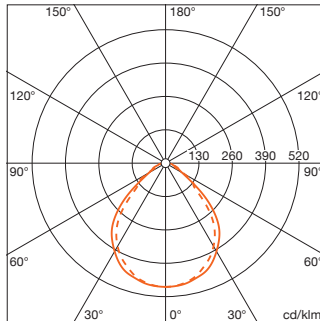


LED



4050737468006  
5LK118D1OW

1 x LED 4000K / CRI ≥ 80  $\phi_N$  6680 lm



$\phi_d$  99%  $\phi_r$  1%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2096	2454
L <sub>70</sub>	2198	2083
L <sub>65</sub>	2148	1725

UGR 18.9 18.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.4	0.5	0.8	0.9	2.0	2.3
30 m <sup>2</sup>	0.6	0.7	1.3	1.4	3.1	3.5
40 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.0	4.5
50 m <sup>2</sup>	1.0	1.1	1.9	2.1	4.9	5.3
75 m <sup>2</sup>	1.4	1.5	2.9	3.1	7.2	7.7
100 m <sup>2</sup>	1.9	2.0	3.7	4.0	9.3	10.0
500 m <sup>2</sup>	8.7	9.0	17	18	44	45

Maintenance factor 0.8

Rh = Lh

**Mira® LED | with ELDAICON® rectangular**

Single luminaire for ceiling recessing  
 — with ELDAICON® New Generation, direct distribution  
 — discreet illumination of housing edge via all-round prismatic edge

- with ECG DALI
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20 (IP50 on room side)
- insulation class: I



**Light source**

K

R<sub>a</sub>

lm

W SYSTEM

kg

ECG LLLCG

Order no. OSRAM

Order no. Siteco

for M600 and for cut ceiling aperture

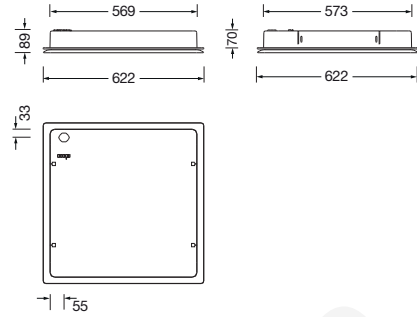
LED	4000	> 80	4380	46	7.6	DALI	4050737467962	5LK128D1ZW
LED	4000	> 80	6680	75	7.6	DALI	4050737468181	5LK128D1OW

for M625 and for cut ceiling aperture

LED	4000	> 80	4380	46	7.8	DALI	4050737467986	5LK118D1ZW
LED	4000	> 80	6680	75	7.7	DALI	4050737468006	5LK118D1OW

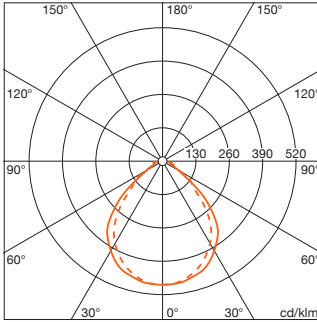


LED



4050737100203  
5LK118D1GW

1 x LED 4000K / CRI ≥ 80     $\phi_N$  3740 lm



$\phi_d$  99%     $\phi_r$  1%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1756	1371
L <sub>70</sub>	895	1256
L <sub>65</sub>	1016	1024

UGR 17.3    16.4  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.6	4.1
30 m <sup>2</sup>	1.1	1.3	2.2	2.5	5.6	6.3
40 m <sup>2</sup>	1.4	1.6	2.9	3.2	7.2	7.9
50 m <sup>2</sup>	1.7	1.9	3.5	3.8	8.7	9.5
75 m <sup>2</sup>	2.6	2.8	5.2	5.5	13	14
100 m <sup>2</sup>	3.3	3.6	6.7	7.1	17	18
500 m <sup>2</sup>	16	16	31	32	78	80

Maintenance factor 0.8

Rh = Lh

**Mira® LED | with ELDAICON® square**

Single luminaire for ceiling recessing  
 — with ELDAICON® New Generation, direct distribution  
 — discreet illumination of housing edge via all-round prismatic edge

- with ECG DALI
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20 (IP50 on room side)
- insulation class: I



**Light source**

K

R<sub>a</sub>

Im

W SYSTEM

kg

EGG LLCG

**Order no. OSRAM**

**Order no. Siteco**

for M600 and for cut ceiling aperture

LED	4000	> 80	1920	21	6.5	DALI	4050737117249	5LK128D1DW
LED	4000	> 80	3740	42	6.5	DALI	4050737100227	5LK128D1GW

for M625 and for cut ceiling aperture

LED	4000	> 80	1920	21	6.7	DALI	4050737117065	5LK118D1DW
LED	4000	> 80	3740	42	6.7	DALI	4050737100203	5LK118D1GW

**Mira® recessed luminaire | mounting accessories**



**Rapid-mounting bracket**

for support profiles or mounting surfaces positioned longitudinally to the luminaire

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 21...36mm	set of 4	4039806133953	5LF90014XC
Clamping range 36...50mm	set of 4	4039806137593	5LF90024XC

— set of 4: 4 units required per luminaire

**Rapid-mounting bracket (not shown)**

with wide mounting surface for direct mounting on gypsum wallboard

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 1...15mm	set of 4	4039806443199	5LF90005XC

— set of 4: 4 units required per luminaire

www.TESLI.com





# Mira® T16



Mira® is the intelligent luminaire family for economic office and general lighting. The luminaires are available either with LED or T16 light sources and with square or rectangular design.

The all-round prismatic edge with its specially formed grooves with single luminaires ensures discreet ceiling illumination. A subtle light ceiling is created with groups. Optically, the luminaires of the Mira® family utilize specially developed microprismatic technology that ensures uniform light distribution without reflected or direct glare and standard-compliant lighting conditions for computer screen workstations (UGR < 19). The high glare reduction enables free arrangements of screens and workstations in the room which allows for high flexibility during planning.

The T16 versions of the Mira® Family are equipped with ECG Multiwatt for operation with lamps of varying wattages. Relamping is performed tool-free. Motion and brightness sensors are available optionally.

## Features

- a complete luminaire family of recessed, surface-mounted and suspended versions
- economic operation with T16 fluorescent lamps
- available in standard construction forms and module dimensions
- suitable for computer screen workstations due to prismatic technology for optimized luminous efficacy
- homogeneous light distribution without direct or reflected glare (UGR < 19)
- flexible interior designs due to independent luminaire arrangements in the room
- timeless design with high-quality workmanship
- discreet ceiling illumination via all-round prismatic edge
- optionally with sensor technology

## Lighting technology

ELDAICON® microprismatic technology for optimal restriction of reflected and direct glare | homogeneous luminance over the entire light emission surface | reduced reflected glare below luminaire, enabling independent luminaire arrangements in room, even directly above workstations | direct medium or wide distribution with discreet ceiling illumination via all-round prismatic edge; optionally medium or wide light distribution characteristic with flexibly mountable prismatic film

## Electrics

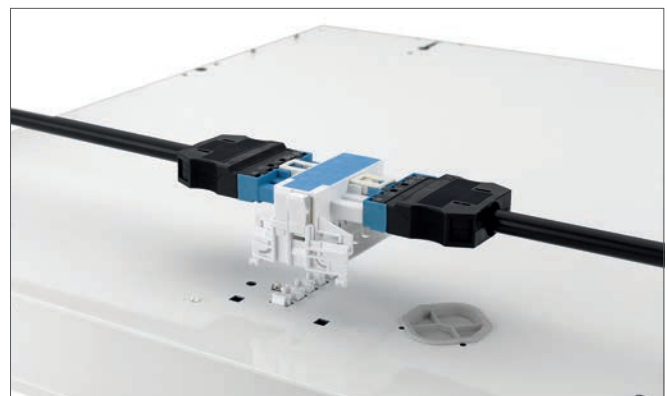
Luminaire wired ready for connection | with 3-pole Linect® connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm²

## Luminaire with motion and light sensor:

Fully automatic operation, with sensor-controlled ON/OFF/bright/dark, or manual operation ON/OFF/bright/dark via convenient remote control or on-site push-button | luminaire operates as master, a max. of 32 further luminaires can be switched and dimmed via two DALI outputs

## Housing

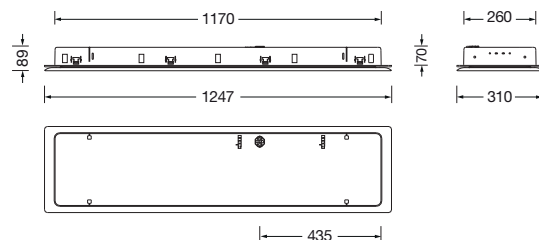
Housing of sheet steel, pure white (similar to RAL 9010); ELDAICON® of PMMA



For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

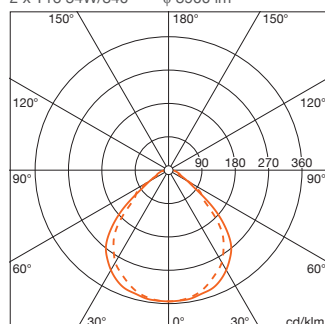


T16  
G5



4050737468068  
5LK11872HW

2 x T16 54W/840  $\phi$  8900 lm



$\eta_{LB}$  77.8%  $\phi_{\downarrow}$  99%  $\phi_{\uparrow}$  1%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2132	2326
L <sub>70</sub>	1971	1979
L <sub>65</sub>	1982	1733

UGR 19 18.1

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.4	0.4	0.8	0.9	2.0	2.2
30 m <sup>2</sup>	0.6	0.7	1.2	1.4	3.1	3.4
40 m <sup>2</sup>	0.8	0.9	1.6	1.7	3.9	4.3
50 m <sup>2</sup>	0.9	1.0	1.9	2.1	4.7	5.2
75 m <sup>2</sup>	1.4	1.5	2.8	3.0	7.0	7.5
100 m <sup>2</sup>	1.8	1.9	3.6	3.9	9.0	9.6
500 m <sup>2</sup>	8.4	8.7	17	17	42	44

Maintenance factor 0.8

Rh = Lh

### Mira® T16 | with ELDAICON® rectangular

Single luminaire for ceiling recessing  
 — with ELDAICON® New Generation, direct distribution  
 — discreet illumination of housing edge via all-round prismatic edge

- with ECG Multiwatt or ECG Multiwatt DALI
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20 (IP50 on room side)
- insulation class: I



#### Light source



for M600 and for cut ceiling aperture

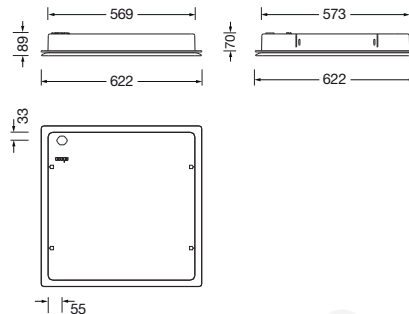
				Order no. OSRAM	Order no. Siteco
1x T16 28/54W	G5	5.9	Multi	4050737468105	5LK12871HW
1x T16 28/54W	G5	5.9	Multi DALI	4050737468143	5LK128D1HW
2x T16 28/54W	G5	6.0	Multi	4050737468129	5LK12872HW
2x T16 28/54W	G5	6.0	Multi DALI	4050737468167	5LK128D2HW

for M625 and for cut ceiling aperture

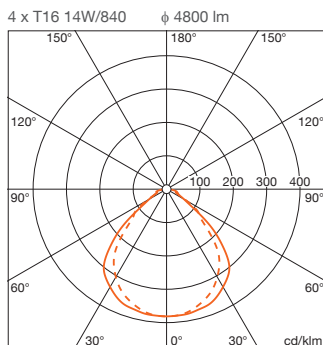
				Order no. OSRAM	Order no. Siteco
1x T16 28/54W	G5	6.1	Multi	4050737468044	5LK11871HW
1x T16 28/54W	G5	6.1	Multi DALI	4050737468020	5LK118D1HW
2x T16 28/54W	G5	6.2	Multi	4050737468068	5LK11872HW
2x T16 28/54W	G5	6.2	Multi DALI	4050737468082	5LK118D2HW



T16  
G5



4050737117041  
5LK11874BW



$\eta_{LB}$  83.3%  $\phi_{\downarrow}$  99%  $\phi_{\uparrow}$  1%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1574	1424
L <sub>70</sub>	1011	1270
L <sub>65</sub>	1132	1138

UGR 17.5 16.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	0.7	0.8	1.4	1.5	3.4	3.9
30 m <sup>2</sup>	1.1	1.2	2.1	2.3	5.3	5.9
40 m <sup>2</sup>	1.3	1.5	2.7	3.0	6.7	7.5
50 m <sup>2</sup>	1.6	1.8	3.2	3.6	8.1	8.9
75 m <sup>2</sup>	2.4	2.6	4.8	5.2	12	13
100 m <sup>2</sup>	3.1	3.3	6.2	6.6	16	17
500 m <sup>2</sup>	15	15	29	30	73	75

Maintenance factor 0.8 Rh = Lh

**Mira® T16 | with ELDAICON® square**

- Single luminaire for ceiling recessing
- with ELDAICON® New Generation, direct distribution
- discreet illumination of housing edge via all-round prismatic edge

- with ECG Multiwatt or ECG Multiwatt DALI
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20 (IP50 on room side)
- insulation class: I



**Light source**



for M600 and for cut ceiling aperture

				Order no. OSRAM	Order no. Siteco
4x T16 14/24 W	G5	5.6	Multi	4050737117188	5LK12872BW
2x T16 14/24 W	G5	5.6	Multi DALI	4050737117287	5LK128D2BW
4x T16 14/24 W	G5	5.8	Multi	4050737117225	5LK12874BW
4x T16 14/24 W	G5	5.8	Multi DALI	4050737117324	5LK128D4BW

for M625 and for cut ceiling aperture

4x T16 14/24 W	G5	5.8	Multi	4050737117003	5LK11872BW
2x T16 14/24 W	G5	5.8	Multi DALI	4050737117102	5LK118D2BW
4x T16 14/24 W	G5	6.0	Multi	4050737117041	5LK11874BW
4x T16 14/24 W	G5	6.0	Multi DALI	4050737117140	5LK118D4BW

**Mira® recessed-luminaire | mounting accessories****Rapid-mounting bracket**

for support profiles or mounting surfaces positioned longitudinally to the luminaire

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 21...36mm	set of 4	4039806133953	5LF90014XC
Clamping range 36...50mm	set of 4	4039806137593	5LF90024XC

— set of 4: 4 units required per luminaire

**Rapid-mounting bracket (not shown)**

with wide mounting surface for direct mounting on gypsum wallboard

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 1...15mm	set of 4	4039806443199	5LF90005XC

— set of 4: 4 units required per luminaire

## Novaluna<sup>®</sup>



The luminaires of the Novaluna<sup>®</sup> family are characterized by a purist design and slimline construction. The microprismatic structures ensure homogeneous, glare-free light distribution. The balanced contrast creates a pleasant atmosphere and lighting that complies with standards for computer screen workstations, independent of the arrangement of luminaires within the room.

These characteristics qualify the luminaire for use within rooms having high demands for glare reduction (with ELDAICON<sup>®</sup>: UGR < 16, with HDP<sup>®</sup>: UGR < 19). The luminaires feature T16 lamp configurations for high light output ratios.

### Features

- complete family of surface-mounted, recessed, semi-recessed, suspended and design variations for a wide spectrum of applications
- combination of secondary and prismatic technology in very flat construction
- two different prismatic technologies for differing glare reduction requirements:
  - with ELDAICON<sup>®</sup>: UGR < 16, with HDP<sup>®</sup>: UGR < 19
- ELDAICON<sup>®</sup> microprismatic technology for optimal restriction of reflected and direct glare
- with HDP<sup>®</sup>: multi-level glare restriction via inner V-prisms for homogeneous, reduced luminance values within beam area
- semi-recessed luminaires with all-round ceiling illumination for good luminance levels and a friendly spacial ambiance
- precise light control via the large, prismatic light emission surface creates light distribution with balanced contrasts and allows a free arrangement of luminaires within the room
- especially high light output ratios of up to 90% with semi-recessed versions and up to 80% with recessed versions
- flexibility via multiwatt technology for exchangeable lumen packages
- low recess depth due to flat design (33mm with semi-recessed version, 48mm with recessed version)
- recessed luminaires for simple, rapid installation with Linect<sup>®</sup> interface, compatible with plug connection systems of various manufacturers





### Lighting technology

The combination of secondary and prismatic technology as well as the large light emission surface enable efficient and precise light control with especially reduced, homogeneous luminance levels | luminaire with direct distribution, semi-recessed version with integrated all-round indirect component via lateral prismatic optics:

- ELDAICON® microprismatic technology for optimal restriction of reflected and direct glare; CAT2 ( $L \leq 1000\text{cd/m}^2$ ); UGR < 16, especially suitable for the standard-compliant illumination of computer screen workstations
- High Definition Prismatics (HDP®) with multi-level glare reduction via inner V-prisms for uniform and reduced luminance in the light emission area and with good limitation of direct glare; UGR < 19

### Extremely high light output ratios:

Up to 90% with 1-lamp configuration  
Up to 72% with twin lamp configuration  
(with version for High Efficiency (HE) lamps)

### Electrics

Luminaire wired ready for connection | with 3-pole Linect® connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max.  $2.5\text{mm}^2$  | with ECG or ECG DALI; for ECG 1...10V version, see [www.siteco.com](http://www.siteco.com)

### Housing

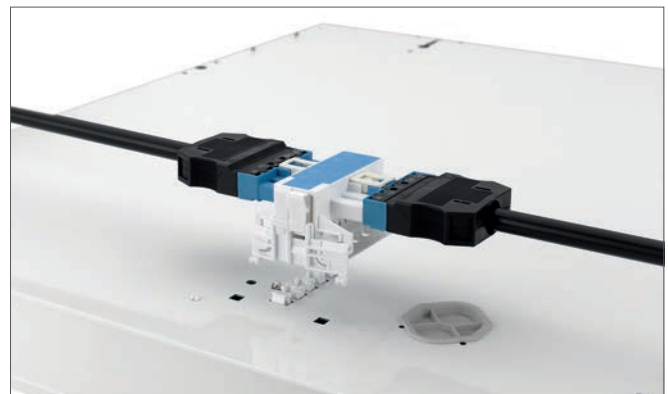
Luminaire housing, white aluminum (RAL 9006) or pure white (similar to RAL 9010); cover of PMMA

### Mounting information:

Lay-in mounting in system ceilings without accessories:

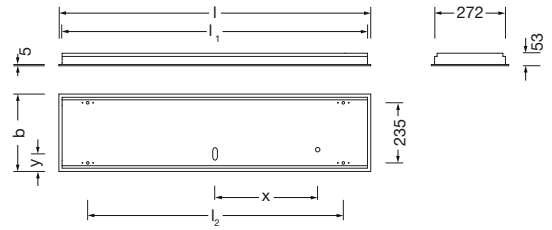
If only the intermediate cavity exactly above the ceiling aperture is available for installation, the required mounting dimension is  $MT \geq 25\text{cm}$

If the ceiling cavity to the sides of the ceiling cut-out can be used for recessing (e.g. if no support rods exist as part of the ceiling construction), the required minimum mounting dimension is  $MT_{\min} = 17\text{cm}$

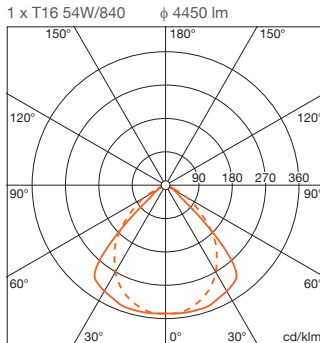




T16  
G5



4050737651705  
5MC11B71HS



$\eta_{LB}$  70%  $\phi_d$  100%  $\phi_r$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	396	198
L <sub>70</sub>	539	411
L <sub>65</sub>	725	854

UGR 14.1 14.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	
20 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.0	4.6						
30 m <sup>2</sup>	1.3	1.4	2.6	2.8	6.4	7.1						
40 m <sup>2</sup>	1.6	1.8	3.2	3.6	8.1	9.1						
50 m <sup>2</sup>	2.0	2.2	3.9	4.3	9.9	11						
75 m <sup>2</sup>	3.0	3.1	6.0	6.3	15	16						
100 m <sup>2</sup>	3.8	4.1	7.6	8.2	19	20						
500 m <sup>2</sup>	18	19	36	37	91	94						

Maintenance factor 0.8

Rh = Lh

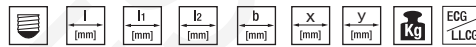
**Novaluna® | with ELDAICON®**  
**rectangular | direct distribution**

- Single luminaire for ceiling recessing
- with ELDAICON®, CAT2 (L ≤ 1000cd/m<sup>2</sup>), direct distribution
- with ECG Multiwatt

- housing of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



**Order no.**  
**OSRAM**

**Order no.**  
**Siteco**

for M600 and for cut ceiling aperture, pure white

		G5	597	574	300	297	270	52	3.6	Multi DALI	4050737651774	5MC12BD1BW
1x T16 14/24W												
1x T16 28/54W										Multi	4050737651767	5MC12B71HW
1x T16 28/54W										Multi DALI	4050737651781	5MC12BD1HW

for M625 and for cut ceiling aperture, pure white

		G5	623	586	300	309	270	54	3.7	Multi	4050737651699	5MC11B71BW
1x T16 14/24W												
1x T16 28/54W										Multi	4050737651712	5MC11B71HW

for M625 and for cut ceiling aperture, white aluminum (RAL 9006)

		G5	623	586	300	309	270	54	3.9	Multi	4050737651682	5MC11B71BS
1x T16 14/24W												
1x T16 28/54W										Multi	4050737651705	5MC11B71HS
1x T16 28/54W										Multi DALI	4050737651743	5MC11BD1HS

for cut ceiling aperture, pure white

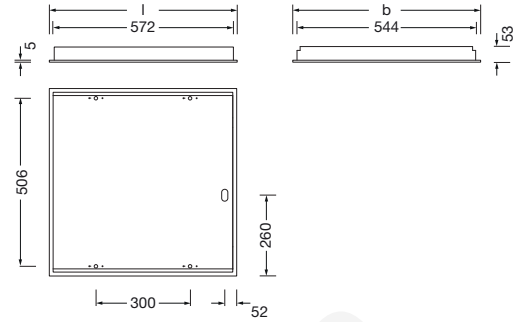
		G5	1547	1510	1300	309	-	74	8.8	Multi	4050737651736	5MC11B71QW
1x T16 35/49/80W												

for cut ceiling aperture, white aluminum (RAL 9006)

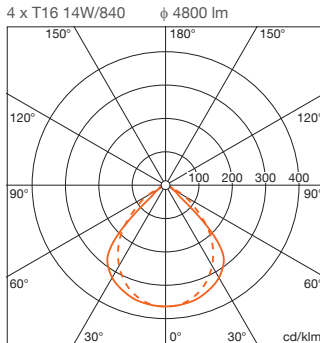
		G5	1547	1510	1300	309	-	74	8.8	Multi	4050737651729	5MC11B71QS
1x T16 35/49/80W												
1x T16 35/49/80W										Multi DALI	4050737651750	5MC11BD1QS



T16  
G5



4050737578675  
5MC12B74BS



$\eta_{LB}$  69.7%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	486	218
L <sub>70</sub>	620	441
L <sub>65</sub>	833	993

UGR 14.5 15.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20				200				500				
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.9	1.5	1.7	3.7	4.3							
30 m <sup>2</sup>	1.2	1.3	2.4	2.6	5.9	6.6							
40 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.6	8.4							
50 m <sup>2</sup>	1.8	2.0	3.7	4.0	9.2	10							
75 m <sup>2</sup>	2.8	2.9	5.5	5.8	14	15							
100 m <sup>2</sup>	3.6	3.8	7.1	7.6	18	19							
500 m <sup>2</sup>	17	17	34	35	85	87							

Maintenance factor 0.8 Rh = Lh

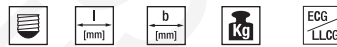
**Novaluna® | with ELDAICON®**  
**square | direct distribution**

- Single luminaire for ceiling recessing
- with ELDAICON®, CAT2 ( $L \leq 1000 \text{cd/m}^2$ ), direct distribution
- with ECG Multiwatt

- housing of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



for M600 and for cut ceiling aperture, pure white

	G5	l [mm]	b [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	597	597	7.5	Multi	4050737578705	5MC12B74BW
4x T16 14/24W	G5	597	597	7.5	Multi DALI	4050737578736	5MC12BD4BW
4x T16 14/24W	G5	597	597	7.5	Multi 1...10V	4050737578651	5MC12B64BW

for M600 and for cut ceiling aperture, white aluminum (RAL 9006)

	G5	l [mm]	b [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	597	597	7.5	Multi	4050737578675	5MC12B74BS
4x T16 14/24W	G5	597	597	7.5	Multi DALI	4050737578712	5MC12BD4BS
4x T16 14/24W	G5	597	597	7.5	Multi 1...10V	4050737578637	5MC12B64BS

for M625 and for cut ceiling aperture, pure white

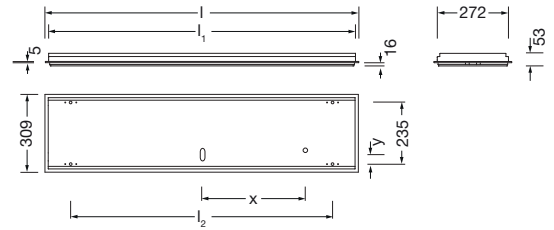
	G5	l [mm]	b [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	623	623	7.8	Multi	4050737577975	5MC11B74BW
4x T16 14/24W	G5	623	623	7.8	Multi DALI	4050737578033	5MC11BD4BW
4x T16 14/24W	G5	623	623	7.8	Multi 1...10V	4050737577937	5MC11B64BW

for M625 and for cut ceiling aperture, white aluminum (RAL 9006)

	G5	l [mm]	b [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	623	623	7.2	Multi	4050737577951	5MC11B74BS
4x T16 14/24W	G5	623	623	7.2	Multi DALI	4050737578026	5MC11BD4BS
4x T16 14/24W	G5	623	623	7.2	Multi 1...10V	4050737577913	5MC11B64BS

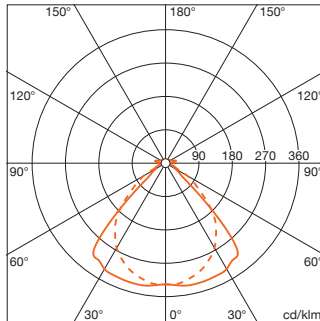


T16  
G5



4050737651835  
5MC61B71HS

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  76%  $\phi_{\downarrow}$  93%  $\phi_{\uparrow}$  7%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	890	425
L <sub>70</sub>	816	540
L <sub>65</sub>	872	858

UGR 15.3 15.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.0	4.6						
30 m <sup>2</sup>	1.3	1.4	2.6	2.8	6.4	7.0						
40 m <sup>2</sup>	1.6	1.8	3.2	3.6	8.0	9.0						
50 m <sup>2</sup>	1.9	2.1	3.9	4.3	9.7	11						
75 m <sup>2</sup>	2.9	3.1	5.9	6.1	15	15						
100 m <sup>2</sup>	3.7	4.0	7.5	8.0	19	20						
500 m <sup>2</sup>	17	18	35	36	87	90						

Maintenance factor 0.8 Rh = Lh + 0.5 m

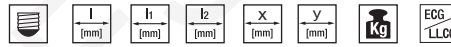
**Novaluna® | with ELDAICON®**  
rectangular | direct distribution with ceiling illumination

Single luminaire for ceiling recessing  
 - with ELDAICON®, CAT2 ( $L \leq 1000\text{cd/m}^2$ ),  
 direct distribution with integrated all-  
 round indirect component via lateral  
 prismatic optics  
 - with ECG Multiwatt

- housing of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



for M625 and for cut ceiling aperture, pure white

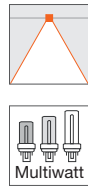
	G5	l <sub>1</sub> [mm]	l <sub>2</sub> [mm]	x [mm]	y [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco	
1x T16 14/24W	G5	623	586	300	270	54	4.0	Multi	4050737651828	5MC61B71BW
1x T16 28/54W	G5	1247	1210	1000	-	74	6.1	Multi	4050737651842	5MC61B71HW

for M625 and for cut ceiling aperture, white aluminum (RAL 9006)

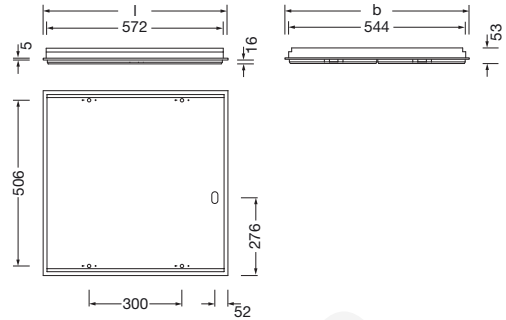
	G5	l <sub>1</sub> [mm]	l <sub>2</sub> [mm]	x [mm]	y [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco	
1x T16 14/24W	G5	623	586	300	270	54	3.3	Multi	4050737651811	5MC61B71BS
1x T16 28/54W	G5	1247	1210	1000	-	74	6.1	Multi	4050737651835	5MC61B71HS
1x T16 28/54W	G5	1247	1210	1000	-	74	6.1	Multi DALI	4050737651866	5MC61BD1HS

for cut ceiling aperture, white aluminum (RAL 9006)

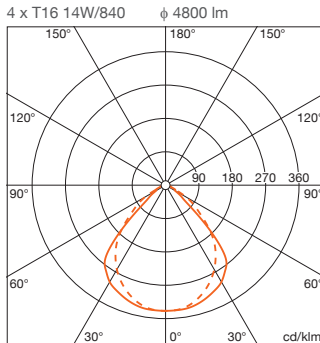
	G5	l <sub>1</sub> [mm]	l <sub>2</sub> [mm]	x [mm]	y [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco	
1x T16 35/49/80W	G5	1547	1510	1300	-	74	7.3	Multi	4050737651859	5MC61B71QS
1x T16 35/49/80W	G5	1547	1510	1300	-	74	7.3	Multi DALI	4050737651873	5MC61BD1QS



T16  
G5



4050737579757  
5MC61B74BS



$\eta_{LB}$  70%  $\phi_{\downarrow}$  96%  $\phi_{\uparrow}$  4%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	720	456
L <sub>70</sub>	760	603
L <sub>65</sub>	990	978

UGR 15 15.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.6	1.8	3.9	4.5
30 m <sup>2</sup>	1.3	1.4	2.5	2.7	6.3	6.9
40 m <sup>2</sup>	1.6	1.8	3.2	3.5	7.9	8.8
50 m <sup>2</sup>	1.9	2.1	3.9	4.2	9.6	11
75 m <sup>2</sup>	2.9	3.0	5.8	6.1	15	15
100 m <sup>2</sup>	3.7	4.0	7.5	7.9	19	20
500 m <sup>2</sup>	18	18	35	36	88	91

Maintenance factor 0.8

Rh = Lh

**Novaluna® | with ELDAICON®**  
**square | direct distribution with ceiling illumination**

Single luminaire for ceiling recessing  
 - with ELDAICON®, CAT2 ( $L \leq 1000\text{cd/m}^2$ ),  
 direct distribution with integrated all-round indirect component via lateral prismatic optics  
 - with ECG Multiwatt

- housing of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



for M600 and for cut ceiling aperture, pure white

	G5	l [mm]	b [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	597	597	7.2	Multi	4050737580401	5MC62B74BW
4x T16 14/24W	G5	597	597	7.2	Multi DALI	4050737580432	5MC62BD4BW

for M600 and for cut ceiling aperture, white aluminum (RAL 9006)

	G5	l [mm]	b [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	597	597	6.1	Multi	4050737580371	5MC62B74BS
4x T16 14/24W	G5	597	597	6.1	Multi DALI	4050737580418	5MC62BD4BS

for M625 and for cut ceiling aperture, pure white

	G5	l [mm]	b [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	623	623	7.2	Multi	4050737579771	5MC61B74BW
4x T16 14/24W	G5	623	623	7.2	Multi DALI	4050737579818	5MC61BD4BW
4x T16 14/24W	G5	623	623	7.2	Multi 1...10V	4050737579726	5MC61B64BW

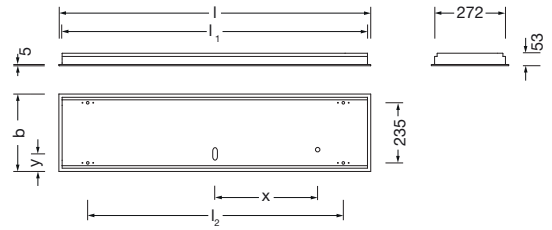
for M625 and for cut ceiling aperture, white aluminum (RAL 9006)

	G5	l [mm]	b [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	623	623	6.3	Multi	4050737579757	5MC61B74BS
4x T16 14/24W	G5	623	623	6.3	Multi DALI	4050737579795	5MC61BD4BS
4x T16 14/24W	G5	623	623	6.3	Multi 1...10V	4050737579696	5MC61B64BS



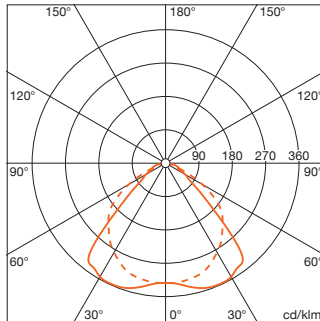


T16  
G5



4050737578194  
5MC12671HS

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  83.3%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1807	743
L <sub>70</sub>	1532	1393
L <sub>65</sub>	1263	2220

UGR 17.5 17.7

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.7	3.6	4.2						
30 m <sup>2</sup>	1.1	1.3	2.2	2.5	5.6	6.3						
40 m <sup>2</sup>	1.4	1.6	2.9	3.2	7.2	8.0						
50 m <sup>2</sup>	1.7	1.9	3.5	3.8	8.6	9.6						
75 m <sup>2</sup>	2.6	2.7	5.1	5.5	13	14						
100 m <sup>2</sup>	3.3	3.6	6.6	7.1	17	18						
500 m <sup>2</sup>	16	16	31	32	78	80						

Maintenance factor 0.8

Rh = Lh

**Novaluna® | with High Definition Prismatics (HDP®)**  
rectangular | direct distribution

- Single luminaire for ceiling recessing
- with High Definition Prismatics (HDP®), direct distribution
- with ECG Multiwatt

- housing of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**







for M600 and for cut ceiling aperture, pure white

		l	h	l <sub>2</sub>	b	x	y	kg	ECG	LLCG	Order no. OSRAM	Order no. Sitemo
1x T16 14/24W	G5	597	574	300	297	270	52	3.6	Multi		4050737578187	5MC12671BW
1x T16 28/54W	G5	1197	1174	1000	297	-	71	6.2	Multi		4050737578217	5MC12671HW
1x T16 28/54W	G5	1197	1174	1000	297	-	71	6.2	Multi DALI		4050737578439	5MC126D1HW
2x T16 14/24W	G5	597	574	300	297	270	52	3.6	Multi		4050737578309	5MC12672BW
2x T16 14/24W	G5	597	574	300	297	270	52	3.6	Multi DALI		4050737578491	5MC126D2BW
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi		4050737008264	5MC12672HW
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi DALI		4050737578538	5MC126D2HW
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi 1...10V		4050737578071	5MC12662HW

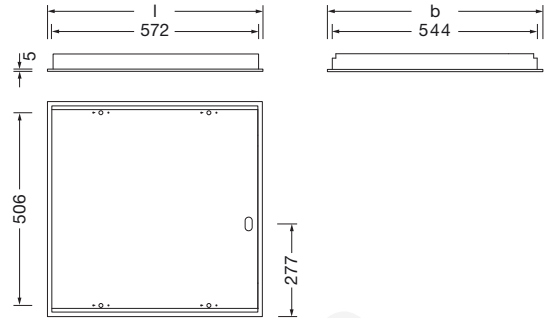
for M600 and for cut ceiling aperture, white aluminum (RAL 9006)

		l	h	l <sub>2</sub>	b	x	y	kg	ECG	LLCG	Order no. OSRAM	Order no. Sitemo
1x T16 14/24W	G5	597	574	300	297	270	52	3.6	Multi		4050737578156	5MC12671BS
1x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi		4050737578194	5MC12671HS
1x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi DALI		4050737578415	5MC126D1HS
1x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi 1...10V		4050737098104	5MC12661HS
2x T16 14/24W	G5	597	574	300	297	270	52	3.3	Multi		4050737578279	5MC12672BS
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi		4050737578323	5MC12672HS
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi DALI		4050737578521	5MC126D2HS
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.4	Multi 1...10V		4050737041780	5MC12662HS

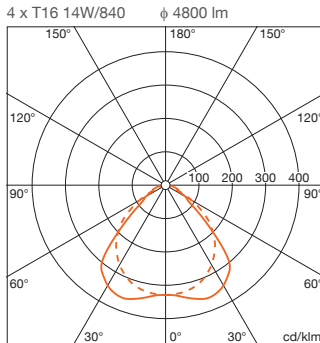
Light source		$l$ [mm]	$h$ [mm]	$l_2$ [mm]	$b$ [mm]	$x$ [mm]	$y$ [mm]				Order no.	Order no.
											OSRAM	Siteco
for M625 and for cut ceiling aperture, pure white												
1x T16 14/24W	G5	623	586	300	309	270	54	3.4	Multi		4050737577593	5MC11671BW
1x T16 28/54W	G5	1247	1210	1000	309	–	74	6.5	Multi		4039806856630	5MC11671HW
1x T16 28/54W	G5	1247	1210	1000	309	–	74	6.5	Multi DALI		4050737577777	5MC116D1HW
1x T16 28/54W	G5	1247	1210	1000	309	–	74	6.5	Multi 1...10V		4050737577432	5MC11661HW
2x T16 14/24W	G5	623	586	300	309	270	54	3.4	Multi		4050737115566	5MC11672BW
2x T16 14/24W	G5	623	586	300	309	270	54	3.4	Multi 1...10V		4050737577470	5MC11662BW
2x T16 28/54W	G5	1247	1210	1000	309	–	74	6.7	Multi		4050737577685	5MC11672HW
2x T16 28/54W	G5	1247	1210	1000	309	–	74	6.7	Multi DALI		4050737577845	5MC116D2HW
2x T16 28/54W	G5	1247	1210	1000	309	–	74	6.7	Multi 1...10V		4050737051925	5MC11662HW
for M625 and for cut ceiling aperture, white aluminum (RAL 9006)												
1x T16 14/24W	G5	623	586	300	309	270	54	3.4	Multi		4050737577586	5MC11671BS
1x T16 28/54W	G5	1247	1210	1000	309	–	74	6.5	Multi		4050737577623	5MC11671HS
1x T16 28/54W	G5	1247	1210	1000	309	–	74	6.5	Multi DALI		4050737577753	5MC116D1HS
2x T16 14/24W	G5	623	586	300	309	270	54	3.4	Multi		4050737577661	5MC11672BS
2x T16 14/24W	G5	623	586	300	309	270	54	3.4	Multi 1...10V		4050737577456	5MC11662BS
2x T16 28/54W	G5	1247	1210	1000	309	–	74	6.6	Multi		4050737463353	5MC11672HS
2x T16 28/54W	G5	1247	1210	1000	309	–	74	6.6	Multi DALI		4050737577814	5MC116D2HS
2x T16 28/54W	G5	1247	1210	1000	309	–	74	6.6	Multi 1...10V		4050737577500	5MC11662HS
for cut ceiling aperture, pure white												
1x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.7	Multi		4050737023113	5MC11671QW
1x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.7	Multi DALI		4050737577791	5MC116D1QW
1x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.7	Multi 1...10V		4050737060255	5MC11661QW
2x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.9	Multi		4050737063171	5MC11672QW
2x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.9	Multi DALI		4050737577876	5MC116D2QW
2x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.9	Multi 1...10V		4050737008240	5MC11662QW
for cut ceiling aperture, white aluminum (RAL 9006)												
1x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.5	Multi		4050737577647	5MC11671QS
1x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.5	Multi DALI		4050737071282	5MC116D1QS
2x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.9	Multi		4050737577692	5MC11672QS
2x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.9	Multi DALI		4050737577852	5MC116D2QS
2x T16 35/49/80W	G5	1547	1510	1300	309	–	74	7.9	Multi 1...10V		4050737577517	5MC11662QS



T16  
G5



4050737578378  
5MC12674BS



$\eta_{LB}$  81.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2039	693
L <sub>70</sub>	1845	1151
L <sub>65</sub>	1502	1883

UGR 18.2 17.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.5	4.0
30 m <sup>2</sup>	1.1	1.2	2.1	2.4	5.3	6.0
40 m <sup>2</sup>	1.4	1.5	2.7	3.0	6.8	7.6
50 m <sup>2</sup>	1.6	1.8	3.3	3.6	8.2	9.1
75 m <sup>2</sup>	2.4	2.6	4.8	5.2	12	13
100 m <sup>2</sup>	3.2	3.4	6.3	6.8	16	17
500 m <sup>2</sup>	15	15	30	30	74	76

Maintenance factor 0.8 Rh = Lh

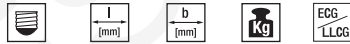
**Novaluna® | with High Definition Prismatics (HDP®) square | direct distribution**

- Single luminaire for ceiling recessing
- with High Definition Prismatics (HDP®), direct distribution
- with ECG Multiwatt

- housing of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



for M600 and for cut ceiling aperture, pure white

	G5	l [mm]	b [mm]	kg	ECG LLG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	597	597	6.2	Multi	4050737578392	5MC12674BW
4x T16 14/24W	G5	597	597	6.2	Multi DALI	4050737578613	5MC126D4BW
4x T16 14/24W	G5	597	597	6.2	Multi 1...10V	4050737578118	5MC12664BW

for M600 and for cut ceiling aperture, white aluminum (RAL 9006)

	G5	l [mm]	b [mm]	kg	ECG LLG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	597	597	6.2	Multi	4050737578378	5MC12674BS
4x T16 14/24W	G5	597	597	6.2	Multi DALI	4050737578590	5MC126D4BS
4x T16 14/24W	G5	597	597	6.2	Multi 1...10V	4050737578095	5MC12664BS

for M625 and for cut ceiling aperture, pure white

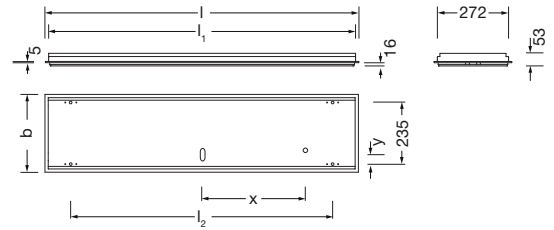
	G5	l [mm]	b [mm]	kg	ECG LLG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	623	623	5.6	Multi	4050737577739	5MC11674BW
4x T16 14/24W	G5	623	623	5.6	Multi DALI	4050737577890	5MC116D4BW
4x T16 14/24W	G5	623	623	5.6	Multi 1...10V	4050737577555	5MC11664BW

for M625 and for cut ceiling aperture, white aluminum (RAL 9006)

	G5	l [mm]	b [mm]	kg	ECG LLG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	623	623	5.6	Multi	4050737577715	5MC11674BS
4x T16 14/24W	G5	623	623	5.6	Multi DALI	4050737098302	5MC116D4BS
4x T16 14/24W	G5	623	623	5.6	Multi 1...10V	4050737577531	5MC11664BS

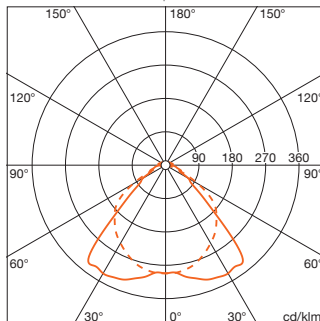


T16  
G5



4050737031088  
5MC61671HS

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  83.7%  $\phi_{\downarrow}$  94%  $\phi_{\uparrow}$  6%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1691	650
L <sub>70</sub>	1521	1162
L <sub>65</sub>	1230	1894

UGR 17.9 17

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
2.5	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.5	1.8	3.8	4.4
30 m <sup>2</sup>	1.2	1.3	2.4	2.7	6.0	6.7
40 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.5	8.5
50 m <sup>2</sup>	1.8	2.0	3.6	4.0	9.1	10
75 m <sup>2</sup>	2.7	2.9	5.4	5.8	13	14
100 m <sup>2</sup>	3.5	3.7	6.9	7.4	17	19
500 m <sup>2</sup>	16	17	32	33	80	83

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

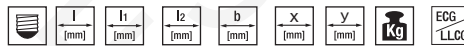
**Novaluna® | with High Definition Prismatics (HDP®)**  
rectangular | direct distribution with ceiling illumination

Single luminaire for ceiling recessing  
 - with High Definition Prismatics (HDP®),  
 direct distribution with integrated all-round indirect component via lateral prismatic optics  
 - with ECG Multiwatt

- housing of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



Light source







for M600 and for cut ceiling aperture, pure white

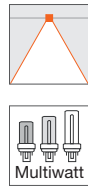
			l	l <sub>1</sub>	l <sub>2</sub>	b	x	y	kg	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x T16 14/24W	G5	597	574	300	297	270	52	3.2	Multi			4050737579931	5MC62671BW
1x T16 14/24W	G5	597	574	300	297	270	52	3.2	Multi DALI			4050737580159	5MC626D1BW
1x T16 28/54W	G5	1197	1174	1000	297	-	71	5.9	Multi DALI			4050737580197	5MC626D1HW
1x T16 28/54W	G5	1197	1174	1000	297	-	71	5.9	Multi 1...10V			4050737579856	5MC62661HW
2x T16 14/24W	G5	597	574	300	297	270	52	3.0	Multi			4050737580036	5MC62672BW
2x T16 14/24W	G5	597	574	300	297	270	52	3.0	Multi DALI			4050737580258	5MC626D2BW
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.2	Multi			4050737580074	5MC62672HW
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.2	Multi DALI			4050737580296	5MC626D2HW
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.2	Multi 1...10V			4050737059372	5MC62662HW

for M600 and for cut ceiling aperture, white aluminum (RAL 9006)

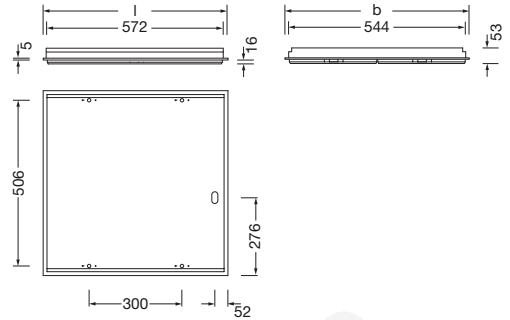
			l	l <sub>1</sub>	l <sub>2</sub>	b	x	y	kg	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x T16 14/24W	G5	597	574	300	297	270	52	3.2	Multi			4050737579917	5MC62671BS
1x T16 28/54W	G5	1197	1174	1000	297	-	71	5.9	Multi			4050737579955	5MC62671HS
1x T16 28/54W	G5	1197	1174	1000	297	-	71	5.9	Multi DALI			4050737580173	5MC626D1HS
2x T16 14/24W	G5	597	574	300	297	270	52	3.5	Multi			4050737580012	5MC62672BS
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.3	Multi			4050737580067	5MC62672HS
2x T16 28/54W	G5	1197	1174	1000	297	-	71	6.3	Multi DALI			4050737580272	5MC626D2HS

Light source		$l$ [mm]	$l_1$ [mm]	$l_2$ [mm]	$b$ [mm]	$x$ [mm]	$y$ [mm]				Order no.	Order no.
											OSRAM	Siteco
for M625 and for cut ceiling aperture, pure white												
1x T16 14/24W	G5	623	586	300	309	270	54	3.3	Multi		4050737579290	5MC61671BW
1x T16 28/54W	G5	1247	1210	1000	309	-	74	6.1	Multi		4039806887801	5MC61671HW
1x T16 28/54W	G5	1247	1210	1000	309	-	74	6.1	Multi DALI		4050737579542	5MC616D1HW
1x T16 28/54W	G5	1247	1210	1000	309	-	74	6.1	Multi 1...10V		4050737579139	5MC61661HW
2x T16 14/24W	G5	623	586	300	309	270	54	3.3	Multi		4050737579382	5MC61672BW
2x T16 28/54W	G5	1247	1210	1000	309	-	74	6.7	Multi		4050737579412	5MC61672HW
2x T16 28/54W	G5	1247	1210	1000	309	-	74	6.7	Multi DALI		4050737579610	5MC616D2HW
2x T16 28/54W	G5	1247	1210	1000	309	-	74	6.7	Multi 1...10V		4050737579177	5MC61662HW
for M625 and for cut ceiling aperture, white aluminum (RAL 9006)												
1x T16 14/24W	G5	623	586	300	309	270	54	3.3	Multi		4050737579276	5MC61671BS
1x T16 28/54W	G5	1247	1210	1000	309	-	74	6.1	Multi		4050737031088	5MC61671HS
1x T16 28/54W	G5	1247	1210	1000	309	-	74	6.1	Multi DALI		4050737579511	5MC616D1HS
2x T16 14/24W	G5	623	586	300	309	270	54	3.3	Multi		4050737579351	5MC61672BS
2x T16 28/54W	G5	1247	1210	1000	309	-	74	5.7	Multi		4050737579399	5MC61672HS
2x T16 28/54W	G5	1247	1210	1000	309	-	74	5.7	Multi DALI		4050737579597	5MC616D2HS
2x T16 28/54W	G5	1247	1210	1000	309	-	74	5.7	Multi 1...10V		4050737579153	5MC61662HS
for cut ceiling aperture, pure white												
1x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.3	Multi		4050737579337	5MC61671QW
1x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.3	Multi DALI		4050737579573	5MC616D1QW
1x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.3	Multi 1...10V		4050737049410	5MC61661QW
2x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.4	Multi		4050737579450	5MC61672QW
2x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.4	Multi DALI		4050737071350	5MC616D2QW
2x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.4	Multi 1...10V		4050737579214	5MC61662QW
for cut ceiling aperture, white aluminum (RAL 9006)												
1x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.3	Multi		4050737579313	5MC61671QS
1x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.3	Multi DALI		4050737579559	5MC616D1QS
2x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.4	Multi		4050737579436	5MC61672QS
2x T16 35/49/80W	G5	1547	1510	1300	309	-	74	7.4	Multi 1...10V		4050737579207	5MC61662QS

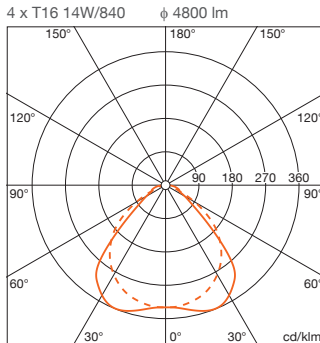




T16  
G5



4050737579474  
5MC61674BS



$\eta_{LB}$  81.6%  $\phi_{\downarrow}$  99%  $\phi_{\uparrow}$  1%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1971	846
L <sub>70</sub>	1644	1156
L <sub>65</sub>	1450	1809

UGR 18 17.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	0.7	0.8	1.4	1.6	3.5	4.0
20 m <sup>2</sup>	1.1	1.2	2.1	2.4	5.3	6.0
30 m <sup>2</sup>	1.4	1.5	2.7	3.0	6.8	7.6
40 m <sup>2</sup>	1.7	1.8	3.3	3.6	8.3	9.1
50 m <sup>2</sup>	2.4	2.6	4.9	5.2	12	13
75 m <sup>2</sup>	3.2	3.4	6.3	6.8	16	17
100 m <sup>2</sup>	15	15	30	31	74	76
500 m <sup>2</sup>						

Maintenance factor 0.8

Rh = Lh

**Novaluna® | with High Definition Prismatics (HDP®) square | direct distribution with ceiling illumination**

Single luminaire for ceiling recessing  
 - with High Definition Prismatics (HDP®), direct distribution with integrated all-round indirect component via lateral prismatic optics  
 - with ECG Multiwatt

- housing of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



for M600 and for cut ceiling aperture, pure white

	G5	l [mm]	b [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
4x T16 14/24W	G5	597	597	6.0	Multi	4050737580135	5MC62674BW
4x T16 14/24W	G5	597	597	6.0	Multi DALI	4050737063492	5MC626D4BW
4x T16 14/24W	G5	597	597	6.0	Multi 1...10V	4050737579894	5MC62664BW

for M600 and for cut ceiling aperture, white aluminum (RAL 9006)

4x T16 14/24W	G5	597	597	5.1	Multi DALI	4050737580357	5MC626D4BS
4x T16 14/24W	G5	597	597	5.1	Multi 1...10V	4050737579887	5MC62664BS

for M625 and for cut ceiling aperture, pure white

4x T16 14/24W	G5	623	623	6.2	Multi	4050737579498	5MC61674BW
4x T16 14/24W	G5	623	623	6.2	Multi DALI	4050737579658	5MC616D4BW
4x T16 14/24W	G5	623	623	6.2	Multi 1...10V	4050737579252	5MC61664BW

for M625 and for cut ceiling aperture, white aluminum (RAL 9006)

4x T16 14/24W	G5	623	623	6.2	Multi	4050737579474	5MC61674BS
4x T16 14/24W	G5	623	623	6.2	Multi DALI	4050737579634	5MC616D4BS
4x T16 14/24W	G5	623	623	6.2	Multi 1...10V	4050737579238	5MC61664BS

### Novaluna® semi-recessed/recessed-luminaire mounting accessories



#### Rapid-mounting bracket

for support profiles or mounting surfaces positioned longitudinally to the luminaire

Designation	PU	Order no. OSRAM	Order no. Siteco
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for semi-recessed luminaire 5MC6...

Clamping range 28...40mm	set of 4	4039806568243	5MC90601
Clamping range 40...52mm	set of 4	4039806568267	5MC90602

for recessed luminaire 5MC1...

Clamping range 35...46mm	set of 4	4039806568205	5MC90101
Clamping range 47...58mm	set of 4	4039806568229	5MC90102

— 4 units required per luminaire

#### Novaluna® spare parts

#### Removal tool (not shown)

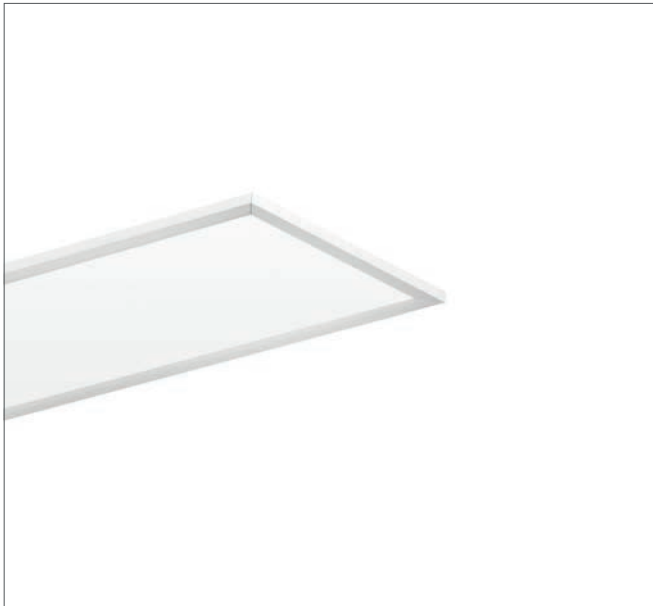
for removing optical cover

Designation	Order no. OSRAM	Order no. Siteco
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Removal tool	4039806577658	5MC90001
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# LEDVANCE® AREA with LED



LEDVANCE® AREA is an LED lighting solution for foyers, general building areas, meeting rooms and offices. The versions of this family are available in both square and rectangular forms and can be used for suspended mounting or as lay-in luminaires in system ceilings. The height of the powder-coated white aluminum housing is only 16mm (without ECG) and the aluminum frame ensures sufficient stability. The sealed construction minimizes soiling and maintenance costs. Typical for the LEDVANCE® AREA is its absolutely homogeneous light surface created by lateral distribution of the OSRAM DURIS E3 LED. Reflected glare is minimized, as well as strong bright/dark contrasts and shadowing.

The recessed versions of LEDVANCE® AREA are ideal for designing with light. The luminaires on the ceiling have the appearance of illuminated windows that can be grouped together to form light ceilings.

With standard dimensions (1200 x 300mm, 600 x 600mm, 625 x 625mm) combined with LED technology and low energy consumption, LEDVANCE® AREA is a modern and efficient replacement for conventional louver luminaires fitted with T16 or T26 lamps. The versions with DALI can also be integrated into light management systems.

## Features

- efficient LED replacement for conventional louver luminaires
- discrete powder-coated aluminum housing with height of merely 16mm
- absolutely homogeneous light surface due to lateral LED distribution
- brand components with OSRAM DURIS E3 LED
- available in module dimensions 600 x 600mm, 625 x 625mm and 1200 x 300mm
- CAT-compatible in accordance with EN 12464-1 depending on room size for computer screens with high luminance levels
- available with ECG or ECG DALI
- mounting options: lay-in luminaire or suspended

## Lighting technology

Diffuser optics with lateral light transmission for a homogeneous luminous surface without visible light points.

- especially uniform light distribution with minimized reflected glare, thus CAT-compatible in accordance with EN 12464-1 for computer screens with high luminance levels
- the luminaires on the ceiling have the appearance of illuminated windows and enable the designing with light: light ceilings with individual light windows as well as wide-area light ceilings can be designed.

## Electrics

Luminaire wired ready for connection | with 2-pole connection terminal (ECG DALI: 2-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

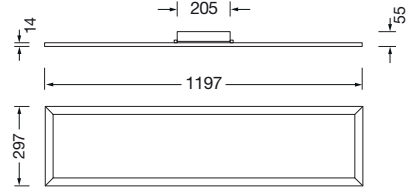
## Housing

Visible frame of extruded aluminum, traffic white (RAL 9016); upper housing side of aluminum sheet, anodized with central control-gear block; opal cover of PMMA

Rapid advances in LED technology lead to permanent improvements in energy efficiency. We use this for these luminaires for reduction of power consumption for identical luminous flux. The latest specific values can be found in the photometric report of each product and in the current download files of the photometric planning data.

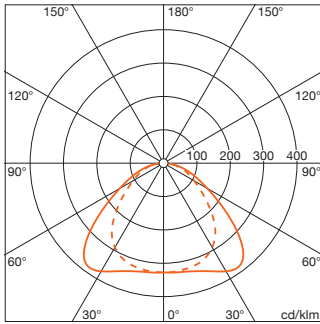


LED



4008321817297  
OMQ12W77J3S1

1 x LED 4000K / CRI ≥ 80  $\phi_{N}$  3220 lm



**LEDVANCE AREA® with LED | with diffuser optics rectangular**

- Single luminaire for lay-in mounting in system
- upper side of housing of aluminum, ceilings or suspended mounting
- with opal cover, direct distribution
- with ECG
- visible frame of extruded aluminum, traffic white (RAL 9016)
- anodized
- protection rating: IP20
- insulation class: II



Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2722	2493
L <sub>70</sub>	3101	2482
L <sub>65</sub>	3337	2510

UGR 20.9 19.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(lx)		Em(lx)		Em(lx)	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.1	1.8	2.1	4.5	5.3
30 m <sup>2</sup>	1.4	1.6	2.8	3.1	6.9	7.8
40 m <sup>2</sup>	1.8	2.0	3.5	3.9	8.8	9.8
50 m <sup>2</sup>	2.1	2.3	4.2	4.7	11	12
75 m <sup>2</sup>	3.1	3.3	6.2	6.7	15	17
100 m <sup>2</sup>	4.0	4.3	7.9	8.5	20	21
500 m <sup>2</sup>	18	19	36	37	91	94

Maintenance factor 0.8 Rh = Lh

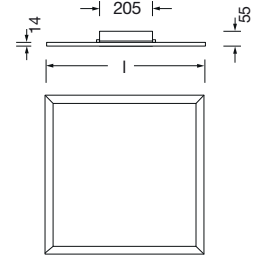
Light source



for suspended mounting, for installation, M600, direct distribution

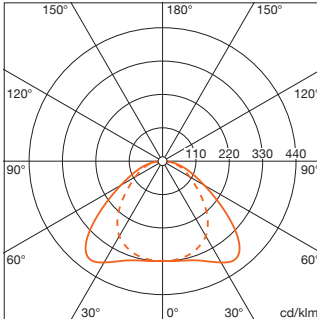
	K	R <sub>a</sub>	lm	W SYSTEM	ECG	LLGG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	3200	45	4.8	ECG	4008321817280	OMQ12W77J3R1
LED	4000	> 80	3220	50	4.8	ECG	4008321817297	OMQ12W77J3S1

- installation in cut ceiling aperture not possible
- for information concerning energy consumption labeling regulation (EU) 874/2012, see page 15.25



4008321817174  
OMQ12W77Y3S1

1 x LED 4000K / CRI ≥ 80  $\phi_{N}$  3452 lm



**LEDVANCE AREA® with LED | with diffuser optics square**

- Single luminaire for lay-in mounting in system
- upper side of housing of aluminum, anodized
- with opal cover, direct distribution
- protection rating: IP20
- with ECG
- insulation class: II
- visible frame of extruded aluminum, traffic white (RAL 9016)



Luminance values (cd/m²)

	C 0/180	C 90/270
L <sub>80</sub>	2955	2412
L <sub>70</sub>	3193	2420
L <sub>65</sub>	3428	2425

UGR 21.2 19.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	Em(lx)		100		200		500		
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	0.8	1.0	1.7	2.0	4.2	5.0			
30 m²	1.3	1.5	2.6	2.9	6.5	7.3			
40 m²	1.6	1.8	3.3	3.7	8.2	9.2			
50 m²	2.0	2.2	3.9	4.4	9.8	11			
75 m²	2.9	3.1	5.8	6.2	14	16			
100 m²	3.7	4.0	7.4	8.0	19	20			
500 m²	17	17	34	35	85	87			

Maintenance factor 0.8 Rh = Lh

Light source



Order no.  
OSRAM

Order no.  
Siteco

for suspended mounting, for installation, M600

	LED	3000	> 80	3200	56	597	597	4.8	ECG	4008321817167	OMQ12W77Y3R1
LED	4000	> 80	3452	50	597	597	4.6	ECG	4008321817174	OMQ12W77Y3S1	

for suspended mounting, for installation, M625

	LED	3000	> 80	3200	56	622	622	4.8	ECG	4052899016446	OMQ11W77Y3R1
LED	4000	> 80 <td>3400 <td>56 <th>622</th> <th>622</th> <th>4.6</th> <th>ECG</th> <th>4052899016453</th> <th>OMQ11W77Y3S1</th> </td></td>	3400 <td>56 <th>622</th> <th>622</th> <th>4.6</th> <th>ECG</th> <th>4052899016453</th> <th>OMQ11W77Y3S1</th> </td>	56 <th>622</th> <th>622</th> <th>4.6</th> <th>ECG</th> <th>4052899016453</th> <th>OMQ11W77Y3S1</th>	622	622	4.6	ECG	4052899016453	OMQ11W77Y3S1	

- installation in cut ceiling aperture not possible
- for information concerning energy consumption labeling regulation (EU) 874/2012, see page 15.25



**LEDVANCE AREA® Mounting accessories**



**Y-wire suspension**

with height adjustment up to 1.3m | incl. ceiling mounting element | wire: D = 1.2mm | connection cable with transparent insulation | 2x 0.75mm<sup>2</sup>; with insulated pin terminals on one side

Designation	Order no. OSRAM	Order no. Siteco
With canopy, white	4052899903128	OLK91101

— 2 x required per luminaire

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## TECARIO®



The TECARIO® light line system for ceiling recessing is characterized by its slender housing of extruded aluminum, a purist appearance and high-quality, efficient lighting technology. The optical enclosure as a block-like element with supplementary lateral light emission and the mounted end caps set further design accents and underline the character of the luminaire.

The system with modular design consists of housing, light insert with T16 lamp and optical enclosure, offering a wide range of combination possibilities: from single luminaires to infinite light lines. The overlapping lamp configuration ensures homogeneous illumination without visible dark spots (with frosted cover or HDP®).

Different optics allow use in a wide variety of applications. A completely frosted version, a version with HDP® and a version with CAT2 louver are available.

The completely frosted version is suitable for public building areas, such as corridors, transition ways, entrance areas and collection areas, whilst the glare-reduced HDP® versions and the CAT2 louver versions offer a solution for offices, conference rooms and meeting rooms.

### Features

- clear, purist design
- modular construction for simple configuration of individual light lines
- optical enclosure as a block-like element with supplementary lateral light emission
- various optics for a wide range of applications
- multi-sensor (light/presence) for efficient lighting
- luminaire insert with single battery
- luminaire insert with multiwatt technology for individual lumen packages
- luminaire insert and optical enclosures are mounted without tools
- homogeneous illumination via overlapping lamp positioning
- recessed luminaire with integrated rapid-mounting bracket for cut plasterboard ceilings

### Lighting technology

Optical cover as profile with width 70mm and height 15mm | various optical enclosures are available for differing application areas:

- completely frosted cover with diffuse light distribution for optically seamless light lines without dark spots
- cover with frosted lateral surfaces and transparent underside for seamless light lines without dark spots; good glare reduction via combination with inner High Definition Prismatic (HDP®)
- cover with frosted lateral surfaces and transparent underside in combination with highly specular louver, for reduced luminance; CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- high luminaire light output ratio > 65% (frosted cover)

### Electrics

Luminaire housing and luminaire insert wired ready for connection

**Housing** with 7-pole connection terminal, max. 2.5mm<sup>2</sup>, and 7x 1.5mm<sup>2</sup> through-wiring for 3 circuits + brightness control | with sockets for connection of light inserts in housing

**Luminaire insert** with 3-pole plug system (ECG DALI: 3-pole + 2-pole for control signal) | 3-phase pre-selection via moving of a contact pin prior to installation in trunking rail

**Luminaire insert with multi-sensor** with 6-pole plug system (3-pole for normal power supply | 1-pole for ON/OFF/bright/dark push-button | 2-pole for control of further DALI luminaire inserts)

Luminaire insert with ECG Multiwatt or ECG Multiwatt DALI; for ECG Multiwatt 1...10V version, see [www.siteco.com](http://www.siteco.com)

### Housing

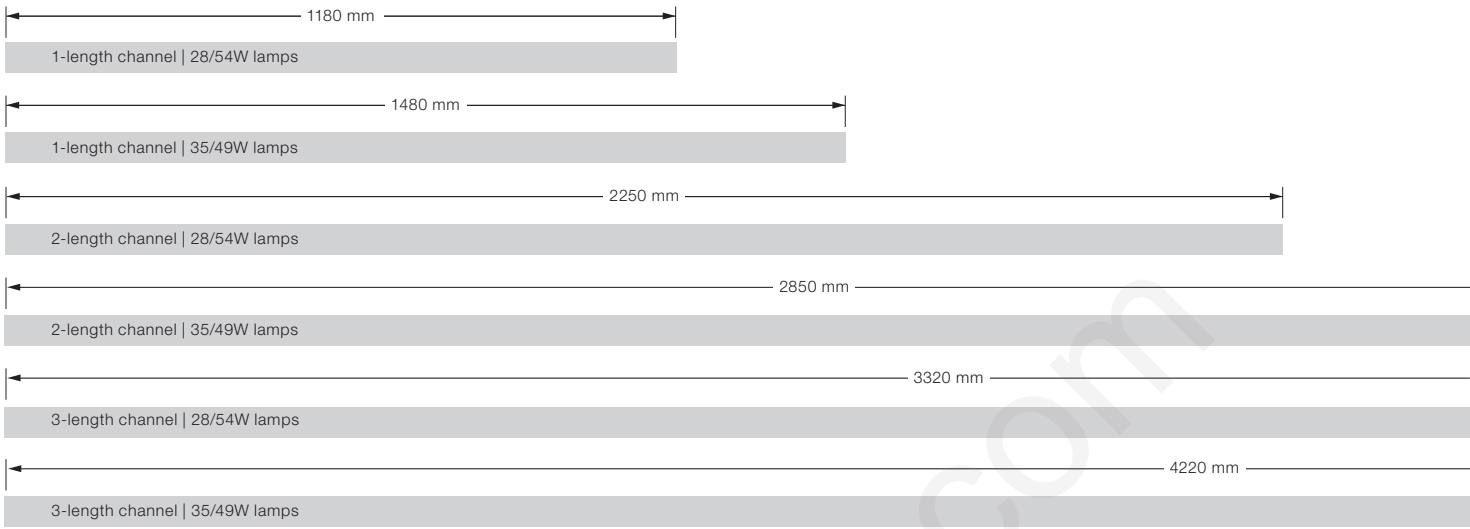
Luminaire housing of extruded aluminum; end caps of diecast aluminum; housing and end cap with all-round shadow gap, white aluminum (RAL 9006) | various housing lengths for configuration of light lines | robust connection element of sheet steel, galvanized, for self-supporting, flush-fitting connection | luminaire insert of sheet steel, pure white (similar to RAL 9010); offset lamp positioning with frosted cover and HDP® cover for light lines without dark spots | mechanical fixing of insert in luminaire housing with simple-to-use twist-lock catches | frosted cover, HDP® and louver cover of PMMA | simple recessing of housing with pre-assembled rapid-mounting brackets | complete concealing of ceiling cut-out via flat housing edge



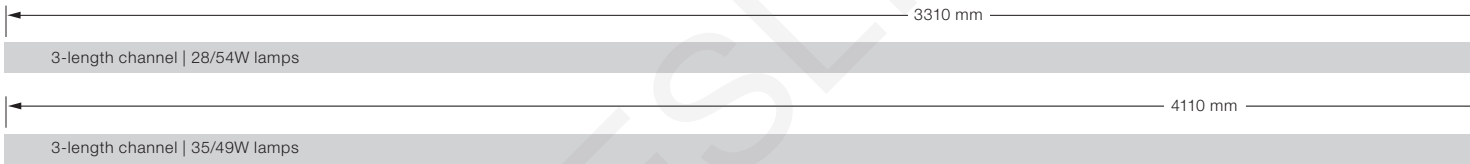
For multi-sensor versions of this luminaire, see **page 4.51**

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

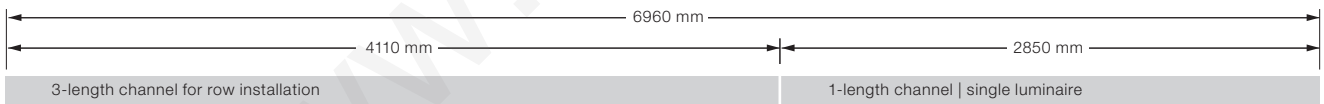
**Lengths: TECARIO® light channel for single luminaire**



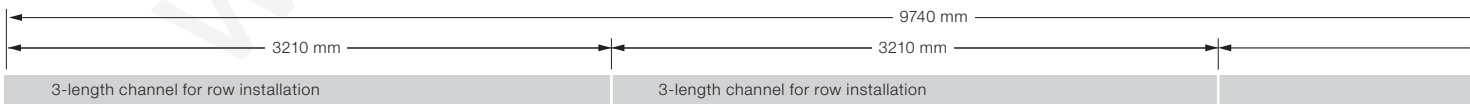
**Lengths: TECARIO® light channel for row installations**



**Configuration: TECARIO® continuous row – example with 35/49W lamps**



**Configuration: TECARIO® continuous row – example for a continuous row calculation, 28/54W lamps (room length: 10m)**



**Configuration: TECARIO® continuous row – example for a continuous row calculation with mixed 35W and 28W lamps**



**Finely matched lengths**

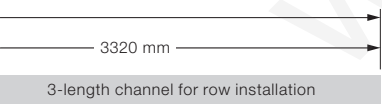
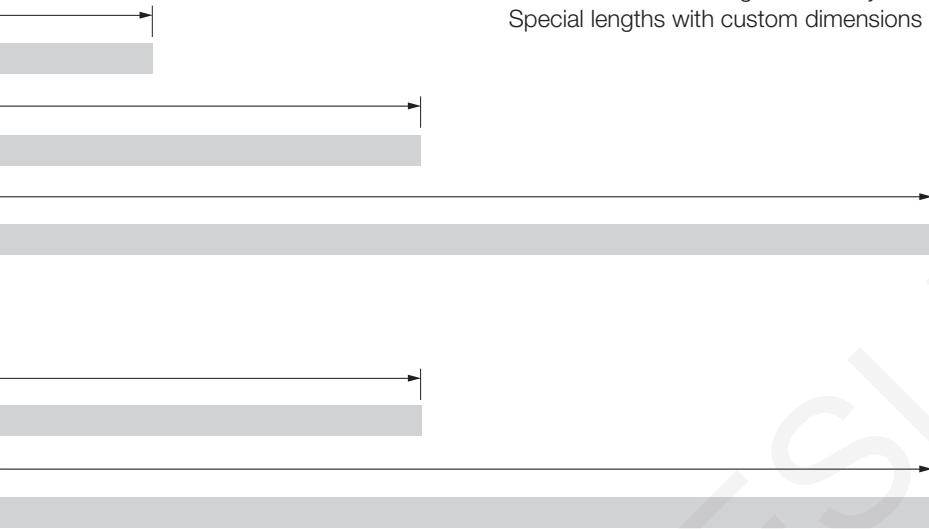
TECARIO® enables single luminaires and continuous rows of any length to be implemented. The basis for this is the slender light channel, available in various system lengths. This accommodates the luminaire modules and optical enclosures.

**Single luminaires**

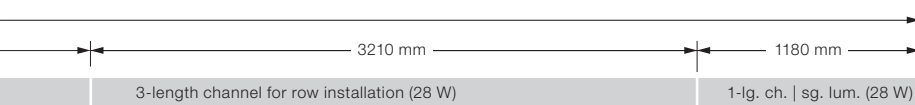
The light channel is available for single luminaires in system lengths for 28/54W and 35/49W in 1, 2 and 3-length.

**Continuous row configuration**

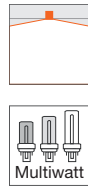
For longer continuous rows, the 3-length light channel for row installations is used either singly or repeatedly. The row is terminated with a 1 to 3-length single luminaire channel. This method enables light lines in system lengths 28/54W and 35/49W to be implemented. Special lengths with custom dimensions are available on request.



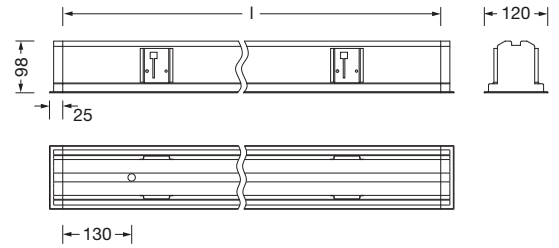
**(room length: 15m)**



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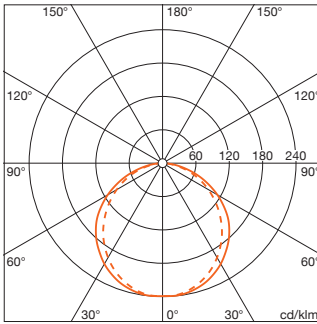


T16  
G5



4050737022758 + 4050737016283  
5MP31171W + 5MP6101W

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  69.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2504	4301
L <sub>70</sub>	4182	5505
L <sub>65</sub>	4771	5833

UGR 22.2 22.5

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.3	1.5	2.7	3.1	6.6	7.7
30 m <sup>2</sup>	2.0	2.2	4.0	4.5	9.9	11
40 m <sup>2</sup>	2.5	2.8	5.0	5.6	13	14
50 m <sup>2</sup>	3.0	3.3	6.1	6.7	15	17
75 m <sup>2</sup>	4.4	4.8	8.8	9.5	22	24
100 m <sup>2</sup>	5.7	6.1	11	12	28	30
500 m <sup>2</sup>	26	26	51	53	128	132

Maintenance factor 0.8

Rh = Lh

### TECARIO® | for single mounting with frosted cover

- Light line system for 1 or 2-length single mounting for ceiling recessing
- with frosted cover; diffuse distribution, without dark spots due to overlapping lamp positioning
- with ECG Multiwatt or ECG Multiwatt DALI
- modular system of housing, luminaire insert and optical enclosure: housing of extruded aluminum, anodized; end caps

- of diecast aluminum, white aluminum (RAL 9006); luminaire insert of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I
- housing incl. pre-assembled recessing accessories

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing



Light source



Length



Order no.  
OSRAM

Order no.  
Siteco

Luminaire housing

Luminaire housing	Length	Weight [kg]	ECG	OSRAM Order no.	Siteco Order no.
1x T16 28/54W	1-length	1180	2.8	4050737022291	5MP12130H
1x T16 35/49W	1-length	1480	3.5	4050737022314	5MP12130W
2x 1x T16 28/54W	2-length	2250	5.1	4050737022338	5MP12230H
2x 1x T16 35/49W	2-length	2850	6.5	4050737022369	5MP12230W

Luminaire insert

Luminaire insert	Light source	Length	Weight [kg]	ECG	OSRAM Order no.	Siteco Order no.	
1x T16 28/54W	G5	1-length	1174	1.0	Multi	4050737022703	5MP31171H
1x T16 28/54W	G5	1-length	1174	1.0	Multi DALI	4050737022765	5MP311D1H
1x T16 35/49W	G5	1-length	1474	1.4	Multi	4050737022758	5MP31171W
1x T16 35/49W	G5	1-length	1474	1.4	Multi DALI	4050737022819	5MP311D1W
2x 1x T16 28/54W	G5	2-length	2244	1.5	Multi	4050737042480	5MP31471H
2x 1x T16 28/54W	G5	2-length	2244	1.5	Multi DALI	4050737049199	5MP314D1H
2x 1x T16 35/49W	G5	2-length	2843	1.9	Multi	4050737049182	5MP31471W
2x 1x T16 35/49W	G5	2-length	2843	1.9	Multi DALI	4050737049311	5MP314D1W

Single cover, cover, frosted

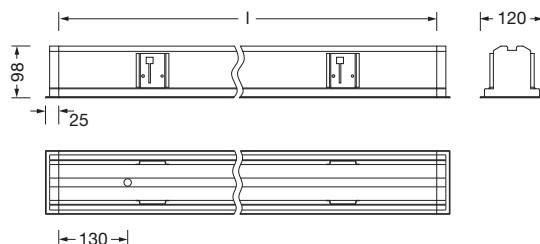
Single cover, cover, frosted	Length	Weight [kg]	OSRAM Order no.	Siteco Order no.	
1x T16 28/54W	1-length	1177	0.5	4050737016245	5MP6101H
1x T16 35/49W	1-length	1476	0.5	4050737016283	5MP6101W
2x 1x T16 28/54W	2-length	2244	0.6	4050737016382	5MP6104H
2x 1x T16 35/49W	2-length	2843	0.8	4050737016412	5MP6104W

- please order housing, end cap, light insert and optical enclosure separately
- please order mandatory accessories (end-cap set) separately; for details see page 4.55



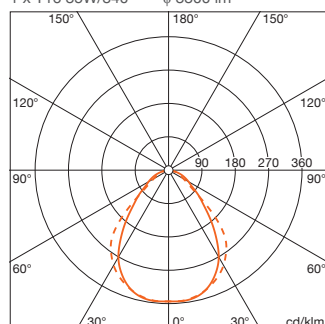


T16  
G5



4050737022758 + 4050737022963  
5MP31171W + 5MP6211W

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  69%  $\phi_d$  100%  $\phi_r$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1089	1926
L <sub>70</sub>	2198	2378
L <sub>65</sub>	2553	2620

UGR 18.3 18.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	1.2	1.3	2.4	2.6	5.9	6.6
30 m <sup>2</sup>	1.8	2.0	3.6	4.0	8.9	9.9
40 m <sup>2</sup>	2.3	2.5	4.6	5.1	12	13
50 m <sup>2</sup>	2.8	3.0	5.6	6.1	14	15
75 m <sup>2</sup>	4.1	4.4	8.2	8.8	21	22
100 m <sup>2</sup>	5.4	5.7	11	11	27	28
500 m <sup>2</sup>	25	26	50	52	126	129

Maintenance factor 0.8

Rh = Lh

### TECARIO® | for single mounting with High Definition Prismatics (HDP®)

Light line system for 1 or 2-length single mounting for ceiling recessing

- with High Definition Prismatics (HDP®), direct wide distribution, without dark spots due to overlapping lamp positioning
- with ECG Multiwatt or ECG Multiwatt DALI
- modular system of housing, luminaire insert and optical enclosure: housing of extruded aluminum, anodized; end caps of diecast aluminum, white aluminum

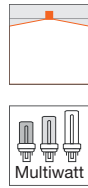
- (RAL 9006); luminaire insert of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I
- housing incl. pre-assembled recessing accessories

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing

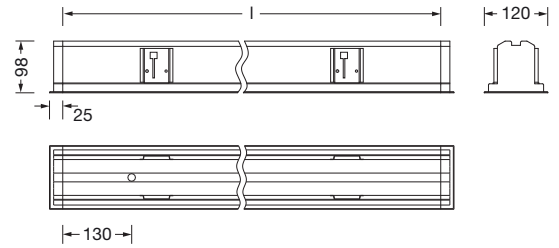


Light source	Length	l (mm)	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
<b>Luminaire housing</b>						
1x T16 28/54W	1-length	1180	2.8		4050737022291	5MP12130H
1x T16 35/49W	1-length	1480	3.5		4050737022314	5MP12130W
2x 1x T16 28/54W	2-length	2250	5.1		4050737022338	5MP12230H
2x 1x T16 35/49W	2-length	2850	6.5		4050737022369	5MP12230W
<b>Luminaire insert</b>						
1x T16 28/54W	G5 1-length	1174	1.0	Multi	4050737022703	5MP31171H
1x T16 28/54W	G5 1-length	1174	1.0	Multi DALI	4050737022765	5MP311D1H
1x T16 35/49W	G5 1-length	1474	1.4	Multi	4050737022758	5MP31171W
1x T16 35/49W	G5 1-length	1474	1.4	Multi DALI	4050737022819	5MP311D1W
2x 1x T16 28/54W	G5 2-length	2244	1.5	Multi	4050737042480	5MP31471H
2x 1x T16 28/54W	G5 2-length	2244	1.5	Multi DALI	4050737049199	5MP314D1H
2x 1x T16 35/49W	G5 2-length	2843	1.9	Multi	4050737049182	5MP31471W
2x 1x T16 35/49W	G5 2-length	2843	1.9	Multi DALI	4050737049311	5MP314D1W
<b>End cover, cover, High Definition Prismatics (HDP®)</b>						
1x T16 28/54W	1-length	1122	0.5		4050737022994	5MP6212H
1x T16 35/49W	1-length	1421	0.6		4050737023007	5MP6212W
<b>Single cover, cover, High Definition Prismatics (HDP®)</b>						
1x T16 28/54W	1-length	1177	0.7		4050737022949	5MP6211H
1x T16 35/49W	1-length	1476	0.8		4050737022963	5MP6211W

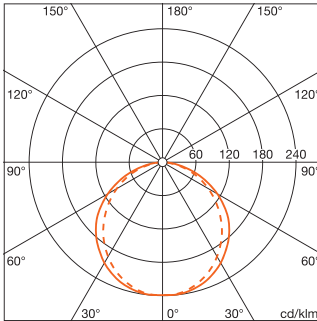
— please order housing, end cap, light insert and optical enclosure separately  
 — for 1-length luminaire housing, please order 1x "single cover", for 2-length luminaire housing, please order 2x "end cover"  
 — please order mandatory accessories (end-cap set) separately; for details see page 4.55



T16  
G5



4050737022758 + 4050737016368  
5MP31171W + 5MP6103W  
1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  69.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2706	4648
L <sub>70</sub>	4519	5948
L <sub>65</sub>	5156	6303

UGR 22.4 22.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

### TECARIO® | for continuous row mounting with frosted cover

Light line system for 3-length or multi-length continuous row mounting for ceiling recessing

- with frosted cover, diffuse distribution with ceiling illumination, without dark spots due to overlapping lamp positioning
- with ECG Multiwatt or ECG Multiwatt DALI
- modular system of housing, luminaire insert and optical enclosure: housing of extruded aluminum, anodized; end caps of diecast aluminum, white aluminum

(RAL 9006); luminaire insert of sheet steel, pure white

- cover of PMMA
- protection rating: IP20
- insulation class: I
- housing incl. pre-assembled recessing accessories

#### Configuration

##### Housing

Multi-length light line systems are implemented by using " housings for continuous row mounting " and one 1, 2 or 3-length individual housing. 2 photometric end caps as well as central covers of the correct quantity are required per light line

##### Light inserts and optical enclosures

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing



No. of luminaires in room





Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.3	1.5	2.7	3.1	6.6	7.7
30 m <sup>2</sup>	2.0	2.2	4.0	4.5	9.9	11
40 m <sup>2</sup>	2.5	2.8	5.0	5.6	13	14
50 m <sup>2</sup>	3.0	3.3	6.1	6.7	15	17
75 m <sup>2</sup>	4.4	4.8	8.8	9.5	22	24
100 m <sup>2</sup>	5.7	6.1	11	12	28	30
500 m <sup>2</sup>	26	26	51	53	128	132

Maintenance factor 0.8

Rh = Lh

Light source	Length	$\phi$ [mm]	Order no. OSRAM	Order no. Siteco
Luminaire housing				
1x T16 28/54W	1-length	1180	2.8	4050737022291 5MP12130H
1x T16 35/49W	1-length	1480	3.5	4050737022314 5MP12130W
2x 1x T16 28/54W	2-length	2250	5.1	4050737022338 5MP12230H
2x 1x T16 35/49W	2-length	2850	6.5	4050737022369 5MP12230W
3x 1x T16 28/54W	3-length	3320	8.7	4050737022413 5MP12430H
3x 1x T16 35/49W	3-length	4220	9.4	4050737022444 5MP12430W
Luminaire housing, continuous row mounting				
3x 1x T16 28/54W	3-length for continuous row mounting	3210	8.6	4050737022451 5MP12530H
3x 1x T16 35/49W	3-length for continuous row mounting	4110	9.6	4050737022475 5MP12530W

Light source		Length				Order no. OSRAM	Order no. Siteco
Luminaire insert							
1x T16 28/54W	G5	1-length	1174	1.0	Multi	4050737022703	5MP31171H
1x T16 28/54W	G5	1-length	1174	1.0	Multi DALI	4050737022765	5MP311D1H
1x T16 35/49W	G5	1-length	1474	1.4	Multi	4050737022758	5MP31171W
1x T16 35/49W	G5	1-length	1474	1.4	Multi DALI	4050737022819	5MP311D1W
2x 1x T16 28/54W	G5	2-length	2244	1.5	Multi	4050737042480	5MP31471H
2x 1x T16 28/54W	G5	2-length	2244	1.5	Multi DALI	4050737049199	5MP314D1H
2x 1x T16 35/49W	G5	2-length	2843	1.9	Multi	4050737049182	5MP31471W
2x 1x T16 35/49W	G5	2-length	2843	1.9	Multi DALI	4050737049311	5MP314D1W
End cover, frosted							
1x T16 28/54W		1-length	1122	0.3		4050737016306	5MP6102H
1x T16 35/49W		1-length	1421	0.6		4050737016337	5MP6102W
Central cover, frosted							
1x T16 28/54W		1-length	1067	0.3		4050737016344	5MP6103H
1x T16 35/49W		1-length	1366	0.4		4050737016368	5MP6103W
2x 1x T16 28/54W		2-length	2137	1.0		4050737016429	5MP6105H
2x 1x T16 35/49W		2-length	2736	0.8		4050737016443	5MP6105W

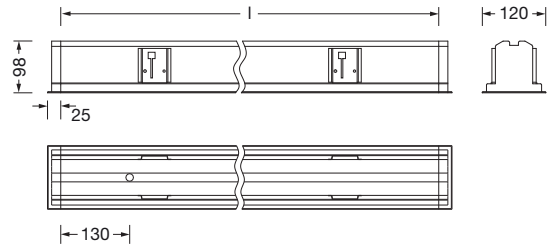
— please order housing, end cap, light insert and optical enclosure separately

#### Mandatory accessories (for details see page 4.55)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connector, sheet steel, galvanized		0.3	4050737017839	5MP90101
End-cap set for installation channel, white aluminum (RAL 9006) set of 2		0.2	4050737017648	5MP90302

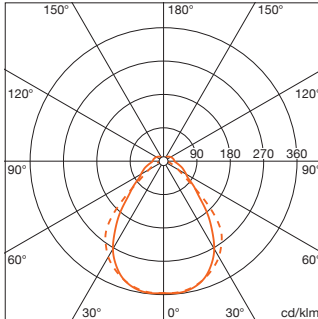


T16  
G5



4050737022758 + 4050737023052  
5MP31171W + 5MP6213W

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  80.4%  $\phi_{\downarrow}$  90%  $\phi_{\uparrow}$  10%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3418	2039
L <sub>70</sub>	3423	2475
L <sub>65</sub>	3439	2767

UGR 21.1 18.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

### TECARIO® | for continuous row mounting with High Definition Prismatics (HDP®)

Light line system for 3-length or multi-length continuous row mounting for ceiling recessing

- with High Definition Prismatics (HDP®), direct wide distribution, without dark spots due to overlapping lamp positioning
- with ECG Multiwatt or ECG Multiwatt DALI
- modular system of housing, luminaire insert and optical enclosure: housing of extruded aluminum, anodized; end caps of diecast aluminum, white aluminum

- (RAL 9006); luminaire insert of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I
- housing incl. pre-assembled recessing accessories

#### Configuration

##### Housing

Multi-length light line systems are implemented by using " housings for continuous row mounting " and one 1, 2 or 3-length individual housing. 2 photometric end caps as well as central covers of the correct quantity are required per light line

##### Light inserts and optical enclosures

Only light inserts and covers for 28/54W can be used in the 28/54W housing; only light inserts and covers for 35/49W can be used in the 35/49W housing



#### No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.2	1.3	2.4	2.6	5.9	6.6						
30 m <sup>2</sup>	1.8	2.0	3.6	4.0	8.9	9.9						
40 m <sup>2</sup>	2.3	2.5	4.6	5.1	12	13						
50 m <sup>2</sup>	2.8	3.0	5.6	6.1	14	15						
75 m <sup>2</sup>	4.1	4.4	8.2	8.8	21	22						
100 m <sup>2</sup>	5.4	5.7	11	11	27	28						
500 m <sup>2</sup>	25	26	50	52	126	129						





Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

Light source	Length	$\frac{l}{\text{mm}}$		Order no. OSRAM	Order no. Siteco
Luminaire housing					
1x T16 28/54W	1-length	1180	2.8	4050737022291	5MP12130H
1x T16 35/49W	1-length	1480	3.5	4050737022314	5MP12130W
2x 1x T16 28/54W	2-length	2250	5.1	4050737022338	5MP12230H
2x 1x T16 35/49W	2-length	2850	6.5	4050737022369	5MP12230W
3x 1x T16 28/54W	3-length	3320	8.7	4050737022413	5MP12430H
3x 1x T16 35/49W	3-length	4220	9.4	4050737022444	5MP12430W

#### Luminaire housing, continuous row mounting

3x 1x T16 28/54W	3-length for continuous row mounting	3210	8.6	4050737022451	5MP12530H
3x 1x T16 35/49W	3-length for continuous row mounting	4110	9.6	4050737022475	5MP12530W

Light source		Length				Order no.	
						OSRAM	Siteco
Luminaire insert							
1x T16 28/54W	G5	1-length	1174	1.0	Multi	4050737022703	5MP31171H
1x T16 28/54W	G5	1-length	1174	1.0	Multi DALI	4050737022765	5MP311D1H
1x T16 35/49W	G5	1-length	1474	1.4	Multi	4050737022758	5MP31171W
1x T16 35/49W	G5	1-length	1474	1.4	Multi DALI	4050737022819	5MP311D1W
2x 1x T16 28/54W	G5	2-length	2244	1.5	Multi	4050737042480	5MP31471H
2x 1x T16 28/54W	G5	2-length	2244	1.5	Multi DALI	4050737049199	5MP314D1H
2x 1x T16 35/49W	G5	2-length	2843	1.9	Multi	4050737049182	5MP31471W
2x 1x T16 35/49W	G5	2-length	2843	1.9	Multi DALI	4050737049311	5MP314D1W
End cover, High Definition Prismatics (HDP®)							
1x T16 28/54W		1-length	1122	0.5		4050737022994	5MP6212H
1x T16 35/49W		1-length	1421	0.6		4050737023007	5MP6212W
Central cover, High Definition Prismatics (HDP®)							
1x T16 28/54W		1-length	1067	0.6		4050737023021	5MP6213H
1x T16 35/49W		1-length	1366	0.9		4050737023052	5MP6213W

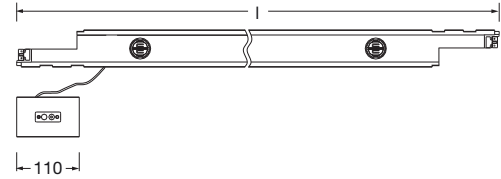
— please order housing, end cap, light insert and optical enclosure separately

#### Mandatory accessories (for details see page 4.55)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connector, sheet steel, galvanized		0.3	4050737017839	5MP90101
End-cap set for installation channel, white aluminum (RAL 9006) set of 2		0.2	4050737017648	5MP90302



T16  
G5



**TECARIO® | with frosted cover or with HDP®**  
**Luminaire insert with multi-sensor | for single or continuous row mounting**

- Light line system: T16 luminaire insert with light and presence sensor
- luminaire insert of sheet steel, pure white
  - for frosted cover or High Definition Prismatic (HDP®)
  - protection rating: IP20
  - luminaire insert with ECG Multiwatt DALI and light and presence sensor
  - insulation class: I

The luminaire insert with multi-sensor can replace a luminaire insert without multi-sensor in all housings; only light inserts for 28/54W can be used in the 28/54W housing; only light inserts for 35/49W can be used in the 35/49W housing

**Function**

- fully automatic operation, with sensor-controlled ON/OFF/bright/dark or manual operation ON/OFF/bright/dark via convenient remote control or external push-button
- luminaire operates as master, a max. of 10 further luminaires (slaves) can be switched and dimmed

Detailed information: see data sheet and chapter 13 "Light management systems"



Light source					Order no. OSRAM	Order no. Siteco
Luminaire insert						
1x T16 28/54W	G5	1174	1.4	Multi DALI	4050737050867	5MP311D1HMA
1x T16 35/49W	G5	1474	1.6	Multi DALI	4050737050874	5MP311D1WMA

- please order housing, end cap, multi-sensor, luminaire insert for multi-sensor and optical enclosure separately
- with use of multi-sensor, a central cover (sensor length: 110mm) is used

**Mandatory accessories (for details see chapter 13)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cover with ActiLume sensor, aluminum, anodized	0.2	4050737040448	5MP90501
Cover with ActiLume sensor, aluminum, painted, white aluminum (RAL 9006)	0.2	4050737040462	5MP90502

**Accessories (for details see chapter 13)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Convenient remote control	0.1	4050737020426	5LZ914009
Wall mounting	0.1	4050737020433	5LZ914010
Commissioning remote control	0.1	4050737018539	5LZ914007





T16  
G5



**TECARIO® | with frosted cover or with HDP®**  
**Luminaire insert with single battery | for single or continuous row mounting**

- Light line system: T16 luminaire insert with single battery
- for frosted cover or High Definition Prismatic (HDP®)
  - luminaire insert with ECG Multiwatt, additionally with single battery
  - luminaire insert of sheet steel, pure white
  - protection rating: IP20
  - insulation class: I





The luminaire insert with single battery can be used in housings for 35/49W

**Electrics**

- Luminaire insert for operation on normal mains or via the integral separate battery supply
- luminaire wired ready for connection, with 4-pole or 6-pole connection (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase; with ECG DALI: 4-pole + 2-pole for control signal)
  - switched phase and unswitched phase must have same phase angle
  - single battery for 1h operation with reduced luminous flux
  - with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet

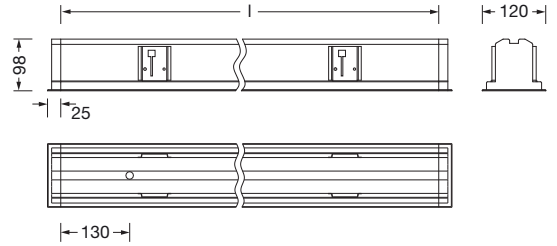


Light source		 [mm]			Order no. OSRAM	Order no. Siteco
Luminaire insert, 1h nominal operating duration						
1x T16 35/49W	G5	1474	2.0	Multi	4050737023694	5MP31171W1
1x T16 35/49W	G5	1474	2.0	Multi DALI	4050737042138	5MP311D1W1

— please order housing, end cap, light insert and optical enclosure separately

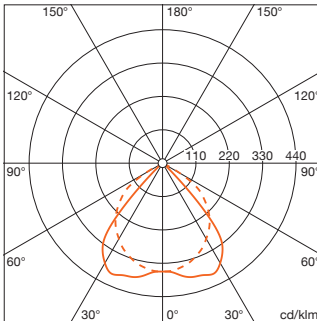


T16  
G5



4050737022871 + 4050737023069  
5MP31271H + 5MP6221H

1 x T16 28W/840  $\phi$  2600 lm



$\eta_{LB}$  73.6%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	135	102
L <sub>70</sub>	139	141
L <sub>65</sub>	149	372

UGR 16.4 19.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.3	1.4	2.6	2.8	6.5	7.1						
30 m <sup>2</sup>	2.0	2.2	4.1	4.5	10	11						
40 m <sup>2</sup>	2.6	2.9	5.1	5.8	13	14						
50 m <sup>2</sup>	3.1	3.4	6.3	6.8	16	17						
75 m <sup>2</sup>	4.8	5.0	9.5	10.0	24	25						
100 m <sup>2</sup>	6.1	6.5	12	13	31	33						
500 m <sup>2</sup>	29	30	59	61	147	152						

Maintenance factor 0.8

Rh = Lh

**TECARIO® | with CAT2 specular louver and transparent cover for single or continuous row mounting**

Light line system for single or continuous row mounting for ceiling recessing

- with highly specular louver, direct wide distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with cover, transparent
- with ECG Multiwatt or ECG Multiwatt DALI
- modular system of housing, luminaire insert and optical enclosure; housing of extruded aluminum, anodized; end caps

- of diecast aluminum, white aluminum (RAL 9006); luminaire insert of sheet steel, pure white
- cover of PMMA
- protection rating: IP20
- insulation class: I
- housing incl. pre-assembled recessing accessories

- multi-length light line systems implemented with use of several individual housings

only light inserts and covers for 28/54W can be used in the 28/54W housing;  
only light inserts and covers for 35/49W can be used in the 35/49W housing



Light source



Length



Order no.  
**OSRAM**

Order no.  
**Siteco**

Luminaire housing

	Length	Length [mm]	Weight [kg]	Order no. OSRAM	Order no. Siteco
1x T16 28/54W	1-length	1180	2.8	4050737022291	5MP12130H
1x T16 35/49W	1-length	1480	3.5	4050737022314	5MP12130W
2x 1x T16 28/54W	2-length for louver	2360	5.4	4050737022376	5MP12330H
2x 1x T16 35/49W	2-length for louver	2960	6.7	4050737022390	5MP12330W

Luminaire insert

	Light source	Length	Length [mm]	Weight [kg]	Technology	Order no. OSRAM	Order no. Siteco
1x T16 28/54W	G5	1-length	1174	1.2	Multi	4050737022871	5MP31271H
1x T16 28/54W	G5	1-length	1174	1.2	Multi DALI	4050737022901	5MP312D1H
1x T16 35/49W	G5	1-length	1474	1.1	Multi	4050737022888	5MP31271W
1x T16 35/49W	G5	1-length	1474	1.1	Multi DALI	4050737022932	5MP312D1W

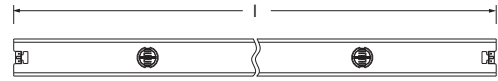
Cover, louver

	Length	Length [mm]	Weight [kg]	Order no. OSRAM	Order no. Siteco
1x T16 28/54W	1-length	1177	0.7	4050737023069	5MP6221H
1x T16 35/49W	1-length	1476	0.9	4050737023083	5MP6221W

- please order housing, end cap, light insert and optical enclosure separately
- please order mandatory accessories (end-cap set and connectors) separately; for details see page 4.55



T16  
G5



**TECARIO® | with CAT2 specular louver and transparent cover**  
**Luminaire insert with single battery | for single or continuous row mounting**

- Light line system: T16 luminaire insert with single battery
- for CAT2 specular louver
- luminaire insert with ECG Multiwatt or ECG Multiwatt DALI, additionally with single battery
- luminaire insert of sheet steel, pure white
- protection rating: IP20
- insulation class: I

The luminaire insert with single battery can be used in housings for 35/49W

**Electrics**

Luminaire insert for operation on normal mains or via the integral separate battery supply

- luminaire wired ready for connection, with 4-pole or 6-pole connection (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase; with ECG DALI 4-pole + 2-pole for control signal)
- switched phase and unswitched phase must have same phase angle
- single battery for 1h operation with reduced luminous flux
- with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



**Light source**



**Order no.  
OSRAM**

**Order no.  
Siteco**

Luminaire insert, 1h nominal operating duration

1x T16 35/49W	G5	1474	2.0	Multi	4050737041407	5MP31271W1
1x T16 35/49W	G5	1474	2.0	Multi DALI	4050737041421	5MP312D1W1

- please order housing, end cap, light insert and optical enclosure separately

### TECARIO® mounting accessories



#### End cap for TECARIO® housing

Screw fastening from the inside of the housing; no screws visible from the outside | diecast aluminum, white aluminum (RAL 9006)

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	set of 2	4050737017648	5MP90302

— further cable entry through top of rail



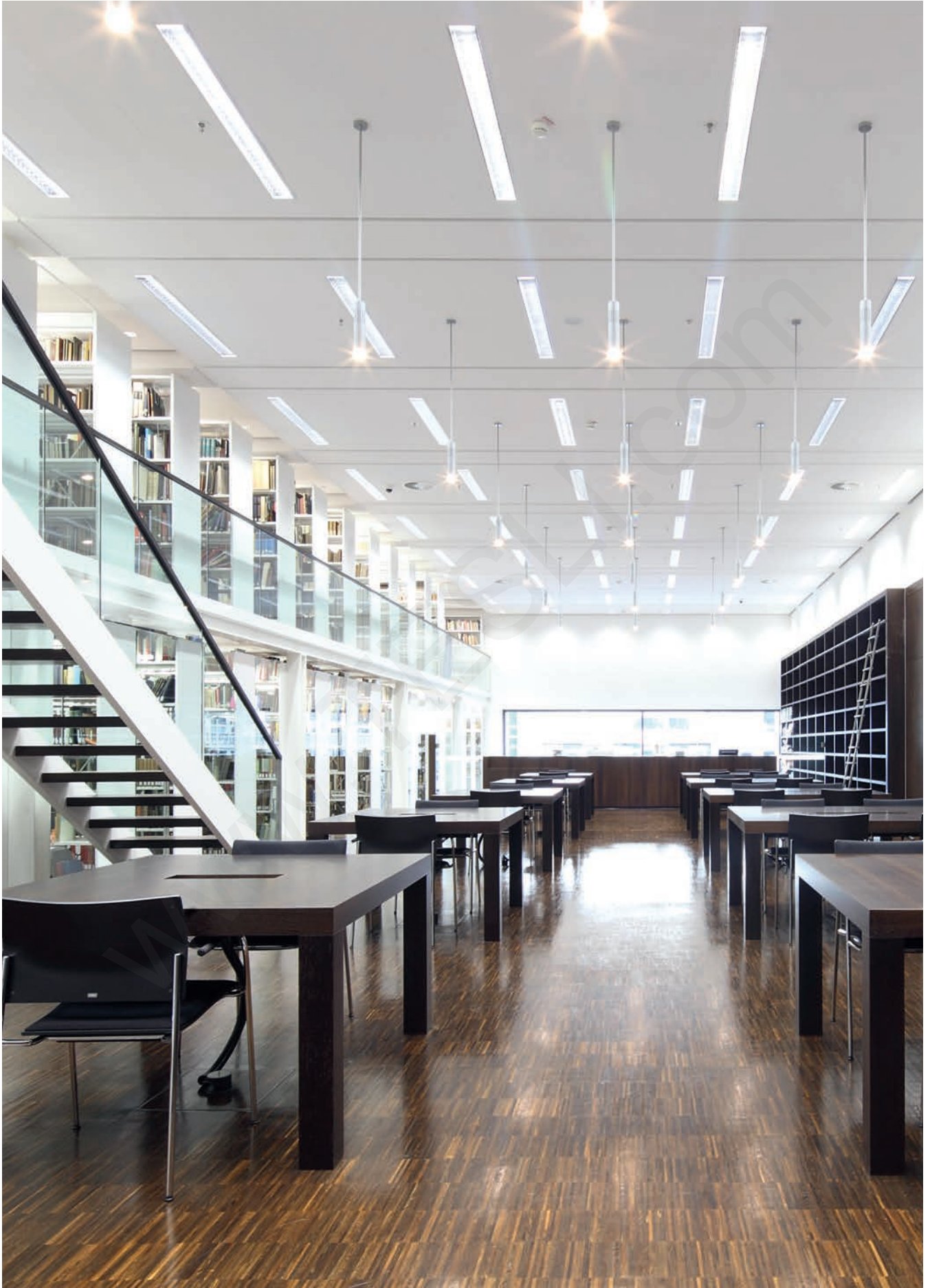
#### Connectors for TECARIO® housing

Steel, galvanized | firm, flush-fit connection by double-screw fastening | self-supporting

Designation	Order no. OSRAM	Order no. Siteco
Longitudinal connector	4050737017839	5MP90101

— self-supporting connection, suspension not required at joins

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## SILUNA®



The luminaires of the SiLUNA® family create indirect, diffuse and uniform light with a decorative direct component. The luminaires feature a large, symmetric distribution secondary reflector for diffuse light and a primary cover for the direct light component.

The white-coated, matt surface of the secondary reflector creates a wide beam, uniform light distribution and a pleasant light ambiance. The primary cover mirrors the curved design of the secondary reflector. The enclosure is either a transparent prismatic or opal cover or a mainly indirect distribution reflector. The reflector with perforated structure is equipped with an inner opalized special foil. The opalized foil and perforated structure allow a small decorative light component to pass through, while avoiding direct glare and disturbing light reflection.

### Features

- wide and soft light distribution
- the primary cover is either a prismatic or opal cover or an indirect distribution reflector with finely perforated structure for the decorative direct light component

### Lighting technology

Secondary component:

- secondary reflector with symmetric distribution, coated white with a special matt surface for harmonious and uniform light distribution

Direct component:

- perforated primary reflector with inner opalized special foil preventing direct viewing of lamp, direct glare and disturbing reflections
- transparent prismatic primary cover for supplementary wide direct component
- opal primary cover for supplementary diffuse direct component

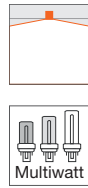
### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole and 2-pole for control signal), max. 2.5mm<sup>2</sup>

### Housing

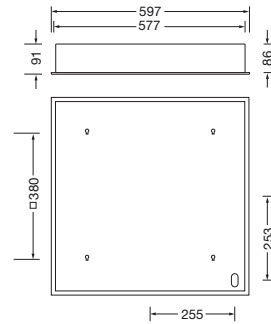
Housing of sheet steel, pure white (similar to RAL 9010) with flush-fitting primary reflector of aluminum, white-coated | opal and prismatic primary cover of PMMA





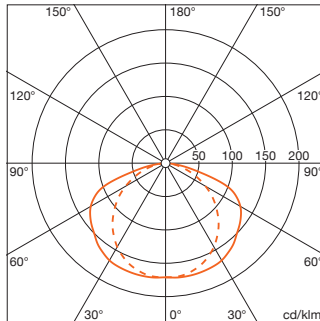
T16  
G5

TC-LEL  
2G11



4050737009155  
5LJ79371UD

1 x TC-LEL 55W/840  $\phi$  4800 lm



$\eta_{LB}$  59%  $\phi_d$  100%  $\phi_r$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2396	1342
L <sub>70</sub>	4128	1749
L <sub>65</sub>	4110	1912

UGR 22.3 19.2

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.3	2.7	5.6	6.6						
30 m <sup>2</sup>	1.7	1.9	3.3	3.8	8.3	9.5						
40 m <sup>2</sup>	2.1	2.4	4.2	4.7	11	12						
50 m <sup>2</sup>	2.5	2.8	5.0	5.6	13	14						
75 m <sup>2</sup>	3.6	4.0	7.2	7.9	18	20						
100 m <sup>2</sup>	4.7	5.0	9.3	10	23	25						
500 m <sup>2</sup>	21	22	42	43	104	108						

Maintenance factor 0.8

Rh = Lh

### SiLUNA® secondary luminaire with perforated primary reflector

Single luminaire for ceiling recessing  
 — with white secondary reflector and perforated lamp channel, secondary distribution with decorative direct component  
 — with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

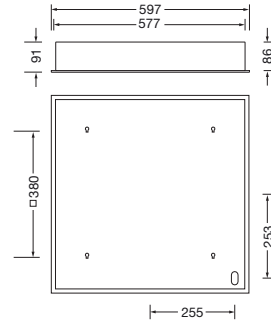


#### Light source



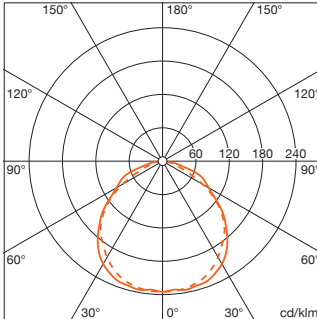
for M600 and for cut ceiling aperture

				Order no. OSRAM	Order no. Siteco
2x T16 14/24 W	G5	4.3	Multi DALI	4050737066561	5LJ793D2BD
2x T16 24 W	G5	4.1	ECG	4050737009186	5LJ79372YD
2x T16 24 W	G5	4.1	1...10V	4050737009087	5LJ79362YD
1x TC-LEL 40 W	2G11	3.9	ECG	4050737009216	5LJ79375UD
1x TC-LEL 40 W	2G11	3.9	1...10V	4050737009100	5LJ79365UD
1x TC-LEL 55 W	2G11	4.8	ECG	4050737009155	5LJ79371UD
1x TC-LEL 55 W	2G11	4.8	DALI	4050737069029	5LJ793D1UD
1x TC-LEL 55 W	2G11	4.8	1...10V	4050737009049	5LJ79361UD
2x TC-LEL 40 W	2G11	4.1	ECG	4050737009223	5LJ79376UD
2x TC-LEL 40 W	2G11	4.1	DALI	4050737071800	5LJ793D6UD
2x TC-LEL 40 W	2G11	4.1	1...10V	4050737009124	5LJ79366UD
2x TC-LEL 55 W	2G11	4.3	ECG	4050737009162	5LJ79372UD
2x TC-LEL 55 W	2G11	4.3	DALI	4050737087931	5LJ793D2UD
2x TC-LEL 55 W	2G11	4.3	1...10V	4050737009063	5LJ79362UD



4050737012070  
5LJ79471U

1 x TC-LEL 55W/840  $\phi$  4800 lm



$\eta_{LB}$  64.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2077	1079
L <sub>70</sub>	2951	1468
L <sub>65</sub>	2936	1902

UGR 20.4 18.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.1	1.9	2.2	4.7	5.5
30 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.1	8.0
40 m <sup>2</sup>	1.8	2.0	3.6	4.0	9.1	10
50 m <sup>2</sup>	2.2	2.4	4.4	4.8	11	12
75 m <sup>2</sup>	3.2	3.4	6.3	6.9	16	17
100 m <sup>2</sup>	4.1	4.4	8.2	8.8	21	22
500 m <sup>2</sup>	19	19	38	39	94	97

Maintenance factor 0.8

Rh = Lh

**SiLUNA® secondary luminaire with prismatic cover**

Single luminaire for ceiling recessing  
 — with white secondary reflector and transparent prismatic cover, direct and secondary distribution  
 — with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



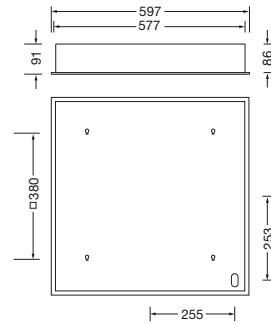
for M600 and for cut ceiling aperture

				Order no. OSRAM	Order no. Siteco
2x T16 24 W	G5	4.7	ECG	4050737012322	5LJ79472Y
2x T16 24 W	G5	4.7	DALI	4050737012421	5LJ794D2Y
2x T16 24 W	G5	4.7	1...10V	4050737012056	5LJ79462Y
1x TC-LEL 55 W	2G11	4.6	ECG	4050737012070	5LJ79471U
1x TC-LEL 55 W	2G11	4.6	DALI	4050737012094	5LJ794D1U
1x TC-LEL 55 W	2G11	4.6	1...10V	4050737012032	5LJ79461U



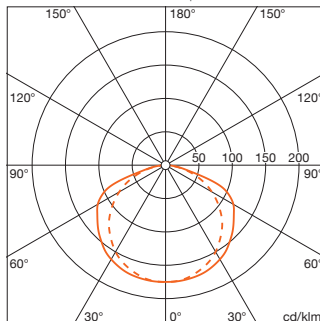
T16  
G5

TC-LEL  
2G11



4050737012476  
5LJ79571U

1 x TC-LEL 55W/840  $\phi$  4800 lm



$\eta_{LB}$  58.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2014	1752
L <sub>70</sub>	3615	2197
L <sub>65</sub>	3691	2320

UGR 21.5 20  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.3	2.7	5.7	6.7
30 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.4	9.6
40 m <sup>2</sup>	2.1	2.4	4.3	4.8	11	12
50 m <sup>2</sup>	2.5	2.8	5.1	5.7	13	14
75 m <sup>2</sup>	3.7	4.0	7.3	8.0	18	20
100 m <sup>2</sup>	4.7	5.1	9.4	10	24	26
500 m <sup>2</sup>	21	22	42	44	106	110

Maintenance factor 0.8

Rh = Lh

### SiLUNA® secondary luminaire with opal cover

Single luminaire for ceiling recessing  
 — with white secondary reflector and opal cover, direct and secondary distribution  
 — with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



#### Light source



for M600 and for cut ceiling aperture

				Order no. OSRAM	Order no. Siteco
2x T16 24 W	G5	4.1	ECG	4050737012506	5LJ79572Y
2x T16 24 W	G5	4.1	DALI	4050737012537	5LJ795D2Y
2x T16 24 W	G5	4.1	1...10V	4050737012452	5LJ79562Y
1x TC-LEL 55 W	2G11	4.3	ECG	4050737012476	5LJ79571U
1x TC-LEL 55 W	2G11	4.3	DALI	4050737012513	5LJ795D1U
1x TC-LEL 55 W	2G11	4.3	1...10V	4050737012438	5LJ79561U

### SiLUNA® mounting accessories

#### Rapid-mounting bracket

for support profiles or mounting surfaces positioned longitudinally to the luminaire



Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 25...40mm	set of 4	4039806133953	5LF90014XC
Clamping range 40...55mm	set of 4	4039806137593	5LF90024XC

— 4 units required per luminaire

www.TESLI.com



## Siteco® Louvre Luminaire XS



The luminaires of the Siteco® Louvre Luminaire XS family are characterized by a slimline design. The luminaires can be combined to a continuous row or, with the aid of snap-fit end caps, can be installed as single luminaires in system ceilings with M625 or M600 module dimensions. The Siteco® Louvre Luminaire XS luminaires are equipped with a variety of optical accessories. CAT2 specular louvers of light-output-ratio-optimized aluminum (MIRO®), extruded aluminum louvers or opal covers are available. A wide selection of efficient T16 fluorescent lamps is available for the Siteco® Louvre Luminaire XS luminaires configuration.

### Features

- luminaire design reduced to primary function of light emittance, with especially flat construction
- for high-quality suspended ceiling systems and module 100 panel ceilings
- continuous row mounting with optically seamless diffusers or optically seamless louvers
- torsionally rigid, roll-formed metal housing

### Lighting technology

- Highly specular, light-output-ratio-optimized, aluminum louver (MIRO®), CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- specular louver, aluminum, matt anodized, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- opal cover, wide distribution

### Electrics

Luminaire wired ready for connection | with 5-pole connection terminal (ECG DALI or ECG 1...10V: 5-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

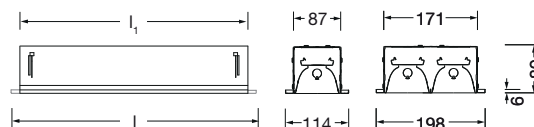
### Housing

Housing and luminaire frame of sheet steel, pure white (similar to RAL 9010) | the housing length can be adapted to M625 or M600 ceiling modules with clip-on end caps; the housing width is designed for panel ceilings with 100mm module dimensions (longitudinal housing edge has housing color as standard) | louver and cover mounted without tools and fixed into luminaire housing with catches; these are secured with safety retaining cords and earthed for protection even when hinged downwards | cover of PMMA



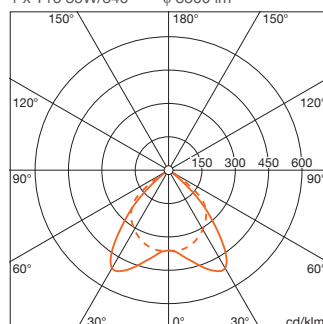


T16  
G5



4039806267290  
5LF41B71R

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  86.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	0
L <sub>70</sub>	50	0
L <sub>65</sub>	98	303

UGR 16.8 18.1

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	
20 m <sup>2</sup>	0.9	0.9	1.7	1.9	4.4	4.7						
30 m <sup>2</sup>	1.3	1.5	2.7	3.0	6.7	7.6						
40 m <sup>2</sup>	1.7	1.9	3.5	3.8	8.7	9.6						
50 m <sup>2</sup>	2.1	2.3	4.2	4.6	10	11						
75 m <sup>2</sup>	3.1	3.4	6.2	6.8	16	17						
100 m <sup>2</sup>	4.1	4.3	8.2	8.7	20	22						
500 m <sup>2</sup>	20	20	39	40	98	101						

Maintenance factor 0.8

Rh = Lh

### Siteco® Louvre Luminaire XS for single or continuous row mounting | for T16 lamps with CAT2 highly specular louvre, highly reflective (MIRO®)

Luminaire for single or continuous row mounting for ceiling recessing

- with highly specular louvre (MIRO®), highly reflective, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG or ECG Multiwatt
- housing of sheet steel, pure white (similar to RAL 9010)

- protection rating: IP20
- insulation class: I
- continuous row luminaire, without end caps

- continuous row luminaire without end caps (length =  $l_1$ ), please order end cap sets ( $l = 2 \times 11 \text{mm}$ ) separately
- when mounting as a single luminaire, the luminaire with the length  $l_1 = 1177 \text{mm}$  can be adapted via suitable end caps to system ceilings with module size 625mm (Module 625: LR =  $2 \times 36 \text{mm}$ ) or with module size 600mm (Module 600: LR =  $2 \times 11 \text{mm}$ )
- the width of the luminaire is designed for panel ceilings with module size 100mm (Module 100)
- longitudinal luminaire flange has same color as housing



Light source



Order no.  
OSRAM

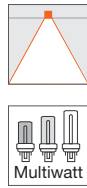
Order no.  
Siteco

Single/continuous row mounting

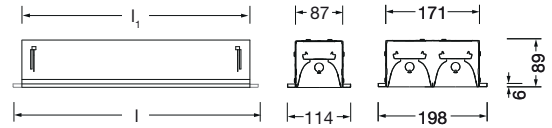
1x T16 21/39 W	G5	898/948	877	2.0	Multi DALI	4050737003764	5LF41BD1L		
1x T16 28 W	G5	1198/1248	1177	2.8	ECG	4039806267276	5LF41B71P		
1x T16 54 W	G5	1198/1248	1177	2.8	ECG	4039806267252	5LF41B71J		
1x T16 28/54 W	G5	1198/1248	1177	2.8	Multi DALI	4050737003757	5LF41BD1H		
1x T16 28/54 W	G5	1198/1248	1177	2.8	Multi 1...10V	4050737008363	5LF41B61H		
1x T16 35 W	G5	1498/1548	1477	3.3	ECG	4039806267290	5LF41B71R		
1x T16 49 W	G5	1498/1548	1477	3.5	ECG	4039806267238	5LF41B71F		
1x T16 80 W	G5	1498/1548	1477	3.5	ECG	4039806267313	5LF41B71X		
1x T16 35/49/80 W	G5	1498/1548	1477	3.5	Multi DALI	4050737003788	5LF41BD1Q		
1x T16 35/49/80 W	G5	1498/1548	1477	3.5	Multi 1...10V	4050737003627	5LF41B61Q		
2x T16 28 W	G5	1198/1248	1177	4.2	ECG	4039806267375	5LF41B72P		
2x T16 54 W	G5	1198/1248	1177	4.4	ECG	4039806267351	5LF41B72J		
2x T16 28/54 W	G5	1198/1248	1177	4.3	Multi 1...10V	4050737004129	5LF41B62H		
2x T16 35 W	G5	1498/1548	1477	4.8	ECG	4039806267399	5LF41B72R		
2x T16 49 W	G5	1498/1548	1477	5.0	ECG	4039806267337	5LF41B72F		
2x T16 80 W	G5	1498/1548	1477	5.2	ECG	4039806267412	5LF41B72X		
2x T16 35/49/80 W	G5	1498/1548	1477	5.2	Multi DALI	4050737004167	5LF41BD2Q		
2x T16 35/49 W	G5	1498/1548	1477	5.2	Multi 1...10V	4050737003702	5LF41B62W		

- please order end caps separately
- please order mounting accessories separately

For necessary accessories (end cap and mounting accessories), see page 4.70

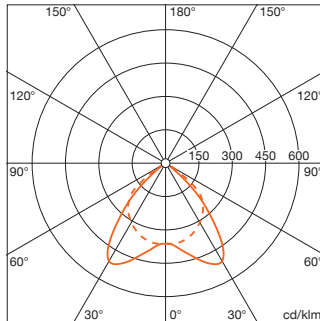


T16  
G5



4039806415905  
5LF41B72RW

2 x T16 35W/840  $\phi$  6600 lm



$\eta_{LB}$  86.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	0
L <sub>70</sub>	48	0
L <sub>65</sub>	94	292

UGR 16.7 18  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.4	0.5	0.9	0.9	2.2	2.4
30 m <sup>2</sup>	0.7	0.8	1.3	1.5	3.3	3.8
40 m <sup>2</sup>	0.9	1.0	1.7	1.9	4.3	4.8
50 m <sup>2</sup>	1.0	1.1	2.1	2.3	5.2	5.7
75 m <sup>2</sup>	1.6	1.7	3.1	3.4	7.8	8.5
100 m <sup>2</sup>	2.0	2.2	4.1	4.3	10	11
500 m <sup>2</sup>	9.8	10	20	20	49	50

Maintenance factor 0.8

Rh = Lh

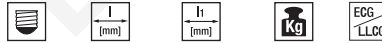
**Siteco® Louvre Luminaire XS for single mounting, M625 | for T16 lamps with CAT2 highly specular louver, highly reflective (MIRO®)**

- Single luminaire for ceiling recessing
- with highly specular louver (MIRO®), highly reflective, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG or ECG Multiwatt
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- with manufacturer-fitted end caps

- luminaires with manufacturer-fitted end caps (length:  $l = 1248\text{mm}$ ) have lengths suitable for system ceilings with module size 625mm (Module 625)
- the width of the luminaire is designed for panel ceilings with module size 100mm (Module 100)
- longitudinal luminaire flange has same color as housing



**Light source**



Single mounting, for M625 and for cut ceiling aperture

Light source	l [mm]	h [mm]	ECG	Order no. OSRAM	Order no. Siteco
1x T16 21/39 W	G5	948	877	2.3	Multi 1...10V 4050737003603 5LF41B61LW
1x T16 28 W	G5	1248	1177	2.9	ECG 4039806414120 5LF41B71PW
1x T16 54 W	G5	1248	1177	2.9	ECG 4039806414106 5LF41B71JW
1x T16 28/54 W	G5	1248	1177	2.8	Multi DALI 4039806902993 5LF41BD1HW
1x T16 28/54 W	G5	1248	1177	2.8	Multi 1...10V 4050737003597 5LF41B61HW
2x T16 28 W	G5	1248	1177	4.4	ECG 4039806414168 5LF41B72PW
2x T16 54 W	G5	1248	1177	4.4	ECG 4039806414144 5LF41B72JW
2x T16 28/54 W	G5	1248	1177	4.4	Multi DALI 4050737019291 5LF41BD2HW
2x T16 28/54 W	G5	1248	1177	4.4	Multi 1...10V 4050737003689 5LF41B62HW

Single mounting, for cut ceiling aperture

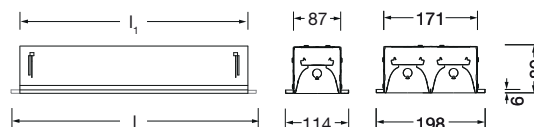
Light source	l [mm]	h [mm]	ECG	Order no. OSRAM	Order no. Siteco
1x T16 35 W	G5	1548	1477	3.6	ECG 4039806415875 5LF41B71RW
1x T16 49 W	G5	1548	1477	3.6	ECG 4039806415868 5LF41B71FW
1x T16 80 W	G5	1548	1477	3.6	ECG 4039806415882 5LF41B71XW
1x T16 35/49/80 W	G5	1548	1477	3.6	Multi DALI 4050737004150 5LF41BD1QW
1x T16 35/49/80 W	G5	1548	1477	3.6	Multi 1...10V 4050737003641 5LF41B61QW
2x T16 35 W	G5	1548	1477	5.3	ECG 4039806415905 5LF41B72RW
2x T16 49 W	G5	1548	1477	5.3	ECG 4039806415899 5LF41B72FW
2x T16 80 W	G5	1548	1477	5.3	ECG 4039806415912 5LF41B72XW
2x T16 35/49/80 W	G5	1548	1477	5.3	Multi DALI 4050737004181 5LF41BD2QW
2x T16 35/49 W	G5	1548	1477	5.3	Multi 1...10V 4039806849823 5LF41B62WW

— please order mounting accessories separately

**For mounting accessories, see page 4.70**

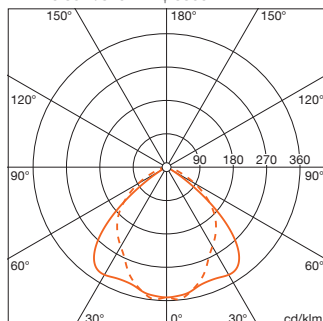


T16  
G5



4039806267092  
5LF41671R

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  74.5%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2	1769
L <sub>70</sub>	174	2782
L <sub>65</sub>	540	3799

UGR 17.8 19.7

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.2	2.1	2.4	5.2	6.1
30 m <sup>2</sup>	1.7	1.9	3.4	3.7	8.5	9.4
40 m <sup>2</sup>	2.1	2.4	4.3	4.7	11	12
50 m <sup>2</sup>	2.6	2.8	5.2	5.7	13	14
75 m <sup>2</sup>	3.9	4.1	7.8	8.2	19	21
100 m <sup>2</sup>	5.0	5.3	9.9	11	25	26
500 m <sup>2</sup>	23	24	47	48	117	120

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire XS for single or continuous row mounting | for T16 lamps with extruded aluminum louver, matt | wide distribution**

Luminaire for single or continuous row mounting; for ceiling recessing  
 — with extruded aluminum louver, matt, wide distribution  
 — with ECG or ECG Multiwatt

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- continuous row luminaire, without end caps

- continuous row luminaire without end caps (length = l<sub>1</sub>), please order end cap sets (l = 2x 11mm) separately
- when mounting as a single luminaire, the luminaire with the length l<sub>1</sub> = 1177mm can be adapted via suitable end caps to system ceilings with module size 625mm (Module 625: LR = 2x 36mm) or with module size 600mm (Module 600: LR = 2x 11mm)
- the width of the luminaire is designed for panel ceilings with module size 100mm (Module 100)
- longitudinal luminaire flange has same color as housing



Light source



Order no.  
**OSRAM**

Order no.  
**Siteco**

Single/continuous row mounting, pure white

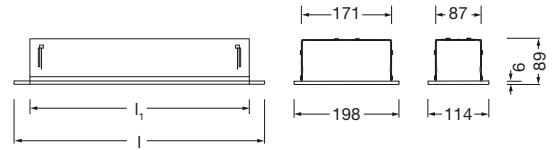
	Light source	l [mm]	h [mm]	Kg	ECG LLGG	Order no. OSRAM	Order no. Siteco
1x T16 28 W	G5	1198/1248	1177	2.8	ECG	4039806267078	5LF41671P
1x T16 54 W	G5	1198/1248	1177	2.9	ECG	4039806267054	5LF41671J
1x T16 28/54 W	G5	1198/1248	1177	2.9	Multi DALI	4050737003993	5LF416D1H
1x T16 28/54 W	G5	1198/1248	1177	2.9	Multi 1...10V	4050737003382	5LF41661H
1x T16 35 W	G5	1498/1548	1477	3.4	ECG	4039806267092	5LF41671R
1x T16 49 W	G5	1498/1548	1477	3.5	ECG	4039806267030	5LF41671F
1x T16 80 W	G5	1498/1548	1477	3.4	ECG	4039806267115	5LF41671X
1x T16 35/49/80 W	G5	1498/1548	1477	3.6	Multi DALI	4050737003511	5LF416D1Q
1x T16 35/49/80 W	G5	1498/1548	1477	3.6	Multi 1...10V	4050737003436	5LF41661Q
2x T16 28 W	G5	1198/1248	1177	4.4	ECG	4039806267177	5LF41672P
2x T16 54 W	G5	1198/1248	1177	4.1	ECG	4039806267153	5LF41672J
2x T16 35 W	G5	1498/1548	1477	5.2	ECG	4039806267191	5LF41672R
2x T16 49 W	G5	1498/1548	1477	5.0	ECG	4039806267139	5LF41672F
2x T16 80 W	G5	1498/1548	1477	5.2	ECG	4039806267214	5LF41672X
2x T16 35/49 W	G5	1498/1548	1477	5.3	Multi 1...10V	4050737003467	5LF41662W

- please order end caps separately
- please order mounting accessories separately

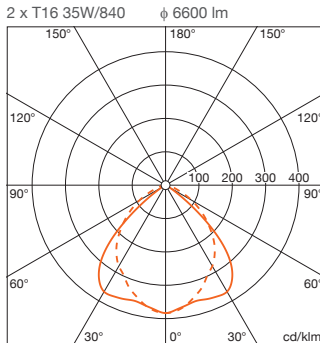
**For necessary accessories (end cap and mounting accessories), see page 4.70**



T16  
G5



4039806415745  
5LF41672RW



$\eta_{LB}$  77.4%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	1738
L <sub>70</sub>	81	2734
L <sub>65</sub>	324	3752

UGR 17 19.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.5	0.6	1.0	1.1	2.5	2.9
30 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.0	4.5
40 m <sup>2</sup>	1.0	1.1	2.0	2.3	5.1	5.6
50 m <sup>2</sup>	1.2	1.3	2.5	2.7	6.2	6.7
75 m <sup>2</sup>	1.8	2.0	3.7	3.9	9.2	9.9
100 m <sup>2</sup>	2.4	2.5	4.7	5.0	12	13
500 m <sup>2</sup>	11	11	22	23	56	57

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire XS for single mounting, M625 | for T16 lamps with extruded aluminum louver, matt | wide distribution**

Single luminaire for ceiling recessing  
 — with extruded aluminum louver, matt, wide distribution  
 — with ECG or ECG Multiwatt

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- with manufacturer-fitted end caps

- luminaires with manufacturer-fitted end caps (length: I = 1248mm) have lengths suitable for system ceilings with module size 625mm (Module 625)
- the width of the luminaire is designed for panel ceilings with module size 100mm (Module 100)
- longitudinal luminaire flange has same color as housing



Light source



Single mounting, for M625 and for cut ceiling aperture

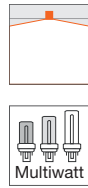
						Order no. OSRAM	Order no. Siteco
1x T16 28 W	G5	1248	1177	2.8	ECG	4039806415684	5LF41671PW
1x T16 54 W	G5	1248	1177	3.0	ECG	4039806415677	5LF41671JW
1x T16 28/54 W	G5	1248	1177	3.0	Multi 1...10V	4050737003405	5LF41661HW
2x T16 28 W	G5	1248	1177	4.3	ECG	4039806415738	5LF41672PW
2x T16 54 W	G5	1248	1177	4.5	ECG	4039806415721	5LF41672JW
2x T16 28/54 W	G5	1248	1177	4.5	Multi DALI	4050737004006	5LF416D2HW
2x T16 28/54 W	G5	1248	1177	4.5	Multi 1...10V	4050737003962	5LF41662HW

M625, single mounting, pure white

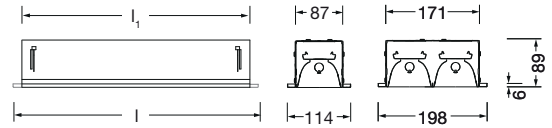
						Order no.	Order no.
1x T16 35 W	G5	1548	1477	3.5	ECG	4039806415691	5LF41671RW
1x T16 49 W	G5	1548	1477	3.4	ECG	4039806415660	5LF41671FW
1x T16 80 W	G5	1548	1477	3.6	ECG	4039806415707	5LF41671XW
1x T16 35/49/80 W	G5	1548	1477	3.6	Multi DALI	4050737003528	5LF416D1QW
1x T16 35/49/80 W	G5	1548	1477	3.6	Multi 1...10V	4050737003443	5LF41661QW
2x T16 35 W	G5	1548	1477	5.2	ECG	4039806415745	5LF41672RW
2x T16 49 W	G5	1548	1477	5.2	ECG	4039806415714	5LF41672FW
2x T16 80 W	G5	1548	1477	5.3	ECG	4039806415752	5LF41672XW
2x T16 35/49 W	G5	1548	1477	5.5	Multi 1...10V	4050737003481	5LF41662WW

— please order mounting accessories separately

**For mounting accessories, see page 4.70**

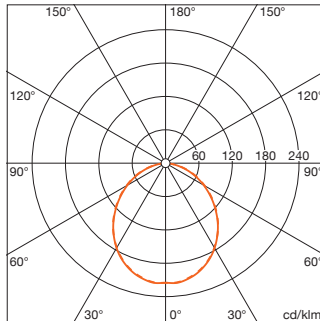


T16  
G5



4039806429032  
5LF41W71R

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  55.7%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3037	3211
L <sub>70</sub>	4111	4304
L <sub>65</sub>	4445	4616

UGR 21.5 21.7

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500		
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.6	1.9	3.2	3.7	8.0	9.3	
30 m <sup>2</sup>	2.4	2.7	4.8	5.4	12	14	
40 m <sup>2</sup>	3.1	3.4	6.2	6.9	15	17	
50 m <sup>2</sup>	3.7	4.1	7.4	8.2	19	20	
75 m <sup>2</sup>	5.4	5.8	11	12	27	29	
100 m <sup>2</sup>	7.0	7.5	14	15	35	37	
500 m <sup>2</sup>	32	33	64	66	159	164	

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire XS for single or continuous row mounting | for T16 lamps with opal cover, diffuse distribution**

Luminaire for single or continuous row mounting; for ceiling recessing  
 — with opal cover, diffuse distribution  
 — with ECG or ECG Multiwatt

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- continuous row luminaire, without end caps

- continuous row luminaire without end caps (length = l<sub>1</sub>), please order end cap sets (l = 2x 11mm) separately
- when mounting as a single luminaire, the luminaire with the length l<sub>1</sub> = 1177mm can be adapted via suitable end caps to system ceilings with module size 625mm (Module 625: LR = 2x 36mm) or with module size 600mm (Module 600: LR = 2x 11mm)
- the width of the luminaire is designed for panel ceilings with module size 100mm (Module 100)
- longitudinal luminaire flange has same color as housing



Light source



Order no.  
OSRAM

Order no.  
Siteco

single/continuous row mounting, pure white

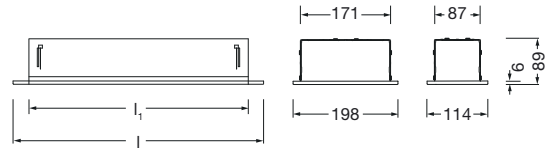
	G5	1198/1248	1177	3.0	ECG	4039806429025	5LF41W71P
1x T16 28 W	G5	1198/1248	1177	3.0	ECG	4039806429018	5LF41W71J
1x T16 54 W	G5	1198/1248	1177	3.3	Multi DALI	4050737004310	5LF41WD1H
1x T16 28/54 W	G5	1198/1248	1177	3.3	Multi 1...10V	4050737003801	5LF41W61H
1x T16 35 W	G5	1498/1548	1477	4.0	ECG	4039806429032	5LF41W71R
1x T16 49 W	G5	1498/1548	1477	4.0	ECG	4039806429001	5LF41W71F
1x T16 35/49 W	G5	1498/1548	1477	4.1	Multi DALI	4050737049922	5LF41WD1W
1x T16 35/49 W	G5	1498/1548	1477	4.1	Multi 1...10V	4039806889911	5LF41W61W
2x T16 28 W	G5	1198/1248	1177	4.7	ECG	4039806429124	5LF41W72P
2x T16 35 W	G5	1498/1548	1477	5.8	ECG	4039806429131	5LF41W72R
2x T16 49 W	G5	1498/1548	1477	5.8	ECG	4039806429100	5LF41W72F
2x T16 35/49 W	G5	1498/1548	1477	4.7	Multi DALI	4050737004419	5LF41WD2W
2x T16 35/49 W	G5	1498/1548	1477	4.7	Multi 1...10V	4050737004266	5LF41W62W

- please order end caps separately
- please order mounting accessories separately

**For necessary accessories (end cap and mounting accessories), see page 4.70**

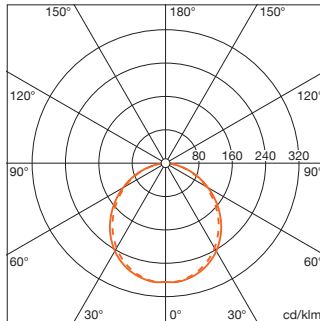


T16  
G5



4039806416117  
5LF41W72RW

2 x T16 35W/840  $\phi$  6600 lm



$\eta_{LB}$  77.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	4255	4207
L <sub>70</sub>	5820	5616
L <sub>65</sub>	6275	5998

UGR 22.8 22.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.6	0.7	1.2	1.4	2.9	3.4
30 m <sup>2</sup>	0.9	1.0	1.8	2.0	4.4	5.0
40 m <sup>2</sup>	1.1	1.2	2.2	2.5	5.6	6.2
50 m <sup>2</sup>	1.3	1.5	2.7	3.0	6.7	7.4
75 m <sup>2</sup>	2.0	2.1	3.9	4.2	9.8	11
100 m <sup>2</sup>	2.5	2.7	5.0	5.4	13	14
500 m <sup>2</sup>	11	12	23	24	57	59

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire XS for single mounting, M625 | for T16 lamps with opal cover, diffuse distribution**

Single luminaire for ceiling recessing  
 — with opal cover, diffuse distribution  
 — with ECG or ECG Multiwatt  
 — housing of sheet steel, pure white (similar to RAL 9010)

- protection rating: IP20
- insulation class: I
- with manufacturer-fitted end caps

- luminaires with manufacturer-fitted end caps (length: l = 1248mm) have lengths suitable for system ceilings with module size 625mm (Module 625)
- the width of the luminaire is designed for panel ceilings with module size 100mm (Module 100)
- longitudinal luminaire flange has same color as housing



**Light source**



Single mounting, for M625 and for cut ceiling aperture

						Order no. OSRAM	Order no. Siteco
1x T16 28 W	G5	1248	1177	3.1	ECG	4039806416056	5LF41W71PW
1x T16 54 W	G5	1248	1177	3.1	ECG	4039806416049	5LF41W71JW
1x T16 28/54 W	G5	1248	1177	3.4	Multi DALI	4050737004327	5LF41WD1HW
1x T16 28/54 W	G5	1248	1177	3.4	Multi 1...10V	4050737003849	5LF41W61HW
2x T16 28 W	G5	1248	1177	4.7	ECG	4039806416100	5LF41W72PW

M625, single mounting, pure white

						Order no. OSRAM	Order no. Siteco
1x T16 35 W	G5	1548	1477	3.8	ECG	4039806416063	5LF41W71RW
1x T16 49 W	G5	1548	1477	3.1	ECG	4039806416032	5LF41W71FW
2x T16 35 W	G5	1548	1477	5.9	ECG	4039806416117	5LF41W72RW
2x T16 49 W	G5	1548	1477	6.0	ECG	4039806416087	5LF41W72FW
2x T16 35/49 W	G5	1548	1477	6.1	Multi DALI	4050737016207	5LF41WD2WW
2x T16 35/49 W	G5	1548	1477	6.1	Multi 1...10V	4050737004280	5LF41W62WW

— please order mounting accessories separately

**For mounting accessories, see page 4.70**



## Siteco® Louvre Luminaire XS housing accessories



### Housing end cap

can be mounted on continuous row luminaires | sheet steel, pure white (similar to RAL 9010)

Designation	PU	Order no. OSRAM	Order no. Siteco
for 1-lamp luminaires			
M600, LR = 2x 11mm	set of 2	4039806260499	5LF90011
M625, LR = 2x 36mm	set of 2	4039806260512	5LF90012
for 2-lamp luminaires			
M600, LR = 2x 11mm	set of 2	4039806260536	5LF90021
M625, LR = 2x 36mm	set of 2	4039806260550	5LF90022

— 2 units required per continuous row or per single mounting

## Siteco® Louvre Luminaire XS mounting accessories



### Rapid-mounting bracket

for support profiles or mounting surfaces positioned longitudinally to the luminaire

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 18...33mm	set of 4	4039806611345	5LP90000XC
Clamping range 31...50mm	set of 4	4039806611338	5LP90010XC

— 4 units required per luminaire  
 — max. flange width of support profiles b = 25mm

### Panel accessories – mounting angle



to be mounted on luminaire longitudinal side, clamping range 25...35mm

Designation	PU	Order no. OSRAM	Order no. Siteco
L = 1150mm	set of 2	4039806411983	5LF9011
L = 1450mm	set of 2	4039806412003	5LF9012

— 2 units required per luminaire

# OSRAM DEDRA plus<sup>®</sup> LED



The luminaires of the OSRAM DEDRA plus<sup>®</sup> LED family are ideal for boosting energy efficiency of lighting installations with conventional technologies, or for planning new installations with very good efficiency values. Thanks to its high luminous efficacy, the OSRAM DEDRA plus<sup>®</sup> LED consumes up to 50 percent less energy than conventional solutions. Thanks to different variants for system ceilings with module dimensions 600 x 600, 625 x 625 or 300 x 1200, this potential is available in all typical applications. With the standardized Linect<sup>®</sup> connection system, the luminaire is quick and easy to install. The OSRAM DEDRA plus<sup>®</sup> LED convinces in application with good anti-glare characteristics for a high level of visual comfort. This is ensured by an opal diffuser cover, which evenly and uniformly distributes the light of both LED modules into the room with good color rendering (CRI > 80). Both curved elements also give the luminaire its characteristic feel and an organic, elegant appearance.

## Features

- recessed LED ceiling luminaire as an efficient replacement for conventional luminaires with energy savings of up to 50%
- Linect<sup>®</sup> plugs for universal, rapid connection
- opal cover for pleasant, soft illumination
- lifespan of up to 30,000 hours
- with good glare reduction values for high light comfort

## Lighting technology

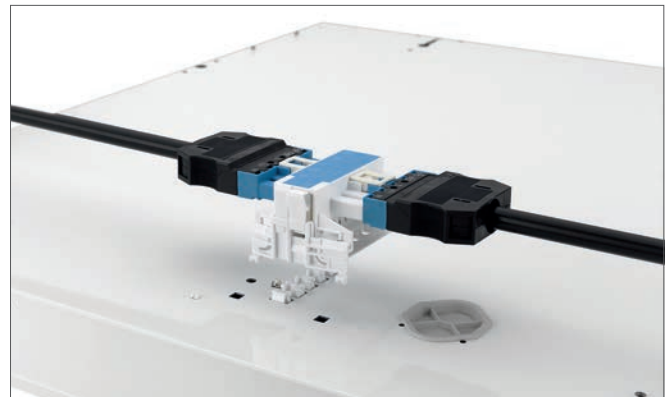
Opal cover, diffuse distribution | UGR ≤ 22

## Electrics

Luminaire wired ready for connection | with 2-pole Linect<sup>®</sup> connection terminal

## Housing

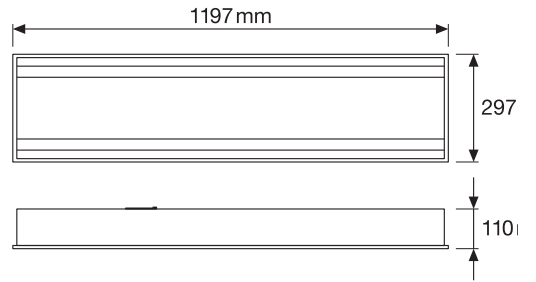
Housing of sheet steel with PC cover, white | luminaire for lay-in mounting in system ceilings with module dimensions 600 x 600mm, 625 x 625mm or 300 x 1200mm



Rapid advances in LED technology lead to permanent improvements in energy efficiency. This means that luminous flux and power consumption can also change accordingly. The latest specific values can be found in the electronic catalog for each product.

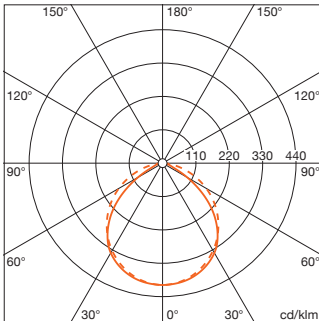


LED



4052899920972  
0LJ73A7L40840

1 x LED  $\phi_N$  3707 lm



**OSRAM DEDRA plus® LED**  
rectangular | with opal cover

Single luminaire for lay-in mounting  
in system ceilings

- opal cover, diffuse distribution
- $UGR \leq 22$
- with ECG

- housing of sheet steel with PC cover, white
- protection rating: IP20
- insulation class: II



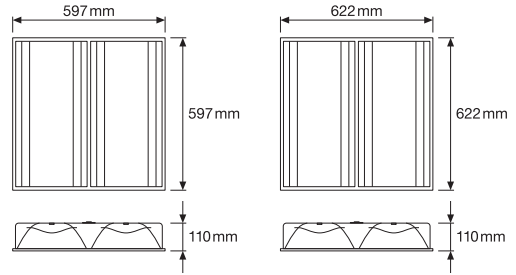
**Light source**

for M600 and for cut ceiling aperture

	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG LDC	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	3600	40	5.1	ECG	4052899920972	0LJ73A7L40840



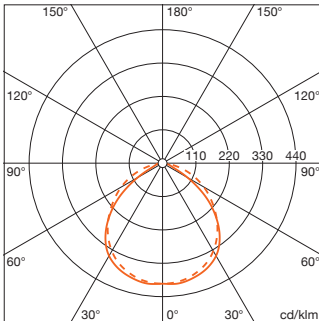
LED



4052899920941

OLJ72A7L30840

1 x LED  $\phi$  3456 lm



$\eta_{LB}$  100%

**OSRAM DEDRA plus® LED square | with opal cover**

Single luminaire for lay-in mounting in system ceilings

- opal cover, diffuse distribution
- UGR  $\leq$  22
- with ECG

- housing of sheet steel with PC cover, white
- protection rating: IP20
- insulation class: II



**Light source**



**Order no. OSRAM**

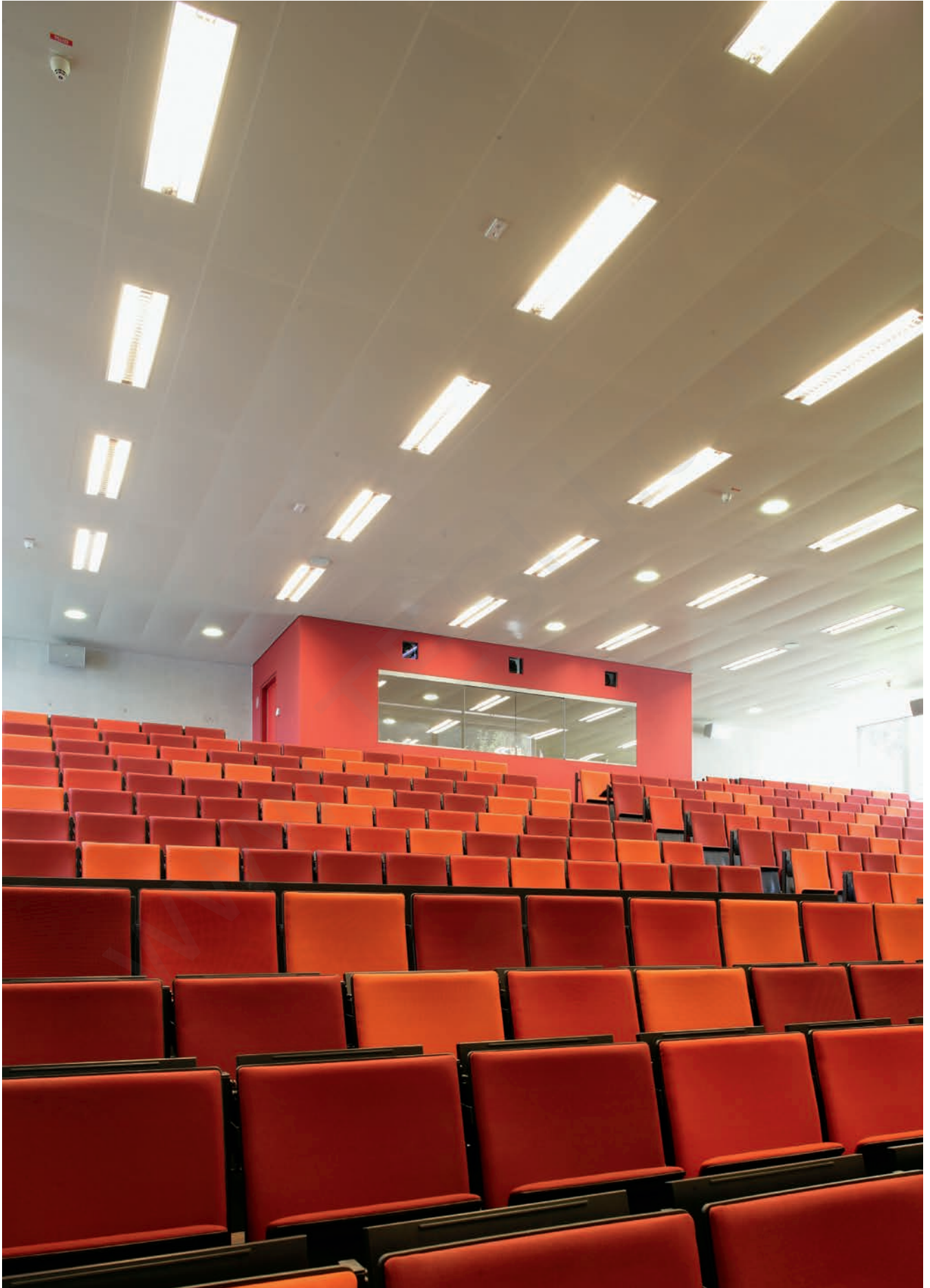
**Order no. Siteco**

for M600 and for cut ceiling aperture

LED	4000	> 80	2700	30	4.9	ECG	4052899920941	OLJ72A7L30840
LED	4000	> 80	3600	40	5.0	ECG	4052899920934	OLJ72A7L40840

for M625 and for cut ceiling aperture

LED	4000	> 80	2700	30	5.0	ECG	4052899920965	OLJ71A7L30840
LED	4000	> 80	3600	40	5.1	ECG	4052899920958	OLJ71A7L40840



# OSRAM DEDRA plus®



The luminaires of the OSRAM DEDRA plus® family with their photometric diversity offer an economic solution for almost any standard application. The luminaire optimized for ceiling module M600 is available for energy-efficient T16 fluorescent lamps. In this configuration, there is a variant with a CAT highly specular louver, with which the luminaire can also be used as a computer screen workstation solution. With the photometric inserts, good glare reduction values of up to  $UGR \leq 19$  for high visual comfort can be achieved. All louvers of OSRAM DEDRA plus® can be mounted without tools, are fixed into the housing with catches and are protected from soiling during mounting with a special removable film.

## Features

- economic luminaire range for a wide range of standard applications
- computer screen workstation lighting (CAT2) possible
- very installation-friendly
- optimized for ceiling module M600

## Lighting technology

CAT highly specular louver, suitable for lighting accommodating computer screen workstations according to EN12464-1, wide distribution: CAT2 ( $L \leq 200\text{cd/m}^2$ ) | V-reflector with highly specular longitudinal blades and matt, frosted extruded-aluminum crossblades: wide distribution,  $UGR \leq 19$  or  $\leq 22$

## Electrics

Ready for connection with 3-pole connection terminal, with ECG DALI: 3-pole + 2-pole for control signal or with 3-pole Wieland plug

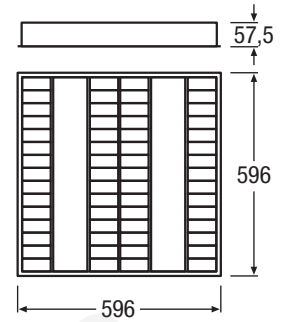
## Housing

Housing and cover between the louvers of sheet steel, traffic white (RAL 9016) | louver of anodized aluminum | luminaire for lay-in mounting in system ceilings with module dimensions 600 x 600mm | luminaire housing with additional safety retaining cord to secure to the unfinished ceiling | the louver is mounted without tools and fixed into the luminaire housing with catches | louver with removable film to protect the surface during installation | luminaire as KIT version including fluorescent lamp



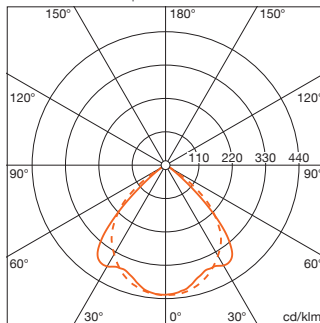


T16  
G5



4008321366719  
OLF12174ML830

4 x T16 14W  $\phi$  4800 lm



$\eta_{LB}$  79,2%

**OSRAM DEDRA plus® | with T16 lamps  
square | with CAT2 highly specular louver**

Single luminaire for lay-in mounting  
in system ceilings

- with highly specular louver (MIRO®), highly reflective, CAT2 ( $L \leq 200 \text{cd/m}^2$ ,  $UGR \leq 19$ )
- with ECG

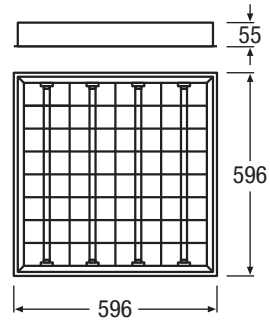
- housing of sheet steel, traffic white (RAL 9016)
- protection rating: IP20
- insulation class: I
- impact resistance: IK07
- including fluorescent lamp OSRAM LUMILUX® T5 830 or 840 HE



Light source		K	R <sub>a</sub>			Order no. OSRAM	Order no. Siteco
ECG							
3xT16 14W	G5	3000	> 80	3.6	ECG	4008321366689	OLF12173ML830
3xT16 14W	G5	4000	> 80	3.7	ECG	4008321366672	OLF12173ML840
4xT16 14W	G5	3000	> 80	3.6	ECG	4008321366719	OLF12174ML830
4xT16 14W	G5	4000	> 80	3.7	ECG	4008321366702	OLF12174ML840
ECG DALI							
3xT16 14W	G5	4000	> 80	3.7	DALI	4008321380852	OLF121D3ML840
4xT16 14W	G5	4000	> 80	3.7	DALI	4008321380883	OLF121D4ML840

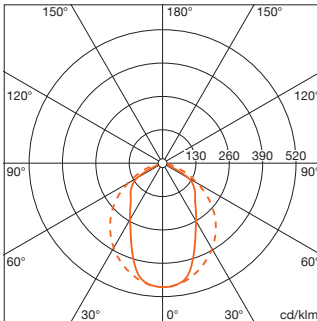


T16  
G5



4008321380937  
OLF12474ML840

4 x T16 14W  $\phi$  4800 lm



$\eta_{LB}$  88,8%

**OSRAM DEDRA plus® | with T16 lamps  
square | aluminum louver with frosted crossblades**

Single luminaire for lay-in mounting  
in system ceilings  
— wide distribution, with V-reflector with  
highly specular longitudinal louver and  
matt, frosted crossblades: UGR  $\leq$  22  
— with ECG

- housing of sheet steel, traffic white (RAL 9016)
- protection rating: IP20
- insulation class: I
- impact resistance: IK07
- including fluorescent lamp OSRAM LUMILUX® T5 840 HE



Light source



K

R<sub>a</sub>



Order no.  
**OSRAM**

Order no.  
**Siteco**

4xT16 14W

G5

4000

> 80

2.5

ECG

4008321380937

OLF12474ML840

www.TESLI.com



# Siteco® Louvre Luminaire M LED



The recessed luminaires of the Siteco® Louvre Luminaire M LED family with their low installed depth of 56mm and two available module sizes are suitable for nearly all standard ceiling systems.

Technically, Siteco® Louvre Luminaire M LED is the functional LED counterpart to the classic louver luminaire, simultaneously designed for the use of LED technology with matching components. With its high luminous efficacy, Siteco® Louvre Luminaire M LED is an efficient replacement for the conventional Siteco® Louvre Luminaire M louver luminaire (4x T16 14W).

Siteco® Louvre Luminaire M LED fulfills requisite criteria for the standard-compliant illumination of computer screen workstations. A special lens in front of the LED as well as a CAT2 specular louver ensure sufficient glare reduction ( $UGR < 19$ ). Electrical connection is also possible via a Linect® plug connection system.

## Features

- system designed and matched for LED with very high efficiency
- very good price-performance ratio
- suitable for computer screen workstation lighting
- simple replacement for conventional solutions due to standard module sizes
- timeless design with familiar form factors
- flexibility thanks to variants with DALI integration
- Plug & play with Linect® plug connection system

## Lighting technology

Good glare reduction via specular louver of highly specular light-output-ratio-optimized aluminum (MIRO®) and lenses in front of the LED |  $UGR < 19$

## Electrics

Luminaire wired ready for connection | with 3-pole Linect® connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

## Housing

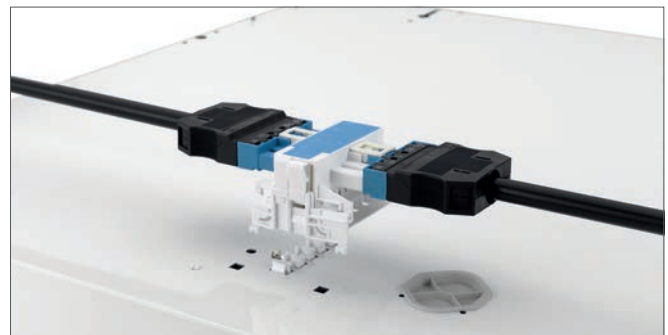
Housing and cover between the louvers of sheet steel, pure white (similar to RAL 9010) | the louver is mounted without tools and fixed into the luminaire housing with catches; it is secured with safety retaining cords and earthed for protection even when hinged downwards | louver and cover between louvers have common frame as single assembly

## Mounting information:

Lay-in mounting of square luminaires in system ceilings without accessories:

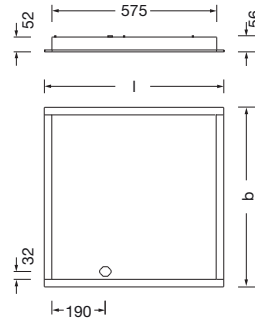
If only the intermediate cavity exactly above the ceiling cut-out is available for recessing, the required mounting dimension is  $MT \geq 25\text{cm}$

If the ceiling cavity to the sides of the ceiling cut-out can be used for recessing (e.g. if no support rods exist as part of the ceiling construction), the required minimum mounting dimension is  $MT_{\min} = 17\text{cm}$



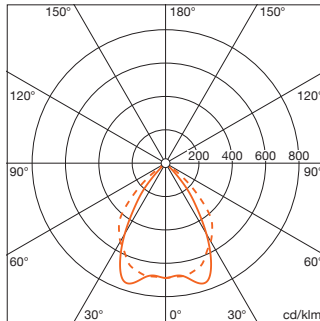


LED



4050737624037  
5LF12B72ZN

1 x LED 4000K / CRI ≥ 80  $\phi_N$  4010 lm



$\phi_d$  100%  $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	27	48
L <sub>70</sub>	42	69
L <sub>65</sub>	56	81

UGR 14.8 18.3

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.6	0.6	1.2	1.3	3.1	3.2
30 m <sup>2</sup>	0.9	1.0	1.7	1.9	4.3	4.9
40 m <sup>2</sup>	1.2	1.3	2.4	2.5	5.9	6.3
50 m <sup>2</sup>	1.5	1.5	2.9	3.0	7.3	7.6
75 m <sup>2</sup>	2.1	2.2	4.1	4.5	10	11
100 m <sup>2</sup>	2.8	3.0	5.7	5.9	14	15
500 m <sup>2</sup>	14	14	28	28	69	70

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Siteco® Louvre Luminaire M LED square | with CAT2 highly specular louver, highly reflective (MIRO®)**

- Single luminaire for ceiling recessing
- with highly specular louver (MIRO®), highly reflective, CAT2 ( $L \leq 1500 \text{cd/m}^2$ )
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

for M600 and for cut ceiling aperture

LED	3000	4010	40	597	597	4.1	ECG	4050737624648	5LF12B72ZN002
LED	3000	4010	40	597	597	4.1	DALI	4050737624020	5LF12BD2ZN002
LED	4000	4010	40	597	597	4.1	ECG	4050737624037	5LF12B72ZN
LED	4000	4010	40	597	597	4.1	DALI	4050737614045	5LF12BD2ZN

for M625 and for cut ceiling aperture

LED	3000	4010	40	622	622	4.2	ECG	4050737623917	5LF11B72ZN002
LED	3000	4010	40	622	622	4.2	DALI	4050737624525	5LF11BD2ZN002
LED	4000	4010	40	622	622	4.2	ECG	4050737612225	5LF11B72ZN
LED	4000	4010	40	622	622	4.2	DALI	4050737624044	5LF11BD2ZN

height H: housing height incl. ceiling-sided rim holes

For mounting accessories for this product family, see page 4.88

# Siteco® Louvre Luminaire M



The classically designed luminaires of the Siteco® Louvre Luminaire M family are available as suspended, surface-mounted and recessed versions. The recessed luminaires with their low installed depth are suitable for nearly all standard ceiling systems. The housing dimensions are designed to attain optimal light output ratios with use of efficient T16 lamp configurations.

Light distribution is via a CAT2 aluminum specular louver of light-output-ratio-optimized aluminum (MIRO®) or via an extruded aluminum louver. A wallwasher is available for homogeneous and standard-compliant wall and panel illumination. Continuous row arrangements with seamless louver appearances are possible with the removable end caps.

## Features

- universal use for all conventional ceiling systems
- classic lighting technology for T16 fluorescent lamps with good price-performance ratio
- optimized for ceiling modules M625 and M600 and for cut ceiling apertures
- standard-compliant room lighting with louver optics
- homogeneous, standard-compliant wall and panel lighting with wallwasher
- continuous row luminaire for continuous rows with seamless appearance of optics

## Lighting technology

- Highly specular, light-output-ratio-optimized aluminum louver (MIRO®), CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- specular louver of aluminum, matt, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- extruded aluminum crossblade louver, matt anodized, wide distribution
- wallwasher, semi-specular, direct asymmetric distribution, for uniform illumination of walls, shelving or panels

## Electrics

Luminaire wired ready for connection | with 3-pole Linect® connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

## Housing

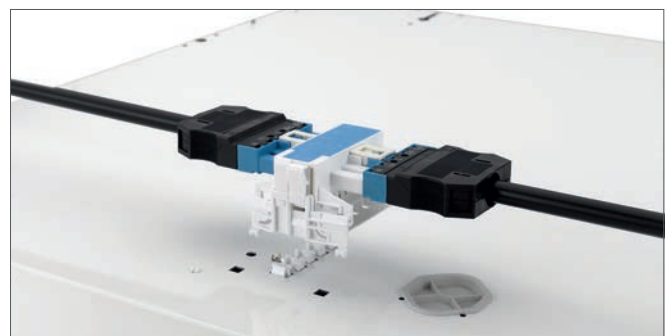
Housing and cover between the louvers of sheet steel, pure white (similar to RAL 9010) | the louver is mounted without tools and fixed into the luminaire housing with catches; it is secured with safety retaining cords and earthed for protection even when hinged downwards | louver and cover between louvers have common frame as single assembly

## Mounting information:

Lay-in mounting of square luminaires in system ceilings without accessories:

If only the intermediate cavity exactly above the ceiling cut-out is available for recessing, the required mounting dimension is  $MT \geq 25\text{cm}$

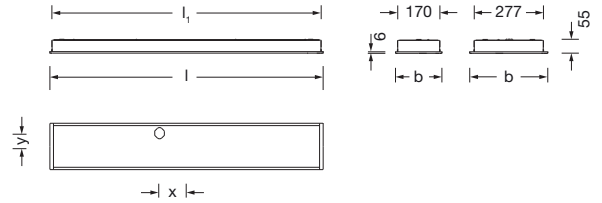
If the ceiling cavity to the sides of the ceiling cut-out can be used for recessing (e.g. if no support rods exist as part of the ceiling construction), the required minimum mounting dimension is  $MT_{\min} = 17\text{cm}$





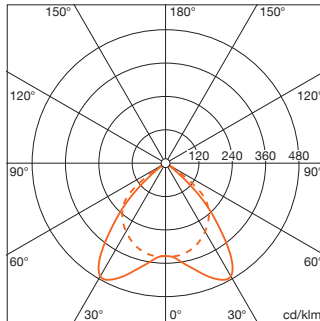


T16  
G5



4050737053820  
5LF12B71HN

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  80.2%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	0
L <sub>70</sub>	76	0
L <sub>65</sub>	148	457

UGR 18.2 19.5

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	
20 m <sup>2</sup>	0.7	0.8	1.4	1.5	3.5	3.8						
30 m <sup>2</sup>	1.1	1.2	2.1	2.4	5.3	6.1						
40 m <sup>2</sup>	1.4	1.5	2.8	3.1	7.0	7.7						
50 m <sup>2</sup>	1.7	1.8	3.4	3.7	8.4	9.2						
75 m <sup>2</sup>	2.5	2.7	5.0	5.5	12	14						
100 m <sup>2</sup>	3.3	3.5	6.6	7.0	16	17						
500 m <sup>2</sup>	16	16	32	32	79	81						

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M | for T16 lamps rectangular | with CAT2 highly specular louver, highly reflective (MIRO®)**

- Single luminaire for ceiling recessing
- with highly specular louver (MIRO®), highly reflective, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG Multiwatt
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

for M600 and for cut ceiling aperture

			l [mm]	l <sub>1</sub> [mm]	b [mm]	x [mm]	y [mm]			Order no. OSRAM	Order no. Siteco
1x T16 28/54W	G5	1197	1171	184	120	53	3.4	Multi		4050737053820	5LF12B71HN
1x T16 28/54W	G5	1197	1171	184	120	53	3.4	Multi DALI		4050737055275	5LF12BD1HN
1x T16 28/54W	G5	1197	1171	184	120	53	3.4	Multi 1...10V		4050737053738	5LF12B61HN
2x T16 28/54W	G5	1197	1171	309	80	-	5.4	Multi		4050737053875	5LF12B72HN
2x T16 28/54W	G5	1197	1171	309	80	-	5.4	Multi DALI		4050737055312	5LF12BD2HN
2x T16 28/54W	G5	1197	1171	309	80	-	5.4	Multi 1...10V		4050737051963	5LF12B62HN

for M625 and for cut ceiling aperture

			l [mm]	l <sub>1</sub> [mm]	b [mm]	x [mm]	y [mm]			Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi		4050737053264	5LF11B71HN
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi DALI		4050737054988	5LF11BD1HN
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi 1...10V		4050737053165	5LF11B61HN
2x T16 28/54 W	G5	1247	1221	309	80	-	5.4	Multi		4050737053301	5LF11B72HN
2x T16 28/54 W	G5	1247	1221	309	80	-	5.4	Multi DALI		4050737055015	5LF11BD2HN
2x T16 28/54 W	G5	1247	1221	309	80	-	5.4	Multi 1...10V		4050737053202	5LF11B62HN

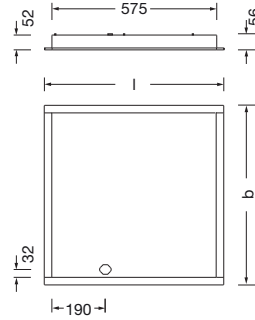
for cut ceiling aperture

			l [mm]	l <sub>1</sub> [mm]	b [mm]	x [mm]	y [mm]			Order no. OSRAM	Order no. Siteco
1x T16 35/49/80 W	G5	1547	1221	184	-	-	4.1	Multi		4050737053295	5LF11B71QN
1x T16 35/49/80 W	G5	1547	1221	184	-	-	4.1	Multi DALI		4050737054995	5LF11BD1QN
1x T16 35/49/80 W	G5	1547	1221	184	-	-	4.1	Multi 1...10V		4050737053196	5LF11B61QN
2x T16 35/49 W	G5	1547	1221	309	-	-	6.1	Multi		4050737053325	5LF11B72WN
2x T16 35/49 W	G5	1547	1221	309	-	-	6.1	Multi DALI		4050737055039	5LF11BD2WN
2x T16 35/49 W	G5	1547	1221	309	-	-	6.1	Multi 1...10V		4050737053226	5LF11B62WN
2x T16 35/49/80 W	G5	1547	1221	309	-	-	6.3	Multi DALI		4050737057521	5LF11BD2QN
2x T16 35/49/80 W	G5	1547	1221	309	-	-	6.3	Multi 1...10V		4050737057507	5LF11B62QN

— height H: housing height incl. ceiling-sided rim holes

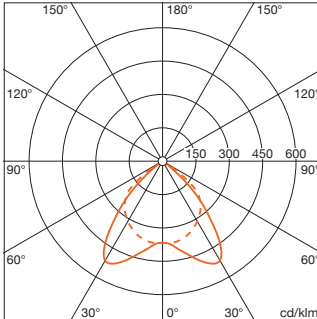


T16  
G5



4050737038544  
5LF12B74MN

4 x T16 14W/840  $\phi$  4800 lm



$\eta_{LB}$  88.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	0
L <sub>70</sub>	49	0
L <sub>65</sub>	95	292

UGR 16.7 18

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.6	0.6	1.2	1.3	3.0	3.2
30 m <sup>2</sup>	0.9	1.0	1.8	2.1	4.5	5.2
40 m <sup>2</sup>	1.2	1.3	2.4	2.6	5.9	6.5
50 m <sup>2</sup>	1.4	1.6	2.8	3.1	7.1	7.8
75 m <sup>2</sup>	2.1	2.3	4.2	4.6	11	12
100 m <sup>2</sup>	2.8	2.9	5.5	5.9	14	15
500 m <sup>2</sup>	13	14	27	27	67	68

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M | for T16 lamps square | with CAT2 highly specular louver, highly reflective (MIRO®)**

- Single luminaire for ceiling recessing
- with highly specular louver (MIRO®), highly reflective, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG or ECG Multiwatt
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



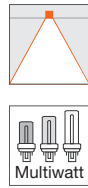
for M600 and for cut ceiling aperture

						Order no. OSRAM	Order no. Siteco
3x T16 14/24W	G5	597	597	3.5	Multi DALI	4050737041209	5LF12BD3BN
3x T16 14/24W	G5	597	597	3.5	Multi 1...10V	4050737044798	5LF12B63BN
4x T16 14/24W	G5	597	597	3.5	Multi DALI	4050737041223	5LF12BD4BN
4x T16 14/24W	G5	597	597	3.5	Multi 1...10V	4050737044811	5LF12B64BN
3x T16 14 W	G5	597	597	3.3	ECG	4050737038513	5LF12B73MN
3x T16 24 W	G5	597	597	3.3	ECG	4050737038520	5LF12B73YN
4x T16 14 W	G5	597	597	3.3	ECG	4050737038544	5LF12B74MN
4x T16 24 W	G5	597	597	3.3	ECG	4050737038568	5LF12B74YN

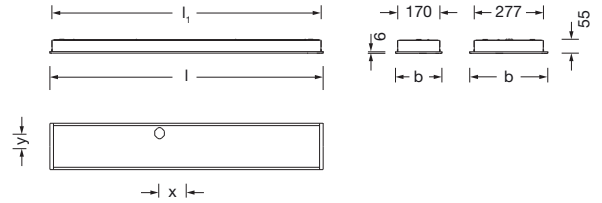
for M625 and for cut ceiling aperture

						Order no. OSRAM	Order no. Siteco
3x T16 14/24 W	G5	622	622	3.6	Multi DALI	4050737040813	5LF11BD3BN
3x T16 14/24 W	G5	622	622	3.6	Multi 1...10V	4050737044460	5LF11B63BN
4x T16 14/24 W	G5	622	622	3.7	Multi DALI	4050737040837	5LF11BD4BN
4x T16 14/24 W	G5	622	622	3.7	Multi 1...10V	4050737044477	5LF11B64BN
3x T16 14 W	G5	622	622	3.7	ECG	4050737038278	5LF11B73MN
3x T16 24 W	G5	622	622	3.7	ECG	4050737038285	5LF11B73YN
4x T16 14 W	G5	622	622	3.7	ECG	4050737038308	5LF11B74MN
4x T16 24 W	G5	622	622	3.7	ECG	4050737038339	5LF11B74YN

— height H: housing height incl. ceiling-sided rim holes

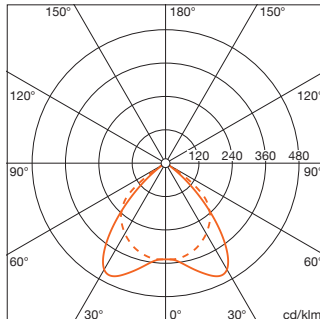


T16  
G5



4050737048734  
5LF12471HN

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  79.4%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2	1
L <sub>70</sub>	246	29
L <sub>65</sub>	461	381

UGR 18.2 19.4

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	0.7	0.8	1.4	1.6	3.6	3.9
20 m <sup>2</sup>	1.1	1.2	2.2	2.5	5.4	6.2
30 m <sup>2</sup>	1.4	1.6	2.8	3.1	7.1	7.8
40 m <sup>2</sup>	1.7	1.9	3.4	3.7	8.5	9.3
50 m <sup>2</sup>	2.5	2.8	5.0	5.5	13	14
75 m <sup>2</sup>	3.3	3.5	6.7	7.1	17	18
100 m <sup>2</sup>	16	16	32	33	80	82

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M | for T16 lamps rectangular | with CAT2 specular louver, matt**

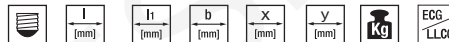
Single luminaire for ceiling recessing

- with specular louver, matt, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG Multiwatt

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



for M600 and for cut ceiling aperture

			$l$ [mm]	$l_1$ [mm]	$b$ [mm]	$x$ [mm]	$y$ [mm]			Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1197	1171	184	120	53	3.4	Multi		4050737048734	5LF12471HN
1x T16 28/54 W	G5	1197	1171	184	120	53	3.4	Multi DALI		4050737055077	5LF124D1HN
1x T16 28/54 W	G5	1197	1171	184	120	53	3.4	Multi 1...10V		4050737053370	5LF12461HN
2x T16 28/54 W	G5	1197	1171	309	80	—	5.4	Multi		4050737048772	5LF12472HN
2x T16 28/54 W	G5	1197	1171	309	80	—	5.4	Multi DALI		4050737055114	5LF124D2HN
2x T16 28/54 W	G5	1197	1171	309	80	—	5.4	Multi 1...10V		4050737053400	5LF12462HN

for M625 and for cut ceiling aperture

			$l$ [mm]	$l_1$ [mm]	$b$ [mm]	$x$ [mm]	$y$ [mm]			Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi		4050737052854	5LF11471HN
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi DALI		4050737054001	5LF114D1HN
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi 1...10V		4050737052557	5LF11461HN
2x T16 28/54 W	G5	1247	1221	309	80	—	5.4	Multi		4050737052892	5LF11472HN
2x T16 28/54 W	G5	1247	1221	309	80	—	5.4	Multi DALI		4050737054049	5LF114D2HN
2x T16 28/54 W	G5	1247	1221	309	80	—	5.4	Multi 1...10V		4050737052595	5LF11462HN

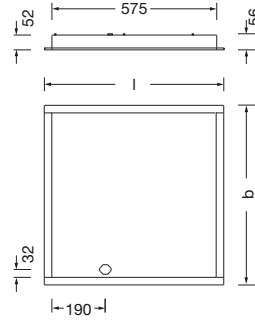
for cut ceiling aperture

			$l$ [mm]	$l_1$ [mm]	$b$ [mm]	$x$ [mm]	$y$ [mm]			Order no. OSRAM	Order no. Siteco
1x T16 35/49/80 W	G5	1547	1521	184	—	—	3.4	Multi		4050737052878	5LF11471QN
1x T16 35/49/80 W	G5	1547	1521	184	—	—	3.4	Multi DALI		4050737054025	5LF114D1QN
1x T16 35/49/80 W	G5	1547	1521	184	—	—	3.4	Multi 1...10V		4050737052571	5LF11461QN
2x T16 35/49 W	G5	1547	1521	309	—	—	6.6	Multi		4050737052922	5LF11472WN
2x T16 35/49 W	G5	1547	1521	309	—	—	6.6	Multi DALI		4050737054070	5LF114D2WN
2x T16 35/49 W	G5	1547	1521	309	—	—	6.6	Multi 1...10V		4050737052816	5LF11462WN
2x T16 35/49/80 W	G5	1547	1521	309	—	—	6.9	Multi DALI		4050737057446	5LF114D2QN
2x T16 35/49/80 W	G5	1547	1521	309	—	—	6.6	Multi 1...10V		4050737057422	5LF11462QN

— height H: housing height incl. ceiling-sided rim holes

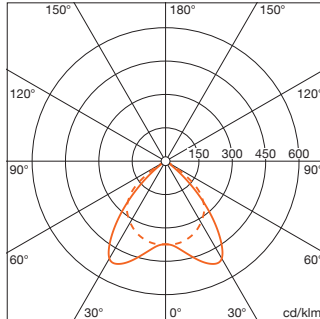


T16  
G5



4050737038391  
5LF12474MN

4 x T16 14W/840  $\phi$  4800 lm



$\eta_{LB}$  88.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	0	42
L <sub>70</sub>	28	135
L <sub>65</sub>	102	482

UGR 16.6 17.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20				200				500			
	100		200		100		200		100		200	
Em(lx)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.6	0.6	1.2	1.3	3.0	3.2						
30 m <sup>2</sup>	0.9	1.0	1.8	2.1	4.5	5.1						
40 m <sup>2</sup>	1.2	1.3	2.3	2.6	5.9	6.5						
50 m <sup>2</sup>	1.4	1.6	2.8	3.1	7.1	7.8						
75 m <sup>2</sup>	2.1	2.3	4.2	4.6	10	11						
100 m <sup>2</sup>	2.8	2.9	5.5	5.9	14	15						
500 m <sup>2</sup>	13	14	27	27	67	68						

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M | for T16 lamps square | with CAT2 specular louver, matt**

Single luminaire for ceiling recessing  
 — with specular louver, matt, CAT2 ( $L \leq 1000\text{cd/m}^2$ )  
 — with ECG or ECG Multiwatt

— housing of sheet steel, pure white (similar to RAL 9010)  
 — protection rating: IP20  
 — insulation class: I



Light source



Order no.  
OSRAM

Order no.  
Siteco

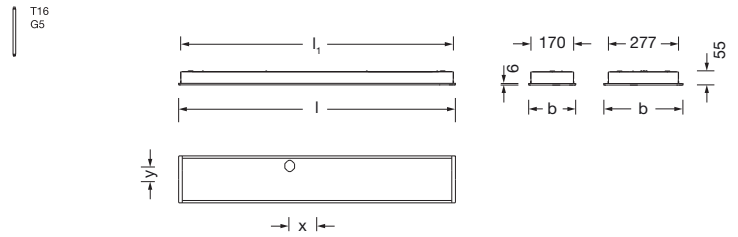
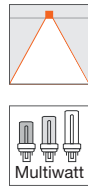
for M600 and for cut ceiling aperture

Light source	G5	L (mm)	b (mm)	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
3x T16 14/24 W	G5	597	597	3.5	Multi DALI	4050737041131	5LF124D3BN
3x T16 14/24 W	G5	597	597	3.5	Multi 1...10V	4050737044712	5LF12463BN
4x T16 14/24 W	G5	597	597	3.5	Multi DALI	4050737041148	5LF124D4BN
4x T16 14/24 W	G5	597	597	3.5	Multi 1...10V	4050737044736	5LF12464BN
3x T16 14 W	G5	597	597	3.5	ECG	4050737038346	5LF12473MN
3x T16 24 W	G5	597	597	3.5	ECG	4050737038360	5LF12473YN
4x T16 14 W	G5	597	597	3.5	ECG	4050737038391	5LF12474MN
4x T16 24 W	G5	597	597	3.5	ECG	4050737038407	5LF12474YN

for M625 and for cut ceiling aperture

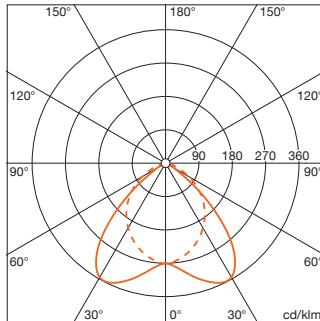
Light source	G5	L (mm)	b (mm)	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
3x T16 14/24 W	G5	622	622	3.6	Multi DALI	4050737041049	5LF114D3BN
3x T16 14/24 W	G5	622	622	3.6	Multi 1...10V	4050737044415	5LF11463BN
4x T16 14/24 W	G5	622	622	3.7	Multi DALI	4050737041070	5LF114D4BN
4x T16 14/24 W	G5	622	622	3.7	Multi 1...10V	4050737044439	5LF11464BN
3x T16 14 W	G5	622	622	3.5	ECG	4050737038100	5LF11473MN
3x T16 24 W	G5	622	622	3.5	ECG	4050737038124	5LF11473YN
4x T16 14 W	G5	622	622	3.5	ECG	4050737038148	5LF11474MN
4x T16 24 W	G5	622	622	3.5	ECG	4050737038162	5LF11474YN

— height H: housing height incl. ceiling-sided rim holes



4050737053639  
5LF12671HN

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  68.6%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	109	2667
L <sub>70</sub>	715	4213
L <sub>65</sub>	1447	5435

UGR 19 21.1

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Rh = Lh	Lh(m)	Rh = Lh	Lh(m)	Rh = Lh
20 m <sup>2</sup>	0.9	1.0	1.7	2.0	4.3	4.9
30 m <sup>2</sup>	1.3	1.5	2.7	3.0	6.7	7.5
40 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.6	9.5
50 m <sup>2</sup>	2.1	2.3	4.1	4.5	10	11
75 m <sup>2</sup>	3.0	3.3	6.1	6.6	15	16
100 m <sup>2</sup>	4.0	4.2	8.0	8.5	20	21
500 m <sup>2</sup>	19	19	38	39	94	96

Maintenance factor 0.8

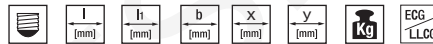
Rh = Lh

**Siteco® Louvre Luminaire M | for T16 lamps**  
**rectangular | with extruded aluminum louver, matt | wide distribution**

- Single luminaire for ceiling recessing
- with extruded aluminum louver, matt, wide distribution
- with ECG Multiwatt
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I



**Light source**



for M600 and for cut ceiling aperture

Light source	G5	l (mm)	h (mm)	b (mm)	x (mm)	y (mm)	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1197	1171	184	120	53	3.4	Multi	4050737053639	5LF12671HN
1x T16 28/54 W	G5	1197	1171	184	120	53	3.4	Multi DALI	4050737055176	5LF126D1HN
1x T16 28/54 W	G5	1197	1171	184	120	53	3.4	Multi 1...10V	4050737053530	5LF12661HN
2x T16 28/54 W	G5	1197	1171	297	80	-	5.4	Multi	4050737053677	5LF12672HN
2x T16 28/54 W	G5	1197	1171	297	80	-	5.4	Multi DALI	4050737055220	5LF126D2HN
2x T16 28/54 W	G5	1197	1171	297	80	-	5.4	Multi 1...10V	4050737053578	5LF12662HN

for M625 and for cut ceiling aperture

Light source	G5	l (mm)	h (mm)	b (mm)	x (mm)	y (mm)	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi	4050737053066	5LF11671HN
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi DALI	4050737054100	5LF116D1HN
1x T16 28/54 W	G5	1247	1221	184	120	53	3.4	Multi 1...10V	4050737052953	5LF11661HN
2x T16 28/54 W	G5	1247	1221	309	80	-	5.4	Multi	4050737053110	5LF11672HN
2x T16 28/54 W	G5	1247	1221	309	80	-	5.4	Multi DALI	4050737054926	5LF116D2HN
2x T16 28/54 W	G5	1247	1221	309	80	-	5.4	Multi 1...10V	4050737052991	5LF11662HN

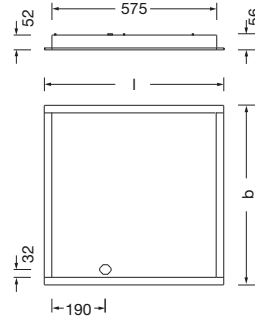
for cut ceiling aperture

Light source	G5	l (mm)	h (mm)	b (mm)	x (mm)	y (mm)	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T16 35/49/80 W	G5	1547	1521	184	-	-	4.0	Multi	4050737053080	5LF11671QN
1x T16 35/49/80 W	G5	1547	1521	184	-	-	4.0	Multi DALI	4050737054896	5LF116D1QN
1x T16 35/49/80 W	G5	1547	1521	184	-	-	4.0	Multi 1...10V	4050737052977	5LF11661QN
2x T16 35/49 W	G5	1547	1521	309	-	-	4.5	Multi	4050737053127	5LF11672WN
2x T16 35/49 W	G5	1547	1521	309	-	-	4.5	Multi DALI	4050737054933	5LF116D2WN
2x T16 35/49 W	G5	1547	1521	309	-	-	4.5	Multi 1...10V	4050737053028	5LF11662WN
2x T16 35/49/80 W	G5	1547	1521	309	-	-	4.6	Multi DALI	4050737057491	5LF116D2QN
2x T16 35/49/80 W	G5	1547	1521	309	-	-	4.6	Multi 1...10V	4050737057460	5LF11662QN

height H: housing height incl. ceiling-sided rim holes

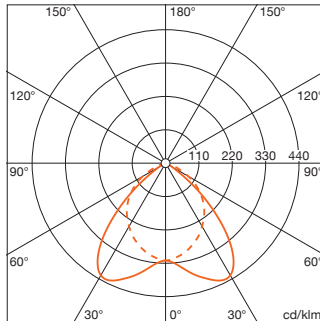


T16  
G5



4050737038469  
5LF12674MN

4 x T16 14W/840  $\phi$  4800 lm



$\eta_{LB}$  81%  $\phi_d$  100%  $\phi_r$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	28	1634
L <sub>70</sub>	357	2634
L <sub>65</sub>	744	3489

UGR 17.4 19.6

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.5	3.4	3.8						
30 m <sup>2</sup>	1.0	1.2	2.1	2.3	5.2	5.9						
40 m <sup>2</sup>	1.3	1.5	2.7	3.0	6.7	7.4						
50 m <sup>2</sup>	1.6	1.8	3.2	3.5	8.1	8.9						
75 m <sup>2</sup>	2.4	2.6	4.8	5.1	12	13						
100 m <sup>2</sup>	3.1	3.3	6.2	6.6	16	17						
500 m <sup>2</sup>	15	15	29	30	74	75						

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M | for T16 lamps square | with extruded aluminum louver, matt | wide distribution**

Single luminaire for ceiling recessing  
 — with extruded aluminum louver, matt, wide distribution  
 — with ECG or ECG Multiwatt

— housing of sheet steel, pure white (similar to RAL 9010)  
 — protection rating: IP20  
 — insulation class: I



Light source



for M600 and for cut ceiling aperture

						Order no. OSRAM	Order no. Siteco
3x T16 14/24 W	G5	597	597	3.5	Multi DALI	4050737041162	5LF126D3BN
3x T16 14/24 W	G5	597	597	3.5	Multi 1...10V	4050737044750	5LF12663BN
4x T16 14/24 W	G5	597	597	3.5	Multi DALI	4050737041193	5LF126D4BN
4x T16 14/24 W	G5	597	597	3.5	Multi 1...10V	4050737044781	5LF12664BN
3x T16 14 W	G5	597	597	3.3	ECG	4050737038421	5LF12673MN
3x T16 24 W	G5	597	597	3.3	ECG	4050737038452	5LF12673YN
4x T16 14 W	G5	597	597	3.3	ECG	4050737038469	5LF12674MN
4x T16 24 W	G5	597	597	3.3	ECG	4050737038483	5LF12674YN

for M625 and for cut ceiling aperture

						Order no. OSRAM	Order no. Siteco
3x T16 14/24 W	G5	622	622	3.6	Multi DALI	4050737041087	5LF116D3BN
3x T16 14/24 W	G5	622	622	3.6	Multi 1...10V	4050737044675	5LF11663BN
4x T16 14/24 W	G5	622	622	3.6	Multi DALI	4050737041100	5LF116D4BN
4x T16 14/24 W	G5	622	622	3.6	Multi 1...10V	4050737044699	5LF11664BN
3x T16 14 W	G5	622	622	3.6	ECG	4050737038186	5LF11673MN
3x T16 24 W	G5	622	622	3.6	ECG	4050737038216	5LF11673YN
4x T16 14 W	G5	622	622	3.6	ECG	4050737038223	5LF11674MN
4x T16 24 W	G5	622	622	3.6	ECG	4050737038247	5LF11674YN

— height H: housing height incl. ceiling-sided rim holes



**Siteco® Louvre Luminaire M | Siteco® Louvre Luminaire M LED mounting accessories**



**Rapid-mounting bracket**

for support profiles or mounting surfaces positioned longitudinally to the luminaire:  
 for luminaire with rectangular housing: 1-lamp; B = 184mm  
 for luminaire with square housing: 3-lamp; B = 622mm  
 2-lamp; B = 309mm

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 21...36mm	set of 4	4039806133953	5LF90014XC
Clamping range 36...50mm	set of 4	4039806137593	5LF90024XC

— 4 units required per luminaire



**Rapid-mounting bracket**

including auxiliary support profile for 2-lamp luminaires in square housing:  
 for 2-lamp luminaire; B = 622mm

Designation	PU	Order no. OSRAM	Order no. Siteco
for Module 625	set of 4	4039806134035	5LF90110XC

— 4 units required per luminaire  
 — fixing on horizontal section of the ceiling support profiles (height of support profiles of no importance)

www.TESL.com



# Siteco® Louvre Luminaire



The luminaires of the Siteco® Louvre Luminaire family are available as surface-mounted and recessed versions. They are suitable as single luminaires with different lighting technologies for a wide range of different standard lighting applications. For this, various T26 lamp configurations are available. The recessed luminaires are suitable for nearly all standard ceiling systems. The luminaire is equipped with either CAT2 specular louvers, extruded aluminum louvers or white louvers.

With the 1-lamp Siteco® Louvre Luminaire recessed luminaires for module 625, asymmetric light distribution is achieved via an asymmetric supplementary reflector and simple tilting of the lamp socket.

## Features

- economic luminaire range for standard applications
- standard-compliant room lighting with louver optics
- homogeneous, standard-compliant wall and panel lighting with wallwasher
- simple asymmetric light distribution by adjusting lamp socket position with 1-lamp luminaires, and via a reflector with 1-lamp luminaires for M625

## Lighting technology

- highly specular louver, aluminum, anodized, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- extruded aluminum crossblade louver, matt anodized, wide distribution
- white louver, aluminum, coated pure white, extremely wide distribution
- wallwasher, semi-specular, asymmetric distribution, for uniform illumination of walls, shelving or panels
- asymmetric light distribution with 1-lamp luminaires (for module 625 and for continuous row luminaires) via supplementary reflector (accessory) and adjustment of socket in luminaire

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal, max.  $2.5\text{mm}^2$  | with ECG

## Housing

Sheet steel housing, pure white (similar to RAL 9010) | the louver is mounted without tools and fixed into the luminaire housing with catches; it is secured with safety retaining cords and earthed for protection even when hinged downwards

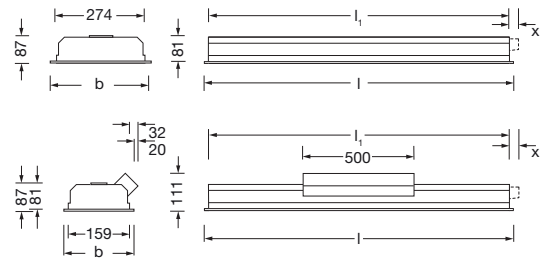
## Mounting information:

Lay-in mounting of square luminaires in system ceilings without accessories:

If only the intermediate cavity exactly above the ceiling cut-out is available for recessing, the required mounting dimension is  $MT \geq 25\text{cm}$

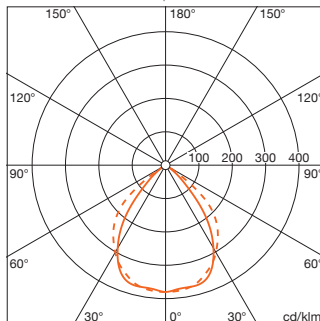
If the ceiling cavity to the sides of the ceiling cut-out can be used for recessing (e.g. if no support rods exist as part of the ceiling construction), the required minimum mounting dimension is  $MT_{\min} = 17\text{cm}$

For a version of this luminaire with wallwasher reflector, see **page 4.101**



4039806414243  
5LP11B72E

2 x T26 58W/840  $\phi$  10000 lm



$\eta_{LB}$  61.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	0	6
L <sub>70</sub>	1	9
L <sub>65</sub>	7	29

UGR 13.1 15.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.4	0.4	0.8	0.9	2.0	2.2
30 m <sup>2</sup>	0.6	0.7	1.2	1.3	3.0	3.3
40 m <sup>2</sup>	0.8	0.9	1.6	1.7	4.0	4.3
50 m <sup>2</sup>	1.0	1.0	1.9	2.1	4.8	5.2
75 m <sup>2</sup>	1.4	1.5	2.8	3.0	7.1	7.6
100 m <sup>2</sup>	1.9	2.0	3.8	4.0	9.4	9.9
500 m <sup>2</sup>	9.1	9.3	18	19	45	46

Maintenance factor 0.8

Rh = Lh

### Siteco® Louvre Luminaire single luminaire | for T26 lamps rectangular | with CAT2 highly specular louver

Single luminaire for ceiling recessing

- with highly specular louver, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

- for 1-lamp luminaires: recess depth in area of control gear: installed depth = 105mm
- with 36W and 58W versions for module 600: additionally with protruding socket hoods at one luminaire end



#### Light source



for M600 and for cut ceiling aperture

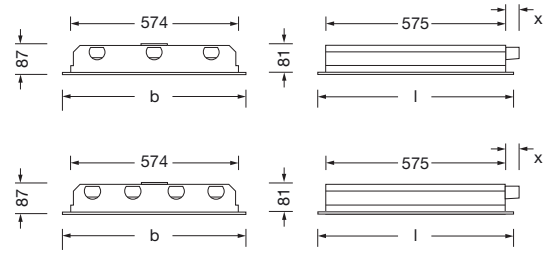
	G13	l [mm]	h [mm]	b [mm]	x [mm]	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1197	1174	182	40	3.3	ECG	4039806417435	5LP12B71C
2x T26 36 W	G13	1197	1174	297	40	4.4	ECG	4039806414267	5LP12B72C

for M625 and for cut ceiling aperture

	G13	l [mm]	h [mm]	b [mm]	x [mm]	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1247	1174	182	—	3.4	ECG	4039806412027	5LP11B71C
2x T26 36 W	G13	1247	1174	309	—	4.2	ECG	4039806413826	5LP11B72C

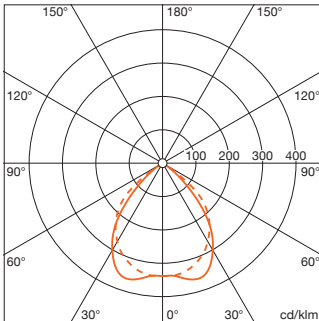
for cut ceiling aperture

	G13	l [mm]	h [mm]	b [mm]	x [mm]	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	1547	1525	182	—	4.1	ECG	4039806413802	5LP11B71E
2x T26 58 W	G13	1547	1525	309	—	5.6	ECG	4039806414243	5LP11B72E



4039806405746  
5LP12B74A

4 x T26 18W/840  $\phi$  5200 lm



$\eta_{LB}$  62.7%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3	1
L <sub>70</sub>	6	3
L <sub>65</sub>	9	14

UGR 12.7 14.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.8	1.5	1.7	3.8	4.2
30 m <sup>2</sup>	1.1	1.3	2.3	2.6	5.7	6.4
40 m <sup>2</sup>	1.5	1.7	3.0	3.3	7.6	8.3
50 m <sup>2</sup>	1.8	2.0	3.7	4.0	9.2	10.0
75 m <sup>2</sup>	2.7	2.9	5.3	5.8	13	14
100 m <sup>2</sup>	3.6	3.8	7.2	7.6	18	19
500 m <sup>2</sup>	17	18	35	35	86	88

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire single luminaire | for T26 lamps square | with CAT2 highly specular louver**

- Single luminaire for ceiling recessing
- with highly specular louver, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

- protruding socket hoods at one luminaire end



**Light source**



for M600 and for cut ceiling aperture

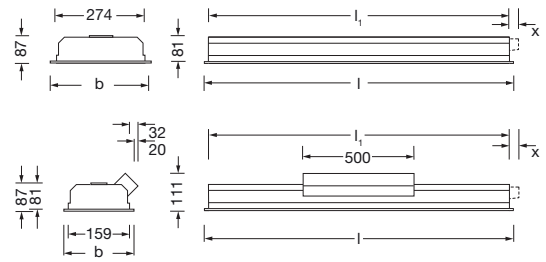
	G13	597	597	30	4.1	ECG	Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	597	597	30	4.1	ECG	4039806417497	5LP12B73A
4x T26 18 W	G13	597	597	30	4.0	ECG	4039806405746	5LP12B74A

for M625 and for cut ceiling aperture

	G13	622	622	18	4.1	ECG	Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	622	622	18	4.1	ECG	4039806001153	5LQ11273A
4x T26 18 W	G13	622	622	18	4.1	ECG	4039806001191	5LQ11274A

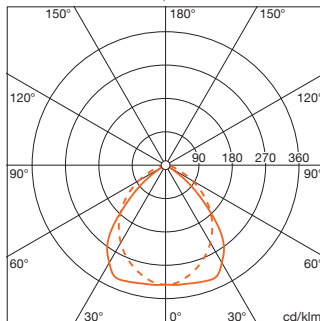


T26  
G13



4039806014870  
5LP12671C

1 x T26 36W/840  $\phi$  3200 lm



$\eta_{LB}$  66.6%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	71	1434
L <sub>70</sub>	142	1887
L <sub>65</sub>	193	2446

UGR 14.6 18.4

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Rh	Lh(m)	Rh	Lh(m)	Rh
20 m <sup>2</sup>	1.2	1.4	2.4	2.8	6.1	6.9
30 m <sup>2</sup>	1.9	2.1	3.8	4.3	9.5	11
40 m <sup>2</sup>	2.4	2.7	4.9	5.4	12	13
50 m <sup>2</sup>	3.0	3.2	5.9	6.4	15	16
75 m <sup>2</sup>	4.4	4.7	8.8	9.4	22	23
100 m <sup>2</sup>	5.7	6.0	11	12	28	30
500 m <sup>2</sup>	27	28	54	55	134	138

Maintenance factor 0.8

Rh = Lh

### Siteco® Louvre Luminaire single luminaire | for T26 lamps rectangular | with extruded aluminum louver, matt | wide distribution

Single luminaire for ceiling recessing  
 — with extruded aluminum louver, matt,  
 wide distribution  
 — with ECG

— housing of sheet steel,  
 pure white (similar to RAL 9010)  
 — protection rating: IP20  
 — insulation class: I

- for 1-lamp luminaires: recess depth in area of control gear: installed depth = 105mm
- with 36W and 58W versions for module 600: additionally with protruding socket hoods at one luminaire end



#### Light source



for M600 and for cut ceiling aperture

	G13	l	h	b	x	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1197	1174	182	40	3.3	ECG	4039806014870	5LP12671C
2x T26 36 W	G13	1197	1174	297	40	4.4	ECG	4039806015051	5LP12672C

for M625 and for cut ceiling aperture

	G13	l	h	b	x	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1247	1174	182	—	3.4	ECG	4039806008015	5LP11671C
2x T26 36 W	G13	1247	1174	309	—	4.6	ECG	4039806008176	5LP11672C

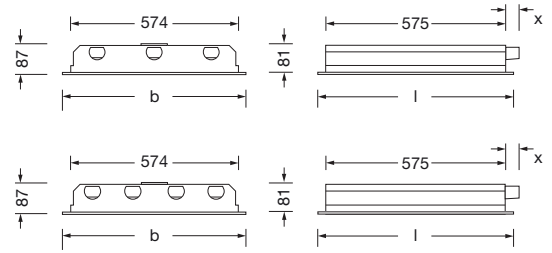
for cut ceiling aperture

	G13	l	h	b	x	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	1547	1525	182	—	4.0	ECG	4039806008039	5LP11671E
2x T26 58 W	G13	1547	1525	309	—	5.3	ECG	4039806008190	5LP11672E

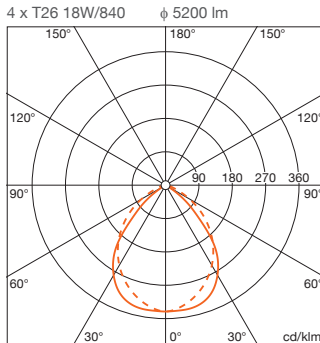
#### Accessories (for details see page 4.96 ff.)

#### Designation

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, semi-specular, asymmetric distribution, for 1x T26 36W	0.3	4039806046512	5LP97001C
Reflector, aluminum, semi-specular, asymmetric distribution, for 1x T26 58W	0.3	4039806046536	5LP97001E



4039806015358  
5LP12674A



$\eta_{LB}$  62.8%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	52	730
L <sub>70</sub>	93	1202
L <sub>65</sub>	126	1752

UGR 13.3 16.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(x)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	0.8	0.9	1.6	1.8	3.9	4.4
30 m <sup>2</sup>	1.2	1.3	2.4	2.7	6.1	6.7
40 m <sup>2</sup>	1.6	1.7	3.1	3.4	7.8	8.6
50 m <sup>2</sup>	1.9	2.1	3.8	4.1	9.5	10
75 m <sup>2</sup>	2.8	3.0	5.6	6.0	14	15
100 m <sup>2</sup>	3.7	3.9	7.4	7.8	18	19
500 m <sup>2</sup>	17	18	35	36	87	89

Maintenance factor 0.8 Rh = Lh

**Siteco® Louvre Luminaire single luminaire | for T26 lamps square | with extruded aluminum louver, matt**

- Single luminaire for ceiling recessing
- with extruded aluminum louver, matt, wide distribution
- with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

- protruding socket hoods at one luminaire end



**Light source**



for M600 and for cut ceiling aperture

	G13	l [mm]	b [mm]	x [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	597	597	30	3.8	ECG	4039806015259	5LP12673A
4x T26 18 W	G13	597	597	30	4.0	ECG	4039806015358	5LP12674A

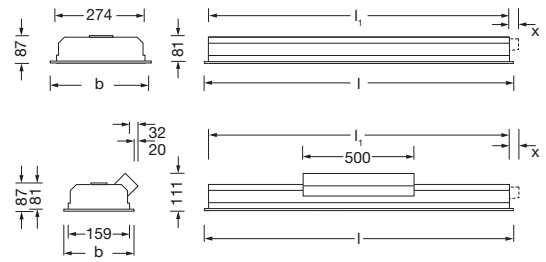
for M625 and for cut ceiling aperture

	G13	l [mm]	b [mm]	x [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	622	622	18	4.0	ECG	4039806001290	5LQ11673A
4x T26 18 W	G13	622	622	18	4.1	ECG	4039806001337	5LQ11674A



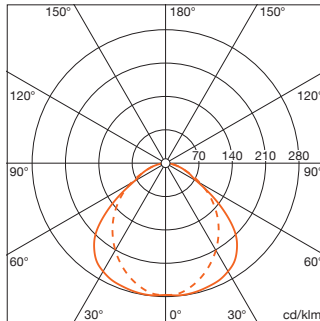


T26  
G13



4039806016096  
5LP12771C

1 x T26 36W/840  $\phi$  3200 lm



$\eta_{LB}$  69.2%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1797	1946
L <sub>70</sub>	2345	2280
L <sub>65</sub>	2531	2686

UGR 19.3 19.3

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500				
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.3	1.5	2.5	3.0	6.4	7.4							
30 m <sup>2</sup>	2.0	2.2	3.9	4.4	9.8	11							
40 m <sup>2</sup>	2.5	2.8	5.0	5.6	13	14							
50 m <sup>2</sup>	3.0	3.3	6.0	6.6	15	17							
75 m <sup>2</sup>	4.4	4.8	8.8	9.5	22	24							
100 m <sup>2</sup>	5.7	6.1	11	12	28	30							
500 m <sup>2</sup>	26	27	53	54	131	135							

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire single luminaire | for T26 lamps rectangular | with white louver | extremely wide distribution**

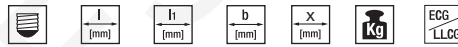
Single luminaire for ceiling recessing  
 — with white louver, wide distribution  
 — with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

- for 1-lamp luminaires: recess depth in area of control gear: installed depth = 105mm
- with 36W and 58W versions for module 600: additionally with protruding socket hoods at one luminaire end



**Light source**



for M600 and for cut ceiling aperture

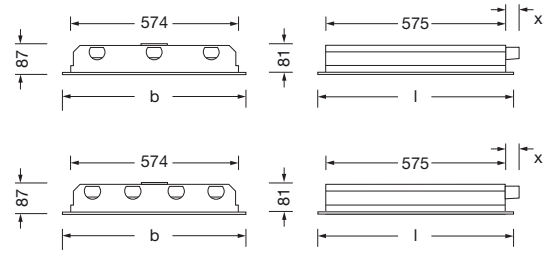
	G13	l [mm]	h [mm]	b [mm]	x [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1197	1174	182	40	3.3	ECG	4039806016096	5LP12771C
2x T26 36 W	G13	1197	1174	297	40	4.5	ECG	4039806016171	5LP12772C

for M625 and for cut ceiling aperture

	G13	l [mm]	h [mm]	b [mm]	x [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1247	1174	182	—	3.3	ECG	4039806008992	5LP11771C
2x T26 36 W	G13	1247	1174	309	—	4.6	ECG	4039806009173	5LP11772C

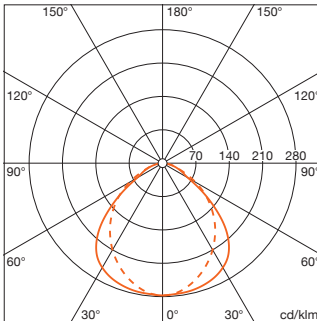
for cut ceiling aperture

	G13	l [mm]	h [mm]	b [mm]	x [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	1547	1525	182	—	4.1	ECG	4039806009012	5LP11771E
2x T26 58 W	G13	1547	1525	309	—	5.5	ECG	4039806009210	5LP11772E



4039806016379  
5LP12774A

4 x T26 18W/840  $\phi$  5200 lm



$\eta_{LB}$  65.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1267	1501
L <sub>70</sub>	1653	1777
L <sub>65</sub>	1797	2152

UGR 17.9 18.4

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(x)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.6	1.9	4.1	4.7
30 m <sup>2</sup>	1.3	1.4	2.5	2.8	6.3	7.1
40 m <sup>2</sup>	1.6	1.8	3.2	3.6	8.1	8.9
50 m <sup>2</sup>	1.9	2.1	3.9	4.3	9.7	11
75 m <sup>2</sup>	2.9	3.1	5.7	6.1	14	15
100 m <sup>2</sup>	3.7	3.9	7.4	7.9	18	20
500 m <sup>2</sup>	17	18	34	35	86	88

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire single luminaire | for T26 lamps square | with white louvre | extremely wide distribution**

- Single luminaire for ceiling recessing
- with white louvre, extremely wide distribution
- with ECG

- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

- protruding socket hoods at one luminaire end



**Light source**



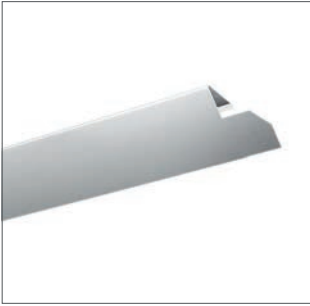
for M600 and for cut ceiling aperture

	G13	597	597	30	4.0	ECG	Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	597	597	30	4.0	ECG	4039806016317	5LP12773A
4x T26 18 W	G13	597	597	30	4.1	ECG	4039806016379	5LP12774A

for M625 and for cut ceiling aperture

	G13	622	622	18	4.0	ECG	Order no. OSRAM	Order no. Siteco
3x T26 18 W	G13	622	622	18	4.0	ECG	4039806001399	5LQ11773A
4x T26 18 W	G13	622	622	18	4.1	ECG	4039806001412	5LQ11774A

**Siteco® Louvre Luminaire optical accessories**



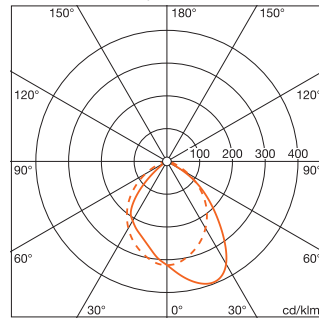
**Supplementary reflector, asymmetric distribution**

aluminum | for 1-lamp luminaires, l = 1247mm or l = 1547mm | semi-specular

Designation	Order no. OSRAM	Order no. Siteco
for 1x 36W, luminaire length l = 1247mm	4039806046512	5LP97001C
for 1x 58W, luminaire length l = 1547mm	4039806046536	5LP97001E

- the supplementary reflector is fitted to the side wall of the symmetric distribution louver and fixed with catches | the lamp socket is to be replugged into the asymmetric position

4039806008015 + 4039806046512  
5LP11671C + 5LP97001C  
1 x T26 36W/840  $\phi$  3200 lm



$\eta_{LB}$  63.2%  
 $I_{max}$  395 cd/klm bei  $\gamma$  20°

**Siteco® Louvre Luminaire electrical accessories**



**Additional terminal**

for installation in single luminaire | 2-pole (L2, L3) max. 2.5mm<sup>2</sup>

Designation	Order no. OSRAM	Order no. Siteco
Additional terminal	4039806271976	5LJ80002XK

- for single luminaires: for 5-pole luminaire connection (or 5-pole trough-wiring), 1 unit is required per luminaire



**Emergency light E14**

with connection terminal and micro-fuse | for tubular light source: E14; max. 40W (e.g. IT lamps), lamp dimensions: L ≤ 85mm, D ≤ 30mm

Designation	Order no. OSRAM	Order no. Siteco
Emergency light E14	4039806054418	5LL96001

- construction site operation can be retrofitted, fixing is in the luminaire housing. A louver side-wall is to be subsequently released (according to provided installation instructions).
- factory installation on request
- micro-fuse: G0.4A/250V

## Siteco® Louvre Luminaire mounting accessories



### Rapid-mounting bracket

for support profiles or mounting surfaces positioned longitudinally to the luminaire

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 18...33mm	set of 4	4039806611345	5LP9000XC
Clamping range 31...50mm	set of 4	4039806611338	5LP90010XC

- 4 units required per luminaire
- max. flange width of support profiles = 25mm



### Mounting angle

for optional mounting on the luminaire face-end or on the luminaire longitudinal side

Designation	PU	Order no. OSRAM	Order no. Siteco
for 1-lamp luminaires	set of 4	4039806046413	5LP95011
for 1-lamp luminaires	set of 16	4039806046437	5LP95014
for 2-lamp luminaires	set of 4	4039806046451	5LP95021
for 2-lamp luminaires	set of 16	4039806046475	5LP95024

- for ceilings with longitudinal luminaire mounting: 4 units required per luminaire, clamping range 25...67mm
- for ceilings with face-end luminaire mounting: 2 units required per luminaire, clamping range: 14...50mm
- for module 100 panel ceilings, when luminaires parallel to the panels: 4 units required per luminaire



# Siteco® Louvre Luminaire Plus Wallwasher



The direct distribution luminaires of the Siteco® Louvre Luminaire families are suitable for a wide range of standard lighting applications with various optics. The classic wallwasher of the Siteco® Louvre Luminaire Plus family for ceiling recessing is characterized by a concise design and functional lighting technology. The T26 fluorescent lamps and the wallwasher reflector generate a direct, asymmetric lighting effect for homogeneous, deep illumination of walls, shelves and panels.

## Features

- lighting solution complies with current standards for uniform wall and panel illumination
- continuous row luminaires with seamless reflector appearance
- slender light emission aperture
- high light output ratio (72%)
- wide spectrum of luminaires for many standard applications, optimized for T26 fluorescent lamps
- torsionally rigid, roll-formed metal housing

## Lighting technology

Wallwasher, semi-specular, direct asymmetric distribution, for uniform illumination of walls, shelving or panels

## Electrics

Luminaire wired ready for connection | with 5-pole connection terminal, max. 2.5mm<sup>2</sup>

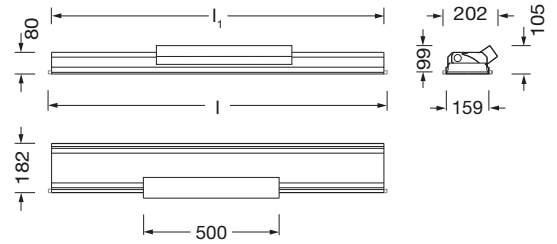
## Housing

Housing of sheet steel, pure white (similar to RAL 9010) | luminaire housing without end cap; metal end caps are available for the first and last luminaires of a continuous row | the reflector is mounted without tools and fixed into the luminaire housing with catches; it is secured with safety retaining cords and earthed for protection even when hinged downwards



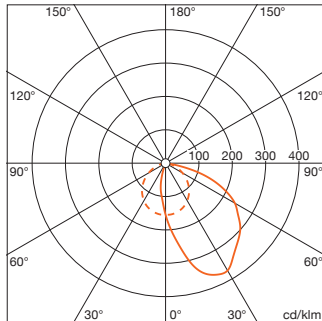


T26  
G13



4039806035516  
5LP41971C

1 x T26 36W/840  $\phi$  3200 lm



$\eta_{LB}$  58.7%  
 $I_{max}$  372 cd/klm at  $\gamma$  30°

**Siteco® Louvre Luminaire Plus for single or continuous row mounting | for T26 lamps with wallwasher for wall and panel illumination**

- Continuous row luminaire for ceiling recessing
- with wallwasher, semi-specular, direct asymmetric distribution
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

- continuous row luminaire without end caps (length =  $l_1$ ), please order end cap sets (LR = 2x 12mm) separately
- recess depth in area of control gear: installed depth = 105mm



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

for M625 and for cut ceiling aperture, pure white color

1x T26 36 W	G13	1248	1225	3.6	ECG	4039806035516	5LP41971C
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for cut ceiling aperture, pure white color

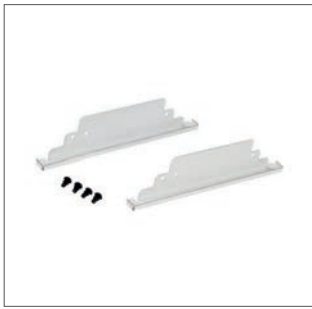
1x T26 58 W	G13	1548	1525	4.3	ECG	4039806035530	5LP41971E
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— please order end caps separately

**Mandatory accessories (for details see page 4.101)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, pure white, for 1-lamp	set of 2	0.1	4039806045638	5LP90011

### Siteco® Louvre Luminaire Plus Wallwasher housing accessories



#### Housing end cap

can be mounted on continuous row luminaires | sheet steel, pure white (similar to RAL 9010)

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap, 1-lamp	set of 2	4039806045638	5LP90011

— 2 units required per continuous row or per single mounting

### Siteco® Louvre Luminaire Plus Wallwasher electrical accessories



#### Through-wiring set

for through-wiring of the terminal of a luminaire to the terminal of the neighboring luminaire

Designation	Order no. OSRAM	Order no. Siteco
for 36W		
3 x 1.5mm <sup>2</sup>	4039806167583	5LY9115
5 x 1.5mm <sup>2</sup>	4039806167637	5LY9117

for 58W		
3 x 1.5mm <sup>2</sup>	4039806167606	5LY9116
5 x 1.5mm <sup>2</sup>	4039806167651	5LY9118

— for 5-pole through-wiring, please order one 2-pole additional terminal (L2, L3) per luminaire separately

### Siteco® Louvre Luminaire Plus Wallwasher mounting accessories



#### Rapid-mounting bracket

for support profiles or mounting surfaces positioned longitudinally to the luminaire

Designation	PU	Order no. OSRAM	Order no. Siteco
Clamping range 18...33mm	set of 4	4039806611345	5LP90000XC
Clamping range 31...50mm	set of 4	4039806611338	5LP90010XC

— 4 units required per luminaire  
— max. flange width of support profiles = 25mm



#### Mounting angle

for mounting on luminaire longitudinal side

Designation	PU	Order no. OSRAM	Order no. Siteco
for 1-lamp luminaires	set of 4	4039806046413	5LP95011
for 1-lamp luminaires	set of 16	4039806046437	5LP95014
for 2-lamp luminaires	set of 4	4039806046451	5LP95021
for 2-lamp luminaires	set of 16	4039806046475	5LP95024

— for ceilings with longitudinal luminaire mounting: 4 units required per luminaire, clamping range 25...67mm  
— for module 100 panel ceilings, when luminaires parallel to the panels: 4 units required per luminaire

www.TESLI.com





New York

London

Tokyo

www.thesell.com

**Spotlights for mounting to 3-phase track**



Lunis® SL-T  
Page 5.7

**Spotlights for Modario® trunking system**



Modario®  
spotlight module  
See chapter 8

**LED downlights for suspended, ceiling surface or semi-recessed mounting**



Lunis 2® Surface  
Page 5.17

**LED downlights for ceiling recessed mounting**



Lunis 2® micro  
Page 5.27



Lunis 2® mini  
Page 5.27



LEDVANCE®  
DOWNLIGHT  
Page 5.57



KIT LED PRO  
Page 5.61



KIT LED  
CLASSIC  
Page 5.63



PUNCTOLED®  
Page 5.65



PUNCTOLED®  
IP65  
Page 5.65



TRESOL® 10 W  
Page 5.69



LED TRESOL®  
Page 5.71

**Emergency light and sensor modules**



Lunis 2® micro  
emergency  
Page 5.51










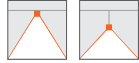
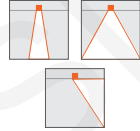

Lunis 2® micro  
controls  
Page 5.51

**Downlights for ceiling recessed mounting for compact fluorescent lamps**

















compact downlight  
Page 5.73









							
		Lunis® SL-T	Lunis 2® Surface	Lunis 2® micro	Lunis 2® mini	Lunis 2® micro emergency	Lunis 2® micro controls
<b>Installation method</b>	to 3-phase track	■					
	susp./ceiling surface		■/■				
	semi-recessed		■				
	ceiling recessed			■	■	■	■
<b>Ceiling cut-out (mm)</b>		-	-	100	162	100	100
<b>Light source</b>	LED	■	■	■	■	■	■
	HIT	■					
<b>Luminous flux (lm)</b>		2730–2460	880–1810	730–3830	980–3700		
<b>Light distribution</b>							
<b>UGR rating</b>	≤ 13						
	≤ 16						
	≤ 19	■	■	■	■		
	≤ 22		■	■	■		
	≤ 25		■	■	■		
<b>Suitable for VDU use (CAT)</b>			■	■	■		
<b>Protection rating</b>	IP20	■	■			■	
	IP23						
	IP33			■	■		
	IP54		■*	■**	■**		
	IP65						

\* with optional accessories  
 \*\* with optional accessories on room side



						
LEDVANCE® DOWNLIGHT L	LEDVANCE® DOWNLIGHT XL	KIT LED PRO	KIT LED CLASSIC	PUNCTOLED®	PUNCTOLED®	PUNCTOLED® IP65
■	■	■	■	■	■	■
162	212	80	75	57/76/86	76/98/124	67/95
■	■	■	■	■	■	■
1050–1120	1790–1970	265–390	245	220–265	600–1450	330–600
						
	■	■				
					■	
	■	■	■			
				■		
						■



				
		TRESOL® 10 W	TRESOL®	compact downlight
<b>Installation method</b>	to 3-phase track			
	susp./ceiling surface		-/■	
	semi-recessed			
	ceiling recessed	■	■	■
<b>Ceiling cut-out (mm)</b>		75	64	212
<b>Light source</b>	LED	■	■	
	TC-DEL/TC-TEL			■/■
<b>Luminous flux (lm)</b>		385	165	
<b>Light distribution</b>				
<b>UGR rating</b>	≤ 13			
	≤ 16			
	≤ 19			■
	≤ 22			■
	≤ 25			■
<b>Suitable for VDU use (CAT)</b>				
<b>Protection rating</b>	IP20	■	■	■
	IP23			
	IP33			
	IP54			
	IP65			■**

\*\* with optional accessories on room side



## Lunis® SL-T



The spotlights of the Lunis® SL-T family have been designed for use in the world of sales as well as in food and non-food areas. With the three available housing colors matt black, matt white and silver, they blend harmoniously into a wide variety of surroundings as well as aesthetically sophisticated applications, setting specific light accents. The spots are available in two lighting technologies: with LED or for HIT lamps.

For the attractive display of goods, Lunis® SL-T LED spotlights have good to very good color rendering properties (up to CRI = 93) and very good color constancy within the family over their complete lifespans thanks to intelligent binning. Flexibility is provided with two lumen packages, two light colors, reflectors with various beam angles as well as a clip-on glare protection.

The versions for HIT lamps are available with differing wattages and various beam angles. Accessories include dichroic color filters, UV and IR filters as well as a champagne-colored reflector for optimal display of goods and as clip-on glare protection.

In addition to the Lunis® SL-T family for 3-phase tracks, the spots are also available as Modario® spotlight modules for integrating into Modario® trunking systems.

### Features

- flexible spotlight range for retail applications
- harmonious blending into store and supermarket environments due to purist design and three housing colors
- can be rotated through 360° and tilted through 60°
- mounting options: to 3-phase track or integration into Modario® trunking system
- reflectors with various beam angles, glare protection available as accessory
- with LED technology or for HIT lamps
- efficient LED technology with upgrade option
- optimal presentation of goods with up to CRI 93
- very good color constancy within the family over the complete lifespan thanks to intelligent binning
- HIT version for high luminous flux levels
- dichroic color filters for the food sector available with HIT lamp configurations
- dichroic UV and IR filters for e.g. museums and galleries, available with HIT lamp configurations

### Lighting technology

Spotlights with LED or for HIT lamps, each with two performance packages and various reflectors | LED versions with very good color constancy within the family over the complete lifespan thanks to intelligent binning, CRI up to 93, optional dichroic color filters, UV and IR filters as well as a champagne-colored reflector with HIT versions

- horizontal rotation  $\leq 360^\circ$ ; vertical tilt 30°...90°
- rotationally symmetric narrow distribution 24°
- rotationally symmetric medium distribution 40°

### Electrics

Spotlights with 3-phase track adapter, suitable for 3-phase track from GLOBAL and eutrac brands (GLOBAL Trac Pro, type: XTS and XTSF/GLOBAL Trac Control, type: GNC/eutrac, type: 555) | 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

### Housing

Housing and luminaire head of diecast aluminum, white aluminum (RAL 9006), traffic white (RAL 9016) or deep black (RAL 9005); end caps and housing baseplate of PA, deep black (RAL 9005) | suitable for 3-phase tracks

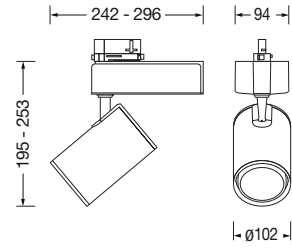
### Applications

- showrooms and flagship stores
- fashion stores and boutiques
- museums and galleries
- product presentation
- meat and cheese counters

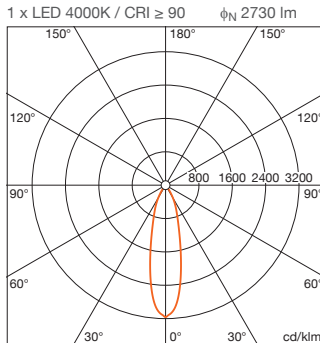
Spotlights in identical design for the Modario® trunking system are specified in **chapter 8**



LED



4006584740369  
5DS32A77VL3R8K



**Lunis® SL-T**  
narrow distribution (24°) | LED with 3000lm\*

- Spotlight for mounting to 3-phase track (RAL 9005); end caps and housing baseplate of PA, deep black (RAL 9005)
- rotationally symmetric narrow distribution; spotlight head rotation range ≤ 360° (horizontal); tilt range 30°...90° (vertical)
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum (RAL 9006), traffic white (RAL 9016) or deep black
- protection rating: IP20
- insulation class: I
- temperature range: +10°C...+35°C
- service life: up to 50,000h (L70 | B50)

- spotlights suitable for 3-phase track from GLOBAL and eutrac brands (GLOBAL Trac Pro, type: XTS and XTSF | GLOBAL Trac Control, type: GNC | eutrac, type: 555)
- 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

$I_{max}$  3165 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 0
L <sub>70</sub> 0
L <sub>65</sub> 0

$\alpha$ 50% 2 x 13.2°  
 $\alpha$ 10% 2 x 30.8°

UGR 17.2 17.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	0.94	2160	1691
3	1.41	960	752
4	1.88	540	423
5	2.35	346	271
6	2.81	240	188

No. of luminaires in room	Reflection factors 70/50/20				
	100	200	500		
20 m²	0.7	0.8	1.4	1.5	3.6
30 m²	1.6	1.5	3.1	3.0	7.8
40 m²	1.9	1.8	3.8	3.7	9.6
50 m²	2.5	2.3	4.9	4.7	12
75 m²	3.8	3.7	7.5	7.3	19
100 m²	4.7	4.5	9.4	9.0	24
500 m²	23	22	45	43	113

Maintenance factor 0.8

$R_h = L_h$



Light source



Order no.  
**OSRAM**

Order no.  
**Siteco**

White aluminum (RAL 9006)

	K	R <sub>a</sub>	lm	W SYSTEM	Kg	Order no. OSRAM	Order no. Siteco
LED	3000	> 90	2730	47	1.3	4006584739547	5DS32A77VL2R8H
LED	3000	> 80	2730	44	1.3	4006584739509	5DS32A77VL2R8C
LED	4000	> 90	2730	47	1.3	4006584740406	5DS32A77VL2R8K
LED	4000	> 80	2730	44	1.3	4006584740208	5DS32A77VL2R8E

White (RAL 9016)

LED	3000	> 90	2730	47	1.3	4006584738762	5DS32A77VL3R8H
LED	3000	> 80	2730	44	1.3	4006584741021	5DS32A77VL3R8C
LED	4000	> 90	2730	47	1.3	4006584740369	5DS32A77VL3R8K
LED	4000	> 80	2730	44	1.3	4006584740161	5DS32A77VL3R8E

Deep black matt (RAL 9005)

LED	3000	> 90	2730	47	1.3	4006584738786	5DS32A77VL1R8H
LED	3000	> 80	2730	44	1.3	4006584741045	5DS32A77VL1R8C
LED	4000	> 90	2730	47	1.3	4006584740383	5DS32A77VL1R8K
LED	4000	> 80	2730	44	1.3	4006584740185	5DS32A77VL1R8E

— please supply 3-phase track on site

**Accessories (for details see page 5.15)**

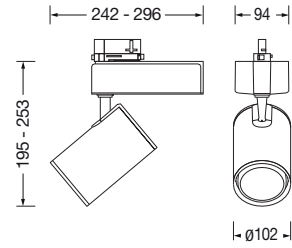
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

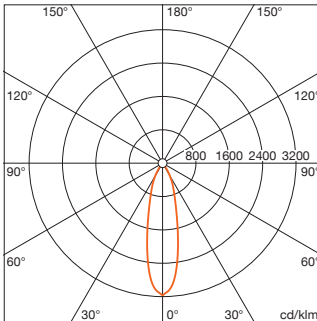




LED



4006584747474  
5DS32A77VL3R9C  
1 x LED 3000K / CRI ≥ 80  $\phi_N$  4600 lm



**Lunis® SL-T**  
**narrow distribution (24°) | LED with 5000lm\***

- Spotlight for mounting to 3-phase track
- rotationally symmetric narrow distribution; spotlight head rotation range ≤ 360° (horizontal); tilt range 30°...90° (vertical)
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum (RAL 9006), traffic white (RAL 9016) or deep black (RAL 9005); end caps and housing baseplate of PA, deep black (RAL 9005)
- protection rating: IP20
- insulation class: I
- temperature range: +10°C...+30°C
- service life: up to 50,000h (L70 | B50)

- Spotlights suitable for 3-phase track from GLOBAL and eutrac brands (GLOBAL Trac Pro, type: XTS and XTSF | GLOBAL Trac Control, type: GNC | eutrac, type: 555)
- 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

$I_{max}$  3165 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 0
L <sub>70</sub> 0
L <sub>65</sub> 0

$\alpha$ 50% 2 x 13.2°  
 $\alpha$ 10% 2 x 30.8°

UGR 19 19  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	0.94	3639	2850
3	1.41	1617	1266
4	1.88	910	712
5	2.35	582	456
6	2.81	404	317

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	0.4	0.5	0.8	0.9	2.1	2.3
30 m²	0.9	0.9	1.8	1.8	4.6	4.5
40 m²	1.1	1.1	2.3	2.2	5.7	5.4
50 m²	1.5	1.4	2.9	2.8	7.3	6.9
75 m²	2.2	2.2	4.5	4.3	11	11
100 m²	2.8	2.7	5.6	5.3	14	13
500 m²	13	13	27	26	67	64

Maintenance factor 0.8

Rh = Lh



Light source



Order no.  
**OSRAM**

Order no.  
**Siteco**

White aluminum (RAL 9006)

LED	3000	> 90	4200	75	1.3	4006584748037	5DS32A77VL2R9H
LED	3000	> 80	4600	72	1.3	4006584747634	5DS32A77VL2R9C
LED	4000	> 90	4500	75	1.3	4006584748099	5DS32A77VL2R9K
LED	4000	> 80	4600	72	1.3	4006584747696	5DS32A77VL2R9E

White (RAL 9016)

LED	3000	> 90	4200	75	1.3	4006584747870	5DS32A77VL3R9H
LED	3000	> 80	4600	72	1.3	4006584747474	5DS32A77VL3R9C
LED	4000	> 90	4500	75	1.3	4006584748112	5DS32A77VL3R9K
LED	4000	> 80	4600	72	1.3	4006584747719	5DS32A77VL3R9E

Deep black matt (RAL 9005)

LED	3000	> 90	4200	75	1.3	4006584747894	5DS32A77VL1R9H
LED	3000	> 80	4600	72	1.3	4006584747498	5DS32A77VL1R9C
LED	4000	> 90	4500	75	1.3	4006584748075	5DS32A77VL1R9K
LED	4000	> 80	4600	72	1.3	4006584747672	5DS32A77VL1R9E

— please supply 3-phase track on site

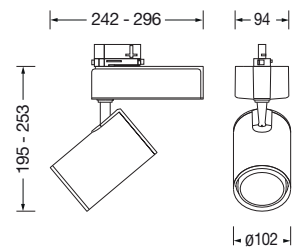
**Accessories (for details see page 5.15)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Anti-glare protection	0.1	4052899902961	5DS90900

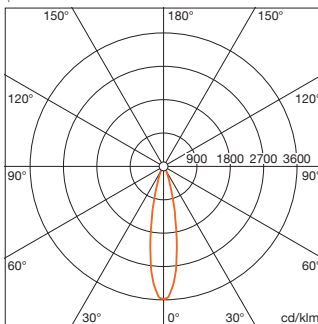
\* the specified luminous flux value corresponds to the gross luminous flux of the LED



HIT-TC-CE  
G8.5



4006584740581  
5DS32A71KD3R  
1 x HIT-TC-CE 35W/942 G8.5  
φ 3400 lm



$\eta_{LB}$  80%  
 $I_{max}$  3579 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 0  
L<sub>70</sub> 0  
L<sub>65</sub> 4678

$\alpha_{50\%}$  2 x 11.1°  
 $\alpha_{10\%}$  2 x 22.5°

UGR 18.4 18.4  
X 4 H Y 8 H  $\rho$  70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	Em(lx)
2	0.78	3042	2416
3	1.18	1352	1074
4	1.57	760	604
5	1.96	487	387
6	2.35	338	268

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.6	0.7	1.3	1.5	3.2	3.7
30 m <sup>2</sup>	2.0	1.8	4.1	3.7	10	9.2
40 m <sup>2</sup>	2.2	2.0	4.4	3.9	11	9.8
50 m <sup>2</sup>	2.9	2.6	5.9	5.1	15	13
75 m <sup>2</sup>	4.8	4.3	9.5	8.6	24	21
100 m <sup>2</sup>	5.4	4.8	11	9.6	27	24
500 m <sup>2</sup>	25	23	51	45	127	113

Maintenance factor 0.8  $R_h = L_h$

**Lunis® SL-T**  
**narrow distribution (24°) | HIT-TC-CE**

Spotlight for mounting to 3-phase track  
 — with silver-colored reflector, rotationally symmetric narrow distribution; spotlight head: rotation range  $\leq 360^\circ$  (horizontal); tilt range  $30^\circ \dots 90^\circ$  (vertical)  
 — with ECG  
 — housing and luminaire head of diecast aluminum, white aluminum (RAL 9006), traffic white (RAL 9016) or deep black

(RAL 9005); end caps and housing baseplate of PA, deep black (RAL 9005); cover of borosilicate glass  
 — protection rating: IP20  
 — insulation class: I  
 — temperature range: +10°C...+35°C

- spotlights suitable for 3-phase track from GLOBAL and eutrac brands (GLOBAL Trac Pro, type: XTS and XTSF | GLOBAL Trac Control, type: GNC | eutrac, type: 555)
- 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- silver-colored reflector: also suitable for optimal display of meats, cold meat and fish



Light source			Order no. OSRAM	Order no. Siteco
White aluminum (RAL 9006)				
1x HIT-TC-CE 35W	G8.5	1.2	4006584739097	5DS32A71KD2R
1x HIT-TC-CE 70W	G8.5	1.2	4006584739462	5DS32A71MD2R
White (RAL 9016)				
1x HIT-TC-CE 35W	G8.5	1.2	4006584740581	5DS32A71KD3R
1x HIT-TC-CE 70W	G8.5	1.2	4006584738625	5DS32A71MD3R
Deep black matt (RAL 9005)				
1x HIT-TC-CE 35W	G8.5	1.4	4006584740543	5DS32A71KD1R
1x HIT-TC-CE 70W	G8.5	1.2	4006584738649	5DS32A71MD1R

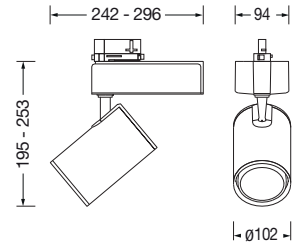
- please supply 3-phase track on site
- recommended lamps: OSRAM POWERBALL® HCI-TC

**Accessories (for details see page 5.15)**

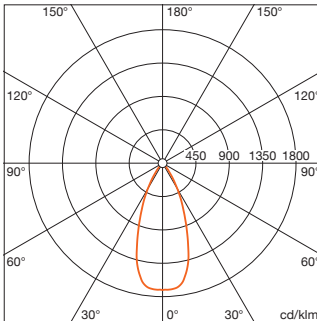
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Filter, dichroic, for baked goods and cheese	0.1	4052899902619	5DS7000B
Filter, dichroic, for meat, cold meats, fish	0.1	4052899902602	5DS7000W
IR filter	0.1	4052899902596	5DS7000I
UV filter	0.1	4052899902589	5DS7000U
Anti-glare protection	0.1	4052899902664	5DS9545BEE
Faceted reflector, champagne, narrow distribution, 24°, for baked goods and cheese	0.3	4052899902626	5DS7102G
Faceted reflector, champagne, medium distribution, 40°, for baked goods and cheese	0.3	4052899902633	5DS7103G
Faceted reflector, silver, medium distribution, 40°, for meat, cold meats, fish	0.3	4052899902657	5DS7103S



LED



4006584740260  
5DS32B77VL3R8K  
1 x LED 4000K / CRI ≥ 90  $\Phi_N$  2740 lm



$I_{max}$  1710 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 7015
L <sub>70</sub> 7123
L <sub>65</sub> 5764

$\alpha$ 50% 2 x 21.5°  
 $\alpha$ 10% 2 x 36.5°

UGR 19.6 19.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	1.58	1172	923
3	2.36	521	410
4	3.15	293	231
5	3.94	187	148
6	4.73	130	103

No. of luminaires in room	Reflection factors 70/50/20			
	100	200	500	
Lh(m)	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.6	1.7
30 m <sup>2</sup>	1.4	1.4	2.8	2.7
40 m <sup>2</sup>	1.7	1.7	3.5	3.5
50 m <sup>2</sup>	2.2	2.1	4.4	4.3
75 m <sup>2</sup>	3.4	3.3	6.9	6.5
100 m <sup>2</sup>	4.3	4.2	8.6	8.4
500 m <sup>2</sup>	21	20	41	41

Maintenance factor 0.8

Rh = Lh

**Lunis® SL-T**  
medium distribution (40°) | LED with 3000lm\*

- Spotlight for mounting to 3-phase track (RAL 9005); end caps and housing base-plate of PA, deep black (RAL 9005)
- rotationally symmetric medium distribution; spotlight head rotation range ≤ 360° (horizontal); tilt range 30°...90° (vertical)
  - with ECG
  - housing and luminaire head of diecast aluminum, white aluminum (RAL 9006), traffic white (RAL 9016) or deep black
  - protection rating: IP20
  - insulation class: I
  - temperature range: +10°C...+35°C
  - service life: up to 50,000h (L70 | B50)

- spotlights suitable for 3-phase track from GLOBAL and eutrac brands (GLOBAL Trac Pro, type: XTS and XTSF | GLOBAL Trac Control, type: GNC | eutrac, type: 555)
- 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



Light source

	K	R <sub>a</sub>	lm	W SYSTEM	kg	Order no. OSRAM	Order no. Siteco
White aluminum (RAL 9006)							
LED	3000	> 90	2740	47	1.3	4006584739561	5DS32B77VL2R8H
LED	3000	> 80	2740	44	1.3	4006584739523	5DS32B77VL2R8C
LED	4000	> 90	2740	47	1.3	4006584740307	5DS32B77VL2R8K
LED	4000	> 80	2740	44	1.3	4006584740109	5DS32B77VL2R8E
White (RAL 9016)							
LED	3000	> 90	2740	47	1.3	4006584738700	5DS32B77VL3R8H
LED	3000	> 80	2740	44	1.3	4006584740963	5DS32B77VL3R8C
LED	4000	> 90	2740	47	1.3	4006584740260	5DS32B77VL3R8K
LED	4000	> 80	2740	44	1.3	4006584740062	5DS32B77VL3R8E
Deep black matt (RAL 9005)							
LED	3000	> 90	2740	47	1.3	4006584738724	5DS32B77VL1R8H
LED	3000	> 80	2740	44	1.3	4006584740987	5DS32B77VL1R8C
LED	4000	> 90	2740	47	1.3	4006584740284	5DS32B77VL1R8K
LED	4000	> 80	2740	44	1.3	4006584740086	5DS32B77VL1R8E

— please supply 3-phase track on site

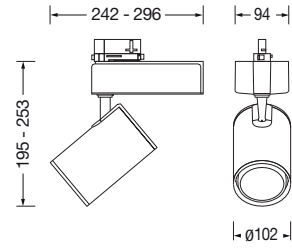
**Accessories (for details see page 5.15)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

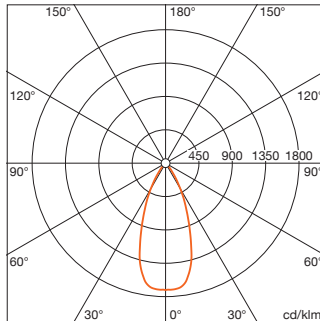


LED



4006584747559  
5DS32B77VL3R9C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  4610 lm



$I_{max}$  1710 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 11802
L <sub>70</sub> 11984
L <sub>65</sub> 9699

$\alpha$ 50% 2 x 21.5°  
 $\alpha$ 10% 2 x 36.5°

UGR 21.5 21.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	1.58	1971	1552
3	2.36	876	690
4	3.15	493	388
5	3.94	315	248
6	4.73	219	172

No. of luminaires in room	Reflection factors 70/50/20			
	100	200	500	
Lh(m)	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.5	0.5	0.9	1.0
30 m <sup>2</sup>	0.8	0.8	1.7	1.6
40 m <sup>2</sup>	1.0	1.0	2.1	5.1
50 m <sup>2</sup>	1.3	1.3	2.6	6.6
75 m <sup>2</sup>	2.0	1.9	4.1	3.9
100 m <sup>2</sup>	2.5	2.5	5.1	5.0
500 m <sup>2</sup>	12	12	25	24

Maintenance factor 0.8

$R_h = L_h$

**Lunis® SL-T**  
medium distribution (40°) | LED with 5000lm\*

- Spotlight for mounting to 3-phase track (RAL 9005); end caps and housing baseplate of PA, deep black (RAL 9005)
- rotationally symmetric medium distribution; spotlight head rotation range ≤ 360° (horizontal); tilt range 30°...90° (vertical)
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum (RAL 9006), traffic white (RAL 9016) or deep black
- protection rating: IP20
- insulation class: I
- temperature range: +10°C...+30°C
- service life: up to 50,000h (L70 | B50)

- spotlights suitable for 3-phase track from GLOBAL and eutrac brands (GLOBAL Trac Pro, type: XTS and XTSF | GLOBAL Trac Control, type: GNC | eutrac, type: 555)
- 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



Light source



Order no.  
**OSRAM**

Order no.  
**Siteco**

White aluminum (RAL 9006)

LED	K	Ra	Im	W	Kg	Order no. OSRAM	Order no. Siteco
LED	3000	> 90	4210	75	1.3	4006584748051	5DS32B77VL2R9H
LED	3000	> 80	4610	72	1.3	4006584747658	5DS32B77VL2R9C
LED	4000	> 90	4510	75	1.3	4006584748198	5DS32B77VL2R9K
LED	4000	> 80	4610	72	1.3	4006584747795	5DS32B77VL2R9E

White (RAL 9016)

LED	K	Ra	Im	W	Kg	Order no. OSRAM	Order no. Siteco
LED	3000	> 90	4210	75	1.3	4006584747955	5DS32B77VL3R9H
LED	3000	> 80	4610	72	1.3	4006584747559	5DS32B77VL3R9C
LED	4000	> 90	4510	75	1.3	4006584748211	5DS32B77VL3R9K
LED	4000	> 80	4610	72	1.3	4006584747818	5DS32B77VL3R9E

Deep black matt (RAL 9005)

LED	K	Ra	Im	W	Kg	Order no. OSRAM	Order no. Siteco
LED	3000	> 90	4210	75	1.3	4006584747979	5DS32B77VL1R9H
LED	3000	> 80	4610	72	1.3	4006584747573	5DS32B77VL1R9C
LED	4000	> 90	4510	75	1.3	4006584748174	5DS32B77VL1R9K
LED	4000	> 80	4610	72	1.3	4006584747771	5DS32B77VL1R9E

— please supply 3-phase track on site

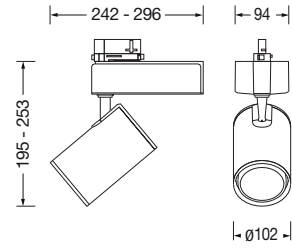
**Accessories (for details see page 5.15)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

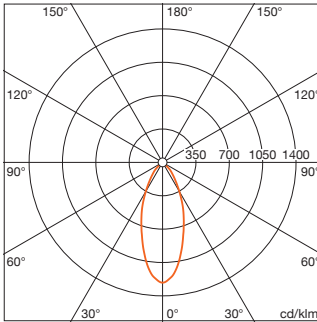
\* the specified luminous flux value corresponds to the gross luminous flux of the LED



HIT-TC-CE G8.5



4006584740505  
5DS32B71KD3R  
1 x HIT-TC-CE 35W/942 G8.5  
φ 3400 lm



η<sub>LB</sub> 81%  
I<sub>max</sub> 1261 cd/klm at γ 0°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 1064  
L<sub>70</sub> 3780  
L<sub>65</sub> 5918

α<sub>50%</sub> 2 x 20.7°  
α<sub>10%</sub> 2 x 43.6°

UGR 23 23  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	Em(lx)
2	1.51	1072	788
3	2.27	477	350
4	3.02	268	197
5	3.78	172	126
6	4.53	119	88

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.8	0.9	1.6	1.8	4.0	4.4
30 m <sup>2</sup>	1.4	1.4	2.8	2.8	6.9	7.1
40 m <sup>2</sup>	1.8	1.8	3.5	3.7	8.8	9.1
50 m <sup>2</sup>	2.2	2.2	4.4	4.5	11	11
75 m <sup>2</sup>	3.3	3.3	6.7	6.7	17	17
100 m <sup>2</sup>	4.3	4.3	8.5	8.7	21	22
500 m <sup>2</sup>	21	21	41	41	103	104

Maintenance factor 0.8 Rh = Lh

**Lunis® SL-T medium distribution (40°) | HIT-TC-CE**

Spotlight for mounting to 3-phase track  
 — with silver-colored reflector, rotationally symmetric medium distribution; spotlight head: rotation range ≤ 360° (horizontal); tilt range 30°...90° (vertical)  
 — with ECG  
 — housing and luminaire head of diecast aluminum, white aluminum (RAL 9006), traffic white (RAL 9016) or deep black

(RAL 9005); end caps and housing baseplate of PA, deep black (RAL 9005); cover of borosilicate glass  
 — protection rating: IP20  
 — insulation class: I  
 — temperature range: +10°C...+35°C

- spotlights suitable for 3-phase track from GLOBAL and eutrac brands (GLOBAL Trac Pro, type: XTS and XTSF | GLOBAL Trac Control, type: GNC | eutrac, type: 555)
- 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- silver-colored reflector: also suitable for optimal display of meat, cold meat and fish



Light source			Order no. OSRAM	Order no. Siteco
White aluminum (RAL 9006)				
1x HIT-TC-CE 35W	G8.5	1.2	4006584739448	5DS32B71KD2R
1x HIT-TC-CE 70W	G8.5	1.2	4006584739486	5DS32B71MD2R
White (RAL 9016)				
1x HIT-TC-CE 35W	G8.5	1.2	4006584740505	5DS32B71KD3R
1x HIT-TC-CE 70W	G8.5	1.2	4006584738540	5DS32B71MD3R
Deep black matt (RAL 9005)				
1x HIT-TC-CE 35W	G8.5	1.2	4006584740529	5DS32B71KD1R
1x HIT-TC-CE 70W	G8.5	1.2	4006584738564	5DS32B71MD1R

- please supply 3-phase track on site
- recommended lamps: OSRAM POWERBALL® HCI-TC

**Accessories (for details see page 5.15)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Filter, dichroic, for baked goods and cheese	0.1	4052899902619	5DS7000B
Filter, dichroic, for meat, cold meats, fish	0.1	4052899902602	5DS7000W
IR filter	0.1	4052899902596	5DS7000I
UV filter	0.1	4052899902589	5DS7000U
Anti-glare protection	0.1	4052899902664	5DS9545BEE
Faceted reflector, champagne, medium distribution, 40°, for baked goods and cheese	0.3	4052899902633	5DS7103G
Faceted reflector, champagne, narrow distribution, 24°, for baked goods and cheese	0.3	4052899902626	5DS7102G
Faceted reflector, silver, narrow distribution, 24°, for meat, cold meats, fish	0.3	4052899902640	5DS7102S

**Lunis® SL-T optical accessories for LED configurations**

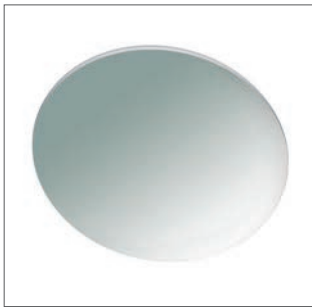


**Anti-glare protection**

for reduction of luminance with direct viewing into spotlight | plastic, silver-coated | simple mounting via clipping into reflector

Designation	Order no. OSRAM	Order no. Siteco
Anti-glare protection	4052899902961	5DS90900

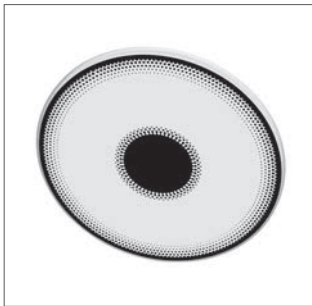
**Lunis® SL-T optical accessories for HIT-TC-CE configurations**



**Dichroic conversion filters**

for optimal presentation, especially of fresh products, due to improved filter characteristics with less heating of glass (compared to conventional filter glass) | filters for various foods and other sensitive goods | simple mounting via laying into mounting ring of reflector

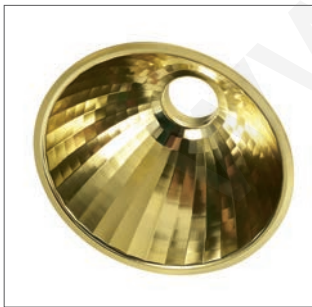
Designation	Order no. OSRAM	Order no. Siteco
Filter for baked goods/cheese	4052899902619	5DS7000B
Filter for meat/cold meats/fish	4052899902602	5DS7000W
IR filter	4052899902596	5DS7000I
UV + IR filter	4052899902589	5DS7000U



**Anti-glare protection**

for reduction of luminance with direct viewing into spotlight | clear disk, frosted in central area and on outer edge | simple mounting via laying into mounting ring of reflector

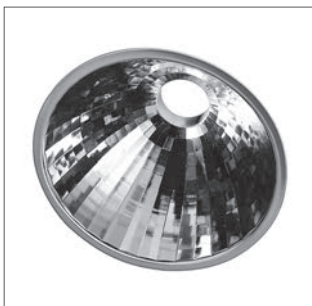
Designation	Order no. OSRAM	Order no. Siteco
Anti-glare protection	4052899902664	5DS9545BEE



**Reflector, champagne-colored**

for optimal display of products, especially baked goods and cheese | aluminum reflector, champagne-colored | for replacing series reflector

Designation	Transmission angle	Order no. OSRAM	Order no. Siteco
Reflector	24°	4052899902626	5DS7102G
Reflector	40°	4052899902633	5DS7103G



**Reflector, silver-colored**

for subsequent modification of beam angle | aluminum reflector, silver-colored also for optimal display of meat, cold meats and fish | for replacing series reflector

Designation	Transmission angle	Order no. OSRAM	Order no. Siteco
Reflector	24°	4052899902640	5DS7102S
Reflector	40°	4052899902657	5DS7103S



www.TESLI.com



## Lunis 2<sup>®</sup> Surface



Lunis 2<sup>®</sup> Surface supplements the Lunis 2<sup>®</sup> downlight range with versions for ceiling surface, semi-recessed and suspended mounting. Lunis 2<sup>®</sup> LED Surface references the high-quality Lunis 2<sup>®</sup> downlights in terms of form and design, and is the ideal lighting for prestigious areas in office and management buildings, hotels and retail areas. Thanks to the modular construction consisting of the Lunis 2<sup>®</sup> mini LED downlight and the cylindrical surface-mounted housing, a wide range of versions in terms of optics, lumen packages and light distribution characteristics are available for the Lunis 2<sup>®</sup> LED Surface. Installation is carried out according to the familiar principle of the Lunis 2<sup>®</sup> downlights. Instead of directly in the ceiling, the downlight is installed via the catch system into the installation housing. Lunis 2<sup>®</sup> Surface is compatible with the optical and decorative accessories of the Lunis 2<sup>®</sup> mini LED downlights.

### Features

- supplement and expansion to the Lunis 2<sup>®</sup> mini downlight family with versions for ceiling surface mounting, semi-recessing and suspended mounting
- high-quality appearance for sophisticated applications
- traditional cylindrical design with aluminum housing in two colors
- flexibility in use with modular design, with Lunis 2<sup>®</sup> mini LED downlight as basis
- high energy-saving potential and long lifespan due to LED technology
- simple handling with familiar Lunis 2<sup>®</sup> mounting system
- compatible with optical and decorative accessories of the Lunis 2<sup>®</sup> mini LED downlights
- protection rating increased up to IP54 with suitable cover panel

### Lighting technology

Reflector system of plastic, vaporized aluminum:

- darklight reflector, highly specular or matt
- medium distribution, optional with CAT2 ( $L \leq 1000\text{cd/m}^2$ ),  $UGR \leq 19$

### Electrics

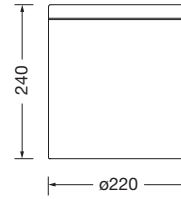
Recessed downlight with separate gearbox for installing in surface-mounted housing: external gearbox with 3-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>; with pre-assembled cable with plug connection to downlight, recessed downlight and gearbox accommodated in the surface-mounted housing

### Housing

Downlight consisting of surface-mounted housing and recessed downlight components and optional semi-recessed installation kit for partly recessed installation of the surface-mounted housing in suspended ceilings: housing of aluminum, white or white aluminum (RAL 9006) | recessed downlight with modular design consisting of reflector, mounting ring and separate gearbox | mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016) | tool-free clip attachment in the surface-mounted housing via quick release system with catches | reflector of plastic, vaporized aluminum | the reflector is visually separated from the mounting ring due to the shadow gap and can be positioned in four different positions in the mounting ring: protruding, flush with the edge, lightly recessed or strongly recessed | supplementary cover panel (IP54) possible with recessed mounting | all components mounted without tools | semi-recessing installation kit of sheet steel, galvanized; visible ring, white or white aluminum (RAL 9006)

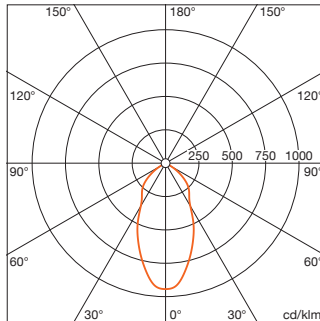


LED



4050737032931  
5DN11K78VL3W3C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  980 lm



$I_{max}$  943 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

	C 0/180
L <sub>80</sub>	21
L <sub>70</sub>	59
L <sub>65</sub>	1230

UGR 20.3 20.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	1.95	231	165
3	2.93	103	73
4	3.90	58	41
5	4.88	37	26
6	5.85	26	18

No. of luminaires in room

Reflection factors	70/50/20					
	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	2.5	2.8	5.0	5.6	12	14
30 m²	4.0	4.2	8.0	8.5	20	21
40 m²	5.1	5.5	10	11	26	27
50 m²	6.3	6.6	13	13	32	33
75 m²	9.4	9.7	19	19	47	48
100 m²	12	13	24	25	61	63
500 m²	58	59	116	117	289	294

Maintenance factor 0.8

$R_h = L_h$

**Lunis 2® Surface | with replaceable LED module, medium distribution (2x 25°), highly specular, cut-off 25° | LED with 1100lm\***

Downlight for ceiling surface mounting, semi-recessing or suspended mounting

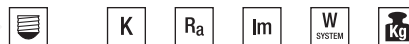
- darklight reflector, highly specular, medium distribution, cut-off 25°
- separate CG unit with ECG
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)

- protection rating: IP20 (IP54 with cover together with ceiling spacer adapter)
- insulation class: I
- service life: up to 25,000h (L70 | B10)

- gearbox with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight; downlight and gearbox suitable for installing in surface-mounted housing
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



Light source



Order no. OSRAM

Order no. Siteco

Downlight

LED	PHJ65-II	3000	> 80	980	16	1.5	4050737032931	5DN11K78VL3W3C
LED	PHJ65-II	4000	> 80	980	15	1.5	4050737032955	5DN11K78VL3W3E

Designation



Order no. OSRAM

Order no. Siteco

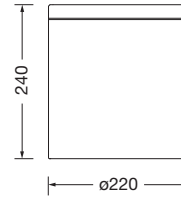
Surface-mounted housing

White	1.1	4050737535265	5DNA7701W
White aluminum (RAL 9006)	1.1	4050737535241	5DNA7701S

- please order surface-mounted housing separately
- please order decorative optical accessories separately if required
- please order mounting accessories according to application separately

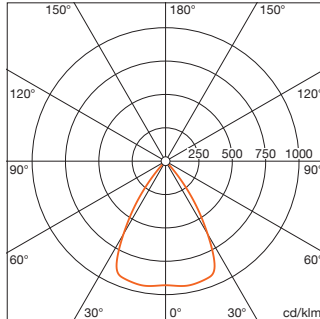
**For decorative optical accessories (ring louver, attachment disc, cover disc) and mounting accessories see page 5.24 ff.**

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



4050737029726  
5DN11K77VL336C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1500 lm



$I_{max}$  947 cd/klm at  $\gamma$  10°

Luminance values (cd/m²)

C 0/180
L80 0
L70 0
L65 56

UGR 16.5 16.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	ø(m)	$E_{max}(lx)$	$E_m(lx)$
2	2.61	349	271
3	3.91	155	120
4	5.22	87	68
5	6.52	56	43
6	7.82	39	30

No. of luminaires in room

Reflection factors 70/50/20	$E_m(lx)$					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	1.6	1.6	3.2	3.2	8.0	7.9
30 m²	2.1	2.4	4.2	4.9	10	12
40 m²	3.0	3.2	6.1	6.5	15	16
50 m²	3.7	3.9	7.4	7.8	18	19
75 m²	5.1	5.9	10	12	26	29
100 m²	7.3	7.7	15	15	37	39
500 m²	36	37	72	75	181	187

Maintenance factor 0.8

$R_h = L_h$

**Lunis 2® Surface medium distribution (2x 30°), highly specular, cut-off 50° | CAT2, UGR ≤ 19 | LED with 2000lm\***

Downlight for ceiling surface mounting, semi-recessing or suspended mounting

- darklight reflector, highly specular, medium distribution, cut-off 50°; CAT2 ( $L \leq 1000cd/m^2$ ), UGR ≤ 19
- separate CG unit with ECG

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- protection rating: IP20 (IP54 with cover together with ceiling spacer adapter)
- insulation class: I
- service life: up to 50,000h (L70 | B10)

- gearbox with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight; downlight and gearbox suitable for installing in surface-mounted housing
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

**Downlight**

Light source	K	$R_a$	lm	W SYSTEM	Kg	ECG LCG	Order no. OSRAM	Order no. Siteco
Downlight LED	3000	> 80	1500	22	1.6	ECG	4050737029726	5DN11K77VL336C
LED	4000	> 80	1500	20	1.3	ECG	4050737029733	5DN11K77VL336E
LED	3000	> 80	1500	22	1.3	DALI	4050737030302	5DN11KD7VL356C
LED	4000	> 80	1500	20	1.3	DALI	4050737030319	5DN11KD7VL356E

**Designation**



Order no.  
**OSRAM**

Order no.  
**Siteco**

**Surface-mounted housing**

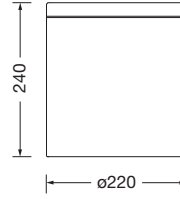
White	1.1	4050737535265	5DNA7701W
White aluminum (RAL 9006)	1.1	4050737535241	5DNA7701S

- please order surface-mounted housing separately
- please order decorative optical accessories separately if required
- please order mounting accessories according to application separately

**For decorative optical accessories (ring louver, attachment disc, cover disc) and mounting accessories see page 5.24 ff.**

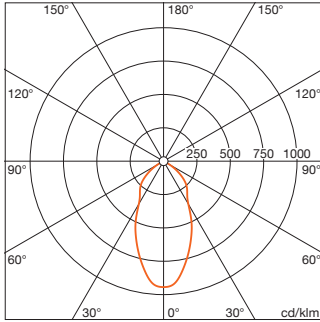


LED



4050737032856  
5DN11B77VL336C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1810 lm



$I_{max}$  943 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 38
L <sub>70</sub> 109
L <sub>65</sub> 2273

UGR 22.4 22.4  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	1.95	427	305
3	2.93	190	135
4	3.90	107	76
5	4.88	68	49
6	5.85	47	34

No. of luminaires in room

Lh(m)	Reflection factors 70/50/20		100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.3	1.5	2.7	3.1	6.7	7.6		
30 m <sup>2</sup>	2.2	2.3	4.4	4.6	11	11		
40 m <sup>2</sup>	2.8	3.0	5.6	5.9	14	15		
50 m <sup>2</sup>	3.4	3.6	6.9	7.2	17	18		
75 m <sup>2</sup>	5.1	5.2	10	10	25	26		
100 m <sup>2</sup>	6.6	6.8	13	14	33	34		
500 m <sup>2</sup>	31	32	63	64	157	159		

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Lunis 2® Surface**  
**medium distribution (2x 25°), highly specular, cut-off 25° | LED with 2000lm\***

Downlight for ceiling surface mounting, semi-recessing or suspended mounting  
 — darklight reflector, highly specular, medium distribution, cut-off 25°  
 — separate CG unit with ECG  
 — mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)

- protection rating: IP20 (IP54 with cover together with ceiling spacer adapter)
- insulation class: I
- service life: up to 50,000h (L70 | B10)

- gearbox with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight; downlight and gearbox suitable for installing in surface-mounted housing
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

Downlight

LED	3000	> 80	1810	26	1.9	ECG	4050737032856	5DN11B77VL336C
LED	4000	> 80	1810	23	1.9	ECG	4050737032870	5DN11B77VL336E
LED	3000	> 80	1810	26	1.9	DALI	4050737032894	5DN11BD7VL356C
LED	4000	> 80	1810	23	1.9	DALI	4050737032924	5DN11BD7VL356E

**Designation**



Order no.  
**OSRAM**

Order no.  
**Siteco**

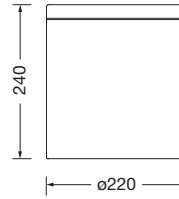
Surface-mounted housing

White	1.1	4050737535265	5DNA7701W
White aluminum (RAL 9006)	1.1	4050737535241	5DNA7701S

- please order surface-mounted housing separately
- please order decorative optical accessories separately if required
- please order mounting accessories according to application separately

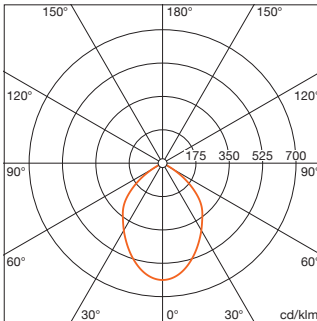
**For decorative optical accessories (ring louver, attachment disc, cover disc) and mounting accessories see page 5.24 ff.**

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



4050737054773  
5DN12K78VL3W3C

1 x LED 3000K / CRI ≥ 80  $\phi_{N}$  880 lm



$I_{max}$  613 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	645
L <sub>70</sub>	1049
L <sub>65</sub>	2348

UGR 21 21  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	3.59	135	80
3	5.38	60	36
4	7.18	34	20
5	8.97	22	13
6	10.77	15	9

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	2.9	3.3	5.7	6.6	14	16
30 m <sup>2</sup>	4.5	4.9	9.0	9.9	23	25
40 m <sup>2</sup>	5.8	6.3	12	13	29	32
50 m <sup>2</sup>	7.1	7.6	14	15	35	38
75 m <sup>2</sup>	11	11	21	22	53	55
100 m <sup>2</sup>	14	14	27	29	68	72
500 m <sup>2</sup>	64	66	129	132	322	329

Maintenance factor 0.8 Rh = Lh

**Lunis 2® Surface | with replaceable LED module, medium distribution (2x 35°), matt, cut-off 25° | LED with 1100lm\***

Downlight for ceiling surface mounting, semi-recessing or suspended mounting

- matt reflector, medium distribution; cut-off 25°
- separate CG unit with ECG
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)

- protection rating: IP20 (IP54 with cover together with ceiling spacer adapter)
- insulation class: I
- service life: up to 50,000h (L70 | B10)

- gearbox with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight; downlight and gearbox suitable for installing in surface-mounted housing
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

**Downlight**

LED	PHJ65-II	3000	> 80	878	16	1.5	4050737054773	5DN12K78VL3W3C
LED	PHJ65-II	4000	> 80	878	15	1.4	4050737054780	5DN12K78VL3W3E

**Designation**



Order no.  
**OSRAM**

Order no.  
**Siteco**

**Surface-mounted housing**

White	1.1	4050737535265	5DNA7701W
White aluminum (RAL 9006)	1.1	4050737535241	5DNA7701S

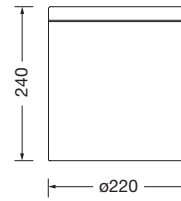
- please order surface-mounted housing separately
- please order decorative optical accessories separately if required
- please order mounting accessories according to application separately

**For decorative optical accessories (ring louver, attachment disc, cover disc) and mounting accessories see page 5.24 ff.**



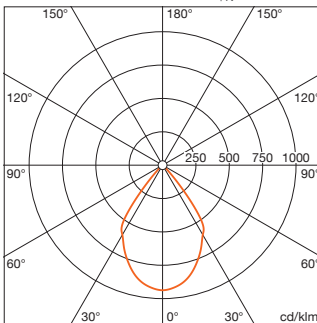


LED



4050737054698  
5DN12K77VL336C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1210 lm



$I_{max}$  937 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	334
L <sub>70</sub>	559
L <sub>65</sub>	808

UGR 17.6 17.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	2.87	283	190
3	4.31	126	85
4	5.75	71	48
5	7.19	45	30
6	8.62	31	21

No. of luminaires in room

Reflection factors 70/50/20	Em(lx)					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.9	2.0	3.8	3.9	9.6	9.8
30 m <sup>2</sup>	3.0	3.3	6.0	6.5	15	16
40 m <sup>2</sup>	4.0	4.1	7.9	8.2	20	21
50 m <sup>2</sup>	4.8	5.0	9.6	10	24	25
75 m <sup>2</sup>	7.3	7.7	15	15	37	38
100 m <sup>2</sup>	9.5	9.7	19	19	48	49
500 m <sup>2</sup>	47	46	93	93	233	232

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Lunis 2® Surface medium distribution (2x 30°), matt, cut-off 50° | CAT2, UGR ≤ 19 | LED with 2000lm\***

- Downlight for ceiling surface mounting, semi-recessing or suspended mounting
- matt reflector, medium distribution, cut-off 50°; CAT2 (L ≤ 1000cd/m<sup>2</sup>); UGR ≤ 19
- separate CG unit with ECG
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- protection rating: IP20 (IP54 with cover together with ceiling spacer adapter)
- insulation class: I
- service life: up to 50,000h (L70 | B10)

- gearbox with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight; downlight and gearbox suitable for installing in surface-mounted housing
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

Downlight

LED	3000	> 80	1210	22	1.3	ECG	4050737054698	5DN12K77VL336C
LED	4000	> 80	1210	20	1.3	ECG	4050737054704	5DN12K77VL336E
LED	3000	> 80	1210	22	1.3	DALI	4050737054803	5DN12KD7VL356C
LED	4000	> 80	1210	20	1.5	DALI	4050737054827	5DN12KD7VL356E

**Designation**



Order no.  
**OSRAM**

Order no.  
**Siteco**

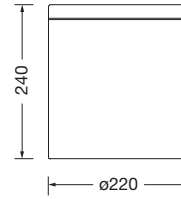
Surface-mounted housing

White	1.1	4050737535265	5DNA7701W
White aluminum (RAL 9006)	1.1	4050737535241	5DNA7701S

- please order surface-mounted housing separately
- please order decorative optical accessories separately if required
- please order mounting accessories according to application separately

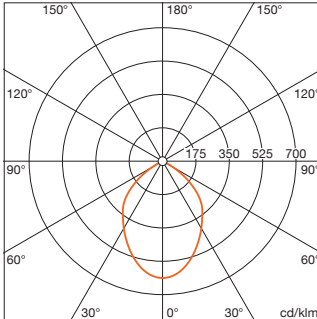
**For decorative optical accessories (ring louver, attachment disc, cover disc) and mounting accessories see page 5.24 ff.**

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



4050737054537  
5DN12B77VL336C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1710 lm



$I_{max}$  613 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	1255
L <sub>70</sub>	2038
L <sub>65</sub>	4563

UGR 23.3 23.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	3.59	262	156
3	5.38	116	69
4	7.18	65	39
5	8.97	42	25
6	10.77	29	17

No. of luminaires in room

Reflection factors 70/50/20

Lh(m)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.4	8.4
30 m <sup>2</sup>	2.3	2.5	4.7	5.1	12	13
40 m <sup>2</sup>	3.0	3.3	6.0	6.5	15	16
50 m <sup>2</sup>	3.6	3.9	7.3	7.8	18	20
75 m <sup>2</sup>	5.4	5.7	11	11	27	28
100 m <sup>2</sup>	7.0	7.4	14	15	35	37
500 m <sup>2</sup>	33	34	66	68	166	170

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Lunis 2® Surface medium distribution (2x 35°), matt, cut-off 25° | LED with 2000lm\***

Downlight for ceiling surface mounting, semi-recessing or suspended mounting

- matt reflector, medium distribution; cut-off 25°
- separate CG unit with ECG
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)

- protection rating: IP20 (IP54 with cover together with ceiling spacer adapter)
- insulation class: I
- service life: up to 50,000h (L70 | B10)

- gearbox with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight; downlight and gearbox suitable for installing in surface-mounted housing
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

**Downlight**

Light source	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	1710	26	1.9	ECG	4050737054537	5DN12B77VL336C
LED	4000	> 80	1710	23	1.9	ECG	4050737054544	5DN12B77VL336E
LED	3000	> 80	1710	26	1.9	DALI	4050737054612	5DN12BD7VL356C
LED	4000	> 80	1710	23	1.9	DALI	4050737054629	5DN12BD7VL356E

**Designation**



Order no.  
**OSRAM**

Order no.  
**Siteco**

**Surface-mounted housing**

Housing	Weight	Order no. OSRAM	Order no. Siteco
White	1.1	4050737535265	5DNA7701W
White aluminum (RAL 9006)	1.1	4050737535241	5DNA7701S

- please order surface-mounted housing separately
- please order decorative optical accessories separately if required
- please order mounting accessories according to application separately

**For decorative optical accessories (ring louver, attachment disc, cover disc) and mounting accessories see page 5.24 ff.**

## Lunis 2® Surface decorative accessories

### Ring louver (not shown)

for decorative ceiling illumination | PC, translucent | bayonet catch for fixing to mounting ring of downlight

Designation	Order no. OSRAM	Order no. Siteco
Ring louver, frosted for Lunis 2 Surface	4050737066622	5DNA2300

— only with downlights up to gross luminous flux of max. 2250lm



### Luminous ring

for decorative ceiling illumination | PC, translucent | bayonet catch for fixing to mounting ring of downlight

Designation	Order no. OSRAM	Order no. Siteco
Luminous ring, frosted for Lunis 2 Surface	4050737066608	5DNA220W

— only with downlights up to gross luminous flux of max. 2250lm



### Attachment ring | attachment disc

decorative disc or ring of toughened safety glass; suspended with 3 translucent bolts below the decorative ring | decorative ring of PC, white (similar to RAL 9016)

Designation	Order no. OSRAM	Order no. Siteco
Attachment disc, opal frosted in center (not shown) for Lunis 2 Surface	4050737051710	5DNA350SW

Attachment ring, opal frosted for Lunis 2 Surface	4050737051703	5DNA34S0W
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Cover ring, cobalt blue frosted (not shown) for Lunis 2 Surface	4050737051697	5DNA34B0W
--	---------------	-----------

— only with downlights up to gross luminous flux of max. 2250lm



**Cover disc, IP54, with decorative ring**

decorative disc of toughened safety glass; fitted in a decorative ring | decorative ring of PC, white (similar to RAL 9016) | bayonet catch for fixing to mounting ring of downlight | protection rating: IP54 (on room side with closed ceiling, together with IP54 ceiling spacer adapter)

Designation	Order no. OSRAM	Order no. Siteco
Cover disc, frosted in center (not shown) for Lunis 2 Surface	4050737051758	5DNA410SW
Cover disc, completely frosted (not shown) for Lunis 2 Surface	4050737051772	5DNA41SSW
Cover disc, transparent for Lunis 2 Surface	4050737051734	5DNA4100W

— only with downlights up to gross luminous flux of max. 2250lm



**Cover disc, IP54**

disc of toughened safety glass; fitted in a slender ring | ring of PC, white (similar to RAL 9016) | for flush fitting in downlight | bayonet catch for fixing to mounting ring of downlight | protection rating: IP54 (on room side with closed ceiling, together with IP54 ceiling spacer adapter)

Designation	Order no. OSRAM	Order no. Siteco
Cover disc, frosted in center (not shown) for Lunis 2 Surface	4050737051741	5DNA410S
Cover disc, completely frosted (not shown) for Lunis 2 Surface	4050737051765	5DNA41SS
Cover disc, transparent for Lunis 2 Surface	4050737051727	5DNA4100

— only with downlights up to gross luminous flux of max. 2250lm



**Decorative ring**

PC, coated white, black or white aluminum | bayonet catch for fixing to mounting ring of downlight

Designation	Order no. OSRAM	Order no. Siteco
Decorative ring, white (similar to RAL 9016) for Lunis 2 Surface	4050737061894	5DNA230W
Decorative ring, black (RAL 9005) for Lunis 2 Surface	4050737061832	5DNA230B
Decorative ring, white aluminum (RAL 9006) for Lunis 2 Surface	4050737061849	5DNA230S

## Lunis 2® Surface mounting accessories



### Semi-recessed installation kit

for installation of surface-mounted downlights in suspended ceilings | galvanized sheet steel, visible ring coated

Recess depth max. 215mm | DA = 275mm | ceiling thickness:  $d \leq 40\text{mm}$

Designation	Order no. OSRAM	Order no. Siteco
Ring, pure white (RAL 9010)	4050737606156	5DNA7701H
Ring, white aluminum (RAL 9006)	4050737606170	5DNA7701HS



### IP54 ceiling spacer adapter

IP54 protection rating together with cover disc | for lateral infeed of surface-mounted cables | ceiling distance:  $a = 40\text{mm}$  | sheet steel, coated

Designation	Order no. OSRAM	Order no. Siteco
IP54 ceiling spacer adapter		
Pure white (RAL 9010)	4039806255747	5LR92264BB

— for IP54 protection rating: please order corresponding cover disc separately



### Wire suspension

triple suspension with height adjustment to 1.5m | incl. ceiling mounting element, canopy and connection cable with transparent insulation

Designation	Order no. OSRAM	Order no. Siteco
Canopy, pure white		
Connection cable, 3-core	4039806161444	5LR926800M
Connection cable, 5-core	4039806219589	5LR926800P
Canopy, graphite		
Connection cable, 3-core	4039806161581	5LR926800N
Connection cable, 5-core	4039806221377	5LR926800G



### Pendant suspension

suspension height = 1.0m | pendant:  $D = 13\text{mm}$  | incl. ceiling mounting element, canopy, back plate for luminaire, connection cable and terminals

Designation	Order no. OSRAM	Order no. Siteco
Suspension, pure white (RAL 9010)		
Connection cable, 3-core	4039806255709	5LR92204BS
Connection cable, 5-core	4039806256935	5LR92204BT
Suspension, white aluminum (RAL 9006)		
Connection cable, 3-core	4039806256959	5LR92208BS
Connection cable, 5-core	4039806256973	5LR92208BT

## Lunis 2<sup>®</sup> LED downlights



The symbiosis of lighting technology and quality of light makes Lunis 2<sup>®</sup> LED downlights highly effective lighting tools for functional and creative light. The micro construction size features a 100mm ceiling cutout. Downlights of the Lunis 2<sup>®</sup> family are optimized completely for LED technology. Their efficiency has been continuously improved from generation to generation. LED modules complying to the Zhaga standard enable later upgrades to higher-performance modules.

The recessed downlights convince in application with high diversity and flexibility. Thanks to a wide spectrum of reflectors and optional accessories, the luminaires can be configured precisely according to project and customer needs to solve nearly all lighting tasks in a building, ranging from offices and shops to museums.

The downlights focus on the essentials, the light effect – a twin optical system minimizes glare and supplies brilliant light with outstanding color rendering properties. The Lunis 2<sup>®</sup> downlights blend completely within their architectural context, with only a slender cover frame with harmonious radius and a continuous shadow gap remaining visible.

### Features

- use of high-efficiency LED modules complying with Zhaga standard
- extended guarantee: for LED with service life  $\geq 50,000\text{h}$  → 5 years | with  $< 50,000\text{h}$  → 3 years
- precise optics with reflectors of ultra-pure aluminum
- outstanding color rendering for the perfect display of objects
- optimal visual integration into the ceiling due to slender flat edge
- floating appearance due to shadow gap as a design feature
- flexibility in use with wide variety of beam characteristics and optical accessories
- very simple and quick installation and disassembly via innovative rapid spring catch system





### Lighting technology

Reflector system of ultra-pure aluminum Al99.98% | no light spill to ceiling cavity due to encapsulated reflector system:

- darklight reflector, highly specular; narrow distribution: office; optional with CAT2 ( $L \leq 1000\text{cd/m}^2$ ),  $\text{UGR} \leq 19$
- darklight reflector, highly specular or matt; medium distribution: Office; optional with CAT2 ( $L \leq 1000\text{cd/m}^2$ ),  $\text{UGR} \leq 19$
- faceted darklight reflector; medium distribution: efficiency-optimized
- wallwasher reflector of plastic, vaporized aluminum; asymmetric wide distribution

### Electrics

Luminaire wired ready for connection:

#### Version with non-exchangeable LED module:

separate gearbox with 3-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max.  $2.5\text{mm}^2$ ; with pre-assembled cable with plug connection to downlight,  $l = 0.5\text{m}$

#### Version with exchangeable LED module:

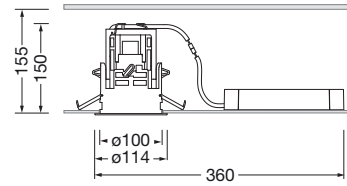
with 3-pole connection terminal | control gear unit integrated in LED module, with plug connection between control gear unit and LED module

### Housing

Modular construction consisting of reflector, mounting ring and separate control gear unit with non-exchangeable LED module version | mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016) | tool-free clamp attachment with quick release system with catches | reflector of plastic, vaporized aluminum or aluminum | reflector is optically separated from the mounting ring by a shadow gap and can be aligned in 4 different positions in the mounting ring: protruding, flush with the fringe, lightly recessed or distinctly recessed | supplementary cover panel (IP54) possible with recessed mounting | all components mounted without tools

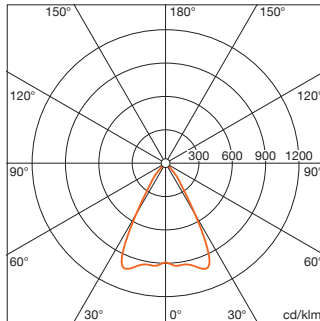


LED



4050737029702  
5DC11K77VL333C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  930 lm



$I_{max}$  1011 cd/km at  $\gamma$  20°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 672
L <sub>70</sub> 569
L <sub>65</sub> 921

UGR 17.3 17.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	2,35	212	178
3	3,52	94	79
4	4,69	53	45
5	5,87	34	28
6	7,04	24	20

No. of luminaires in room		Reflection factors 70/50/20				
$E_m(lx)$	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	2.7	2.7	5.3	5.4	13	14
30 m <sup>2</sup>	3.2	3.7	6.4	7.4	16	19
40 m <sup>2</sup>	4.8	5.2	9.6	10	24	26
50 m <sup>2</sup>	5.8	6.2	12	12	29	31
75 m <sup>2</sup>	7.9	8.9	16	18	39	45
100 m <sup>2</sup>	12	12	23	25	58	62
500 m <sup>2</sup>	57	60	114	121	284	302

Maintenance factor 0.8  $R_h = L_h$

**Lunis 2® micro | for DA = 100mm  
medium distribution (2x 30°), highly specular, cut-off 40° | CAT2, UGR ≤ 19 |  
LED with 1100lm\***

Downlight for ceiling recessing

- darklight reflector, highly specular, medium distribution, cut-off 40°; CAT2 ( $L \leq 1000cd/m^2$ ), UGR ≤ 19
- external CG unit
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight,  $l = 0.6m$
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc (without limiting lamp wattage)
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



Light source	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	>80	930	15.9	0.9	ECG	4050737029702	5DC11K77VL333C
LED	3000	>80	930	15.9	0.8	DALI	4050737030210	5DC11KD7VL353C
LED	4000	>80	930	13.8	0.9	ECG	4050737029719	5DC11K77VL333E
LED	4000	>80	930	13.8	0.9	DALI	4050737030241	5DC11KD7VL353E

— please order decorative optical accessories separately if required

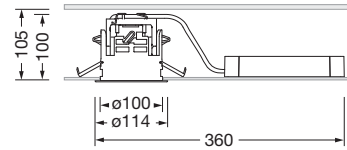
**Accessories (for details see page 5.45 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Decorative ring, white	0.1	4050737062006	5DCA230W
Decorative ring, black	0.1	4050737061726	5DCA230B
Decorative ring, silver	0.1	4050737061771	5DCA230S
Plaster ring	0.1	4050737059808	5DCA2100
Attachment cover, frosted in central area	0.2	4050737051604	5DCA350SW
Attachment ring, frosted	0.1	4050737051598	5DCA34S0W
Attachment ring, blue	0.1	4050737051581	5DCA34B0W
Cover disc, IP54, frosted in central area, with decorative ring, white	0.1	4050737051642	5DCA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.1	4050737051666	5DCA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.1	4050737051628	5DCA4100W
Cover disc, IP54, frosted in central area	0.1	4050737051635	5DCA410S
Cover disc, IP54, frosted	0.1	4050737051659	5DCA41SS
Cover disc, IP54, transparent	0.1	4050737051611	5DCA4100
Plaster ring	0.1	4050737051673	5DCA7100
Concrete casting box	0.9	4050737051680	5DCA7300

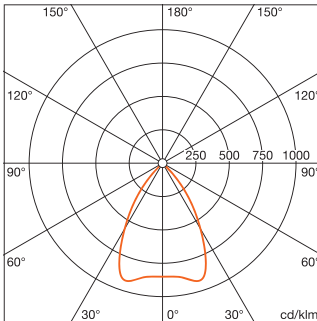
\* the specified luminous flux value corresponds to the gross luminous flux of the LED



LED



4050737587875  
5DC11K77VL339C  
1 x LED 3000K / CRI >= 80    ϕN 3760 lm



**Lunis 2® micro | for DA = 100mm  
medium distribution (2x 30°), highly specular, cut-off 40° | LED with 4500lm\***

Downlight for ceiling recessing  
 — darklight reflector, highly specular, medium distribution, cut-off 40°  
 — external CG unit; LED heat sink with active cooling

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m

The appearance of the downlight can be varied individually by using decorative optical accessories

- cover disc | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux

I<sub>max</sub> 913 cd/klm at γ 15°

Luminance values (cd/m<sup>2</sup>)

C 0/180	
L <sub>80</sub>	322
L <sub>70</sub>	354
L <sub>65</sub>	428

UGR 24.3    24.3  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	ϕ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	2.62	800	626
3	3.93	355	278
4	5.24	200	156
5	6.54	128	100
6	7.85	89	70

No. of luminaires in room		Reflection factors 70/50/20					
Em(lx)		100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	
20 m <sup>2</sup>	0.6	0.7	1.3	1.3	3.2	3.3	
30 m <sup>2</sup>	0.9	1.0	1.8	1.9	4.5	4.8	
40 m <sup>2</sup>	1.2	1.3	2.4	2.6	6.0	6.5	
50 m <sup>2</sup>	1.5	1.6	2.9	3.1	7.3	7.8	
75 m <sup>2</sup>	2.2	2.3	4.4	4.6	11	11	
100 m <sup>2</sup>	2.9	3.1	5.8	6.2	15	15	
500 m <sup>2</sup>	14	15	29	30	72	74	

Maintenance factor 0.8    Rh = Lh



Light source	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG L LCG	Order no. OSRAM	Order no. Siteco
LED	3000	>80	3760	50	0.9	ECG	4050737587875	5DC11K77VL339C
LED	3000	>80	3760	50	0.9	DALI	4050737587929	5DC11KD7VL359C
LED	4000	>80	3830	46	0.9	ECG	4050737587899	5DC11K77VL339E
LED	4000	>80	3830	46	0.9	DALI	4050737587936	5DC11KD7VL359E

— please order decorative optical accessories separately if required

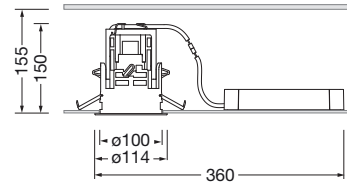
**Accessories (for details see page 5.45 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Decorative ring, white	0.1	4050737062006	5DCA230W
Decorative ring, black	0.1	4050737061726	5DCA230B
Decorative ring, silver	0.1	4050737061771	5DCA230S
Plaster ring	0.1	4050737059808	5DCA2100
Attachment cover, frosted in central area	0.2	4050737051604	5DCA350SW
Attachment ring, frosted	0.1	4050737051598	5DCA34S0W
Attachment ring, blue	0.1	4050737051581	5DCA34B0W
Plaster ring	0.1	4050737051673	5DCA7100
Concrete casting box	0.9	4050737051680	5DCA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED.

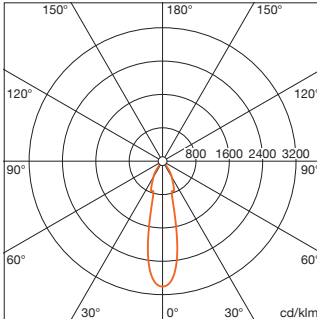


LED



4050737029399  
5DC11A77VL333C

1 x LED 3000K / CRI ≥ 80  $\phi_{N}$  905 lm



$I_{max}$  3006 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 216
L <sub>70</sub> 76
L <sub>65</sub> 109

UGR 16.2 16.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	0.89	680	550
3	1.33	302	245
4	1.77	170	138
5	2.22	109	87
6	2.66	76	61

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	2.1	2.2	4.2	4.4	10	11
30 m <sup>2</sup>	4.5	4.7	8.9	9.5	22	24
40 m <sup>2</sup>	5.9	6.0	12	12	29	30
50 m <sup>2</sup>	7.2	7.8	14	16	36	39
75 m <sup>2</sup>	11	11	22	23	54	56
100 m <sup>2</sup>	14	15	28	29	71	74
500 m <sup>2</sup>	70	69	140	137	351	343

Maintenance factor 0.8  $R_h = L_h$

**Lunis 2® micro | for DA = 100mm narrow distribution (2x 12°), highly specular, cut-off 40° | LED with 1100lm\***

Downlight for ceiling recessing

- darklight reflector, highly specular, narrow distribution, cut-off 40°
- external CG unit
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m
  - The appearance of the downlight can be varied individually by using decorative optical accessories
  - cover | attachment ring | attachment disc
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



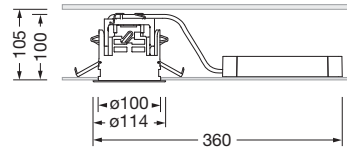
Light source	K	Ra	lm	W SYSTEM	Kg	ECG L LCG	Order no.	Order no.
							OSRAM	Siteco
LED	3000	>80	905	15.9	0.9	ECG	4050737029399	5DC11A77VL333C
LED	3000	>80	905	15.9	0.9	DALI	4050737030753	5DC11AD7VL353C
LED	4000	>80	905	13.8	0.9	ECG	4050737030111	5DC11A77VL333E
LED	4000	>80	905	13.8	0.9	DALI	4050737030777	5DC11AD7VL353E

— please order decorative optical accessories separately if required

**Accessories (for details see page 5.45 ff.)**

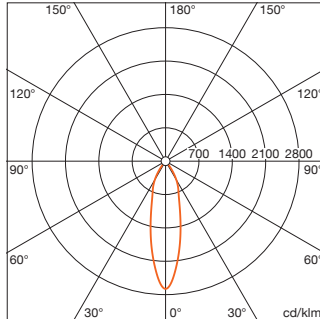
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Decorative ring, white	0.1	4050737062006	5DCA230W
Decorative ring, black	0.1	4050737061726	5DCA230B
Decorative ring, silver	0.1	4050737061771	5DCA230S
Plaster ring	0.1	4050737059808	5DCA2100
Attachment cover, frosted in central area	0.2	4050737051604	5DCA350SW
Attachment ring, frosted	0.1	4050737051598	5DCA34S0W
Attachment ring, blue	0.1	4050737051581	5DCA34B0W
Cover disc, IP54, frosted in central area, with decorative ring, white	0.1	4050737051642	5DCA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.1	4050737051666	5DCA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.1	4050737051628	5DCA4100W
Cover disc, IP54, frosted in central area	0.1	4050737051635	5DCA410S
Cover disc, IP54, frosted	0.1	4050737051659	5DCA41SS
Cover disc, IP54, transparent	0.1	4050737051611	5DCA4100
Plaster ring	0.1	4050737051673	5DCA7100
Concrete casting box	0.9	4050737051680	5DCA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



4050737585345  
5DC11A77VL339C

1 x LED 3000K / CRI >= 80 φN 3500 lm



**Lunis 2® micro | for DA = 100mm  
narrow distribution (2x 12°), highly specular, cut-off 40° | LED with 4500lm\***

Downlight for ceiling recessing

- darklight reflector, highly specular, narrow distribution, cut-off 40°
- external CG unit; LED heat sink with active cooling
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m

The appearance of the downlight can be varied individually by using decorative optical accessories

- cover disc | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux

I<sub>max</sub> 2680 cd/klm at γ 0°

Luminance values (cd/m²)

C 0/180	
L <sub>80</sub>	510
L <sub>70</sub>	585
L <sub>65</sub>	700

UGR 20.4 20.4  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	0.96	2345	1773
3	1.44	1042	788
4	1.92	586	443
5	2.40	375	284
6	2.88	261	197

No. of luminaires in room		Reflection factors 70/50/20					
Em(lx)		100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	
20 m²	0.6	0.6	1.2	1.2	3.0	3.1	
30 m²	1.1	1.2	2.3	2.4	5.6	5.9	
40 m²	1.4	1.4	2.9	2.8	7.2	7.1	
50 m²	1.8	1.8	3.7	3.6	9.2	8.9	
75 m²	2.7	2.8	5.5	5.7	14	14	
100 m²	3.6	3.5	7.1	6.9	18	17	
500 m²	17	17	34	33	86	83	

Maintenance factor 0.8 Rh = Lh



Light source	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG LCG	Order no. OSRAM	Order no. Siteco
LED	3000	>80	3500	50	0.9	ECG	4050737585345	5DC11A77VL339C
LED	3000	>80	3500	50	0.9	DALI	4050737585383	5DC11AD7VL359C
LED	4000	>80	3560	46	0.9	ECG	4050737585369	5DC11A77VL339E
LED	4000	>80	3560	46	0.9	DALI	4050737585406	5DC11AD7VL359E

- please order decorative optical accessories separately if required

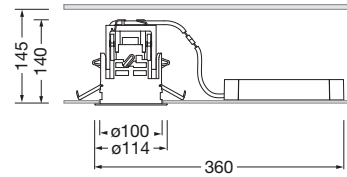
**Accessories (for details see page 5.45 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Decorative ring, white	0.1	4050737062006	5DCA230W
Decorative ring, black	0.1	4050737061726	5DCA230B
Decorative ring, silver	0.1	4050737061771	5DCA230S
Plaster ring	0.1	4050737059808	5DCA2100
Attachment cover, frosted in central area	0.2	4050737051604	5DCA350SW
Attachment ring, frosted	0.1	4050737051598	5DCA34S0W
Attachment ring, blue	0.1	4050737051581	5DCA34B0W
Plaster ring	0.1	4050737051673	5DCA7100
Concrete casting box	0.9	4050737051680	5DCA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED.

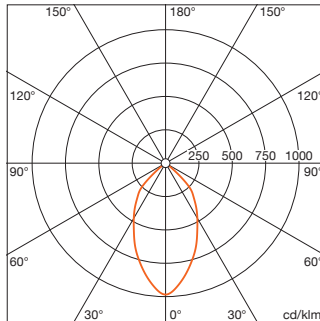


LED



4050737030135  
5DC11B77VL333C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  960 lm



$I_{max}$  985 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180	
L <sub>80</sub>	124
L <sub>70</sub>	93
L <sub>65</sub>	139

UGR 22.1 22.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	2.23	236	160
3	3.34	105	71
4	4.45	59	40
5	5.57	38	26
6	6.68	26	18

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	2.4	2.7	4.8	5.3	12	13
30 m <sup>2</sup>	4.0	4.2	7.9	8.4	20	21
40 m <sup>2</sup>	5.0	5.4	10	11	25	27
50 m <sup>2</sup>	6.2	6.6	12	13	31	33
75 m <sup>2</sup>	9.4	9.7	19	19	47	49
100 m <sup>2</sup>	12	13	24	25	60	63
500 m <sup>2</sup>	58	60	117	119	292	298

Maintenance factor 0.8  $R_h = L_h$

**Lunis 2® micro | for DA = 100mm wide distribution (2x 35°), faceted, cut-off 35° | LED with 1100lm\***

- Downlight for ceiling recessing
- faceted reflector, medium distribution, cut-off 35°
- external CG unit

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m
  - The appearance of the downlight can be varied individually by using decorative optical accessories
  - cover | attachment ring | attachment disc
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux



Light source	K	Ra	lm	W SYSTEM	Kg	ECG L LCG	Order no.	Order no.
							OSRAM	Siteco
LED	3000	>80	960	15.9	0.9	ECG	4050737030135	5DC11B77VL333C
LED	3000	>80	960	15.9	0.9	DALI	4050737030166	5DC11BD7VL353C
LED	4000	>80	935	13.8	0.9	ECG	4050737033242	5DC11B77VL333E
LED	4000	>80	935	13.8	0.9	DALI	4050737030173	5DC11BD7VL353E

— please order decorative optical accessories separately if required

**Accessories (for details see page 5.45 ff.)**

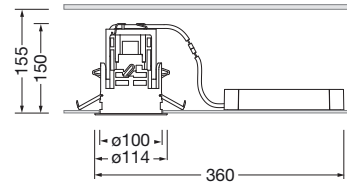
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Decorative ring, white	0.1	4050737062006	5DCA230W
Decorative ring, black	0.1	4050737061726	5DCA230B
Decorative ring, silver	0.1	4050737061771	5DCA230S
Plaster ring	0.1	4050737059808	5DCA2100
Attachment cover, frosted in central area	0.2	4050737051604	5DCA350SW
Attachment ring, frosted	0.1	4050737051598	5DCA34S0W
Attachment ring, blue	0.1	4050737051581	5DCA34B0W
Cover disc, IP54, frosted in central area, with decorative ring, white	0.1	4050737051642	5DCA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.1	4050737051666	5DCA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.1	4050737051628	5DCA4100W
Cover disc, IP54, frosted in central area	0.1	4050737051635	5DCA410S
Cover disc, IP54, frosted	0.1	4050737051659	5DCA41SS
Cover disc, IP54, transparent	0.1	4050737051611	5DCA4100
Plaster ring	0.1	4050737051673	5DCA7100
Concrete casting box	0.9	4050737051680	5DCA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



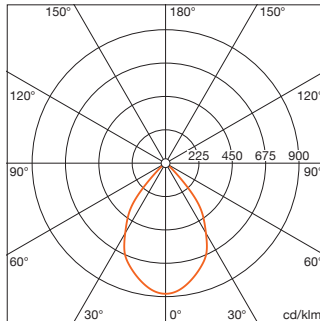


LED



4050737054407  
5DC12K77VL333C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  730 lm



**Lunis 2® micro | for DA = 100mm  
wide distribution (2x 35°), matt, cut-off 35° | LED with 1100lm\***

- Downlight for ceiling recessing
- darklight reflector, matt, medium distribution, cut-off 35°
- external CG unit

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m
  - The appearance of the downlight can be varied individually by using decorative optical accessories
  - cover | attachment ring | attachment disc
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux

$I_{max}$  881 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 273
L <sub>70</sub> 562
L <sub>65</sub> 878

UGR 20 20  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	2.82	161	108
3	4.23	71	48
4	5.64	40	27
5	7.05	26	17
6	8.47	18	12

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	3.2	3.4	6.3	6.8	16	17
30 m²	5.0	5.3	10.0	11	25	27
40 m²	6.5	7.0	13	14	33	35
50 m²	8.0	8.4	16	17	40	42
75 m²	12	12	24	25	60	62
100 m²	16	16	32	33	79	82
500 m²	77	78	153	155	384	388

Maintenance factor 0.8  $R_h = L_h$



Light source	K	Ra	lm	W SYSTEM	Kg	ECG L LCG	Order no.	Order no.
							OSRAM	Siteco
LED	3000	>80	730	20	0.9	ECG	4050737054407	5DC12K77VL333C
LED	3000	>80	730	20	0.9	DALI	4050737054476	5DC12KD7VL353C
LED	4000	>80	730	19	0.9	ECG	4050737054421	5DC12K77VL333E
LED	4000	>80	730	19	0.9	DALI	4050737054483	5DC12KD7VL353E

— please order decorative optical accessories separately if required

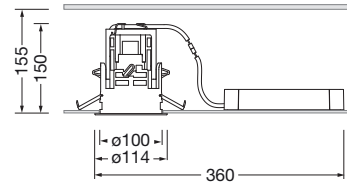
**Accessories (for details see page 5.45 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Decorative ring, white	0.1	4050737062006	5DCA230W
Decorative ring, black	0.1	4050737061726	5DCA230B
Decorative ring, silver	0.1	4050737061771	5DCA230S
Plaster ring	0.1	4050737059808	5DCA2100
Attachment cover, frosted in central area	0.2	4050737051604	5DCA350SW
Attachment ring, frosted	0.1	4050737051598	5DCA34S0W
Attachment ring, blue	0.1	4050737051581	5DCA34B0W
Cover disc, IP54, frosted in central area, with decorative ring, white	0.1	4050737051642	5DCA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.1	4050737051666	5DCA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.1	4050737051628	5DCA4100W
Cover disc, IP54, frosted in central area	0.1	4050737051635	5DCA410S
Cover disc, IP54, frosted	0.1	4050737051659	5DCA41SS
Cover disc, IP54, transparent	0.1	4050737051611	5DCA4100
Plaster ring	0.1	4050737051673	5DCA7100
Concrete casting box	0.9	4050737051680	5DCA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

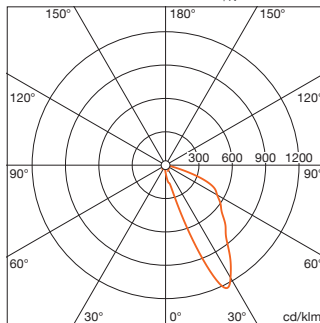


LED



4050737045108  
5DC11J77VL335H

1 x LED 3000K / CRI ≥ 90  $\phi_N$  840 lm



$I_{max}$  1199 cd/klm at  $\gamma$  25°

**Lunis 2® micro | for DA = 100mm  
wallwasher, asymmetric wide distribution, highly specular | LED with 1800lm\***

Downlight for ceiling recessing

- highly specular wallwasher reflector, asymmetric wide distribution
- external CG unit

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: II

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight,  $l = 0.6m$

The appearance of the downlight can be varied individually by using decorative optical accessories

• cover | attachment ring | attachment disc

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux



Light source	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG L.L.C.G.	Order no. OSRAM	Order no. Siteco
LED	3000	>90	840	25	0.9	ECG	4050737045108	5DC11J77VL335H
LED	3000	>90	840	25	0.9	DALI	4050737045139	5DC11JD7VL355H
LED	4000	>90	930	25	0.9	ECG	4050737049632	5DC11J77VL335K
LED	4000	>90	930	25	0.9	DALI	4050737045146	5DC11JD7VL355K

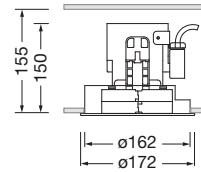
— please order decorative optical accessories separately if required

**Accessories (for details see page 5.45 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Decorative ring, white	0.1	4050737062006	5DCA230W
Decorative ring, black	0.1	4050737061726	5DCA230B
Decorative ring, silver	0.1	4050737061771	5DCA230S
Plaster ring	0.1	4050737059808	5DCA2100
Cover disc, IP54, transparent, with decorative ring, white	0.1	4050737051628	5DCA4100W
Cover disc, IP54, transparent	0.1	4050737051611	5DCA4100
Plaster ring	0.1	4050737051673	5DCA7100
Concrete casting box	0.9	4050737051680	5DCA7300

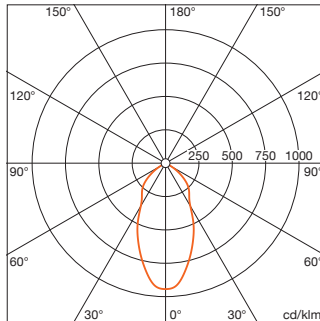


LED



4050737032931  
5DN11K78VL3W3C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  980 lm



**Lunis 2® mini | with replaceable LED module | DA = 162mm  
medium distribution (2x 25°), highly specular, cut-off 25° | LED with 1100lm\***

Downlight for ceiling recessing  
 - darklight reflector, highly specular, medium distribution, cut-off 25°  
 - with integrated ECG

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 25,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

• separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m

The appearance of the downlight can be varied individually by using decorative optical accessories

• cover disc | attachment ring | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux

$I_{max}$  943 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180	
L <sub>80</sub>	21
L <sub>70</sub>	59
L <sub>65</sub>	1230

UGR 20.3 20.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H



Light source



K

R<sub>a</sub>

lm

W SYSTEM

kg

ECG-LLCG

Order no.  
**OSRAM**

Order no.  
**Siteco**

LED	PHJ65-II	3000	>80	980	16	1.5	ECG	4050737032931	5DN11K78VL3W3C
LED	PHJ65-II	3000	>80	980	15	1.5	ECG	4050737032955	5DN11K78VL3W3E

- please order decorative optical accessories separately if required

H(m)	$\phi$ (m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	1.95	231	165
3	2.93	103	73
4	3.90	58	41
5	4.88	37	26
6	5.85	26	18

**Accessories (for details see page 5.45 ff.)**

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m²	2.5	2.8	5.0	5.6	12	14
30 m²	4.0	4.2	8.0	8.5	20	21
40 m²	5.1	5.5	10	11	26	27
50 m²	6.3	6.6	13	13	32	33
75 m²	9.4	9.7	19	19	47	48
100 m²	12	13	24	25	61	63
500 m²	58	59	116	117	289	294

Maintenance factor 0.8

Rh = Lh

Designation

Wt. (kg)

Order no.

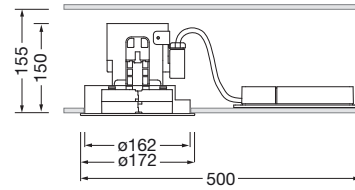
Order no.

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34S0W
Attachment ring, blue	0.2	4050737051697	5DNA34B0W
Cover disc, IP54, frosted in central area, with decorative ring, white	0.2	4050737051758	5DNA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.2	4050737051772	5DNA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.2	4050737051734	5DNA4100W
Cover disc, IP54, frosted in central area	0.2	4050737051741	5DNA410S
Cover disc, IP54, frosted	0.2	4050737051765	5DNA41SS
Cover disc, IP54, transparent	0.2	4050737051727	5DNA4100
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

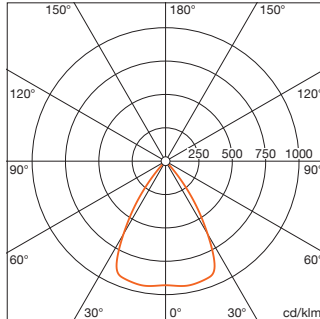


LED



4050737029726  
5DN11K77VL336C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1500 lm



$I_{max}$  947 cd/klm at  $\gamma$  10°

Luminance values (cd/m²)

C 0/180	
L <sub>80</sub>	0
L <sub>70</sub>	0
L <sub>65</sub>	56
UGR	16.5 16.5
X 4H Y 8H $\rho$ 70/50/20 S 0.25H	

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	2.61	349	271
3	3.91	155	120
4	5.22	87	68
5	6.52	56	43
6	7.82	39	30

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	1.6	1.6	3.2	3.2	8.0	7.9
30 m²	2.1	2.4	4.2	4.9	10	12
40 m²	3.0	3.2	6.1	6.5	15	16
50 m²	3.7	3.9	7.4	7.8	18	19
75 m²	5.1	5.9	10	12	26	29
100 m²	7.3	7.7	15	15	37	39
500 m²	36	37	72	75	181	187

Maintenance factor 0.8  $R_h = L_h$

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

**Lunis 2® mini | for DA = 162mm medium distribution (2x 30°), highly specular, cut-off 50° | CAT2, UGR ≤ 19 | LED with 2000lm\***

Downlight for ceiling recessing

- darklight reflector, highly specular, medium distribution, cut-off 50°; CAT2 ( $L \leq 1000cd/m^2$ ), UGR ≤ 19
- external CG unit

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight,  $l = 0.6m$

The appearance of the downlight can be varied individually by using decorative optical accessories

- cover disc | attachment ring | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux



**Light source**

	K	R <sub>a</sub>	lm	W SYSTEM	KG	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	>80	1500	22	1.6	ECG	4050737029726	5DN11K77VL336C
LED	3000	>80	1500	22	1.6	DALI	4050737030302	5DN11KD7VL356C
LED	4000	>80	1500	20	1.3	ECG	4050737029733	5DN11K77VL336E
LED	4000	>80	1500	20	1.3	DALI	4050737030319	5DN11KD7VL356E

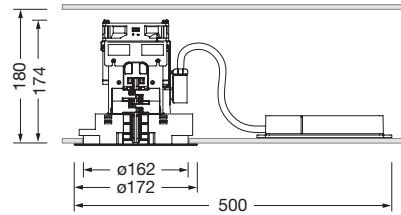
— please order decorative optical accessories separately if required

**Accessories (for details see page 5.45 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34SOW
Attachment ring, blue	0.2	4050737051697	5DNA34BOW
Cover disc, IP54, frosted in central area, with decorative ring, white	0.2	4050737051758	5DNA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.2	4050737051772	5DNA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.2	4050737051734	5DNA4100W
Cover disc, IP54, frosted in central area	0.2	4050737051741	5DNA410S
Cover disc, IP54, frosted	0.2	4050737051765	5DNA41SS
Cover disc, IP54, transparent	0.2	4050737051727	5DNA4100
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

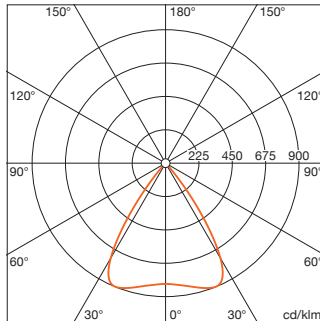


LED



4050737588032  
5DN11K77VL339C

1 x LED 3000K / CRI ≥ 80  $\Phi_N$  3670 lm



**Lunis 2® mini | for DA = 162mm**  
**wide distribution (2x 35°), highly specular, cut-off 40° | LED with 4500lm\***

Downlight for ceiling recessing

- darklight reflector, highly specular, wide distribution, cut-off 40°
- external CG unit; LED heat sink with active cooling
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m

The appearance of the downlight can be varied individually by using decorative optical accessories

- cover disc | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux

$I_{max}$  895 cd/klm at  $\gamma$  20°

Luminance values (cd/m²)

C 0/180	
L80	64
L70	60
L65	135

UGR 20.2 20.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	2.77	747	605
3	4.15	332	269
4	5.54	187	151
5	6.92	120	97
6	8.31	83	67

No. of luminaires in room

Reflection factors 70/50/20

$E_m(lx)$	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m²	0.7	0.6	1.4	1.3	3.4	3.2
30 m²	0.8	1.0	1.7	2.1	4.2	5.2
40 m²	1.2	1.3	2.5	2.7	6.2	6.6
50 m²	1.5	1.6	3.0	3.2	7.4	8.1
75 m²	2.1	2.5	4.1	5.0	10	12
100 m²	3.0	3.2	5.9	6.3	15	16
500 m²	15	15	30	31	74	77

Maintenance factor 0.8

$R_h = L_h$



Light source

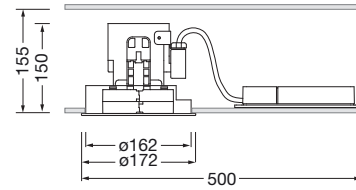
	K	R <sub>a</sub>	lm	W SYSTEM	kg	EGG LLLCG	OSRAM order no.	Order no. Siteco
LED	3000	>80	3670	51	1.6	ECG	4050737588032	5DN11K77VL339C
LED	3000	>80	3670	51	1.6	DALI	4050737588070	5DN11KD7VL359C
LED	4000	>80	3700	46	1.3	ECG	4050737588063	5DN11K77VL339E
LED	4000	>80	3700	46	1.3	DALI	4050737588094	5DN11KD7VL359E

- please order decorative optical accessories separately if required

**Accessories (for details see page 5.45 ff.)**

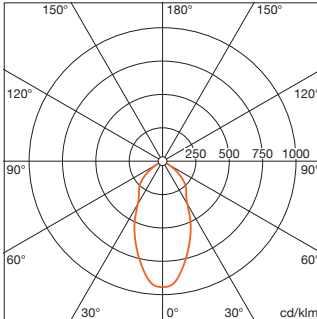
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34SOW
Attachment ring, blue	0.2	4050737051697	5DNA34BOW
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



4050737032856  
5DN11B77VL336C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1810 lm



**Lunis 2® mini | for DA = 162mm wide distribution (2x 35°), highly specular, cut-off 25° | LED with 2000lm\***

- Downlight for ceiling recessing
- darklight reflector, highly specular, medium distribution, cut-off 25°
- external CG unit
- mounting ring with visible fringe of

- UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux

Imax 943 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180	
L80	38
L70	109
L65	2273
UGR	22.4
X 4H	Y 8H
$\rho$ 70/50/20 S 0.25H	



**Light source**

	K	Ra	lm	W SYSTEM	kg	ECG LLCC	Order no. OSRAM	Order no. Siteco
LED	3000	>80	1810	26	1.9	ECG	4050737032856	5DN11B77VL336C
LED	3000	>80	1810	26	1.9	DALI	4050737032894	5DN11BD7VL356C
LED	4000	>80	1810	23	1.9	ECG	4050737032870	5DN11B77VL336E
LED	4000	>80	1810	23	1.9	DALI	4050737032924	5DN11BD7VL356E

— please order decorative optical accessories separately if required

H(m)	$\phi$ (m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	1.95	427	305
3	2.93	190	135
4	3.90	107	76
5	4.88	68	49
6	5.85	47	34

**Accessories (for details see page 5.45 ff.)**

No. of luminaires in room		Reflection factors 70/50/20					
Em(lx)		100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	
20 m²	1.3	1.5	2.7	3.1	6.7	7.6	
30 m²	2.2	2.3	4.4	4.6	11	11	
40 m²	2.8	3.0	5.6	5.9	14	15	
50 m²	3.4	3.6	6.9	7.2	17	18	
75 m²	5.1	5.2	10	10	25	26	
100 m²	6.6	6.8	13	14	33	34	
500 m²	31	32	63	64	157	159	

Maintenance factor 0.8 Rh = Lh

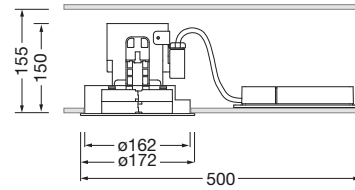
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34SOW
Attachment ring, blue	0.2	4050737051697	5DNA34BOW
Cover disc, IP54, frosted in central area, with decorative ring, white	0.2	4050737051758	5DNA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.2	4050737051772	5DNA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.2	4050737051734	5DNA4100W
Cover disc, IP54, frosted in central area	0.2	4050737051741	5DNA410S
Cover disc, IP54, frosted	0.2	4050737051765	5DNA41SS
Cover disc, IP54, transparent	0.2	4050737051727	5DNA4100
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



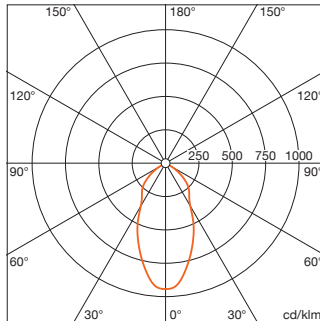


LED



4050737049717  
5DN11B77VL337C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  2720 lm



**Lunis 2® mini | DA = 162mm  
medium distribution (2x 25°), highly specular, cut-off 40° | LED with 3000lm\***

Downlight for ceiling recessing  
 — darklight reflector, highly specular, medium distribution, cut-off 40°  
 — external CG unit

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

• separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m

The appearance of the downlight can be varied individually by using decorative optical accessories

• cover disc | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux

$I_{max}$  943 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180	
L <sub>80</sub>	58
L <sub>70</sub>	163
L <sub>65</sub>	3415

UGR 23.8 23.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	1.95	642	458
3	2.93	285	204
4	3.90	160	115
5	4.88	103	73
6	5.85	71	51

No. of luminaires in room

Reflection factors 70/50/20

$E_m(lx)$	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m²	0.9	1.0	1.8	2.0	4.5	5.1
30 m²	1.4	1.5	2.9	3.1	7.2	7.7
40 m²	1.9	2.0	3.7	4.0	9.3	9.9
50 m²	2.3	2.4	4.6	4.8	11	12
75 m²	3.4	3.5	6.8	7.0	17	17
100 m²	4.4	4.6	8.8	9.1	22	23
500 m²	21	21	42	42	104	106

Maintenance factor 0.8

Rh = Lh



Light source

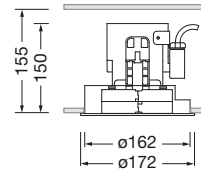
	K	Ra	lm	W SYSTEM	KG	ECG LLCG	OSRAM order no.	Order no. Siteco
LED	3000	>80	2720	39	1.8	ECG	4050737049717	5DN11B77VL337C
LED	4000	>80	2720	39	1.8	DALI	4050737049724	5DN11BD7VL357C
LED	3000	>80	2720	36	2.0	ECG	4050737041001	5DN11B77VL337E
LED	4000	>80	2720	36	2.0	DALI	4050737041025	5DN11BD7VL357E

— please order decorative optical accessories separately if required

**Accessories (for details see page 5.45 ff.)**

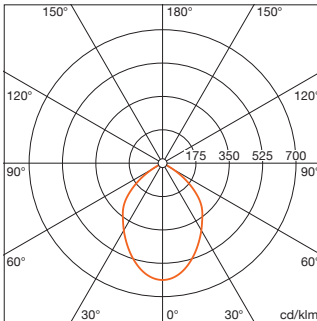
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34SOW
Attachment ring, blue	0.2	4050737051697	5DNA34BOW
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



4050737054773  
5DN12K78VL3W3C

1 x LED 3000K / CRI ≥ 80  $\phi_{N}$  880 lm



**Lunis 2® mini | with replaceable LED module | DA = 162mm | wide distribution (2x 35°), matt, cut-off 25° | LED with 1100lm\***

Downlight for ceiling recessing

- matt reflector, medium distribution, cut-off 25°; CAT2 ( $L \leq 1000\text{cd/m}^2$ ); UGR  $\leq 19$
- with integrated ECG
- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight,  $l = 0.6\text{m}$

The appearance of the downlight can be varied individually by using decorative optical accessories

- cover disc | attachment ring | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux

$I_{\text{max}}$  613 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180

L<sub>80</sub> 645

L<sub>70</sub> 1049

L<sub>65</sub> 2348

UGR 21 21

X 4H Y 8H  $\rho$  70/50/20 S 0.25H



Light source



Order no.

**OSRAM**

Order no.

**Siteco**

LED	PHJ65-II	3000	>80	878	16	1.5	ECG	4050737054773	5DN12K78VL3W3C
LED	PHJ65-II	4000	>80	878	15	1.4	ECG	4050737054780	5DN12K78VL3W3E

- please order decorative optical accessories separately if required

H(m)	$\phi$ (m)	$E_{\text{max}}$ (lx)	$E_{\text{m}}$ (lx)
2	3.59	135	80
3	5.38	60	36
4	7.18	34	20
5	8.97	22	13
6	10.77	15	9

**Accessories (for details see page 5.45 ff.)**

No. of luminaires in room

Reflection factors 70/50/20

$E_{\text{m}}$ (lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	2.9	3.3	5.7	6.6	14	16
30 m <sup>2</sup>	4.5	4.9	9.0	9.9	23	25
40 m <sup>2</sup>	5.8	6.3	12	13	29	32
50 m <sup>2</sup>	7.1	7.6	14	15	35	38
75 m <sup>2</sup>	11	11	21	22	53	55
100 m <sup>2</sup>	14	14	27	29	68	72
500 m <sup>2</sup>	64	66	129	132	322	329

Maintenance factor 0.8

$R_{\text{h}} = L_{\text{h}}$

Designation

Wt. (kg)

Order no.

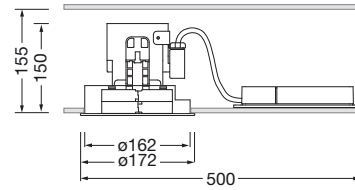
Order no.

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34S0W
Attachment ring, blue	0.2	4050737051697	5DNA34B0W
Cover disc, IP54, frosted in central area, with decorative ring, white	0.2	4050737051758	5DNA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.2	4050737051772	5DNA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.2	4050737051734	5DNA4100W
Cover disc, IP54, frosted in central area	0.2	4050737051741	5DNA410S
Cover disc, IP54, frosted	0.2	4050737051765	5DNA41SS
Cover disc, IP54, transparent	0.2	4050737051727	5DNA4100
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

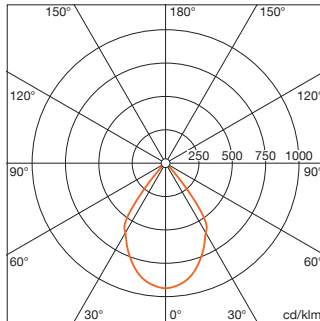


LED



4050737054698  
5DN12K77VL336C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1210 lm



**Lunis 2® mini | DA = 162mm  
medium distribution (2x 30°), matt, cut-off 50° | CAT2, UGR ≤ 19 | LED with 2000lm\***

- Downlight for ceiling recessing
- matt reflector, medium distribution; cut-off 50°
- external CG unit
- mounting ring with visible fringe of

- UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver
- Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux

Imax 937 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180	
L80	334
L70	559
L65	808
UGR	17.6
X 4H Y 8H $\rho$ 70/50/20 S 0.25H	17.6



Light source	K	Ra	lm	W SYSTEM	kg	ECG L.L.C.G.	OSRAM order no.	Order no. Siteco
LED	3000	>80	1210	22	1.3	ECG	4050737054698	5DN12K77VL336C
LED	3000	>80	1210	22	1.3	DALI	4050737054803	5DN12KD7VL356C
LED	4000	>80	1210	20	1.5	ECG	4050737054704	5DN12K77VL336E
LED	4000	>80	1210	20	1.5	DALI	4050737054827	5DN12KD7VL356E

— please order decorative optical accessories separately if required

H(m)	$\phi$ (m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	2.87	283	190
3	4.31	126	85
4	5.75	71	48
5	7.19	45	30
6	8.62	31	21

**Accessories (for details see page 5.45 ff.)**

No. of luminaires in room		Reflection factors 70/50/20					
Em(lx)		100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	
20 m²	1.9	2.0	3.8	3.9	9.6	9.8	
30 m²	3.0	3.3	6.0	6.5	15	16	
40 m²	4.0	4.1	7.9	8.2	20	21	
50 m²	4.8	5.0	9.6	10	24	25	
75 m²	7.3	7.7	15	15	37	38	
100 m²	9.5	9.7	19	19	48	49	
500 m²	47	46	93	93	233	232	

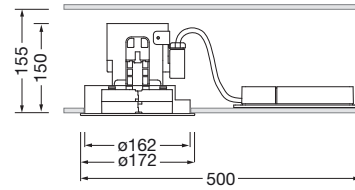
Maintenance factor 0.8 Rh = Lh

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34S0W
Attachment ring, blue	0.2	4050737051697	5DNA34B0W
Cover disc, IP54, frosted in central area, with decorative ring, white	0.2	4050737051758	5DNA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.2	4050737051772	5DNA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.2	4050737051734	5DNA4100W
Cover disc, IP54, frosted in central area	0.2	4050737051741	5DNA410S
Cover disc, IP54, frosted	0.2	4050737051765	5DNA41SS
Cover disc, IP54, transparent	0.2	4050737051727	5DNA4100
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

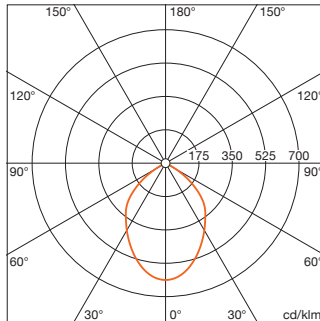


LED



4050737054537  
5DN12B77VL336C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1710 lm



**Lunis 2® mini | DA = 162mm  
wide distribution (2x 35°), matt, cut-off 25° | LED with 2000lm\***

- Downlight for ceiling recessing
- matt reflector, medium distribution; cut-off 25°
- external CG unit
- mounting ring with visible fringe of

- UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m
- The appearance of the downlight can be varied individually by using decorative optical accessories
- cover disc | attachment ring | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. We utilize this to reduce power consumption of the downlight with identical luminous flux

Imax 613 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180	
L80	1255
L70	2038
L65	4563
UGR 23.3      23.3	
X 4H	Y 8H
$\rho$ 70/50/20    S 0.25H	



Light source	K	Ra	lm	W SYSTEM	Kg	ECG LCCG	Order no.	Order no.
							OSRAM	Siteco
LED	3000	>80	1710	26	1.9	ECG	4050737054537	5DN12B77VL336C
LED	3000	>80	1710	26	1.9	DALI	4050737054612	5DN12BD7VL356C
LED	4000	>80	1710	23	1.9	ECG	4050737054544	5DN12B77VL336E
LED	4000	>80	1710	23	1.9	DALI	4050737054629	5DN12BD7VL356E

— please order decorative optical accessories separately if required

H(m)	$\phi$ (m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	3.59	262	156
3	5.38	116	69
4	7.18	65	39
5	8.97	42	25
6	10.77	29	17

**Accessories (for details see page 5.45 ff.)**

No. of luminaires in room		Reflection factors 70/50/20					
		100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	
20 m²	1.5	1.7	3.0	3.4	7.4	8.4	
30 m²	2.3	2.5	4.7	5.1	12	13	
40 m²	3.0	3.3	6.0	6.5	15	16	
50 m²	3.6	3.9	7.3	7.8	18	20	
75 m²	5.4	5.7	11	11	27	28	
100 m²	7.0	7.4	14	15	35	37	
500 m²	33	34	66	68	166	170	

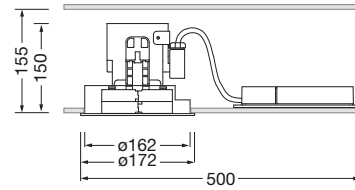
Maintenance factor 0.8      Rh = Lh

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34S0W
Attachment ring, blue	0.2	4050737051697	5DNA34B0W
Cover disc, IP54, frosted in central area, with decorative ring, white	0.2	4050737051758	5DNA410SW
Cover disc, IP54, frosted, with decorative ring, white	0.2	4050737051772	5DNA41SSW
Cover disc, IP54, transparent, with decorative ring, white	0.2	4050737051734	5DNA4100W
Cover disc, IP54, frosted in central area	0.2	4050737051741	5DNA410S
Cover disc, IP54, frosted	0.2	4050737051765	5DNA41SS
Cover disc, IP54, transparent	0.2	4050737051727	5DNA4100
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

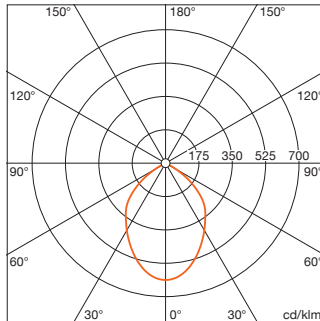


LED



4050737054568  
5DN12B77VL337C

1 x LED 3000K / CRI ≥ 80  $\phi_N$  2570 lm



$I_{max}$  613 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 1886
L <sub>70</sub> 3063
L <sub>65</sub> 6857

UGR 24.7 24.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	3.59	394	234
3	5.38	175	104
4	7.18	98	59
5	8.97	63	38
6	10.77	44	26

No. of luminaires in room	Reflection factors 70/50/20					
	Em(lx) 100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	1.0	1.1	2.0	2.2	4.9	5.6
30 m²	1.5	1.7	3.1	3.4	7.7	8.5
40 m²	2.0	2.2	4.0	4.3	9.9	11
50 m²	2.4	2.6	4.8	5.2	12	13
75 m²	3.6	3.8	7.2	7.6	18	19
100 m²	4.7	4.9	9.3	9.8	23	25
500 m²	22	23	44	45	110	113

Maintenance factor 0.8

Rh = Lh

**Lunis 2® mini | DA = 162mm  
medium distribution (2x 25°), matt, cut-off 25° | LED with 3000lm\***

- Downlight for ceiling recessing
- matt reflector, medium distribution; cut-off 40°
- external CG unit

- mounting ring with visible fringe of UV-stabilized plastic, white (similar to RAL 9016)
- service life: up to 50,000h (L70 | B10)
- protection rating: IP40
- insulation class: I

- separate CG unit with ECG; ready for connection with mains terminal, pre-assembled cable with plug connection to downlight, l = 0.6m

The appearance of the downlight can be varied individually by using decorative optical accessories

- cover disc | attachment disc | luminous ring | ring louver

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term.

We utilize this to reduce power consumption of the downlight with identical luminous flux



Light source

	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG L.L.C.G.	Order no. OSRAM	Order no. Siteco
LED	3000	>80	2570	39	1.9	ECG	4050737054568	5DN12B77VL337C
LED	3000	>80	2570	39	1.9	DALI	4050737054643	5DN12BD7VL357C
LED	4000	>80	2570	32	1.9	ECG	4050737054582	5DN12B77VL337E
LED	4000	>80	2570	32	1.9	DALI	4050737054667	5DN12BD7VL357E

— please order decorative optical accessories separately if required

**Accessories (for details see page 5.45 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ring louver, semi-specular	0.1	4050737066622	5DNA2300
Luminous ring, semi-specular	0.1	4050737066608	5DNA220W
Decorative ring, white	0.1	4050737061894	5DNA230W
Decorative ring, black	0.1	4050737061832	5DNA230B
Decorative ring, silver	0.1	4050737061849	5DNA230S
Plaster ring	0.1	4050737059839	5DNA2100
Attachment cover, frosted in central area	0.4	4050737051710	5DNA350SW
Attachment ring, frosted	0.2	4050737051703	5DNA34SOW
Attachment ring, blue	0.2	4050737051697	5DNA34BOW
Plaster ring	0.1	4050737051789	5DNA7100
Concrete casting box	1.2	4050737051796	5DNA7300

\* the specified luminous flux value corresponds to the gross luminous flux of the LED.

**Lunis 2® micro | ... mini decorative accessories**

**Ring louver (not shown)**

for decorative ceiling illumination | PC, translucent | bayonet catch for fixing to mounting ring of downlight

Designation	Order no. OSRAM	Order no. Siteco
Ring louver, frosted for Lunis 2 mini	4050737066622	5DNA2300

— only with downlights up to gross luminous flux of max. 2250lm



**Luminous ring**

for decorative ceiling illumination | PC, translucent | bayonet catch for fixing to mounting ring of downlight

Designation	Order no. OSRAM	Order no. Siteco
Luminous ring, frosted for Lunis 2 mini	4050737066608	5DNA220W

— only with downlights up to gross luminous flux of max. 2250lm



**Decorative ring**

PC, coated white, black or white aluminum | bayonet catch for fixing to mounting ring of downlight

Designation	Order no. OSRAM	Order no. Siteco
Decorative ring, white (similar to RAL 9016) for Lunis 2 micro	4050737062006	5DCA230W
for Lunis 2 mini	4050737061894	5DNA230W

Decorative ring, black (RAL 9005) for Lunis 2 micro	4050737061726	5DCA230B
for Lunis 2 mini	4050737061832	5DNA230B

Decorative ring, white aluminum (RAL 9006) for Lunis 2 micro	4050737061771	5DCA230S
for Lunis 2 mini	4050737061849	5DNA230S



**Plaster ring**

PC, traffic white (RAL 9016) | bayonet catch for fixing to mounting ring of downlight

Designation	Order no. OSRAM	Order no. Siteco
Plaster ring, white (RAL 9016) for Lunis 2 micro	4050737059808	5DCA2100
for Lunis 2 mini	4050737059839	5DNA2100





### Attachment ring | attachment disc

decorative disc or ring of toughened safety glass; suspended with 3 translucent bolts below the decorative ring | decorative ring of PC, white (similar to RAL 9016)

Designation	Order no. OSRAM	Order no. Siteco
Attachment disc, opal frosted in center (not shown)		
for Lunis 2 micro	4050737051604	5DCA350SW
for Lunis 2 mini	4050737051710	5DNA350SW
Attachment ring, opal frosted		
for Lunis 2 micro	4050737051598	5DCA34S0W
for Lunis 2 mini	4050737051703	5DNA34S0W
Attachment ring, cobalt blue frosted (not shown)		
for Lunis 2 micro	4050737051581	5DCA34B0W
for Lunis 2 mini	4050737051697	5DNA34B0W

— only with downlights up to gross luminous flux of max. 2250lm

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## Lunis 2® micro | ... mini decorative accessories

**Cover disc, IP54, with decorative ring**

decorative disc of toughened safety glass; fitted in a decorative ring | decorative ring of PC, white (similar to RAL 9016) | bayonet catch for fixing to mounting ring of downlight | protection rating: IP54 (on room side with closed ceilings)

Designation	Order no. OSRAM	Order no. Siteco
Cover disc, frosted in center (not shown)		
for Lunis 2 micro	4050737051642	5DCA410SW
for Lunis 2 mini	4050737051758	5DNA410SW
Cover disc, completely frosted (not shown)		
for Lunis 2 micro	4050737051666	5DCA41SSW
for Lunis 2 mini	4050737051772	5DNA41SSW
Cover disc, transparent		
for Lunis 2 micro	4050737051628	5DCA4100W
for Lunis 2 mini	4050737051734	5DNA4100W

— only with downlights up to gross luminous flux of max. 2250lm

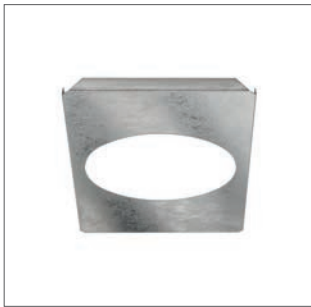
**Cover disc, IP54**

disc of toughened safety glass; fitted in a slender ring | ring of PC, white (similar to RAL 9016) | for flush fitting in downlight | bayonet catch for fixing to mounting ring of downlight | protection rating: IP54 (on room side with closed ceilings)

Designation	Order no. OSRAM	Order no. Siteco
Cover disc, frosted in center (not shown)		
for Lunis 2 micro	4050737051635	5DCA410S
for Lunis 2 mini	4050737051741	5DNA410S
Cover disc, completely frosted (not shown)		
for Lunis 2 micro	4050737051659	5DCA41SS
for Lunis 2 mini	4050737051765	5DNA41SS
Cover disc, transparent		
for Lunis 2 micro	4050737051611	5DCA4100
for Lunis 2 mini	4050737051727	5DNA4100

— only with downlights up to gross luminous flux of max. 2250lm

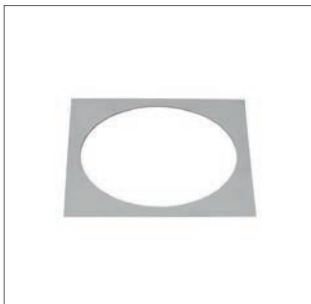
## Lunis 2® micro | ... mini mounting accessories



### Mounting plate, module 625

to support weight of luminaire on ceiling structure (module 625), sheet steel, galvanized

Designation	DA (mm)	I x w x h (mm)	Order no. OSRAM	Order no. Siteco
Mounting plate for Lunis 2 mini	162	620 x 350 x 25	4039806193476	5LR91150BJ



### Backing plate

for reinforcement of porous ceiling panels (e.g. light mineral fiber boards) | sheet steel, galvanized

Designation	DA (mm)	I x w x h (mm)	Order no. OSRAM	Order no. Siteco
Backing plate for Lunis 2 mini	162	190 x 190 x 1	4039806189431	5LR91150BA



### Reducer

for reducing existing ceiling aperture with diameter DA = 212mm to DA = 162mm | PC, white (similar to RAL 9016)

Designation	DA (mm)	Order no. OSRAM	Order no. Siteco
Reducer for Lunis 2 mini	212 → 162	4050737057163	5DNA7501



### Plaster ring

for clean ceiling openings in plaster ceilings | PC, white

Designation	DA (mm)	Order no. OSRAM	Order no. Siteco
Plaster ring for Lunis 2 micro	100	4050737051673	5DCA7100
for Lunis 2 mini	162	4050737051789	5DNA7100

## Lunis 2® micro | ... mini mounting accessories



### Concrete casting box

for ceiling void | for luminaire installation in poured concrete ceilings | aluminum, coated black (RAL 9005)

Designation	DA (mm)	I x w x h (mm)	Order no. OSRAM	Order no. Siteco
Concrete casting box				
for Lunis 2 micro	100	428 x 220 x 183	4050737051680	5DCA7300
for Lunis 2 mini	162	493 x 280 x 183	4050737051796	5DNA7300

For planning, observe the installation instructions

Download [www.siteco.com](http://www.siteco.com) (Navigation: Notice sheet | rapid entry "order number" | click on "order number" in hits | click on "mounting instructions")

### Nail console, flush (not shown)

for precise, secure positioning of concrete casting box on lagging | for flush mounting of downlight | sheet steel, galvanized

Designation	DA (mm)	Order no. OSRAM	Order no. Siteco
Nail console, flush			
for Lunis 2 micro	100	4050737062334	5DCA73001
for Lunis 2 mini	162	4050737062372	5DNA73001

For planning, observe the installation instructions

Download [www.siteco.com](http://www.siteco.com) (Navigation: Notice sheet | rapid entry "order number" | click on "order number" in hits | click on "mounting instructions")

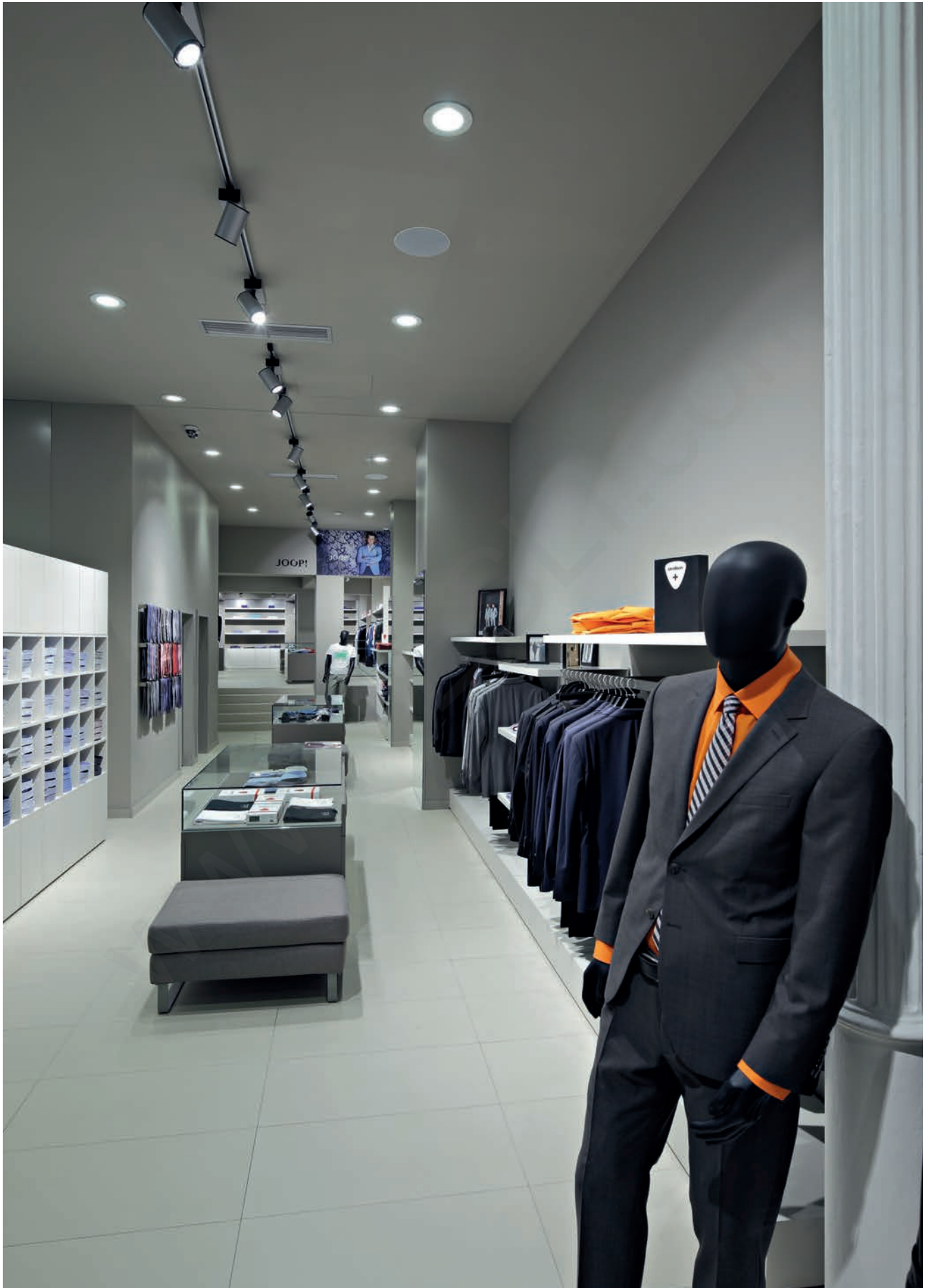
### Nail console, with return (not shown)

for precise, secure positioning of concrete casting box on lagging | with 15mm return for recessed mounting of downlight | sheet steel, galvanized; extension of concrete casting box support feet of aluminum, coated black (RAL 9005)

Designation	DA (mm)	Order no. OSRAM	Order no. Siteco
Nail console, with return			
for Lunis 2 micro	100	4050737062358	5DCA73002
for Lunis 2 mini	162	4050737062396	5DNA73002

For planning, observe the installation instructions

Download [www.siteco.com](http://www.siteco.com) (Navigation: Notice sheet | rapid entry "order number" | click on "order number" in hits | click on "mounting instructions")



## Lunis 2<sup>®</sup> micro controls | ... emergency



Intelligent functionality, aesthetic design – Lunis 2<sup>®</sup> micro controls | ... emergency integrate modern light management and in part also emergency light functionality with LED technology into the professional downlight family Lunis 2<sup>®</sup>. The luminaires are also ideal as external solutions together with other luminaires. Lunis 2<sup>®</sup> micro controls | ... emergency are suitable for a wide variety of applications in the office, hospitality and retail sectors. They unite intelligent functionality with especially appealing looks. They also blend discretely into all surroundings thanks to a discrete design and installation flush with the ceiling. They have adopted the shadow gap with high-quality appearance and mounting system from the Lunis 2<sup>®</sup> downlight family. Especially practical: The modules can be upgraded. DALI-capable luminaires without integrated sensors or emergency light functionality must not be replaced but can be upgraded via the external module to also take advantage of the savings potential of LMS for example.

### Features

- simple-to-use system with either integrated sensor technology or partly emergency light function
- high-quality design similar to Lunis 2<sup>®</sup> micro downlights
- discreet, harmonious integration into the room due to ceiling-flush installation

### Lunis 2<sup>®</sup> micro controls

- sensor-based control depending on daylight and presence
- low consumption in standby mode
- for mounting heights of up to 4m

### Lunis 2<sup>®</sup> micro emergency

- emergency light functionality with 1 or 3 hours rated operating duration
- available with two lenses for escape/rescue routes or anti-panic
- enables distances of up to 15 meters between individual modules
- for mounting heights between 2.5 and 7m



### Lighting technology

Lunis 2<sup>®</sup> micro emergency light module in downlight housing for ceiling installation with various light distribution

- with extremely wide distribution oval lens; for escape and rescue path lighting in accordance with EN 1838
- with almost rectangular extremely wide distribution lens; for anti-panic lighting in accordance with EN 1838
- partly approved in compliance with EN 60598-2-22

### Electrics

Lunis 2<sup>®</sup> micro emergency light module in downlight housing for ceiling installation with external control unit/battery unit:

- control unit/battery unit with 3-pole connection terminal (unswitched phase, N and PE); with pre-assembled cable with plug connection to emergency light module, l = 0.6m

Lunis 2<sup>®</sup> micro controls multi-sensor (master) or supplementary presence sensor (slave) in downlight housing for ceiling installation with external control unit

- multi-sensor control unit with 2-pole mains terminal (L and N), 2x 2-pole control terminal (DALI line 1, DALI line 2) and 2-pole terminal for external push-button (manual mode); with pre-assembled cable with plug connection to multi-sensor, l = 1m
- presence sensor control unit with 2x 2-pole control terminal (integration into a DALI line) and pre-assembled cable with plug connection to motion sensor, l = 1m

### Housing

Lunis 2<sup>®</sup> micro emergency light module and Lunis 2<sup>®</sup> micro controls in downlight housing for ceiling installation | modular design consisting of mounting ring, emergency light module or sensor module and separate gearbox | mounting ring with visible fringe and insert with emergency light/sensor module of UV-stabilized plastic, white (similar to RAL 9016); sheet steel housing and gearbox, galvanized | mounting ring for tool-free fixing with rapid catch system | emergency light/sensor module with snap-in fixing in mounting ring, rotation through 360°

### Lunis 2<sup>®</sup> micro emergency

- mains-power-independent escape and rescue route lighting
- mains-power-independent anti-panic lighting

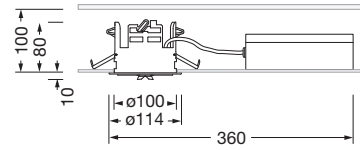
### Lunis 2<sup>®</sup> micro controls

- sensor-based control of DALI-capable luminaires without integrated sensor technology

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

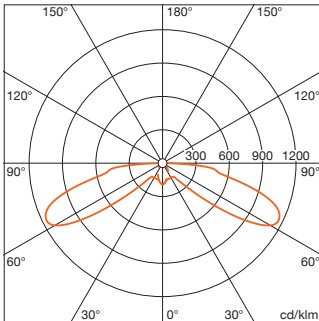


LED



4050737542942  
5DCA112C1

1 x LED 4500K / CRI ≥ 60     $\phi_N$  125 lm



$I_{max}$  1159 cd/klm at  $\gamma$  65°

**Lunis 2® micro emergency emergency light for escape/rescue routes, extremely wide oval light distribution**

Emergency light module in downlight housing for ceiling installation

- with oval distribution lens; for escape and rescue path lighting in accordance with EN 1838 and EN 60598-2-22
- external control unit/battery unit
- mounting ring with visible part of UV-stabilized plastic, white (similar to RAL 9016)

- sheet steel housing and gearbox, galvanized
- protection rating: IP20
- insulation class: emergency light module: II | control unit: I

**Function**


- gearbox with single battery supply (control unit and battery) for 1h or 3h nominal operating duration; luminaire with optical self-test function control of battery (LED displaying operating state flashes or with color)

**Electrics**

- control unit with 3-pole connection terminal (unswitched phase, N and PE); with pre-assembled cable with plug connection to emergency light module, l = 0.6m

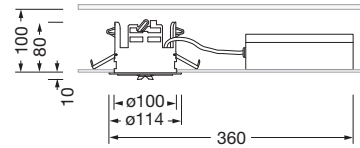
Detailed information: see data sheet



Light source	Operating duration		Order no. OSRAM	Order no. Siteco
LED	1 h	0.6	4050737542942	5DCA112C1
LED	3 h	0.2	4050737542966	5DCA112C3

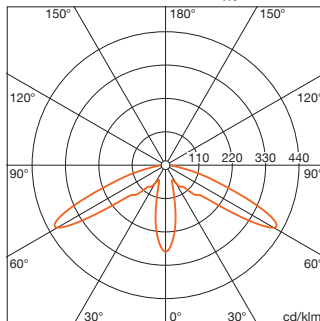


LED



4050737542980  
5DCA112R1

1 x LED 4500K / CRI ≥ 60  $\phi_N$  131 lm



$I_{max}$  412 cd/klm at  $\gamma$  60°

**Lunis 2® micro emergency emergency light for anti-panic lighting, extremely wide light distribution**

Emergency light module in downlight housing for ceiling installation

- with almost rectangular distribution lens; for anti-panic lighting in accordance with EN 1838 and EN 60598-2-22
- external control unit/battery unit
- mounting ring with visible part of UV-stabilized plastic, white (similar to RAL 9016)

- sheet steel housing and gearbox, galvanized
- protection rating: IP20
- insulation class: emergency light module: II | control unit: I

**Function**


- gearbox with single battery supply (control unit and battery) for 1h or 3h nominal operating duration; luminaire with optical self-test function control of battery (LED displaying operating state flashes or with color)

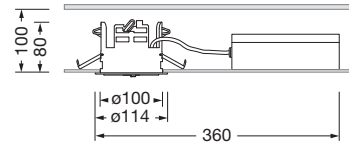
**Electrics**

- control unit with 3-pole connection terminal (unswitched phase, N and PE); with pre-assembled cable with plug connection to emergency light module, l = 0.6m

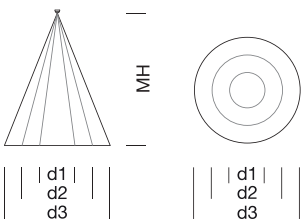
Detailed information: see data sheet



Light source	Operating duration		Order no. OSRAM	Order no. Siteco
LED	1 h	0.6	4050737542980	5DCA112R1
LED	3 h	0.2	4050737543000	5DCA112R3



Detection range for movement



MH	d1 seated	d2 frontal	d3 traverse
2,3m	ø2,0m	ø3,2m	ø6,0m
3,0m	ø2,0m	ø4,0m	ø7,0m
4,0m	ø2,0m	ø4,2m	ø7,5m

### Lunis 2® micro controls with multi-sensor (master) or presence detector (slave)

Multi-sensor or presence detector in downlight housing for ceiling installation

- multi-sensor (master) with brightness and motion sensor for controlling general lighting in a room and IR receiver for remote control
- presence detector (slave) with motion sensor for expanding motion detection
- multi-sensor and motion sensor each with external control unit

- mounting ring with visible part of housing of UV-stabilized plastic, white (similar to RAL 9016)
- protection rating: IP20
- insulation class: II
- mounting height: h = 1.5...4m
- detection range for motion: circular, approx. 80°
- control range: E = 20...800lx
- distance of light sensor to window ledge:  $D = 0.7 \times (H_{\text{sensor}} - H_{\text{window ledge}})$

#### Function

- Fully automatic operation, with sensor-controlled ON/OFF/bright/dark for 6 different preset function profiles or manual mode, ON/OFF/bright/dark possible via comfort remote control or external push-button
- motion sensor functions as master, a max. of 2 further motion sensors can be connected as slaves
- multi-sensor with connection for two DALI lines for switching and dimming a maximum of 32 ECG DALI or for integrating a max. of 2 further motion sensors (slave); multi-sensor DALI-1 and DALI-2 outputs with settable dimming difference (offset mode)


#### Electrics

- control unit of master with 2-pole mains terminal (L and N), 2x 2-pole control terminal (DALI line 1, DALI line 2), 2-pole terminal for external push-button (manual mode) and pre-assembled cable with plug connection to multi-sensor, l = 1m
- control device of slave with 2x 2-pole control terminal (integration into a DALI line) and pre-assembled cable with plug connection to motion sensor, l = 1m

Detailed information: see data sheet



#### Designation

		Order no. OSRAM	Order no. Siteco
Multi-sensor (master), with motion sensor, light sensor, IR signal	0.3	4050737544199	5DCA001M
Presence detector (slave), with motion sensor, IR signal	0.4	4050737544212	5DCA001S



# LEDVANCE® DOWNLIGHT L | ... XL



LEDVANCE® DOWNLIGHT are suitable for a diversity of applications and emit pleasant basic lighting in general building areas, corridors and traffic zones. A reflector with diffuser cover allows for the precise distribution of light. The downlights benefit from their housing of thermally conductive polymer in two ways: the material optimally dissipates the heat of the LED and the luminaires have low weight, which is advantageous with installation and transport. With various construction sizes, LEDVANCE® DOWNLIGHT are a flexible and efficient alternative to downlights fitted with compact fluorescent lamps.

They represent simple refurbishment solutions due to suitability for standard ceiling cut-outs and tool-free mounting with a catch system. Visually, the LEDVANCE® DOWNLIGHT feature identical design elements to Lunis® 2 downlights, for example a shadow gap with high-quality appearance. Thus, both ranges can be combined.

## Features

- efficient LED replacement for CFL downlights with system service life of up to 50,000 hours
- homogeneous basic and general lighting with precise light distribution
- high-quality appearance due to design elements such as shadow gap
- planning flexibility due to various construction sizes
- tool-free mounting in ceilings with catch system
- very good price-performance ratio

## Lighting technology

Frosted cover, wide distribution

## Electrics

Luminaire with integrated ECG | wired ready for connection with pre-assembled cable 2x 0.75mm<sup>2</sup>, l = 0.6m

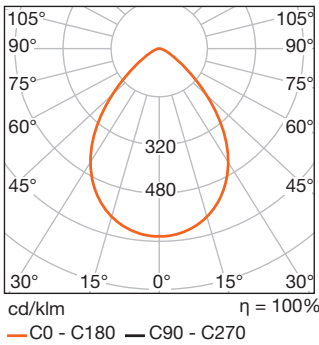
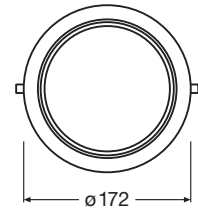
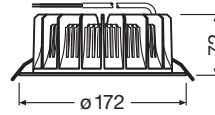
## Housing

Housing of heat-dissipating polymer, anthracite; of UV-stabilized PC, white (similar to RAL 9016); cover of PMMA; reflector of plastic, vaporized aluminum | reflector is visually separated from mounting ring due to shadow gap | tool-free fixing with rapid catch system





LED



**LEDVANCE® DOWNLIGHT L | DA = 159–164mm  
wide distribution (2x 40°), with frosted cover**

- Downlight for ceiling recessing
- with frosted cover, wide distribution
- with integrated ECG
- mounting ring with visible fringe of UV-stabilized PC, white (similar to RAL 9016); housing of thermally conductive polymer; PMMA cover

- protection rating: IP20 (IP54 on room side)
- insulation class: II
- service life: up to 50,000h (L70 | B50)

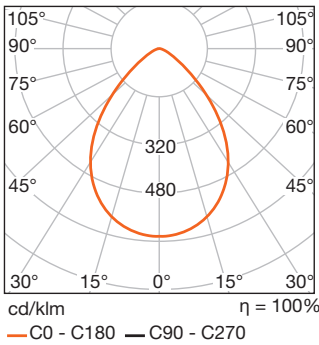
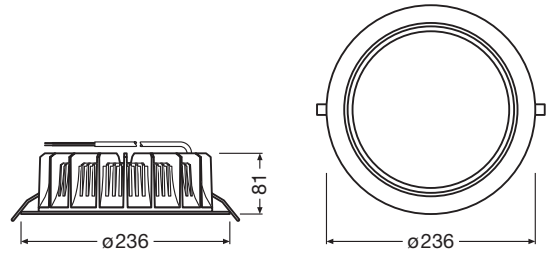
Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. Siteco utilizes this to reduce power consumption of the downlight with identical luminous flux



Light source	K	R <sub>a</sub>	lm	W SYSTEM	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	>80	1050	12	0.5	ECG 4052899093591	ODL11A78C3R
LED	4000	>80	1120	12	0.5	ECG 4052899093614	ODL11A78C3S



LED



**LEDVANCE® DOWNLIGHT XL | DA = 199–215mm  
wide distribution (2x 40°), with frosted cover**

- Downlight for ceiling recessing
- with frosted cover, wide distribution
- with integrated ECG
- mounting ring with visible fringe of UV-stabilized PC, white (similar to RAL 9016);
- housing of thermally conductive polymer; PMMA cover
- protection rating: IP20 (IP54 on room side)
- insulation class: II
- service life: up to 50,000h (L70 | B50)

Rapid advances in LED technology achieve distinct energy efficiency improvements in the short term. Siteco utilizes this to reduce power consumption of the downlight with identical luminous flux



Light source	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG LLOG	Order no. OSRAM	Order no. Siteco
LED	3000	>80	1770	19	0.7	ECG	4052899093638	ODX11A7833R
LED	4000	>80	1970	19	0.7	ECG	4052899093676	ODX11A7833S



# KIT LED PRO



The KIT LED PRO family has been designed for energy-efficient lighting in most classic standard downlight applications. The narrow distribution recessed downlights are suitable both for general lighting with a pleasant warm light color (3000K, warm white) and for flexible accent lighting: light emission can be rotated through an angle of  $\pm 20^\circ$ .

KIT LED PRO is available for round ceiling cut-outs (diameter 80mm). The easy-mounting downlight can be simply and safely installed in the ceiling cut-out with a reliable, tiltable fastener mechanism. In the KIT downlights, all components required for installation, including the OSRAM PARATHOM® PAR 16 LED light source, are contained in the package.

## Features

- aluminum housing in two versions: brushed nickel finish and white (RAL 9016)
- lamp rotatable through  $\pm 20^\circ$
- various luminous intensity levels depending on version
- simple, rapid mounting via toggle springs
- simple relamping with bayonet catch
- supplied with light source: OSRAM PARATHOM® PAR 16 LED, color temperature: 3,000K
- operating temperature:  $-15^\circ\text{C} \dots +40^\circ\text{C}$
- IP23

## Lighting technology

Narrow distribution ( $35^\circ$ ) | rotatable lamp ( $\pm 20^\circ$ )

## Electrics

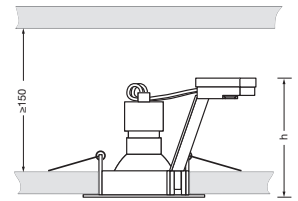
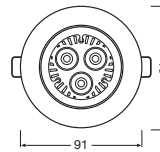
Luminaire wired ready for connection with 2-pole connection terminal | for direct mains connection to 220...240V | dimmable with many standard reverse phase dimmers

## Housing

Housing and lamp ring of aluminum, traffic white (RAL 9016) or brushed nickel finish

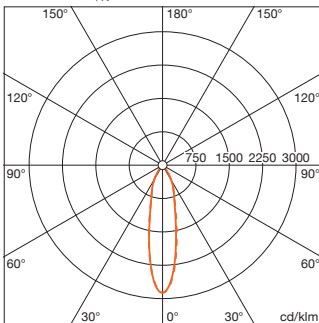


LED



4008321982094  
OLR50H67W3

1 x LED  $\phi_N$  351 lm



**KIT LED PRO | for DA = 80mm  
narrow distribution (35°) | round housing**

- Downlight for ceiling recessing
- narrow distribution, rotatable ( $\pm 20^\circ$ )
- light source with integrated ECG
- dimmable with standard reverse phase dimmers
- housing and lamp ring of aluminum, traffic white (RAL 9016) or brushed nickel finish
- protection rating: IP23

- insulation class: II
- includes LED lamp OSRAM PARATHOM® PAR 16



**Light source**



**OSRAM  
order no.**

**Order no.  
Siteco**

White

Light source	GU10	3000	> 80	265	4.8	117	0.3	ECG DIM	OSRAM order no.	Order no. Siteco
LED	GU10	3000	> 80	265	4.8	117	0.3	ECG DIM	4008321982063	OLR50H67Q3V1
LED	GU10	3000	> 80	390	7.0	117	0.3	ECG DIM	4008321982094	OLR50H67W3

Nickel, anodized, brushed

LED	GU10	3000	> 80	265	4.8	117	0.3	ECG DIM	4008321982049	OLR50H67Q7
LED	GU10	3000	> 80	390	7.0	117	0.3	ECG DIM	4008321982087	OLR50H67W7

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

# KIT LED CLASSIC



The KIT LED CLASSIC family has been designed for energy-efficient lighting in most classic standard downlight applications. The narrow distribution KIT LED CLASSIC recessed downlights are suitable both for general lighting with a pleasant warm light color (3000K, warm white) and for flexible accent lighting: light emission can be rotated through an angle of  $\pm 20^\circ$ . The easy-mounting downlight can be simply and safely installed in the ceiling cut-out with a reliable, tiltable fastener mechanism. In the KIT downlights, all components required for installation, including the OSRAM PARATHOM® PAR 16 LED light source, are contained in the package.

## Features

- circular downlight for energy-efficient lighting in many standard applications
- lamp rotatable through  $\pm 20^\circ$
- simple, rapid mounting via toggle springs
- simple relamping with spring washer
- supplied with light source:  
OSRAM PARATHOM® PAR 16 LED, warm white
- IP21

## Lighting technology

Narrow distribution ( $35^\circ$ ) | rotatable lamp ( $\pm 20^\circ$ )

## Electrics

Luminaire wired ready for connection with 2-pole connection terminal | for direct mains connection to 220...240V

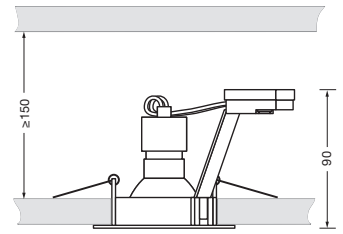
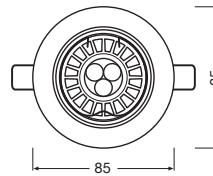
## Housing

Housing of aluminum, traffic white (RAL 9016) | lampholder: spring washer of nickel-plated wire



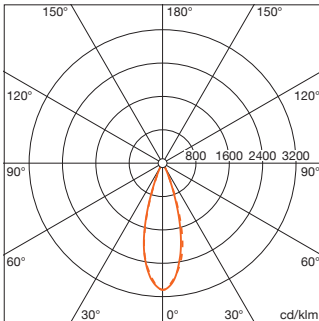


LED



4008321664990  
OLR50H77Q3

1 x LED  $\phi$ N 193 lm



**KIT LED CLASSIC | for DA = 75mm  
narrow distribution (35°) | round housing**

- Downlight for ceiling recessing
- narrow distribution, rotatable ( $\pm 20^\circ$ )
- light source with integrated ECG
- housing of aluminum, traffic white (RAL 9016)

- protection rating: IP21
- insulation class: II
- includes LED lamp OSRAM PARATHOM® PAR 16



**Light source**

		<b>K</b>	<b>R<sub>a</sub></b>	<b>lm</b>	<b>W</b> SYSTEM			<b>Order no.</b> <b>OSRAM</b>	<b>Order no.</b> <b>Siteco</b>
LED	GU10	2700	> 80	245	4.7	0.2	ECG	4008321664990	OLR50H77Q3

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

# PUNCTOLED®



The downlights of the PUNCTOLED® family are ideal as an energy-efficient alternative to downlights with standard technology. They feature a long service life of up to 50,000h as well as easy mounting based on an intelligent spring catch system. Differing wattages and light distribution patterns result in flexibility for applications: depending on the version, a narrow distribution version (25°) with rotatable luminaire head ( $\pm 20^\circ$ ) or a diffuse distribution version with opal cover are available.

## Features

- high energy efficiency with LED technology
- color temperature 3,000K (warm white)
- up to 50,000 hours of service life depending on version
- PUNCTOLED® IP65 with high protection rating on room side
- simple and quick mounting and disassembly via rapid spring catch system

## Lighting technology

Lighting characteristics depending on version: narrow distribution (25°), luminaire head can be pivoted through  $\pm 20^\circ$  | diffuse distribution via opal cover

## Electrics

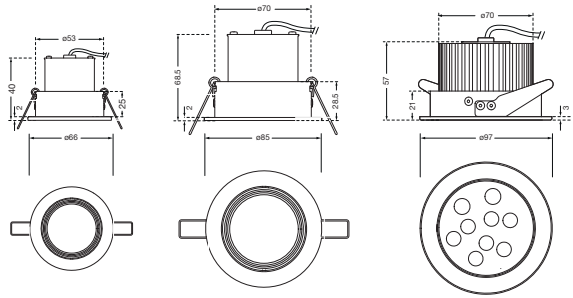
Luminaire wired ready for connection; incl. separate control unit, 2x max. 0.75mm<sup>2</sup> | version with one downlight: downlight with pre-assembled cable (l = 0.3m or 1.2m); version with two downlights: downlights with pre-assembled cable with plug connection to distribution box (l = 1.0m or 1.5m); distribution box for 2 downlights with pre-assembled cable for gearbox (l = 1.0m) | dimmable with many standard leading edge/trailing edge dimmers

## Housing

Aluminum housing, white | diffuse distribution versions with opal cover of PC | tool-free fixing with rapid catch system

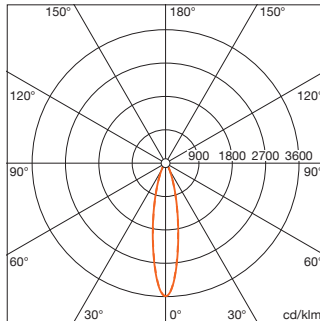


LED



4008321999368  
ODP10061S3

1 x LED  $\phi_N$  694 lm



**PUNCTOLED® I**

**narrow distribution (25°); tiltable luminaire head (±20°) | IP33 on room side**

- Downlight for ceiling recessing
- narrow distribution
- tiltable luminaire head (±20°)
- with separate ECG
- dimmable with many standard leading edge/trailing edge dimmers

- aluminum housing, white
- protection rating: IP20 (IP33 on room side)
- insulation class: II

**Electrics:**

- Downlight with pre-assembled cable; version with 2 downlights with supplementary distribution box with pre-assembled cable to control unit. Downlights here can only be switched together.

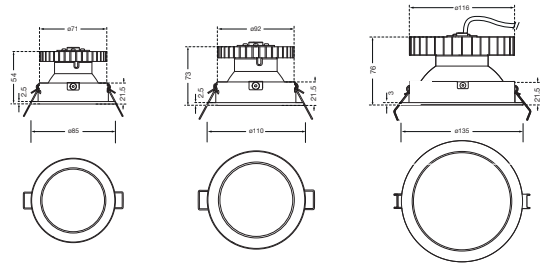


Light source	K	R <sub>a</sub>	lm	W SYSTEM	h (mm)	d (mm)	B	kg	ECG LLoS	Order no. OSRAM	Order no. Siteco
	2x LED	3000	> 80	2x 220	2x 4.5	42	66	57	0.4	ECG DIM	4008321999320
2x LED	3000	> 80	2x 450	2x 8.5	70	85	76	0.5	ECG DIM	4008321999344	ODP10062V3
1x LED	3000	> 80	625	10.5	57	97	86	0.4	ECG DIM	4008321999368	ODP10061S3

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

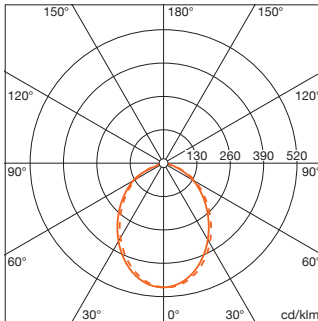


LED



4052899904095  
ODP1C67T3

1 x LED ww  $\phi_N$  1010 lm



**PUNCTOLED® II**  
diffuse distribution | IP20

Downlight for ceiling recessing  
 — diffuse distribution  
 — with separate ECG  
 — dimmable with many standard reverse phase dimmers

- aluminum housing, white
- opal cover of PC
- protection rating: IP20
- insulation class: II

**Electrics:**

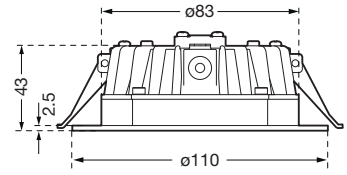
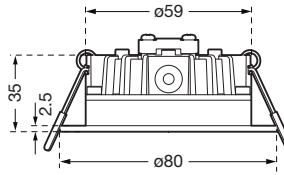
- downlight with pre-assembled cable to control unit



**Light source**

	K	R <sub>a</sub>	lm	W SYSTEM	h (mm)	d (mm)	kg	ECG LL06	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	600	10	54	85	0.3	ECG DIM	4052899904088	ODP1C67S3
LED	3000	> 80	1000	15	73	110	0.4	ECG DIM	4052899904095	ODP1C67T3
LED	3000	> 80	1450	20	76	135	0.5	ECG DIM	4052899904101	ODP1C67P3

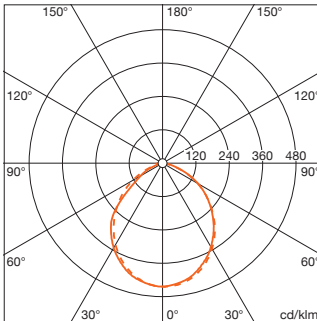
— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25



4052899910652

ODP10C67S365

1 x LED  $\phi_N$  461 lm



**PUNCTOLED® IP65**  
diffuse distribution | IP65 on room side

- Downlight for ceiling recessing
- diffuse distribution
- with separate ECG
- dimmable with many standard leading edge/trailing edge dimmers
- aluminum housing, white

- protection rating: IP20 (IP65 on room side)
- insulation class: II or III (depending on version)

**Electrics:**

- Downlight with pre-assembled cable; version with 2 downlights with supplementary distribution box with pre-assembled cable to control unit. Downlights here can only be switched together.



**Light source**

	Schutzklasse	K	R <sub>a</sub>	lm	W SYSTEM	h (mm)	d (mm)	Ø	ECG LLCG	OSRAM order no.	Order no. Siteco
2x LED	III	3000	> 80	2x 330	2x 5.5	35	80	67	0.5	ECG DIM	4052899910645 ODP10C62V365
1x LED	II	3000	> 80	600	10	43	110	95	0.4	ECG DIM	4052899910652 ODP10C67S365

- information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

# TRESOL®



The LED downlights of the TRESOL® family feature a low recess depth of only 40mm and very simple mounting (Plug & Light). The heat sink in the form of a silver-colored aluminum rosette surrounds the wide distribution LED point light source (35°) and is also the design feature of the downlight. The compact housing with built-in ECG can be fixed into the corresponding cut-outs without tools via the spring-aided tensioning system.

## Features

- downlight with low recess depth
- LED technology for high system efficiency
- color temperature 3,000K (warm white)
- simple, rapid mounting (Plug & Light)

## Lighting technology

Wide distribution

## Electrics

Luminaire wired ready for connection with 2-pole connection terminal, l = 1.6m | ECG integrated in luminaire | dimmable with many standard reverse phase dimmers

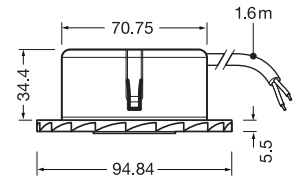
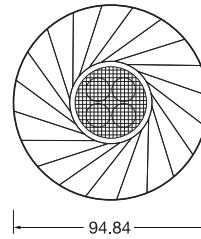
## Housing

Aluminum housing, white | aluminum rosette as heat sink, silver | tool-free fixing with rapid catch system





LED



**TRESOL® 10W | for DA = 75mm  
narrow distribution (35°)**

Downlight for ceiling recessing

- wide distribution
- with ECG
- dimmable with many standard reverse phase dimmers
- aluminum housing, white

- aluminum rosette as heat sink, silver
- protection rating: IP20
- insulation class: II



Light source	K	R <sub>a</sub>	lm	W SYSTEM	KG	ECG L.LCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	385	10	0.3	ECG DIM	4008321984159	OMT1717L10830

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

## LED TRESOL®



The LED downlights of the TRESOL® family feature a low recess depth of only 30mm. The heat sink in the form of a silver-colored aluminum rosette surrounds the narrow distribution LED point light source (30°) and is also the design feature of the downlight. The compact housing with built-in ECG can be fixed into the corresponding cut-outs without tools via the spring-aided tensioning system. The LED TRESOL® can also be installed as a surface-mounted downlight with an optional add-on kit.

### Features

- recessed downlight with very high light intensity, high-performance LED and integrated control unit
- surface mounting via optional housing (add-on kit)
- color temperature 3,000K (warm white)

### Lighting technology

Narrow distribution

### Electrics

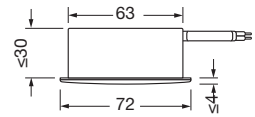
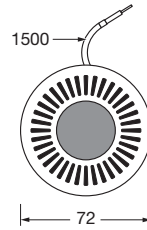
Luminaire wired ready for connection, 2-pole | ECG integrated in luminaire

### Housing

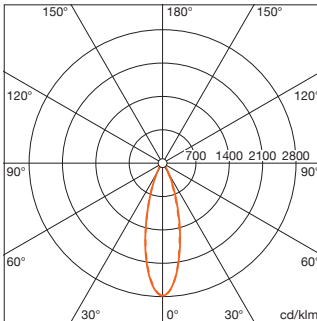
PC housing, silver/matt | tool-free fixing with rapid catch system | optional add-on kit for surface mounting, silver/matt



LED



4008321587220  
OMT5717L45830  
1 x LED  $\phi$ N 180 lm



**LED TRESOL® | for DA = 64mm  
narrow distribution (30°)**

Downlight for recessing in or mounting to furniture

- narrow distribution
- with ECG

- PC housing, silver/matt
- protection rating: IP20
- insulation class: II



Light source	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG LCG	Order no. OSRAM	Order no. Siteco
LED	3200	> 80	165	4.5	0.1	ECG	4008321587220	OMT5717L45830

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

**Accessories**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
LED TRESOL add-on kit	set of 6	3.8	4008321980014	OMT92210MR

— add-on kit: mounting ring for surface mounting

## compact downlight



The extremely wide distribution compact downlights have been optimized as complete luminaires with a recess depth of only 108mm for quick, tool-free mounting. They are constructed of temperature-resistant, high-grade polymer and are equipped with multiwatt technology. The luminaires can thus be individually equipped with compact fluorescent lamps between 18 and 42 watts according to light requirements. Additional flexibility is offered by a wide range of optical and decorative accessories, giving the compact downlights various lighting characteristics for a variety of technical and creative tasks.

### Features

- minimal installed depth of 108mm
- with multiwatt technology for exchangeable lumen packages
- with accessories also suitable for wet rooms (IP44)
- tool-free mounting

### Lighting technology

- reflector, highly specular aluminized, extremely wide distribution
- reflector, faceted, highly specular aluminized, extremely wide distribution
- reflector, white, highly specular, extremely wide distribution
- lighting technology can be varied individually with decorative optical accessories
- opal diffuser or ring prism for visual improvement and uniform light distribution
- ring louver for glare control

### Electrics

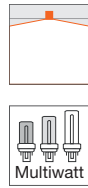
Luminaire wired ready for connection | with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal; with single battery: 3-pole for normal mains + 1-pole for additional unswitched phase), max. 2.5mm<sup>2</sup> | terminal cover with cable strain relief, suitable for through-wiring

### Housing

One-piece housing with reflector of temperature-resistant high-grade polymer (PBT) | reflector and visible reflector fringe aluminized or white; highly specular | two-point mounting without tools | opal diffuser and prismatic disc of PMMA; highly specular aluminized ring louver of PC

### Mounting information

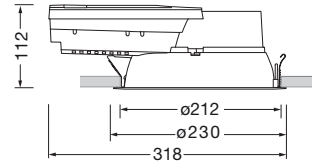
For installing the compact downlights, a ceiling cavity with mounting depth of  $MT_{\min} = 115\text{mm}$  is required



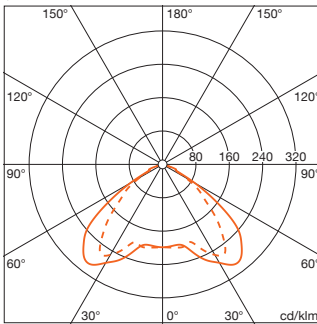
TC-DEL  
G24q-2

TC-TEL  
GX24q-3

TC-TEL  
GX24q-4



4039806223425  
5LR35771VA61  
1 x TC-TELI 26W/840 (Amalgam)  
φ 1800 lm



η<sub>LB</sub> 71.8%  
I<sub>max</sub> 294 cd/klm at γ 35°

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	212	212
L <sub>70</sub>	5886	3936
L <sub>65</sub>	5207	4764
α <sub>50%</sub>	2 x 56.0°	2 x 50.4°
α <sub>10%</sub>	2 x 70.8°	2 x 68.8°
UGR	22.7	21
X 4H Y 8H ρ 70/50/20 S 0.25H		

**compact downlight | DA = 212mm | with highly specular reflector  
extremely wide distribution | for TC-DEL/TC-TEL**

- Downlight for ceiling recessing
- with highly specular reflector, extremely wide distribution
- reduced light spill in ceiling cavity
- with ECG

- one-piece housing with reflector of temperature-resistant high-grade polymer, aluminized reflector and visible reflector fringe, highly specular
- protection rating: IP20 (IP44 on room side with opal diffuser or ring prism)
- insulation class: II

The appearance of the downlight can be varied individually by using decorative optical accessories

- ring prism | opal diffuser | ring louver



Light source			ECG	Order no. OSRAM	Order no. Siteco
1x TC-TEL 26/32/42W	GX24q-3/-4	0.8	Multi	4039806223425	5LR35771VA61
1x TC-TEL 26/32/42W	GX24q-3/-4	0.8	Multi DALI	4039806400536	5LR357D1VA61
1x TC-TEL 26/32/42W	GX24q-3/-4	0.8	Multi 1...10V	4039806400499	5LR35761VA61
1x TC-DEL 18W	G24q-2	0.9	ECG	4039806212399	5LR35771GA61
2x TC-DEL 18W	G24q-2	0.9	ECG	4039806212450	5LR35772GA61
2x TC-TEL 26W	GX24q-3	1.1	ECG	4039806212474	5LR35772LA61
2x TC-TEL 26W	GX24q-3	1.1	DALI	4039806502780	5LR357D2LA61
2x TC-TEL 26W	GX24q-3	1.1	1...10V	4039806502766	5LR35762LA61

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	5.93	89	58
3	8.90	40	26
4	11.86	22	15
5	14.83	14	9
6	17.79	10	6

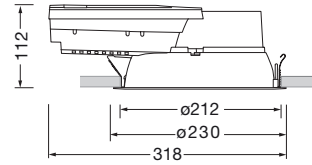
- ceiling cut-out: DA = 212mm, required installation depth MT<sub>min</sub> = 115mm
- 2x 26W lamps permissible only with "open ceiling void" (please clarify thermal conditions of recess situation on site before ordering)
- please order decorative optical accessories separately if required

No. of luminaires in room

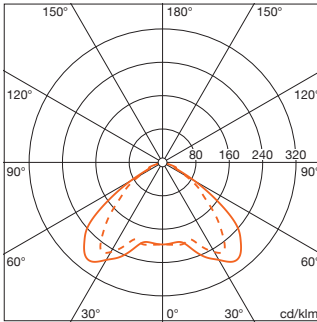
Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	2.1	2.5	4.2	5.1	10	13
30 m <sup>2</sup>	3.3	3.8	6.7	7.5	17	19
40 m <sup>2</sup>	4.2	4.7	8.5	9.4	21	23
50 m <sup>2</sup>	5.1	5.6	10	11	26	28
75 m <sup>2</sup>	7.5	8.0	15	16	37	40
100 m <sup>2</sup>	9.7	10	19	20	48	51
500 m <sup>2</sup>	45	46	90	91	224	228

Maintenance factor 0.8 Rh = Lh



4039806260031  
5LR35771VA6102  
1 x TC-TELI 26W/840 (Amalgam)  
φ 1800 lm



$\eta_{LB}$  71.1%  
 $I_{max}$  291 cd/klm at  $\gamma$  35°

Luminance values (cd/m <sup>2</sup> )	
C 0/180	C 90/270
L <sub>80</sub> 210	210
L <sub>70</sub> 5830	3899
L <sub>65</sub> 5158	4718

$\alpha_{50\%}$  2 x 56.0°    2 x 50.4°  
 $\alpha_{10\%}$  2 x 70.8°    2 x 68.8°

UGR 22.6    21  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	Em(lx)
2	5.93	89	58
3	8.90	39	26
4	11.86	22	14
5	14.83	14	9
6	17.79	10	6

No. of luminaires in room						
Reflection factors 70/50/20						
Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	2.1	2.6	4.2	5.1	11	13
30 m <sup>2</sup>	3.4	3.8	6.7	7.6	17	19
40 m <sup>2</sup>	4.3	4.7	8.6	9.5	21	24
50 m <sup>2</sup>	5.1	5.6	10	11	26	28
75 m <sup>2</sup>	7.5	8.1	15	16	38	41
100 m <sup>2</sup>	9.8	10	20	21	49	52
500 m <sup>2</sup>	45	46	90	92	226	230

Maintenance factor 0.8    Rh = Lh

**compact downlight | DA = 212mm | with highly specular reflector  
extremely wide distribution | for TC-TEL | with single battery**

Downlight for ceiling recessing

- with highly specular reflector, extremely wide distribution
- reduced light spill in ceiling cavity
- with ECG, additionally with single battery
- one-piece housing with reflector of temperature-resistant high-grade polymer, aluminized reflector and visible reflector fringe, highly specular
- protection rating: IP20 (IP44 on room side with opal diffuser or ring prism)
- insulation class: I

The appearance of the downlight can be varied individually by using decorative optical accessories  
• ring prism | opal diffuser | ring louver

**Electrics**

- Luminaire for operation on "normal mains" or via the integral self-contained supply
- luminaire wired ready for connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase)
  - switched phase and unswitched phase must have same phase angle
  - single battery for 1h operating duration with reduced luminous flux
  - with optical self-test functioning control of battery (LED for display of operational state)

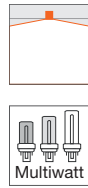
Detailed information: see data sheet



Light source	Operating duration	Weight	ECG LLOG	Order no. OSRAM	Order no. Siteco
1x TC-TEL 26/32W	GX24q-3/-4	1 h	2.4	Multi	4039806260031    5LR35771VA6102

- ceiling cut-out: DA = 212mm, required installation depth  $MT_{min}$  = 115mm
- please order decorative optical accessories separately if required

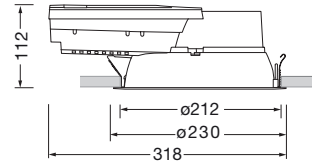




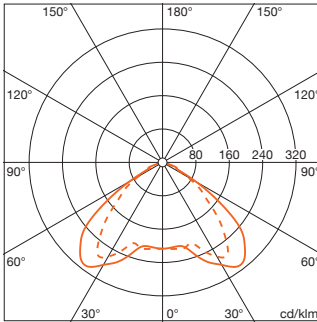
TC-DEL  
G24q-2

TC-TEL  
GX24q-3

TC-TEL  
GX24q-4



4039806220585  
5LR36771VA61  
1 x TC-TELI 26W/840 (Amalgam)  
φ 1800 lm



η<sub>LB</sub> 74.8%  
I<sub>max</sub> 306 cd/klm at γ 35°

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	224	224
L <sub>70</sub>	6130	4096
L <sub>65</sub>	5421	4961

α <sub>50%</sub>	2 x 56.0°	2 x 50.4°
α <sub>10%</sub>	2 x 70.8°	2 x 68.8°

UGR 22.8 21.2  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	Em(lx)
2	5.93	93	61
3	8.90	41	27
4	11.86	23	15
5	14.83	15	10
6	17.79	10	7

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	2.0	2.4	4.0	4.9	10	12
30 m <sup>2</sup>	3.2	3.6	6.4	7.2	16	18
40 m <sup>2</sup>	4.1	4.5	8.1	9.0	20	23
50 m <sup>2</sup>	4.9	5.4	9.8	11	24	27
75 m <sup>2</sup>	7.2	7.7	14	15	36	39
100 m <sup>2</sup>	9.3	9.8	19	20	46	49
500 m <sup>2</sup>	43	44	86	88	215	219

Maintenance factor 0.8 Rh = Lh

**compact downlight | DA = 212mm | with faceted reflector  
extremely wide distribution | for TC-DEL/TC-TEL**

- Downlight for ceiling recessing
- with highly specular reflector, faceted, extremely wide distribution
- reduced light spill in ceiling cavity
- with ECG

- one-piece housing with reflector of temperature-resistant high-grade polymer, aluminized reflector and visible reflector fringe, highly specular
- protection rating: IP20 (IP44 on room side with opal diffuser or ring prism)
- insulation class: II

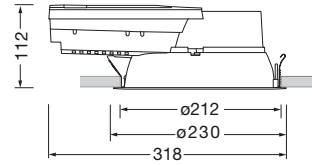
The appearance of the downlight can be varied individually by using decorative optical accessories

- ring prism | opal diffuser | ring louver

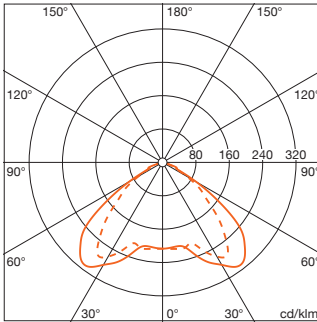


Light source			ECG LLCG	Order no. OSRAM	Order no. Siteco
1x TC-TEL 26/32/42W	GX24q-3/-4	0.8	Multi	4039806220585	5LR36771VA61
1x TC-TEL 26/32/42W	GX24q-3/-4	0.8	Multi DALI	4039806400604	5LR367D1VA61
1x TC-TEL 26/32/4 W	GX24q-3/-4	0.9	Multi 1...10V	4039806400567	5LR36761VA61
1x TC-DEL 18W	G24q-2	0.8	ECG	4039806212634	5LR36771GA61
2x TC-DEL 18W	G24q-2	0.9	ECG	4039806212696	5LR36772GA61
2x TC-TEL 26W	GX24q-3	0.9	ECG	4039806212719	5LR36772LA61
2x TC-TEL 26W	GX24q-3	1.2	Multi DALI	4039806502810	5LR367D2LA61
2x TC-TEL 26W	GX24q-3	1.2	1...10V	4039806502797	5LR36762LA61

- ceiling cut-out: DA = 212mm, required installation depth MT<sub>min</sub> = 115mm
- 2x 26W lamps permissible only with "open ceiling void" (please clarify thermal conditions of recess situation on site before ordering)
- please order decorative optical accessories separately if required



4039806251589  
5LR36771VA6102  
1 x TC-TELI 26W/840 (Amalgam)  
φ 1800 lm



η<sub>LB</sub> 74.8%  
I<sub>max</sub> 306 cd/klm at γ 35°

Luminance values (cd/m <sup>2</sup> )	
C 0/180	C 90/270
L <sub>80</sub> 224	224
L <sub>70</sub> 6130	4096
L <sub>65</sub> 5421	4961

α<sub>50%</sub> 2 x 56.0°    2 x 50.4°  
α<sub>10%</sub> 2 x 70.8°    2 x 68.8°

UGR 22.8    21.2  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	Em(lx)
2	5.93	93	61
3	8.90	41	27
4	11.86	23	15
5	14.83	15	10
6	17.79	10	7

No. of luminaires in room						
Reflection factors 70/50/20						
Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	2.0	2.4	4.0	4.9	10	12
30 m <sup>2</sup>	3.2	3.6	6.4	7.2	16	18
40 m <sup>2</sup>	4.1	4.5	8.1	9.0	20	23
50 m <sup>2</sup>	4.9	5.4	9.8	11	24	27
75 m <sup>2</sup>	7.2	7.7	14	15	36	39
100 m <sup>2</sup>	9.3	9.8	19	20	46	49
500 m <sup>2</sup>	43	44	86	88	215	219

Maintenance factor 0.8    Rh = Lh

**compact downlight | DA = 212mm | with faceted reflector  
extremely wide distribution | for TC-TEL | with single battery**

- Downlight for ceiling recessing
- with highly specular reflector, faceted, extremely wide distribution
  - reduced light spill in ceiling cavity
  - with ECG, additionally with single battery
- one-piece housing with reflector of temperature-resistant high-grade polymer, aluminized reflector and visible reflector fringe, highly specular
  - protection rating: IP20 (IP44 on room side with opal diffuser or ring prism)
  - insulation class: I

The appearance of the downlight can be varied individually by using decorative optical accessories

- ring prism | opal diffuser | ring louver

**Electrics**

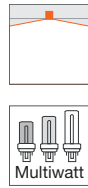
- Luminaire for operation on "normal mains" or via the integral self-contained supply
- luminaire wired ready for connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase)
  - switched phase and unswitched phase must have same phase angle
  - single battery for 1h operating duration with reduced luminous flux
  - with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



Light source	Operating duration	Weight	ECG	Order no. OSRAM	Order no. Siteco
1x TC-TEL 26/32W GX24q-3/-4	1 h	1.5	Multi	4039806251589	5LR36771VA6102

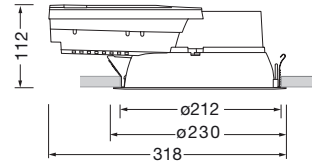
- ceiling cut-out: DA = 212mm, required installation depth MT<sub>min</sub> = 115mm
- please order decorative optical accessories separately if required



TC-DEL  
G24q-2

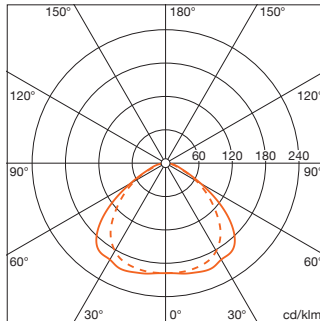
TC-TEL  
GX24q-3

TC-TEL  
GX24q-4



4039806212870  
5LR37771GA61

1 x TC-DEL 18W/840  $\phi$  1200 lm



$\eta_{LB}$  56.3%  
 $I_{max}$  206 cd/klm at  $\gamma$  20°

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3115	2672
L <sub>70</sub>	3566	3070
L <sub>65</sub>	4423	4135

$\alpha_{50\%}$	2 x 55.8°	2 x 52.0°
$\alpha_{10\%}$	2 x 75.8°	2 x 74.2°

UGR 20.9 20  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	5.89	59	32
3	8.83	26	14
4	11.77	15	8
5	14.71	9	5
6	17.66	7	4

No. of luminaires in room

Reflection factors 70/50/20	100			200			500		
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	4.2	4.9	8.4	9.8	21	25			
30 m <sup>2</sup>	6.4	7.2	13	14	32	36			
40 m <sup>2</sup>	8.2	9.1	16	18	41	45			
50 m <sup>2</sup>	9.8	11	20	22	49	54			
75 m <sup>2</sup>	14	15	29	31	72	77			
100 m <sup>2</sup>	19	20	37	40	93	100			
500 m <sup>2</sup>	86	88	172	177	429	441			

Maintenance factor 0.8

Rh = Lh

**compact downlight | DA = 212mm | with white reflector  
extremely wide distribution | for TC-DEL/TC-TEL**

- Downlight for ceiling recessing
- with white reflector, extremely wide distribution
- reduced light spill in ceiling cavity
- with ECG

- one-piece housing with reflector of temperature-resistant high-grade polymer, reflector and visible reflector fringe white, highly specular
- protection rating: IP20 (IP44 on room side with opal diffuser or ring prism)
- insulation class: II

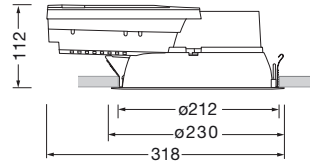
The appearance of the downlight can be varied individually by using decorative optical accessories

- ring prism | opal diffuser | ring louver

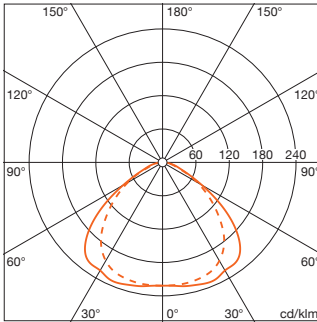


Light source				Order no. OSRAM	Order no. Siteco
1x TC-TEL 26/32/42W	GX24q-3/-4	0.9	Multi	4039806225047	5LR37771VA61
1x TC-TEL 26/32/42W	GX24q-3/-4	0.9	Multi DALI	4039806400666	5LR377D1VA61
1x TC-TEL 26/32/42W	GX24q-3/-4	0.9	Multi 1...10V	4039806400635	5LR37761VA61
1x TC-DEL 18W	G24q-2	0.9	ECG	4039806212870	5LR37771GA61
2x TC-DEL 18W	G24q-2	0.9	ECG	4039806212931	5LR37772GA61
2x TC-TEL 26W	GX24q-3	1.1	ECG	4039806212955	5LR37772LA61
2x TC-TEL 26W	GX24q-3	1.1	DALI	4039806503695	5LR377D2LA61
2x TC-TEL 26W	GX24q-3	1.1	1...10V	4039806503688	5LR37762LA61

- ceiling cut-out: DA = 212mm, required installation depth  $MT_{min} = 115mm$
- 2x 26W lamps permissible only with "open ceiling void" (please clarify thermal conditions of recess situation on site before ordering)
- please order decorative optical accessories separately if required



4039806251626  
5LR37771VA6102  
1 x TC-TELI 26W/840 (Amalgam)  
φ 1800 lm



η<sub>LB</sub> 63.1%  
I<sub>max</sub> 231 cd/klm at γ 20°

Luminance values (cd/m <sup>2</sup> )	
C 0/180	C 90/270
L <sub>80</sub> 5238	4482
L <sub>70</sub> 5995	5164
L <sub>65</sub> 7433	6953

α<sub>50%</sub> 2 x 55.8°    2 x 52.0°  
α<sub>10%</sub> 2 x 75.8°    2 x 74.2°

UGR 22.7    21.8  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	Em(lx)
2	5.89	100	54
3	8.83	44	24
4	11.77	25	14
5	14.71	16	9
6	17.66	11	6

No. of luminaires in room						
Reflection factors 70/50/20						
Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	2.5	2.9	5.0	5.9	12	15
30 m <sup>2</sup>	3.8	4.3	7.6	8.5	19	21
40 m <sup>2</sup>	4.9	5.4	9.7	11	24	27
50 m <sup>2</sup>	5.8	6.4	12	13	29	32
75 m <sup>2</sup>	8.5	9.2	17	18	43	46
100 m <sup>2</sup>	11	12	22	24	55	59
500 m <sup>2</sup>	51	53	102	105	255	263

Maintenance factor 0.8    Rh = Lh

**compact downlight | DA = 212mm | with white reflector  
extremely wide distribution | for TC-TEL | with single battery**

- Downlight for ceiling recessing
- with white reflector, extremely wide distribution
  - reduced light spill in ceiling cavity
  - with ECG, additionally with single battery
  - one-piece housing with reflector of temperature-resistant high-grade polymer, reflector and visible reflector fringe white, highly specular
  - protection rating: IP20 (IP44 on room side with opal diffuser or ring prism)
  - insulation class: I

The appearance of the downlight can be varied individually by using decorative optical accessories

- ring prism | opal diffuser | ring louver

**Electrics**

- Luminaire for operation on "normal mains" or via the integral self-contained supply
- luminaire wired ready for connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase)
  - switched phase and unswitched phase must have same phase angle
  - single battery for 1h operating duration with reduced luminous flux
  - with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



Light source	Operating duration	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x TC-TEL 26/32W	GX24q-3/-4	1 h	1.6	Multi	4039806251626    5LR37771VA6102

- ceiling cut-out: DA = 212mm, required installation depth MT<sub>min</sub> = 115mm
- please order decorative optical accessories separately if required

**compact downlight optical accessories**



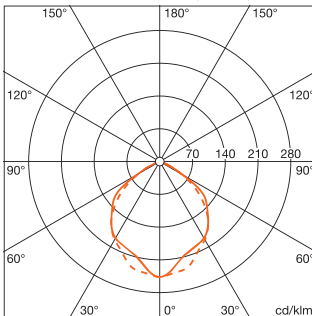
**Ring prism IP44**

with coaxial prismatic structure for widening and homogenization of light distribution | transparent PMMA | tool-free fixing via bayonet catch  
 protection rating: IP44 (on room side with closed ceilings)

Designation	Order no. OSRAM	Order no. Siteco
Ring prism, transparent	4039806216533	5LR94363DK

4039806223425 + 4039806216533  
 5LR35771VA61 + 5LR94363DK

1 x TC-TELI 32W/840 (Amalgam)  $\phi$  2400 lm



$\eta_{LB}$  52.5%  
 $I_{max}$  247 cd/klm at  $\gamma$  0°



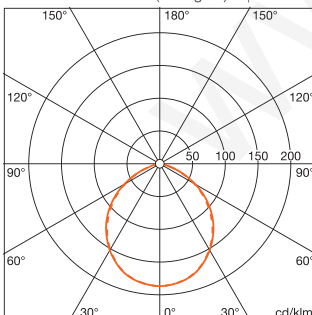
**Opal diffuser disc, IP44**

for widening and homogenization of light distribution | opal PMMA | tool-free fixing via bayonet catch  
 protection rating: IP44 (on room side with closed ceilings)

Designation	Order no. OSRAM	Order no. Siteco
Diffuser disc, opal	4039806216557	5LR94365CH

4039806225047 + 4039806216557  
 5LR37771VA61 + 5LR94365CH

1 x TC-TELI 32W/840 (Amalgam)  $\phi$  2400 lm



$\eta_{LB}$  45.2%  
 $I_{max}$  187 cd/klm at  $\gamma$  0°



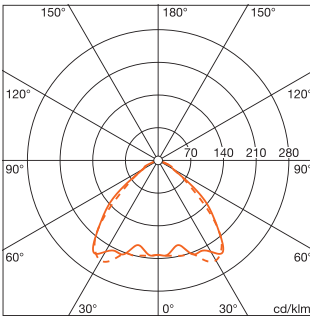
### Ring louver

for glare reduction | high-grade polymer, aluminized or white, highly specular | incl. central mounting

Designation	Order no. OSRAM	Order no. Siteco
Ring louver		
aluminized	4039806225955	5LR94361AB
white, highly specular	4039806228703	5LR94364AB

4039806223425 + 4039806225955  
5LR35771VA61 + 5LR94361AB

1 x TC-TELI 32W/840 (Amalgam)  $\phi$  2400 lm



$\eta_{LB}$  56.1%  
 $I_{max}$  250 cd/klm at  $\gamma$  30°

### compact downlight decorative accessories



### Decorative ring, standard

decorative cover ring of high-grade polymer | for clipping to reflector fringe of downlight

Designation	Order no. OSRAM	Order no. Siteco
Decorative ring, white	4039806216571	5LR95364CP



## compact downlight mounting accessories

**Module plate**

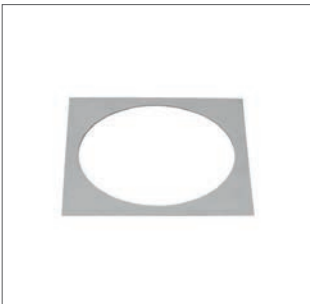
for installing luminaire in panel ceilings, module 100 | sheet steel, pure white (RAL 9010)

Designation	DA (mm)	l x w x h (mm)	Module	Order no. OSRAM	Order no. Siteco
Module plate	212	287 x 329 x 23	Width 3	4039806269898	5LR91364BG

**Mounting plate, module 625**

to support weight of luminaire on ceiling structure (module 625), sheet steel, galvanized

Designation	DA (mm)	l x w x h (mm)	Order no. OSRAM	Order no. Siteco
Mounting plate	212	620 x 350 x 25	4039806193537	5LR91160BJ

**Backing plate**

for reinforcement of porous ceiling panels (e.g. light mineral fiber boards) | sheet steel, galvanized

Designation	DA (mm)	l x w x h (mm)	Order no. OSRAM	Order no. Siteco
Backing plate	212	240 x 240 x 1	4039806189455	5LR91160BA

**Ceiling spacer adapter**

for ceilings with thickness:  $d < 5\text{mm}$  | sheet steel, galvanized

Designation	DA (mm)	Order no. OSRAM	Order no. Siteco
Spacer	212	4039806269065	5LR91360BB

**Plaster ring**

for clean ceiling openings in plaster ceilings | sheet steel, galvanized

Designation	DA (mm)	Order no. OSRAM	Order no. Siteco
Plaster ring	212	4039806189561	5LR91160BC



**Concrete casting box**

for ceiling void | for luminaire installation in poured concrete ceilings | sheet steel, galvanized | collar height: HR = 20mm

Designation	DA (mm)	l x w x h (mm)	Order no. OSRAM	Order no. Siteco
Concrete casting box	212	360 x 252 x 142	4039806269874	5LR91360BD

Note: use for plaster depth of max. 10mm

For planning, observe the installation instructions

Download: [www.siteco.com](http://www.siteco.com) (navigation: Notice sheet | rapid entry "order number" | click on "order number" in hits | click on "mounting instructions")



www.TESLI.com







**LED luminaires for suspended, ceiling surface or ceiling recessed mounting**



Lunis R® LED  
Page 6.3



Lunis R® LED  
Page 6.3



LEAF-Pendant LED  
Page 6.13



LEAF-Ceiling LED  
Page 6.13

**Luminaires for suspended, ceiling surface or ceiling recessed mounting**



Lunis R®  
Page 6.17



Lunis R®  
Page 6.17

**Wall luminaires**



Future® 5MS  
Page 6.39



Europlex® TC  
Page 6.41



TRESOL® Bloc  
Page 6.45

**LED luminaires for ceilings or walls**



LED RONDEL  
Page 6.47



CALYX® Spot  
Page 6.51



QOD® M  
CEILING  
Page 6.55



QOD® M | QOD® L  
Page 6.57

**Luminaires for ceilings or walls**



OSRAM DULUX®  
RONDEL  
Page 6.59



OSRAM DULUX®  
CARRÉ  
Page 6.59



Europlex® TC  
cambered  
Page 6.63



Europlex® TC  
flat  
Page 6.67



LUMILUX  
FLATLITE®  
T5 F/P  
Page 6.71



OSRAM  
SOFTLITE® EL  
Page 6.73

**Linear luminaires for ceiling surface or suspended mounting**



LUMILUX DUO® EL  
Page 6.75



LUMILUX DUO® EL  
prismatic  
Page 6.75



Europlex®  
prismatic  
Page 6.79



Europlex®  
opal  
Page 6.79



## Lunis R<sup>®</sup> LED



The compact luminaires from the Lunis R<sup>®</sup> LED family with a construction height of only 70 mm are efficient LED lighting tools for a wide range of applications. A special module in the center of the luminaire accommodates additional components such as loudspeakers, colored LED modules or a supplementary light source. This means the Lunis R<sup>®</sup> LED is not only suitable for general spatial lighting but can also take on additional lighting tasks in offices, retail areas and public zones. Three optical covers are available: a CAT2 C-louver, a transparent collector lens and an opal diffuser. All versions of the Lunis R<sup>®</sup> LED range feature a DALI interface as standard.

Rapid advances in LED technology lead to permanent improvements in energy efficiency. We utilize this with these luminaires to reduce power consumption with identical luminous flux. The latest specific values can be found in the photometric report of each product and in the current download files of the lighting planning data.



### Features

- luminaire with modular design, for surface mounting, suspended mounting or ceiling recessing depending on version
- minimal influence of ceiling appearance due to compact design
- especially flat construction with height 70mm
- efficient LED technology with service life up to 50,000h
- DALI integration as standard
- optical enclosures for various light characteristics and applications in offices, shops and public areas (installed without tools)
- various additional functions for the central module can be optionally implemented

### Lighting technology

Circular downlight with highly specular reflector system of ultra-pure aluminum (Al 99.98%), direct wide distribution. The lighting characteristic is defined via supplementary elements:

- CAT2 C-louver, highly specular iridescence-free vaporized, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- C-louver, wide distribution | white aluminum or pure white
- opal diffuser, wide distribution for soft, spatial light
- transparent collector lens with circular prisms, narrow distribution

### Electrics

Luminaire wired ready for connection | with 5-pole connection terminal for circular downlight (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

**Version for ceiling recessing:** separate CG unit with connection terminal | CG unit and circular downlight with fixed wiring, length = 0.5m

### Housing

Modular construction consisting of circular downlight and various optical covers | version for ceiling surface mounting: housing and reflector for circular downlight of ultra-pure aluminum (Al 99.98%), white aluminum (RAL 9006) or pure white (RAL 9010) housing

**Version for ceiling recessing:** with separate gearbox for placing or suspending in ceiling void; reflector of circular downlight of ultra-pure aluminum (Al 99.98%), used also as self-supporting, weight-optimized unit for installing central modules | flat reflector fringe, highly specular anodized, as transition to ceiling | three-point fastlock mounting without tools for 2...40mm ceiling thicknesses | louver of high-grade polymer, aluminized or coated; transparent collector lens of PMMA; opal diffuser of toughened safety glass | louver and cover installed without tools; the louver is held with spring catches, the cover via the ring of the central module in the luminaire housing



## Flexible system or specialized individual solution?

Each lighting task has its individual requirements. An intelligently designed modular system that allows the configuring of variations for differing tasks in a simple manner means a quick, cost-effective and clever solution.



### Always the right solution: the Lunis R® LED modular system

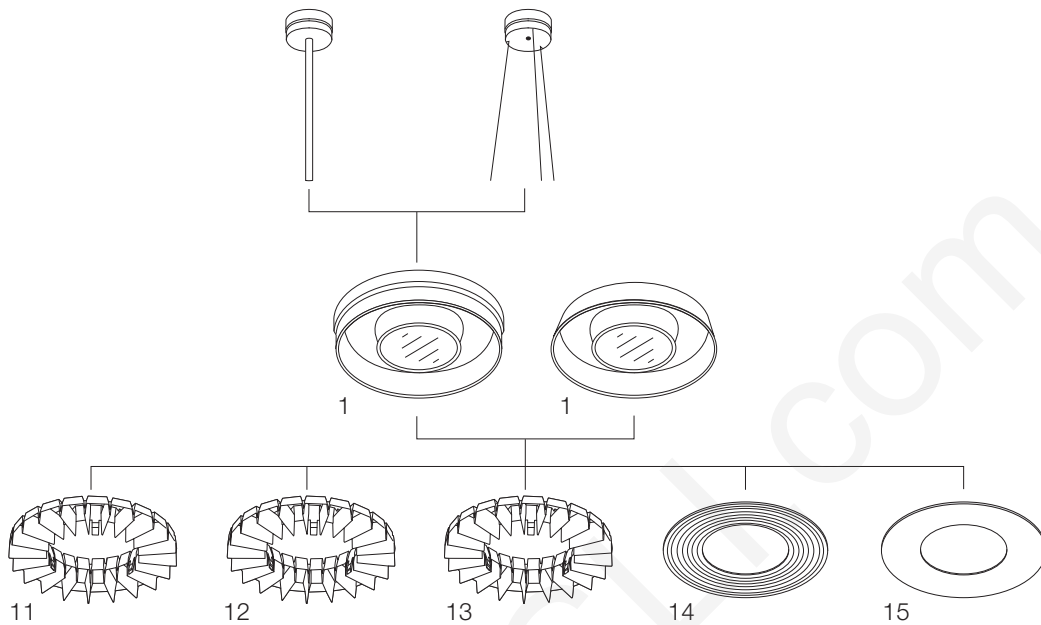
The Lunis R® LED modular system is based upon a self-supporting reflector system with LED in two color temperatures (3000K and 4000K). Lunis R® LED offers two luminaire platforms for recessed or surface-mounted installation. The photometrics of the luminaires are also defined by the optical enclosure. A wide light distribution is achieved with the opal glass diffuser. The C-louver enables a wide distribution with glare control according to CAT2 (for VDU-compliant lighting).

A collector lens for narrow distribution can be used for applications in higher rooms or for accenting tasks. The optical enclosure is ordered as a separate accessory and can be

conveniently and quickly integrated into the luminaire platform without tools. Fundamentally, decorative covers, a further downlight, air-handling elements, sprinkler outlets and loudspeakers can be accommodated by the central area.

In order to project-specifically cater for individual needs, we have defined an interface with the central ring to allow an uncomplicated adaptation to a diverse range of functional elements. We aim here to find optimal solutions for each specific problem in cooperation with you.

# The Lunis R<sup>®</sup> LED modular system

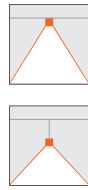


## Circular downlight with various central modules

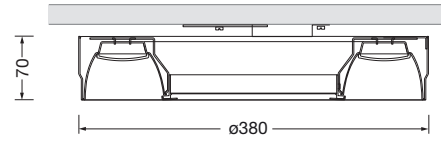
1	Central module	cover plate, coated	Page 6.7
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## Optical enclosure for circular downlight

11	CAT2 C-louver	highly specular	6.9
12	C-louver	pure white (RAL 9010)	6.9
13	C-louver	white aluminum (RAL 9006)	6.9
14	Collector lens	transparent	6.10
15	Diffuser disc	opal	6.9

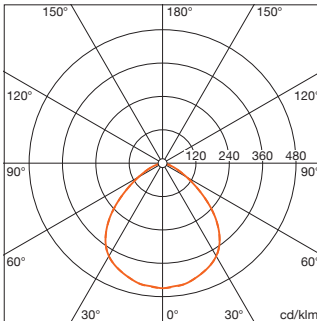


LED



4050737099613  
5LR611DEOA41AF

1 x LED 4000K / CRI ≥ 80  $\phi_N$  3720 lm



$I_{max}$  450 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 1888
L <sub>70</sub> 6096
L <sub>65</sub> 7676

$\alpha_{50\%}$  2 x 48.2°  
 $\alpha_{10\%}$  2 x 69.4°

UGR 22.1 22.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	4.47	418	243
3	6.71	186	108
4	8.95	105	61
5	11.18	67	39
6	13.42	46	27

No. of luminaires in room

Reflection factors 70/50/20

$E_m$ (lx)	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.7	3.6	4.1
30 m <sup>2</sup>	1.1	1.2	2.2	2.5	5.5	6.2
40 m <sup>2</sup>	1.4	1.6	2.9	3.1	7.1	7.9
50 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.6	9.4
75 m <sup>2</sup>	2.5	2.7	5.1	5.4	13	14
100 m <sup>2</sup>	3.3	3.5	6.6	7.0	16	18
500 m <sup>2</sup>	15	16	31	32	77	79

Maintenance factor 0.8

$R_h = L_h$

**Lunis R® LED | for ceiling surface mounting or suspended mounting central module with coated cover plate | direct wide distribution**

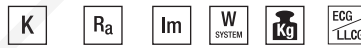
Downlight for ceiling surface mounting or suspended mounting, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; direct distribution
- with ECG DALI

- housing and reflector of aluminum, housing white aluminum (RAL 9006) or pure white (RAL 9010)
- central module: with perforated sheet steel cover, color identical to downlight housing
- protection rating: IP20
- insulation class: I



**Light source**



Order no. OSRAM

Order no. Siteco

White aluminum (RAL 9006)

LED	3000	>80	3420	42	2.2	DALI	4050737099576	5LR611DCOA41AF
LED	4000	>80	3720	42	2.2	DALI	4050737099613	5LR611DEOA41AF

Pure white (RAL 9010)

LED	3000	>80	3420	42	2.2	DALI	4050737099552	5LR611DCOA31AE
LED	4000	>80	3720	42	2.2	DALI	4050737099590	5LR611DEOA31AE

- please order lighting technology (louver or panel) for circular downlight separately
- please order suspension separately if required

**Accessories (for details see page 6.9 ff.)**

**Designation**

Wt. (kg)

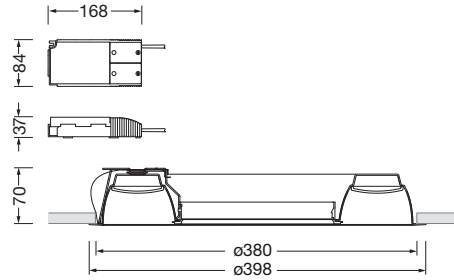
Order no. OSRAM

Order no. Siteco

C-louver, CAT2 ( $L \leq 1000$ cd/m <sup>2</sup> ), highly specular	0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)	0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)	0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish	1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution	0.7	4039806161185	5LR94683DT

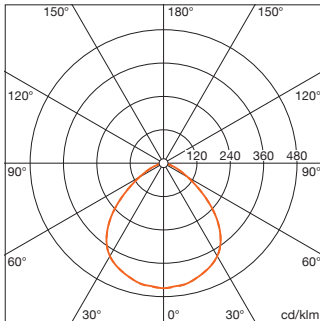


LED



4050737099538  
5LR610DEOA11AF

1 x LED 4000K / CRI ≥ 80  $\Phi_N$  3720 lm



$I_{max}$  450 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 1888
L <sub>70</sub> 6096
L <sub>65</sub> 7676

$\alpha_{50\%}$  2 x 48.2°  
 $\alpha_{10\%}$  2 x 69.4°

UGR 22.1 22.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	4.47	418	243
3	6.71	186	108
4	8.95	105	61
5	11.18	67	39
6	13.42	46	27

No. of luminaires in room		Reflection factors 70/50/20					
$E_m$ (lx)	100	200	500				
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	
20 m²	0.7	0.8	1.4	1.7	3.6	4.1	
30 m²	1.1	1.2	2.2	2.5	5.5	6.2	
40 m²	1.4	1.6	2.9	3.1	7.1	7.9	
50 m²	1.7	1.9	3.4	3.8	8.6	9.4	
75 m²	2.5	2.7	5.1	5.4	13	14	
100 m²	3.3	3.5	6.6	7.0	16	18	
500 m²	15	16	31	32	77	79	

Maintenance factor 0.8  $R_h = L_h$

**Lunis R® LED | for ceiling surface mounting central module with coated cover plate | wide distribution**

Downlight for recessed ceiling mounting, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; direct distribution; no light spill to ceiling cavity
- exterior CG unit with ECG DALI

- reflector and visible reflector fringe of aluminum, highly specular
- central module: with perforated sheet steel cover, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: downlight: II control unit: I



**Light source**

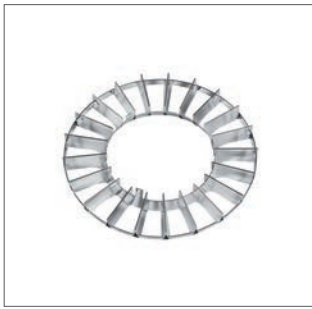
	K	R <sub>a</sub>	lm	W SYSTEM	LLG	ECG LLLG	Order no. OSRAM	Order no. Siteco
LED	3000	>80	3420	42	2.1	DALI	4050737099514	5LR610DCCOA11AF
LED	4000	>80	3720	42	2.1	DALI	4050737099538	5LR610DEOA11AF

- please order lighting technology (louver or panel) for circular downlight separately

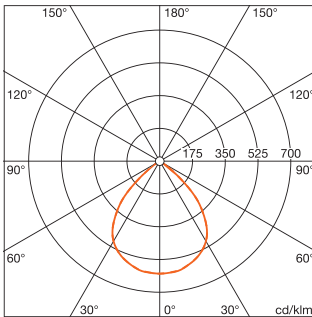
**Accessories (for details see page 6.9 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m²), highly specular	0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)	0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)	0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish	1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution	0.7	4039806161185	5LR94683DT

**Lunis R® LED optical accessories**



4050737099613 + 4039806194336  
5LR611DEOA41AF+5LR94681CE  
1 x LED 840  $\phi$ N 2820 lm



$\eta_{LB}$  100%  
 $I_{max}$  601 cd/klm at  $\gamma$  0°

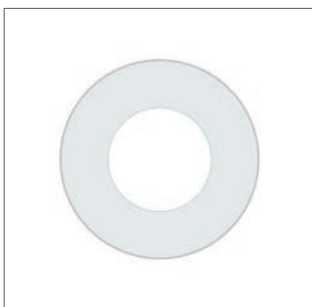
**CAT2 C-louver**

highly specular iridescence-free, CAT2 ( $L \leq 1000\text{cd/m}^2$ ) | high-grade polymer, aluminized

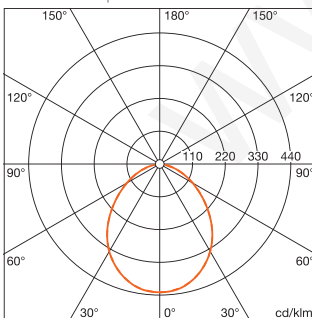
**C-louver**

matt wide distribution | white aluminum or pure white | high-grade polymer

Designation	Order no. OSRAM	Order no. Siteco
CAT2 C-louver, highly specular	4039806194336	5LR94681CE
C-louver, pure white (RAL 9010)	4039806232762	5LR94684CE
C-louver, white aluminum (RAL 9006)	4039806232786	5LR94688CE



4050737099613 + 4039806161208  
5LR611DEOA41AF + 5LR94685EE  
1 x LED 840  $\phi$ N 2970 lm



$\eta_{LB}$  100%  
 $I_{max}$  431 cd/klm at  $\gamma$  0°

**Opal diffuser disc**

for soft spatial light | toughened safety glass

Designation	Order no. OSRAM	Order no. Siteco
Diffuser disc	4039806161208	5LR94685EE





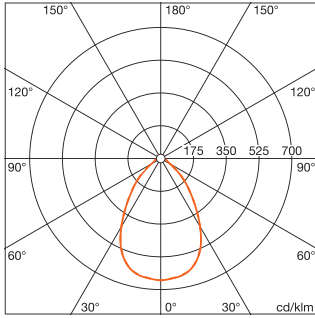
**Transparent collector lens**

with circular prisms for narrow distribution | PMMA

Designation	Order no. OSRAM	Order no. Siteco
Collector lens	4039806161185	5LR94683DT

4050737099613 + 4039806161185  
5LR611DEOA41AF+5LR94683DT

1 x LED 840  $\phi$ N 2940 lm



$\eta_{LB}$  100%  
 $I_{max}$  650 cd/klm at  $\gamma$  0°

**Lunis R® LED mounting accessories for suspended mounting**



**Wire suspension**

triple suspension with height adjustment up to 1.5m | incl. ceiling mounting element, canopy and connection cable with transparent insulation

Designation	Order no. OSRAM	Order no. Siteco
Canopy, white		
with connection cable, 3-core	4039806161444	5LR926800M
with connection cable, 5-core	4039806219589	5LR926800P
Canopy, graphite		
with connection cable, 3-core	4039806161581	5LR926800N
with connection cable, 5-core	4039806221377	5LR926800G



**Pendant suspension**

suspension height = 1.0m  
pendant: D = 13mm | incl. ceiling mounting element, canopy, back plate on luminaire side, connection cable and terminals

Designation	Order no. OSRAM	Order no. Siteco
Suspension, white		
with connection cable, 3-core	4039806255709	5LR92204BS
with connection cable, 5-core	4039806256935	5LR92204BT
Suspension, graphite		
with connection cable, 3-core	4039806256959	5LR92208BS
with connection cable, 5-core	4039806256973	5LR92208BT

### Lunis R® LED mounting accessories for ceiling recessing



#### Module plate

for installing luminaire in panel ceilings, module 100 | sheet steel, pure white (RAL 9010)

Designation	DA (mm)	L x W x H (mm)	Module	Order no. OSRAM	Order no. Siteco
Mounting plate	380	487 x 487 x 23	Width 5	4039806194664	5LR91684BG



#### Mounting plate, module 625

to support weight of luminaire on ceiling structure (module 625) | sheet steel, galvanized

Designation	DA (mm)	L x W x H (mm)	Order no. OSRAM	Order no. Siteco
Mounting plate	380	620 x 500 x 25	4039806194640	5LR91680BJ



#### Plaster ring

for clean ceiling openings in plaster ceilings | sheet steel, galvanized

Designation	DA (mm)	Order no. OSRAM	Order no. Siteco
Plaster ring	380	4039806194688	5LR91680BC



#### Concrete casting box

for ceiling void | for luminaire installation in poured concrete ceilings | sheet steel, galvanized | collar height: HR = 20mm

Designation	DA (mm)	L x W x H (mm)	Order no. OSRAM	Order no. Siteco
Concrete casting box	380	536 x 410 x 105	4039806194626	5LR91680BD

Note: use for plaster depth of max. 20mm

For planning, observe the installation instructions

Download: [www.siteco.com](http://www.siteco.com) (navigation: Notice sheet | rapid entry "order number" | click on "order number" in hits | click on "mounting instructions")



## LEAF-Ceiling LED and LEAF-Pendant LED



The LED luminaires of the LEAF family are available for either ceiling surface mounting or suspending. They have a characteristically slender form that enables the LED luminaires to blend elegantly into their application situations. The diffuse-distribution opal cover combined with efficient and durable LED technology ensures uniform illumination and good visual comfort.

### Features

- modern, slender single luminaire
- energy-saving thanks to LED technology
- as a surface-mounted luminaire or for variable suspension up to max. 1.5m
- dimmable with standard reverse phase dimmers
- warm white light color

### Lighting technology

Opal cover, diffuse distribution

### Electrics

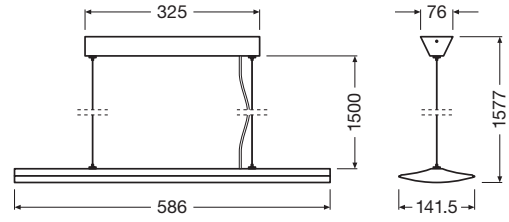
Fixed connection with connection terminal, 2x max. 0.75mm<sup>2</sup> | side cable entry or on rear | dimmable with standard reverse phase dimmers

### Housing

PC housing, highly specular white upper, silver end caps | canopy for ECG of PC, white

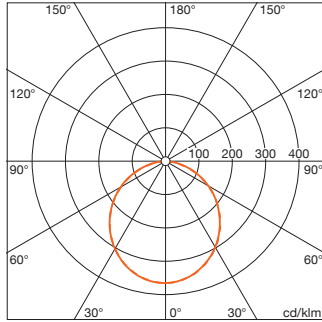


LED



4052899908468  
OML2417L18835

1 x LED cw  $\phi$ N 1064 lm



**LEAF-Pendant LED**  
for suspended mounting | diffuse distribution

Single luminaire for suspended mounting

- diffuse distribution
- with opal cover
- with ECG
- PC housing, highly specular white upper, silver end caps

- cover of PC
- canopy for ECG of PC, white
- protection rating: IP20
- insulation class: II
- incl. Y-wire suspension with height adjustment to max. 1500mm



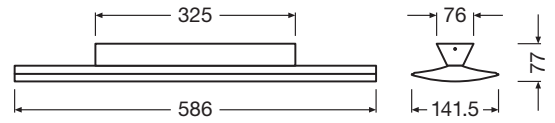
**Light source**

	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG L LCG	Order no. OSRAM	Order no. Siteco
LED	3375	> 80	1100	18	1.2	ECG	4052899908468	OML2417L18835

- information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

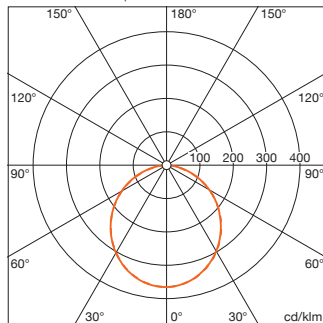


LED



4052899908451  
OML2517L18835

1 x LED cw  $\phi$ N 1064 lm



**LEAF-Ceiling LED**  
for ceiling surface mounting | diffuse distribution

Single luminaire for ceiling mounting

- diffuse distribution
- with opal cover
- with ECG

- PC housing, highly specular white upper, silver end caps
- cover of PC
- protection rating: IP20
- insulation class: II



Light source

	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3375	> 80	1100	18	1.1	ECG	4052899908451	OML2517L18835

- information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25





# Lunis R<sup>®</sup>



The compact, only 70 mm high surface-mounted and recessed downlights of the Lunis R<sup>®</sup> family are characterized by a combination of a high-performance, energy-efficient T16 circular fluorescent lamp and various optical accessories. A special module in the center of the luminaire accommodates additional components such as loudspeakers, colored LED elements or a supplementary light source. The recessed downlight provides targeted accent lighting for retail, office or public areas.

## Features

- luminaire with modular design, for surface mounting, suspended mounting or ceiling recessing depending on version
- least possible influence of ceiling appearance due to compact design and purist appearance
- flat construction with 70 mm height
- optical covers for various light beam patterns and applications in offices, shops and public areas
- with Lunis R<sup>®</sup> surface-mounted downlight: decorative color effects of indirect light component due to color filter segments
- with Lunis R<sup>®</sup> recessed downlight: supplementary accent lighting via downlight in central area of the luminaire
- supplementary functions (acoustics) can be integrated into the central module
- with Lunis R<sup>®</sup> recessed downlight: electrical unit separate from the reflector unit for random positioning in the ceiling void, achieving minimum ceiling loads
- tool-free mounting of optical cover; tool-free relamping

### Lighting technology

Circular downlight with highly specular reflector system of ultra-pure aluminum (Al 99.98%) | version for ceiling surface mounting:

direct/indirect distribution; with decorative colored indirect component via color filter segments or direct distribution via stray-light baffle | version for ceiling recessing: no light spill to ceiling void due to stray-light baffle

The lighting characteristic is defined via supplementary elements:

- CAT2 C-louver, highly specular iridescence-free vaporized, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- C-louver, wide distribution | coated white aluminum or pure white
- opal diffuser, wide distribution for soft, spatial light
- transparent collector lens with circular prisms, narrow distribution
- stray-light baffle, black (for direct light distribution)
- decorative color effects via color filter segments or LED central module
- color filter segments; red, orange, green, blue, opal or red/orange/blue for colored indirect component with surface mounting or suspended mounting
- central module with LED for direct distribution decorative color effects; red, green, blue, white light; opal color when switched off
- central module with miniature fluorescent lamp with opal diffuser, direct distribution

### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal for circular downlight (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal; with single battery: 3-pole for "normal mains" + 1-pole for additional unswitched phase), max. 2.5mm<sup>2</sup>

**Version for ceiling recessing:** separate CG unit with connection terminal | CG unit and circular downlight with fixed wiring,  $l = 0.5 \text{m}$  | central modules with electrical function with own control gear and separate connection terminal

### Housing

Modular design consisting of circular downlight, various optical enclosures and a large selection of central modules

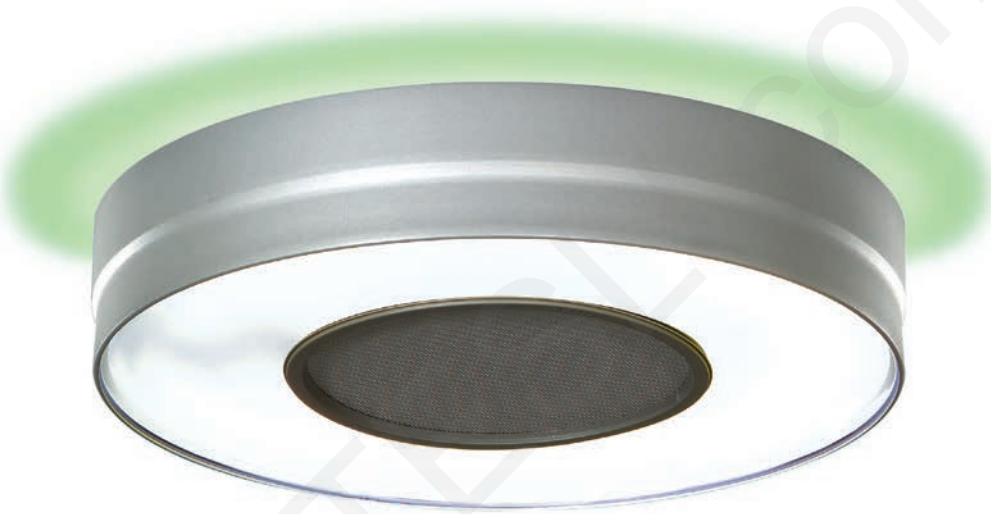
**Version for ceiling surface mounting:** housing and reflector for circular downlight of ultra-pure aluminum (Al 99.98%), white aluminum (RAL 9006) or pure white (RAL 9010) housing

**Version for ceiling recessing:** with separate gearbox for placing or suspending in ceiling void; reflector of circular downlight of ultra-pure aluminum (Al 99.98%), used also as self-supporting, weight-optimized unit for installing central modules | flat reflector fringe, highly specular anodized, as transition to ceiling | three-point fastlock mounting without tools for 2...40mm ceiling thicknesses | louver of high-grade polymer, aluminized or coated; transparent collector lens of PMMA; opal diffuser of toughened safety glass | louver and cover installed without tools; the louver is held with spring catches, the cover via the ring of the central module in the luminaire housing; central modules with differing designs, optionally with broadband loudspeaker; with LED module, with miniature fluorescent lamp or with cover of sheet steel; with the recessed version also as a mounting platform (without cover) for masking with ceiling material, or with supplementary downlight | stray-light baffle and color filter segments of PC



## Flexible system or specialized individual solution?

Each lighting task has its individual requirements. An intelligently designed modular system that allows the configuring of variations for differing tasks in a simple manner means a quick, cost-effective and clever solution.



### Always the right solution: the Lunis R® modular system

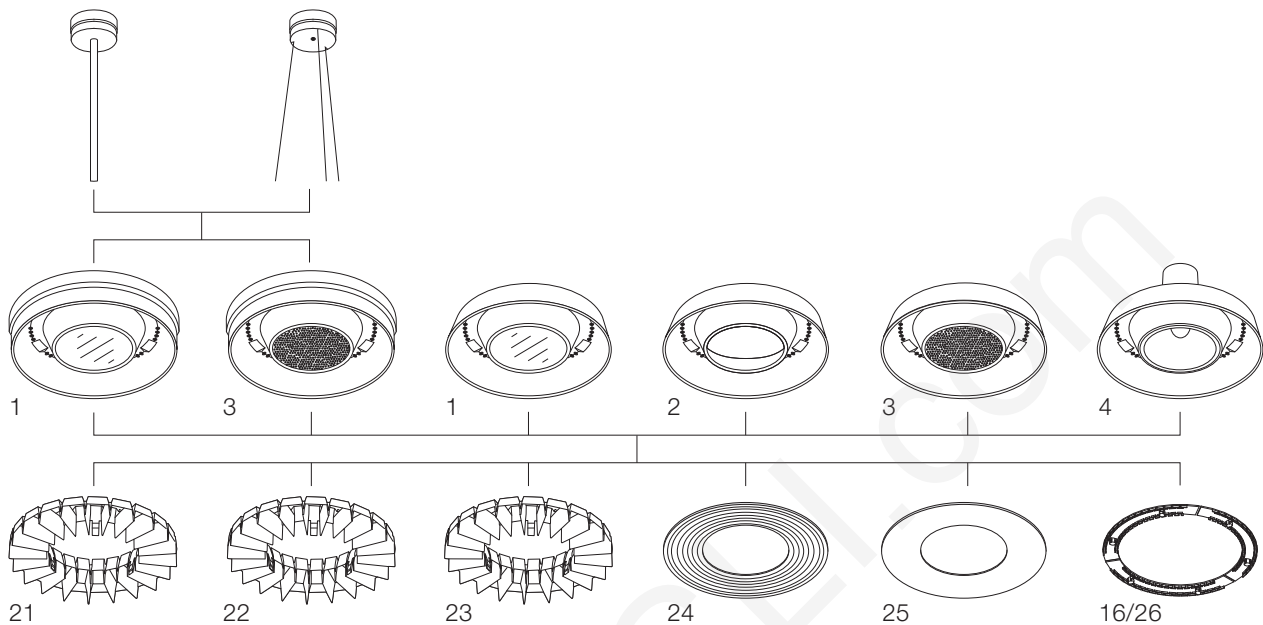
The Lunis R® modular system is based upon a self-supporting reflector system for T16-R circular lamps with 300mm diameter, i.e. for 40W or 55W wattages. Lunis R® offers two luminaire platforms for recessed or surface-mounted installation. The photometrics of the luminaires are defined by the optical enclosure. A wide light distribution is achieved with the opal glass diffuser. The C-louver enables a wide distribution with glare control according to CAT2 (for VDU-compliant lighting).

A collector lens for narrow distribution can be used for applications in higher rooms or for accenting tasks. The optical enclosure is ordered as a separate accessory and can be conveniently and quickly integrated into the luminaire platform without tools. Fundamentally, decorative covers, a further downlight, air-handling elements, sensors or detectors, sprinkler outlets and loudspeakers can be accommodated by the central area. We offer several of these elements as series products in our ranges.

In addition to purely direct distribution systems, systems with indirect ceiling illumination are also available for surface-mounted and suspended variations. A particular feature is the simple clipping-on of filter elements offered as separate accessories to color-influence the indirect component.

In order to project-specifically cater for individual needs, we have defined an interface with the central ring to allow an uncomplicated adaptation to a diverse range of functional elements. We aim here to find optimal solutions for each specific problem in cooperation with you.

# The Lunis R<sup>®</sup> modular system



## Circular downlight with various central modules

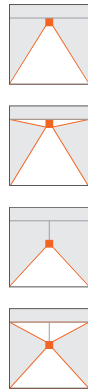
		Page
1	Central module	
	cover plate, coated	6.21
	miniature fluorescent lamp, white light	6.23
	LED, red, yellow, green, blue or white light	6.24
2	Central module	
	aluminum mounting platform (for customer-specific cover, on-site)	6.27
3	Central module	
	loudspeaker	6.25
4	Central module	
	downlight TC	6.31

## Optical enclosure for circular downlight

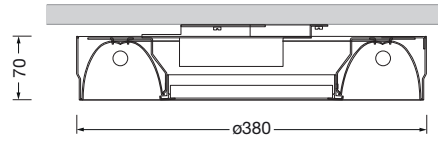
21	CAT2 C-louver	highly specular	6.34
22	C-louver	pure white (RAL 9010)	6.34
23	C-louver	white aluminum (RAL 9006)	6.34
24	Collector lens	transparent	6.35
25	Diffuser disc	opal	6.34

## Optical enclosure for indirect component

16	Color filter segments	for colored indirect component	6.35
26	Stray-light baffle	for direct light distribution	6.35



T16-R  
2GX13



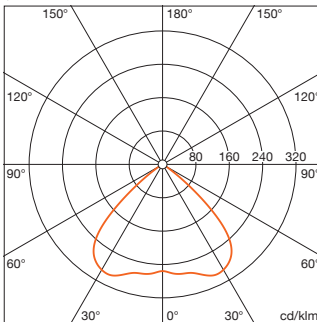
4039806158048 + 4039806194336  
5LR61271TA41AF + 5LR94681CE  
1 x T16-R-RI 55W/840 (Amalgam)  
φ 4400 lm

**Lunis R® for ceiling surface mounting or suspended mounting  
central module with coated cover plate**

Downlight for ceiling surface mounting or suspended mounting, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; choice of direct/indirect distribution, direct distribution via stray-light baffle or direct distribution with colored indirect component via color filter segments
- with ECG

- housing and reflector of aluminum, housing white aluminum (RAL 9006) or pure white (RAL 9010)
- central module: with perforated sheet steel cover, color identical to downlight housing
- protection rating: IP20
- insulation class: I
- without optical enclosure for circular downlight



η<sub>LB</sub> 59.8%  
I<sub>max</sub> 293 cd/klm at γ 25°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	420
L <sub>70</sub>	177
L <sub>65</sub>	267

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.2°

UGR 17.1 17.1  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	4.37	284	195
3	6.55	126	87
4	8.73	71	49
5	10.91	45	31
6	13.10	32	22

No. of luminaires in room						
Reflection factors 70/50/20						
E <sub>m</sub> (lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.1	1.8	2.1	4.6	5.3
30 m <sup>2</sup>	1.5	1.6	2.9	3.3	7.3	8.2
40 m <sup>2</sup>	1.9	2.1	3.8	4.2	9.5	11
50 m <sup>2</sup>	2.3	2.5	4.6	5.0	11	13
75 m <sup>2</sup>	3.4	3.7	6.8	7.4	17	18
100 m <sup>2</sup>	4.5	4.8	8.9	9.5	22	24
500 m <sup>2</sup>	21	22	43	44	107	110

Maintenance factor 0.8 Rh = Lh



**Light source**

Luminaire housing, white aluminum (RAL 9006), central module, fixed cover, perforated

				Order no. OSRAM	Order no. Siteco
1x T16-R 40 W	2GX13	1.9	ECG	4039806158000	5LR61271SA41AF
1x T16-R 40 W	2GX13	1.9	DALI	4039806205445	5LR612D1SA41AF
1x T16-R 40 W	2GX13	1.9	1...10V	4039806158161	5LR61261SA41AF
1x T16-R 55 W	2GX13	1.7	ECG	4039806158048	5LR61271TA41AF
1x T16-R 55 W	2GX13	1.7	DALI	4039806234254	5LR612D1TA41AF
1x T16-R 55 W	2GX13	1.9	1...10V	4039806158208	5LR61261TA41AF

Luminaire housing, pure white (RAL 9010), central module, fixed cover, perforated

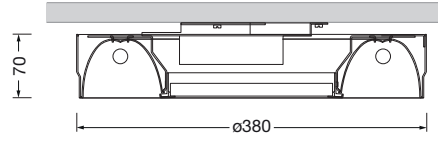
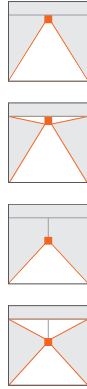
				Order no.	Order no.
1x T16-R 40 W	2GX13	1.9	ECG	4039806157669	5LR61271SA31AE
1x T16-R 40 W	2GX13	1.9	DALI	4039806503114	5LR612D1SA31AE
1x T16-R 40 W	2GX13	1.9	1...10V	4039806157829	5LR61261SA31AE
1x T16-R 55 W	2GX13	1.9	ECG	4039806157706	5LR61271TA31AE
1x T16-R 55 W	2GX13	2.0	DALI	4039806219565	5LR612D1TA31AE

- please order lighting technology (louver, panel, stray-light baffle and color filters) for circular downlight separately
- please order suspension separately if required

**Mandatory accessories (for details see page 6.34 ff.)**

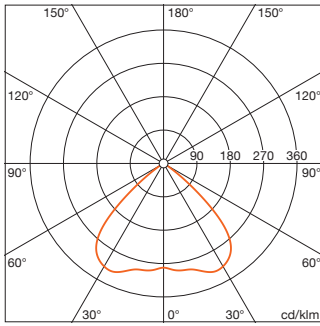
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular	0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)	0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)	0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish	1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution	0.7	4039806161185	5LR94683DT





4039806437105 + 4039806194336  
5LR61271SA41AF02 +  
5LR94681CE

1 x T16-RI 40W/840 (Amalgam)  
φ 3300 lm



η<sub>LB</sub> 65.7%  
I<sub>max</sub> 322 cd/klm at γ 25°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	346
L <sub>70</sub>	146
L <sub>65</sub>	220

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.2°

UGR 16.4 16.4  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	Em(lx)
2	4.37	234	161
3	6.55	104	71
4	8.73	59	40
5	10.91	37	26
6	13.10	26	18

Lh(m)	Reflection factors 70/50/20				Em(lx)	
	100	200	500	100	200	500
20 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.6	6.4
30 m <sup>2</sup>	1.8	2.0	3.5	4.0	8.9	10.0
40 m <sup>2</sup>	2.3	2.5	4.6	5.1	12	13
50 m <sup>2</sup>	2.8	3.1	5.6	6.1	14	15
75 m <sup>2</sup>	4.1	4.5	8.3	8.9	21	22
100 m <sup>2</sup>	5.4	5.8	11	12	27	29
500 m <sup>2</sup>	26	27	52	53	130	134

Maintenance factor 0.8 Rh = Lh

**Lunis R® for ceiling surface mounting or suspended mounting with single battery | central module with coated cover plate**

Downlight for ceiling surface mounting or suspended mounting, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; choice of direct/indirect distribution, direct distribution via stray-light baffle or direct distribution with colored indirect component via color filter segments
- with ECG, additionally with single battery

- housing and reflector of aluminum, housing white aluminum (RAL 9006) or pure white (RAL 9010)
- central module: with perforated sheet steel cover, color identical to downlight housing
- protection rating: IP20
- insulation class: I
- without optical enclosure for circular downlight

**Electrics**

Luminaire for operation on "normal mains" or via the integral single battery supply

- luminaire wired ready for connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase for single battery)
- switched phase and unswitched phase must have same phase angle
- single battery for 1h operating duration with reduced luminous flux
- with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



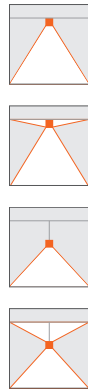
**Light source**

Light source	Order no. OSRAM	Order no. Siteco
Luminaire housing, white aluminum (RAL 9006), central module, fixed cover, perforated		
1x T16-R 40 W 2GX13 2.4 ECG	4039806437105	5LR61271SA41AF02
Luminaire housing, pure white (RAL 9010), central module, fixed cover, perforated		
1x T16-R 40 W 2GX13 2.4 ECG	4039806503107	5LR61271SA31AE02

- please order lighting technology (louver, panel, stray-light baffle and color filters) for circular downlight separately
- please order suspension separately if required

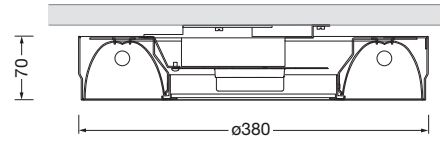
**Mandatory accessories (for details see page 6.34 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular	0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)	0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)	0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish	1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution	0.7	4039806161185	5LR94683DT

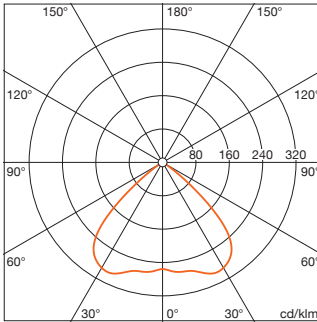


T16-R  
2GX13

TCR-TSE  
flat  
GX53



4039806422262 + 4039806194336  
5LR61271TA44EF + 5LR94681CE  
1 x T16-R-I 55W/840 (Amalgam)  
φ 4400 lm



η<sub>LB</sub> 59.8%  
I<sub>max</sub> 293 cd/klm at γ 25°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 420  
L<sub>70</sub> 177  
L<sub>65</sub> 267

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.2°

UGR 17.1 17.1  
X 4H Y 8H ρ 70/50/20 S 0.25H

**Lunis R® for ceiling surface mounting or suspended mounting central module with miniature fluorescent lamp**

Downlight for ceiling surface mounting or suspended mounting, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; choice of direct/indirect distribution, direct distribution via stray-light baffle or direct distribution with colored indirect component via color filter segments
- with ECG
- housing and reflector of aluminum, housing white aluminum (RAL 9006) or pure white (RAL 9010)

- central module: white light, with opal diffuser cover
- diffuser of PMMA; fitted into central ring, white or graphite (similar to RAL 7037)
- protection rating: IP20
- insulation class: I
- central module with miniature fluorescent lamp Sylvania Microlynx TCR-TSE 6W with integrated ECG
- without optical enclosure for circular downlight

**Electrics**

Central module separately switchable, with 3-pole connection terminal

Detailed information: see data sheet



**Light source**



**Central module**



Order no.  
**OSRAM**

Order no.  
**Siteco**

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	4.37	284	195
3	6.55	126	87
4	8.73	71	49
5	10.91	45	31
6	13.10	32	22

Luminaire housing, white aluminum (RAL 9006), central module, fixed cover, perforated

Light source	Central module	ECG	LLGG	Order no. OSRAM	Order no. Siteco	
1x T16-R 40 W	2GX13	1x TCR-TSE 6 W	GX53	2.6 ECG	4039806435910	5LR61271SA44EF
1x T16-R 55 W	2GX13	1x TCR-TSE 6 W	GX53	2.6 ECG	4039806422262	5LR61271TA44EF

Luminaire housing, pure white (RAL 9010), central module, opal

Light source	Central module	ECG	LLGG	Order no. OSRAM	Order no. Siteco	
1x T16-R 40 W	2GX13	1x TCR-TSE 6 W	GX53	2.6 ECG	4039806435903	5LR61271SA34EE
1x T16-R 55 W	2GX13	1x TCR-TSE 6 W	GX53	2.6 ECG	4039806435927	5LR61271TA34EE

- please order lighting technology (louver, panel, stray-light baffle and color filters) for circular downlight separately
- please order suspension separately if required

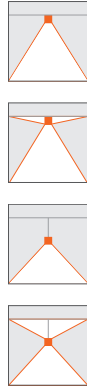
**No. of luminaires in room**

Reflection factors 70/50/20	Em(lx)			
	100	200	500	
Lh(m)	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.1	1.8	2.1
30 m <sup>2</sup>	1.5	1.6	2.9	3.3
40 m <sup>2</sup>	1.9	2.1	3.8	4.2
50 m <sup>2</sup>	2.3	2.5	4.6	5.0
75 m <sup>2</sup>	3.4	3.7	6.8	7.4
100 m <sup>2</sup>	4.5	4.8	8.9	9.5
500 m <sup>2</sup>	21	22	43	44

Maintenance factor 0.8 Rh = Lh

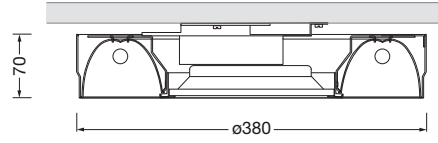
**Mandatory accessories (for details see page 6.34 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular	0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)	0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)	0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish	1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution	0.7	4039806161185	5LR94683DT

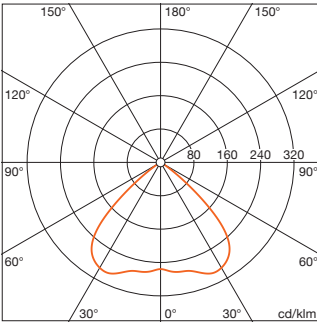


T16-R  
2GX13

LED



4039806435750 + 4039806194336  
5LR61271TA43WJ + 5LR94681CE  
1 x T16-Rl 55W/840 (Amalgam)  
φ 4400 lm



η<sub>LB</sub> 59.8%  
I<sub>max</sub> 293 cd/klm at γ 25°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 420  
L<sub>70</sub> 177  
L<sub>65</sub> 267

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.2°

UGR 17.1 17.1  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	4.37	284	195
3	6.55	126	87
4	8.73	71	49
5	10.91	45	31
6	13.10	32	22

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(lx)		Em(lx)		Em(lx)	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.1	1.8	2.1	4.6	5.3
30 m <sup>2</sup>	1.5	1.6	2.9	3.3	7.3	8.2
40 m <sup>2</sup>	1.9	2.1	3.8	4.2	9.5	11
50 m <sup>2</sup>	2.3	2.5	4.6	5.0	11	13
75 m <sup>2</sup>	3.4	3.7	6.8	7.4	17	18
100 m <sup>2</sup>	4.5	4.8	8.9	9.5	22	24
500 m <sup>2</sup>	21	22	43	44	107	110

Maintenance factor 0.8 Rh = Lh

**Lunis R® for ceiling surface mounting or suspended mounting central module with LED**

Downlight for ceiling surface mounting or suspended mounting, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; choice of direct/indirect distribution, direct distribution via stray-light baffle or direct distribution with colored indirect component via color filter segments
- with ECG

- housing and reflector of aluminum, housing white aluminum (RAL 9006) or pure white (RAL 9010)
- central module: LED module with opal diffuser cover, LED depending on version with red, yellow, green, blue or white light
- with ECG, separately switchable
- diffuser of PMMA; fitted into central ring, graphite (similar to RAL 7037)
- protection rating: IP20
- insulation class: I
- without optical enclosure for circular downlight



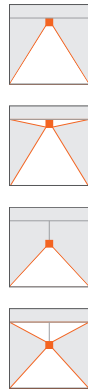
Light source	Central module	Weight (kg)	ECG	Order no. OSRAM	Order no. Siteco
ECG, luminaire housing, white aluminum (RAL 9006)					
1x T16-R 40 W	2GX13 LED R	2.5	ECG	4039806427045	5LR61271SA43KJ
1x T16-R 40 W	2GX13 LED G	2.5	ECG	4039806435705	5LR61271SA43MJ
1x T16-R 40 W	2GX13 LED B	2.5	ECG	4039806435712	5LR61271SA43NJ
1x T16-R 40 W	2GX13 LED nw	2.5	ECG	4039806435729	5LR61271SA43WJ
1x T16-R 55 W	2GX13 LED B	2.5	ECG	4039806207708	5LR61271TA43NJ
1x T16-R 55 W	2GX13 LED nw	2.5	ECG	4039806435750	5LR61271TA43WJ

ECG, luminaire housing, pure white (RAL 9010)					
1x T16-R 55 W	2GX13 LED G	2.5	ECG	4039806435811	5LR61271TA33MJ
1x T16-R 55 W	2GX13 LED nw	2.5	ECG	4039806435736	5LR61271TA33WJ

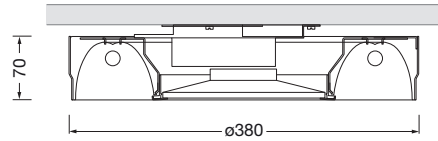
- LED in colors: R = red Y = yellow G = green B = blue nw = white
- please order lighting technology (louver, panel, stray-light baffle and color filters) for circular downlight separately
- please order suspension separately if required

**Mandatory accessories (for details see page 6.34 ff.)**

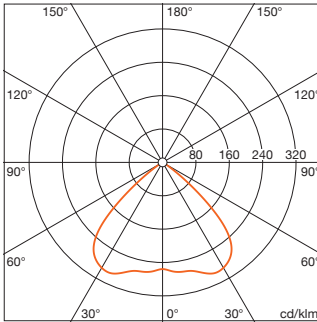
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular	0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)	0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)	0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish	1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution	0.7	4039806161185	5LR94683DT



T16-R  
2GX13



4039806233080 + 4039806194336  
5LR61271TA45CF + 5LR94681CE  
1 x T16-R-RI 55W/840 (Amalgam)  
φ 4400 lm



η<sub>LB</sub> 59.8%  
I<sub>max</sub> 293 cd/klm at γ 25°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 420  
L<sub>70</sub> 177  
L<sub>65</sub> 267

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.2°

UGR 17.1 17.1  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	4.37	284	195
3	6.55	126	87
4	8.73	71	49
5	10.91	45	31
6	13.10	32	22

No. of luminaires in room  
Reflection factors 70/50/20

E <sub>m</sub> (lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.1	1.8	2.1	4.6	5.3
30 m <sup>2</sup>	1.5	1.6	2.9	3.3	7.3	8.2
40 m <sup>2</sup>	1.9	2.1	3.8	4.2	9.5	11
50 m <sup>2</sup>	2.3	2.5	4.6	5.0	11	13
75 m <sup>2</sup>	3.4	3.7	6.8	7.4	17	18
100 m <sup>2</sup>	4.5	4.8	8.9	9.5	22	24
500 m <sup>2</sup>	21	22	43	44	107	110

Maintenance factor 0.8 Rh = Lh

**Lunis R® for ceiling surface mounting or suspended mounting central module with loudspeaker**

Downlight for ceiling surface mounting or suspended mounting, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; choice of direct/indirect distribution, direct distribution via stray-light baffle or direct distribution with colored indirect component via color filter segments
- with ECG

- housing and reflector of aluminum, housing white aluminum (RAL 9006) or pure white (RAL 9010)
- central module: broadband loudspeaker, for direct connection (8 ohms) or with transducer for 100V systems
- perforated sheet steel cover, color identical to downlight housing, padded with absorption felt
- protection rating: IP20
- insulation class: I
- without optical enclosure for circular downlight

- version with broadband loudspeaker: I = 8 Ohm/P<sub>max</sub> = 15W (recommended: P = 1.5...3W)
- version with transducer for 100V systems: with tapping for P= 1.5W/3W/6W

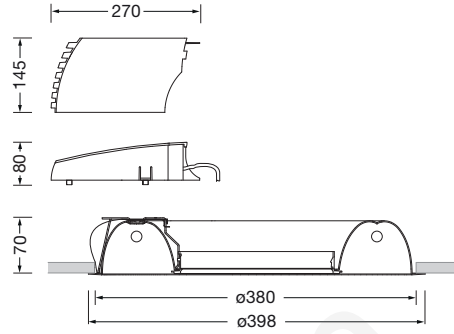


Light source	Central module	kg	ECG LLGG	Order no. OSRAM	Order no. Siteco
Luminaire housing, white aluminum (RAL 9006), central module, loudspeaker element					
1x T16-R 40 W	2GX13	8Ω	2.7	ECG 4039806205421	5LR61271SA45CF
1x T16-R 40 W	2GX13	100V	2.7	ECG 4039806435873	5LR61271SA45DF
1x T16-R 55 W	2GX13	8Ω	2.7	ECG 4039806233080	5LR61271TA45CF
1x T16-R 55 W	2GX13	100V	2.7	ECG 4039806240804	5LR61271TA45DF
Luminaire housing, pure white (RAL 9010), central module, loudspeaker element					
1x T16-R 40 W	2GX13	8Ω	2.7	ECG 4039806435842	5LR61271SA35CE
1x T16-R 40 W	2GX13	100V	2.7	ECG 4039806435859	5LR61271SA35DE
1x T16-R 55 W	2GX13	8Ω	2.7	ECG 4039806415103	5LR61271TA35CE
1x T16-R 55 W	2GX13	100V	2.7	ECG 4039806418630	5LR61271TA35DE

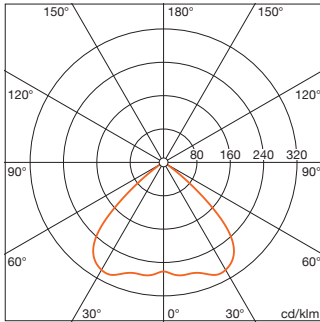
- please order lighting technology (louver, panel, stray-light baffle and color filters) for circular downlight separately
- please order suspension separately if required

**Mandatory accessories (for details see page 6.34 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular	0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)	0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)	0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish	1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution	0.7	4039806161185	5LR94683DT



4039806157485 + 4039806194336  
5LR61071TA11AF + 5LR94681CE  
1 x T16-RI 55W/840 (Amalgam)  
φ 4400 lm



η<sub>LB</sub> 60.5%  
I<sub>max</sub> 298 cd/klm at γ 30°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 75
L <sub>70</sub> 111
L <sub>65</sub> 231

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.0°

UGR 17.2 17.2  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	Em(lx)
2	4.37	293	199
3	6.55	130	88
4	8.73	73	50
5	10.91	47	32
6	13.10	33	22

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0		
20 m <sup>2</sup>	0.9	1.0	1.8	2.1	4.5	5.2
30 m <sup>2</sup>	1.4	1.6	2.9	3.3	7.2	8.1
40 m <sup>2</sup>	1.9	2.1	3.7	4.1	9.4	10
50 m <sup>2</sup>	2.3	2.5	4.5	5.0	11	12
75 m <sup>2</sup>	3.4	3.6	6.7	7.3	17	18
100 m <sup>2</sup>	4.4	4.7	8.8	9.4	22	23
500 m <sup>2</sup>	21	22	42	43	106	109

Maintenance factor 0.8 Rh = Lh

**Lunis R® for ceiling recessing central module with coated cover plate**

Downlight for ceiling recessing, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; no light spill to ceiling cavity due to stray-light blocker
- separate CG unit with ECG
- reflector and visible reflector fringe of aluminum, highly specular

- CG unit: cover of PC; baseplate of sheet steel
- central module: with perforated sheet steel cover, white aluminum (RAL 9006) or pure white (RAL 9010)
- protection rating: IP20
- insulation class: downlight: II | control unit: I
- without optical enclosure for circular downlight



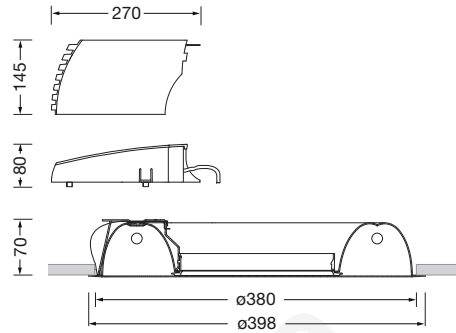
Light source	ECG	LLCG	Order no. OSRAM	Order no. Siteco
Central module, fixed cover, perforated, white aluminum (RAL 9006)				
1x T16-R 40W	2GX13	2.7	4039806157447	5LR61071SA11AF
1x T16-R 40W	2GX13	2.7	4039806205223	5LR610D1SA11AF
1x T16-R 40W	2GX13	2.7	4039806157522	5LR61061SA11AF
1x T16-R 55W	2GX13	2.7	4039806157485	5LR61071TA11AF
1x T16-R 55W	2GX13	2.7	4039806205384	5LR610D1TA11AF
1x T16-R 55W	2GX13	2.7	4039806157560	5LR61061TA11AF

Light source	ECG	LLCG	Order no. OSRAM	Order no. Siteco
Central module, fixed cover, perforated, pure white (RAL 9010)				
1x T16-R 40W	2GX13	2.7	4039806157423	5LR61071SA11AE
1x T16-R 40W	2GX13	2.7	4039806205209	5LR610D1SA11AE
1x T16-R 55W	2GX13	2.7	4039806157461	5LR61071TA11AE
1x T16-R 55W	2GX13	2.7	4039806205360	5LR610D1TA11AE
1x T16-R 55W	2GX13	2.7	4039806157546	5LR61061TA11AE

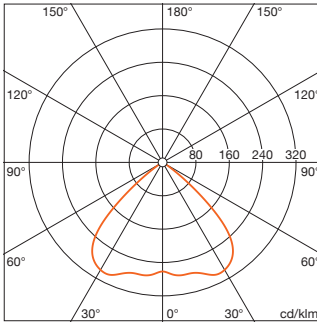
- please order lighting technology (louver or panel) for circular downlight separately

**Mandatory accessories (for details see page 6.34 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular		0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)		0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)		0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish		1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution		0.7	4039806161185	5LR94683DT
Light baffle, black	set of 3	0.1	4039806161703	5LR94685UM



4039806161383 + 4039806194336  
5LR61071TA11AA + 5LR94681CE  
1 x T16-Rl 55W/840 (Amalgam)  
φ 4400 lm



η<sub>LB</sub> 60.5%  
I<sub>max</sub> 298 cd/klm at γ 30°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	75
L <sub>70</sub>	111
L <sub>65</sub>	231

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.0°

UGR 17.2 17.2  
X 4H Y 8H ρ 70/50/20 S 0.25H

**Lunis R® for ceiling recessing**  
**central module: aluminum framing (without cover)**

- Downlight for ceiling recessing, consisting of circular downlight and central module
- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; no light spill to ceiling cavity due to stray-light blocker
  - separate CG unit with ECG
  - reflector and visible reflector fringe of aluminum, highly specular
  - CG unit: cover of PC; baseplate of sheet steel
  - central module: with framing of aluminum, highly specular, without cover (for on-site mounting of any cover, e.g. cut-out of ceiling panel)
  - protection rating: IP20
  - insulation class: downlight: II | control unit: I
  - without optical enclosure for circular downlight



Light source				Order no. OSRAM	Order no. Siteco
1x T16-R 40W	2GX13	2.7	ECG	4039806161369	5LR61071SA11AA
1x T16-R 55W	2GX13	2.7	ECG	4039806161383	5LR61071TA11AA
1x T16-R 55W	2GX13	2.7	DALI	4039806205308	5LR610D1TA11AA
1x T16-R 55W	2GX13	2.7	1...10V	4039806161420	5LR61061TA11AA

- please order lighting technology (louver or panel) for circular downlight separately

H(m)	φ(m)	E <sub>max</sub> (lx)	Em(lx)
2	4.37	293	199
3	6.55	130	88
4	8.73	73	50
5	10.91	47	32
6	13.10	33	22

**Mandatory accessories (for details see page 6.34 ff.)**

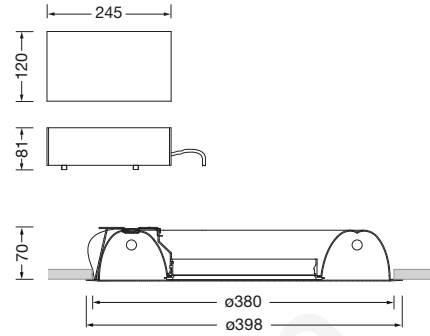
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular		0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)		0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)		0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish		1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution		0.7	4039806161185	5LR94683DT
Light baffle, black	set of 3	0.1	4039806161703	5LR94685UM

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.0	1.8	2.1	4.5	5.2
30 m <sup>2</sup>	1.4	1.6	2.9	3.3	7.2	8.1
40 m <sup>2</sup>	1.9	2.1	3.7	4.1	9.4	10
50 m <sup>2</sup>	2.3	2.5	4.5	5.0	11	12
75 m <sup>2</sup>	3.4	3.6	6.7	7.3	17	18
100 m <sup>2</sup>	4.4	4.7	8.8	9.4	22	23
500 m <sup>2</sup>	21	22	42	43	106	109

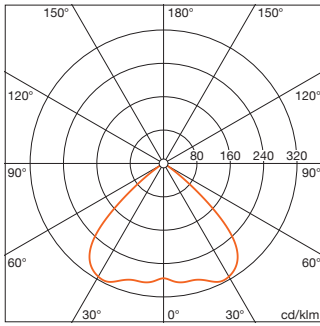
Maintenance factor 0.8 Rh = Lh





4039806503091 + 4039806194336  
5LR61071SA11AE02 +  
5LR94681CE

1 x T16-RI 40W/840 (Amalgam)  
φ 3300 lm



η<sub>LB</sub> 63.7%  
I<sub>max</sub> 313 cd/klm at γ 30°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	59
L <sub>70</sub>	88
L <sub>65</sub>	182

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.0°

UGR 16.3 16.3  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	4.37	231	157
3	6.55	103	70
4	8.73	58	39
5	10.91	37	25
6	13.10	26	17

No. of luminaires in room

Reflection factors 70/50/20	Em(lx)					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.3	2.6	5.7	6.6
30 m <sup>2</sup>	1.8	2.1	3.6	4.1	9.1	10
40 m <sup>2</sup>	2.4	2.6	4.7	5.2	12	13
50 m <sup>2</sup>	2.9	3.1	5.7	6.3	14	16
75 m <sup>2</sup>	4.3	4.6	8.5	9.2	21	23
100 m <sup>2</sup>	5.6	6.0	11	12	28	30
500 m <sup>2</sup>	27	28	54	55	134	138

Maintenance factor 0.8 Rh = Lh

**Lunis R® for ceiling recessing with single battery | central module with coated cover plate**

- Downlight for ceiling recessing, consisting of circular downlight and central module
- CG unit: cover of PC; baseplate of sheet steel
  - central module: with perforated sheet steel cover, white aluminum (RAL 9006) or pure white (RAL 9010)
  - protection rating: IP20
  - insulation class: downlight: II | control unit: I
  - without optical enclosure for circular downlight
- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; no light spill to ceiling cavity due to stray-light blocker
  - separate CG unit with ECG, additionally with single battery
  - reflector and visible reflector fringe of aluminum, highly specular

**Electrics**

- Luminaire for operation on "normal mains" or via the single battery supply
- luminaire wired ready for connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase for single battery)
  - switched phase and unswitched phase must have same phase angle
  - single battery for 1h operating duration with reduced luminous flux
  - with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



**Light source**

				Order no. OSRAM	Order no. Siteco
Central module, fixed cover, perforated, white aluminum (RAL 9006)					
1x T16-R 40W	2GX13	2.8	ECG	4039806228680	5LR61071SA11AF02
1x T16-R 55W	2GX13	2.8	ECG	4039806251688	5LR61071TA11AF02
Central module, fixed cover, perforated, pure white (RAL 9010)					
1x T16-R 40W	2GX13	2.8	ECG	4039806503091	5LR61071SA11AE02

— please order lighting technology (louver or panel) for circular downlight separately

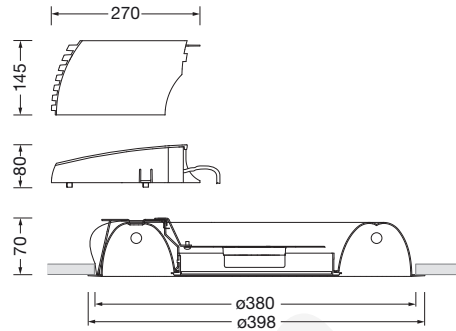
**Mandatory accessories (for details see page 6.34 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular		0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)		0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)		0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish		1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution		0.7	4039806161185	5LR94683DT
Light baffle, black	set of 3	0.1	4039806161703	5LR94685UM

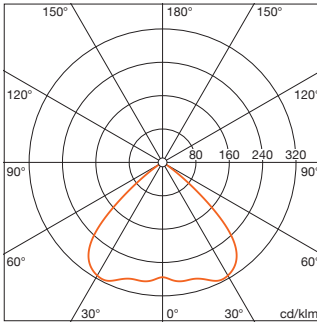


T16-R  
2GX13

TCR-TSE  
flat  
GX53



4039806203755 + 4039806194336  
5LR61071SA14EE + 5LR94681CE  
1 x T16-R/1 40W/840 (Amalgam)  
φ 3300 lm



η<sub>LB</sub> 63.7%  
I<sub>max</sub> 313 cd/klm at γ 30°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 59  
L<sub>70</sub> 88  
L<sub>65</sub> 182

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.0°

UGR 16.3 16.3  
X 4 H Y 8 H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	Em(lx)
2	4.37	231	157
3	6.55	103	70
4	8.73	58	39
5	10.91	37	25
6	13.10	26	17

No. of luminaires in room		Reflection factors 70/50/20					
Em(lx)		100		200		500	
Lh(m)		2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.3	2.6	5.7	6.6	
30 m <sup>2</sup>	1.8	2.1	3.6	4.1	9.1	10	
40 m <sup>2</sup>	2.4	2.6	4.7	5.2	12	13	
50 m <sup>2</sup>	2.9	3.1	5.7	6.3	14	16	
75 m <sup>2</sup>	4.3	4.6	8.5	9.2	21	23	
100 m <sup>2</sup>	5.6	6.0	11	12	28	30	
500 m <sup>2</sup>	27	28	54	55	134	138	

Maintenance factor 0.8 Rh = Lh

### Lunis R® for ceiling recessing central module with miniature fluorescent lamp

Downlight for ceiling recessing, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; no light spill to ceiling cavity due to stray-light blocker
- separate CG unit with ECG
- reflector and visible reflector fringe of aluminum, highly specular
- CG unit: cover of PC; baseplate of sheet steel
- central module: white light, with opal diffuser cover

- diffuser of PMMA; fitted into central ring, white or graphite (similar to RAL 7037)
- protection rating: IP20
- insulation class: downlight: II | control unit: I
- central module with miniature fluorescent lamp Sylvania Microlynx TCR-TSE 6W with integrated ECG
- without optical enclosure for circular downlight

#### Electrics

Central module separately switchable, with 3-pole connection terminal

Detailed information: see data sheet



#### Light source



#### Central module



Order no.  
**OSRAM**

Order no.  
**Siteco**

Central ring, graphite (RAL 7037), central module, opal

Light source	Light source	Central module	Central module	ECG	ECG	Order no. OSRAM	Order no. Siteco
1x T16-R 40W	2GX13	1x TCR-TSE 6W	GX53	2.4	ECG	4039806435590	5LR61071SA14EF
1x T16-R 55W	2GX13	1x TCR-TSE 6W	GX53	2.4	ECG	4039806435637	5LR61071TA14EF

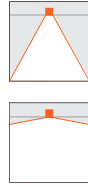
Central ring, white, central module, opal

Light source	Light source	Central module	Central module	ECG	ECG	Order no. OSRAM	Order no. Siteco
1x T16-R 40W	2GX13	1x TCR-TSE 6W	GX53	2.4	ECG	4039806203755	5LR61071SA14EE
1x T16-R 55W	2GX13	1x TCR-TSE 6W	GX53	2.4	ECG	4039806435620	5LR61071TA14EE

- please order lighting technology (louver or panel) for circular downlight separately

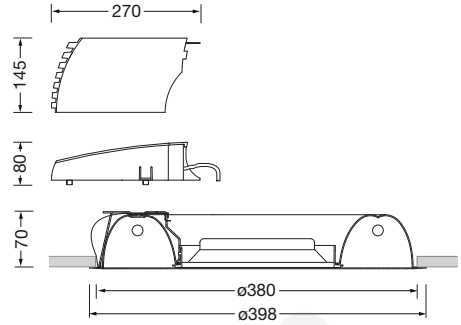
### Mandatory accessories (for details see page 6.34 ff.)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular		0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)		0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)		0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish		1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution		0.7	4039806161185	5LR94683DT
Light baffle, black	set of 3	0.1	4039806161703	5LR94685UM

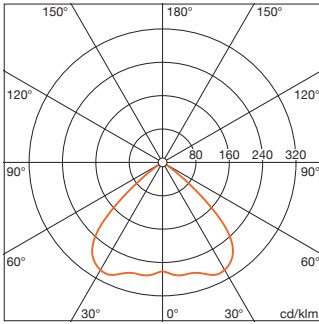


LED

T16-R  
2GX13



4039806435385 + 4039806194336  
5LR61071TA13WJ + 5LR94681CE  
1 x T16-R-I 55W/840 (Amalgam)  
φ 4400 lm



η<sub>LB</sub> 60.5%  
I<sub>max</sub> 298 cd/klm at γ 30°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 75  
L<sub>70</sub> 111  
L<sub>65</sub> 231

α<sub>50%</sub> 2 x 47.5°  
α<sub>10%</sub> 2 x 55.0°

UGR 17.2 17.2  
X 4H Y 8H ρ 70/50/20 S 0.25H

**Lunis R® for ceiling recessing central module with LED**

Downlight for ceiling recessing, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; no light spill to ceiling cavity due to stray-light blocker
- separate CG unit with ECG
- reflector and visible reflector fringe of aluminum, highly specular
- CG unit: cover of PC; baseplate of sheet steel
- central module: LED module with opal diffuser cover, LED depending on version with red, green, blue or white light
- with ECG, separately switchable
- diffuser of PMMA; fitted into central ring, graphite (similar to RAL 7037)
- protection rating: IP20
- insulation class: downlight: II | control unit: I
- without optical enclosure for circular downlight



Light source	Central module	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x T16-R 40W	2GX13 LED R	2.8	ECG	4039806435408	5LR61071SA13KJ
1x T16-R 55W	2GX13 LED G	2.8	ECG	4039806206497	5LR61071TA13MJ
1x T16-R 55W	2GX13 LED B	2.8	ECG	4039806206510	5LR61071TA13NJ
1x T16-R 55W	2GX13 LED nw	2.8	ECG	4039806435385	5LR61071TA13WJ

- LED in colors: R = red | G = green | B = blue | nw = white
- please order lighting technology (louver, panel and stray-light baffles) for circular downlight separately

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	4.37	293	199
3	6.55	130	88
4	8.73	73	50
5	10.91	47	32
6	13.10	33	22

**Mandatory accessories (for details see page 6.34 ff.)**

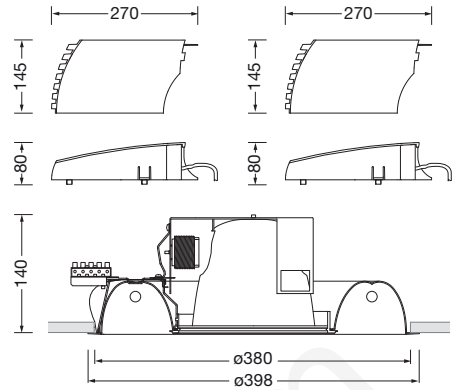
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular		0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)		0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)		0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish		1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution		0.7	4039806161185	5LR94683DT
Light baffle, black	set of 3	0.1	4039806161703	5LR94685UM

No. of luminaires in room

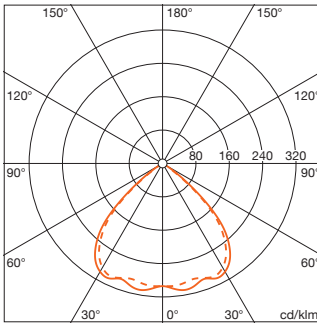
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.0	1.8	2.1	4.5	5.2
30 m <sup>2</sup>	1.4	1.6	2.9	3.3	7.2	8.1
40 m <sup>2</sup>	1.9	2.1	3.7	4.1	9.4	10
50 m <sup>2</sup>	2.3	2.5	4.5	5.0	11	12
75 m <sup>2</sup>	3.4	3.6	6.7	7.3	17	18
100 m <sup>2</sup>	4.4	4.7	8.8	9.4	22	23
500 m <sup>2</sup>	21	22	42	43	106	109

Maintenance factor 0.8 Rh = Lh



4039806435392 + 4039806194336  
5LR61071TA14VA + 5LR94681CE  
T16-RI 55W/840 (Amalgam) +  
TC-TEL 26W/840  
φ 6000 lm



$\eta_{LB}$  59.6%  
 $I_{max}$  308 cd/klm at  $\gamma$  10°

Luminance values (cd/m<sup>2</sup>)

C 0/180	
L <sub>80</sub>	77
L <sub>70</sub>	124
L <sub>65</sub>	247

$\alpha_{50\%}$  2 x 47.5°  
 $\alpha_{10\%}$  2 x 56.0°

UGR 18.1 17.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	4.37	446	284
3	6.55	198	126
4	8.73	112	71
5	10.91	71	46
6	13.10	50	32

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.7	0.8	1.4	1.5	3.4	3.8
30 m <sup>2</sup>	1.1	1.2	2.1	2.4	5.3	6.0
40 m <sup>2</sup>	1.4	1.5	2.8	3.1	7.0	7.7
50 m <sup>2</sup>	1.7	1.8	3.4	3.7	8.4	9.2
75 m <sup>2</sup>	2.5	2.7	5.0	5.4	12	14
100 m <sup>2</sup>	3.3	3.5	6.6	7.0	16	17
500 m <sup>2</sup>	16	16	32	32	79	81

Maintenance factor 0.8

Rh = Lh

### Lunis R® for ceiling recessing central module with TC downlight | wide distribution | highly specular

Downlight for ceiling recessing, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; no light spill to ceiling cavity due to stray-light blocker
- separate CG unit with ECG
- reflector and visible reflector fringe of aluminum, highly specular
- CG unit: cover of PC; baseplate of sheet steel
- central module: TC downlight
- highly specular reflector, wide distribution
- visible aluminum reflector flange, semi-specular with perforated sheet steel baffle ring, white aluminum (RAL 9006); fitted into central ring, graphite (similar to RAL 7037)
- separate CG unit with ECG
- protection rating: IP20
- insulation class: downlight: II | control unit: I
- without optical enclosure for circular downlight

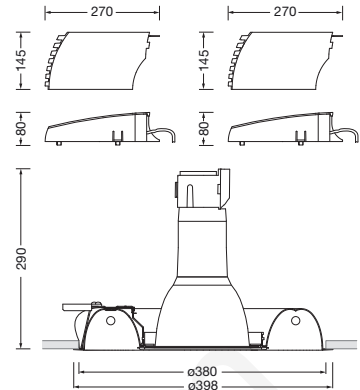


Light source		Central module			ECG-LLCG	Order no. OSRAM	Order no. Siteco
1x T16-R 40W	2GX13	1x TC-TEL 26/32/42W	GX24q-3/-4	4.2	ECG	4039806435378	5LR61071SA14VA
1x T16-R 55W	2GX13	1x TC-TEL 26/32/42W	GX24q-3/-4	4.2	ECG	4039806435392	5LR61071TA14VA

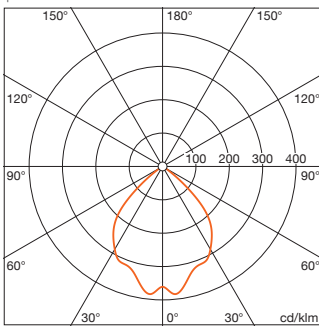
- please order lighting technology (louver, panel and stray-light baffles) for circular downlight separately

### Mandatory accessories (for details see page 6.34 ff.)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular		0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)		0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)		0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish		1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution		0.7	4039806161185	5LR94683DT
Light baffle, black	set of 3	0.1	4039806161703	5LR94685UM



4039806238764 + 4039806194336  
 5LR61071TA13VA + 5LR94681CE  
 T16-RI 55W/840 (Amalgam) +  
 TC-TEL 26W/840  
 ϕ 6000 lm



η<sub>LB</sub> 58.9%  
 I<sub>max</sub> 384 cd/klm at γ 5°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 72
L <sub>70</sub> 109
L <sub>65</sub> 228

α<sub>50%</sub> 2 x 43.2°  
 α<sub>10%</sub> 2 x 54.0°

UGR 17.3 17.3  
 X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	ϕ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	3.76	566	342
3	5.63	251	152
4	7.51	141	86
5	9.39	91	55
6	11.27	63	38

No. of luminaires in room  
 Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	0.7	0.8	1.3	1.5	3.3	3.8
30 m <sup>2</sup>	1.1	1.2	2.1	2.4	5.4	6.0
40 m <sup>2</sup>	1.4	1.5	2.8	3.1	7.0	7.7
50 m <sup>2</sup>	1.7	1.8	3.4	3.7	8.5	9.2
75 m <sup>2</sup>	2.5	2.7	5.0	5.5	13	14
100 m <sup>2</sup>	3.3	3.5	6.7	7.0	17	18
500 m <sup>2</sup>	16	16	32	33	80	82

Maintenance factor 0.8 Rh = Lh

**Lunis R® for ceiling recessing  
 central module with TC downlight | wide distribution | matt**

- Downlight for ceiling recessing, consisting of circular downlight and central module
- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; no light spill to ceiling cavity due to stray-light blocker
  - separate CG unit with ECG
  - reflector and visible reflector fringe of aluminum, highly specular
  - CG unit: cover of PC; baseplate of sheet steel
  - central module: TC downlight
  - semi-specular reflector, wide distribution
  - visible aluminum reflector flange, semi-specular with perforated sheet steel baffle ring, white aluminum (RAL 9006); fitted into central ring, graphite (similar to RAL 7037)
  - separate CG unit with ECG
  - protection rating: IP20
  - insulation class: downlight: II | control unit: I
  - without optical enclosure for circular downlight

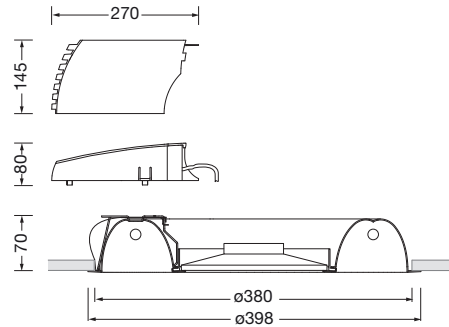


Light source	Central module	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x T16-R 40W 2GX13	1x TC-TEL 26/32/42W GX24q-3/-4	4.1	ECG	4039806214119	5LR61071SA13VA
1x T16-R 55W 2GX13	1x TC-TEL 26/32/42W GX24q-3/-4	4.1	ECG	4039806238764	5LR61071TA13VA

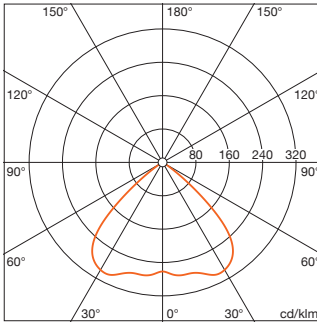
- please order lighting technology (louver, panel and stray-light baffles) for circular downlight separately

**Mandatory accessories (for details see page 6.34 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 (L ≤ 1000cd/m <sup>2</sup> ), highly specular		0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)		0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)		0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish		1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution		0.7	4039806161185	5LR94683DT
Light baffle, black	set of 3	0.1	4039806161703	5LR94685UM



4039806213440 + 4039806194336  
5LR61071TA15CF + 5LR94681CE  
1 x T16-Rl 55W/840 (Amalgam)  
φ 4400 lm



$\eta_{LB}$  60.5%  
 $I_{max}$  298 cd/klm at  $\gamma$  30°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 75  
L<sub>70</sub> 111  
L<sub>65</sub> 231

$\alpha_{50\%}$  2 x 47.5°  
 $\alpha_{10\%}$  2 x 55.0°

UGR 17.2 17.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	4.37	293	199
3	6.55	130	88
4	8.73	73	50
5	10.91	47	32
6	13.10	33	22

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.0	1.8	2.1	4.5	5.2
30 m <sup>2</sup>	1.4	1.6	2.9	3.3	7.2	8.1
40 m <sup>2</sup>	1.9	2.1	3.7	4.1	9.4	10
50 m <sup>2</sup>	2.3	2.5	4.5	5.0	11	12
75 m <sup>2</sup>	3.4	3.6	6.7	7.3	17	18
100 m <sup>2</sup>	4.4	4.7	8.8	9.4	22	23
500 m <sup>2</sup>	21	22	42	43	106	109

Maintenance factor 0.8 Rh = Lh

### Lunis R® for ceiling recessing central module with loudspeaker

Downlight for ceiling recessing, consisting of circular downlight and central module

- circular downlight: with highly specular reflector for accommodating optical enclosure or louver; no light spill to ceiling cavity due to stray-light blocker
- separate CG unit with ECG
- reflector and visible reflector fringe of aluminum, highly specular
- CG unit: cover of PC; baseplate of sheet steel

- central module: broadband loudspeaker, for direct connection (8 ohms) or with transducer for 100V systems
- perforated sheet steel cover, white aluminum (RAL 9006) or pure white (RAL 9010), padded with absorption felt
- protection rating: IP20
- insulation class: downlight: II | control unit: I
- without optical enclosure for circular downlight

- version with broadband loudspeaker:  $I = 8 \text{ Ohm}/P_{max} = 15W$  (recommended:  $P = 1.5 \dots 3W$ )
- version with transducer for 100V systems: with tapping for  $P = 1.5W/3W/6W$



Light source	Central module	Order no. OSRAM	Order no. Siteco
Central module, loudspeaker element, perforated cover, white aluminum (RAL 9006)			
1x T16-R 40 W 2GX13 8Ω	3.0 ECG	4039806435446	5LR61071SA15CF
1x T16-R 40 W 2GX13 100V	3.0 ECG	4039806241009	5LR61071SA15DF
1x T16-R 55 W 2GX13 8Ω	3.0 ECG	4039806213440	5LR61071TA15CF
1x T16-R 55 W 2GX13 100V	3.0 ECG	4039806213464	5LR61071TA15DF

Central module, loudspeaker element, perforated cover, pure white (RAL 9010)	Order no. OSRAM	Order no. Siteco
1x T16-R 40 W 2GX13 8Ω	4039806235121	5LR61071SA15CE
1x T16-R 40 W 2GX13 100V	4039806246905	5LR61071SA15DE
1x T16-R 55 W 2GX13 8Ω	4039806418593	5LR61071TA15CE
1x T16-R 55 W 2GX13 100V	4039806206534	5LR61071TA15DE

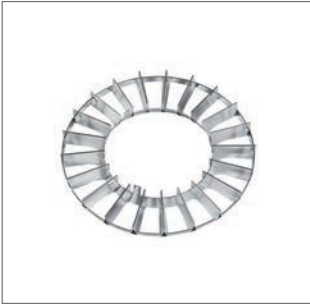
- please order lighting technology (louver, panel, stray-light baffle and color filters) for circular downlight separately

### Mandatory accessories (for details see page 6.34 ff.)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
C-louver, CAT2 ( $L \leq 1000 \text{cd/m}^2$ ), highly specular		0.5	4039806194336	5LR94681CE
C-louver, white aluminum (RAL 9006)		0.5	4039806232786	5LR94688CE
C-louver, pure white (RAL 9010)		0.5	4039806232762	5LR94684CE
Diffuser plate, satin finish		1.0	4039806161208	5LR94685EE
Collector lens, prismatic, ring-shaped, narrow distribution		0.7	4039806161185	5LR94683DT
Light baffle, black	set of 3	0.1	4039806161703	5LR94685UM



**Lunis R® optical accessories**



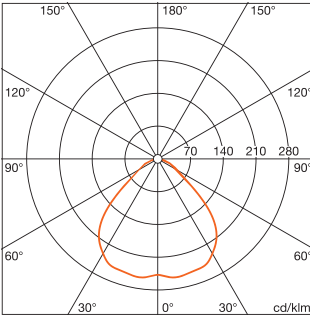
**CAT2 C-louver**

highly specular iridescence-free, CAT2 ( $L \leq 1000\text{cd/m}^2$ ) | high-grade polymer, aluminized

**C-louver**

matt wide distribution | white aluminum or pure white | high-grade polymer

4039806157485 + 4039806232762  
5LR61071TA11FA + 5LR94684CE  
1 x T16-RI 55W/840 (Amalgam)  $\phi$  4400 lm



$\eta_{LB}$  58.4%  
 $I_{max}$  256 cd/klm at  $\gamma$  10°

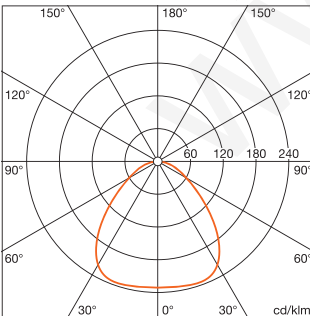
Designation	Order no. OSRAM	Order no. Siteco
CAT2 C-louver, highly specular	4039806194336	5LR94681CE
C-louver, pure white (RAL 9010)	4039806232762	5LR94684CE
C-louver, white aluminum (RAL 9006)	4039806232786	5LR94688CE



**Opal diffuser disc**

for soft spatial light | toughened safety glass

4039806157485 + 4039806161208  
5LR61071TA11AF + 5LR94685EE  
1 x T16-RI 55W/840 (Amalgam)  $\phi$  4400 lm



$\eta_{LB}$  57.7%  
 $I_{max}$  235 cd/klm at  $\gamma$  20°

Designation	Order no. OSRAM	Order no. Siteco
Diffuser disc	4039806161208	5LR94685EE

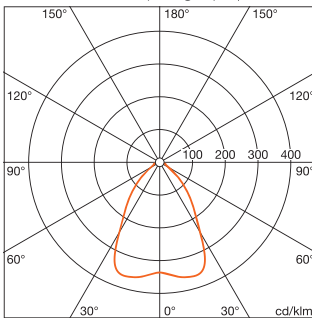


### Transparent collector lens

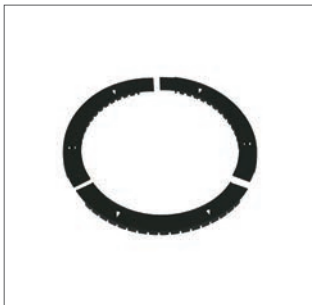
with circular prisms for narrow distribution | PMMA

Designation	Order no. OSRAM	Order no. Siteco
Collector lens	4039806161185	5LR94683DT

4039806157485 + 4039806161185  
5LR61071TA11AF + 5LR94683DT  
1 x T16-RI 55W/840 (Amalgam)  $\phi$  4400 lm



$\eta_{LB}$  58.1%  
 $I_{max}$  362 cd/klm at  $\gamma$  15°



### Stray-light baffle

for direct light distribution when no indirect light is required | PC, black | with suspended mounting, ceiling surface mounting and ceiling recessing

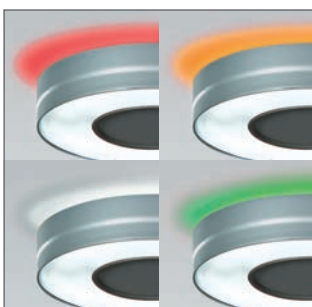


### Color filter segments

for colored indirect component with ceiling surface mounting or suspended mounting | PC

Designation	PU	Order no. OSRAM	Order no. Siteco
for direct light distribution			
Stray-light baffle, black	set of 3	4039806161703	5LR94685UM
for direct/indirect light distribution			
Color filter segment, red	set of 3	4039806161482	5LR94685QM
Color filter segment, orange	set of 3	4039806161543	5LR94685SM
Color filter segment, green	set of 3	4039806161505	5LR94685TM
Color filter segment, blue	set of 3	4039806161529	5LR94685RM
Color filter segment, opal	set of 3	4039806161468	5LR94685CM
Color filter segment, RGB	set of 3	4039806161567	5LR94685CN

— 3 pieces required per luminaire



**Lunis R® mounting accessories for suspended mounting**



**Wire suspension**

triple suspension with height adjustment up to 1.5m | incl. ceiling mounting element, canopy and connection cable with transparent insulation

Designation	Order no. OSRAM	Order no. Siteco
Canopy, white		
with connection cable, 3-core	4039806161444	5LR926800M
with connection cable, 5-core	4039806219589	5LR926800P
Canopy, graphite		
with connection cable, 3-core	4039806161581	5LR926800N
with connection cable, 5-core	4039806221377	5LR926800G



**Pendant suspension**

suspension height = 1.0m  
pendant: D = 13mm | incl. ceiling mounting element, canopy, back plate on luminaire side, connection cable and terminals

Designation	Order no. OSRAM	Order no. Siteco
Suspension, white		
with connection cable, 3-core	4039806255709	5LR92204BS
with connection cable, 5-core	4039806256935	5LR92204BT
Suspension, graphite		
with connection cable, 3-core	4039806256959	5LR92208BS
with connection cable, 5-core	4039806256973	5LR92208BT



www.testsl.com

**Lunis R® mounting accessories for ceiling recessing**



**Module plate**

for installing luminaire in panel ceilings, module 100 | sheet steel, pure white (RAL 9010)

Designation	DA (mm)	L x W x H (mm)	Module	Order no. OSRAM	Order no. Siteco
Mounting plate	380	487 x 487 x 23	Width 5	4039806194664	5LR91684BG



**Mounting plate, module 625**

to support weight of luminaire on ceiling structure (module 625) | sheet steel, galvanized

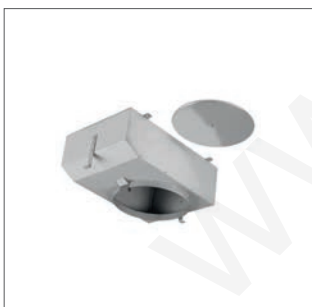
Designation	DA (mm)	L x W x H (mm)	Order no. OSRAM	Order no. Siteco
Mounting plate	380	620 x 500 x 25	4039806194640	5LR91680BJ



**Plaster ring**

for clean ceiling openings in plaster ceilings | sheet steel, galvanized

Designation	DA (mm)	Order no. OSRAM	Order no. Siteco
Plaster ring	380	4039806194688	5LR91680BC



**Concrete casting box**

for ceiling void | for luminaire installation in poured concrete ceilings | sheet steel, galvanized | collar height: HR = 20mm

Designation	DA (mm)	L x W x H (mm)	Order no. OSRAM	Order no. Siteco
Concrete casting box	380	536 x 410 x 105	4039806194626	5LR91680BD

Note: use for plaster depth of max. 20mm

For planning, observe the installation instructions

Download: [www.siteco.com](http://www.siteco.com) (navigation: Notice sheet | rapid entry "order number" | click on "order number" in hits | click on "mounting instructions")



# Futurel® 5MS



The surface-mounted wall luminaires of the Futurel® 5MS family unite clear, striking forms with the patented ELDAICON® light control system. This creates a homogeneous distribution of light with a high, glare-free direct component. The balanced contrast creates a pleasant spatial atmosphere and lighting that also complies with standards for computer screen workstations.

The luminaires of the Futurel® 5MS family ideally adapt both technically as well as visually to modern office environments with their light quality, workmanship and high-quality design.

## Features

- glare-free direct component with use of transparent ELDAICON® microprismatic technology
- glare rating UGR < 16
- timeless, flat design
- suitable for workplace-oriented and zonal lighting solutions
- uniform design for luminaire family: as floorstanding and wall luminaire

## Lighting technology

ELDAICON® technology: glare-free lighting control via highly precise microprismatic structures

- with ELDAICON®, indirect/direct distribution, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- both end caps can be color-accentuated (incl. color foils in colors: red, orange, green, blue, mocca)

## Electrics

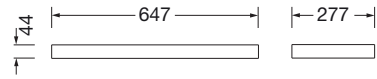
Luminaire wired ready for connection | with 3-pole connection terminal, max.  $2.5\text{mm}^2$  | with ECG; further electrical equipment on request

## Housing

Housing of extruded aluminum, white aluminum (RAL 9006) | with translucent plastic decorative elements at both ends, can be color-accentuated | ELDAICON® of PMMA

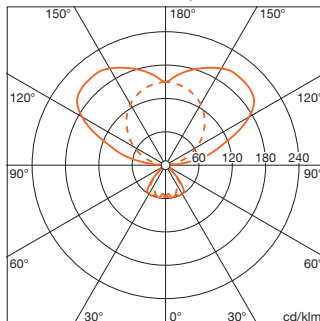
For floorstanding luminaires in this product family, see **chapter 1**





4039806425171  
5MS43672ULO

2 x TC-LEL 55W/840  $\phi$  9600 lm



$\eta_{LB}$  83.8%  $\phi_{\downarrow}$  14%  $\phi_{\uparrow}$  86%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	560	606
L <sub>70</sub>	758	643
L <sub>65</sub>	448	981



**Futurel® 5MS | with ELDAICON® | for TC-LEL lamps  
indirect/direct distribution**

- Single luminaire for wall surface mounting
- with ELDAICON®, indirect/direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )
- translucent face ends, can be color-accentuated
- with ECG

- housing of extruded aluminum, white aluminum (RAL 9006)
- protection rating: IP20
- insulation class: I
- incl. color foils for accenting face ends: red, orange, green, blue, mocca



**Light source**

			Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
2x TC-LEL 55W	2G11	4.1	4039806425171	5MS43672ULO
2x TC-LEL 80W	2G11	4.1	4039806425188	5MS43677VLO



# Europlex<sup>®</sup> TC mirror luminaire



The mirror luminaires of the Europlex<sup>®</sup> TC family with their IP44 protection rating are suitable for a wide variety of applications, including the uniform, glare-free illumination of washbasins in bathrooms. Luminaire covers of glass or PMMA are available for the compact, wide distribution surface-mounted luminaire. The cover is fixed to the housing without visible catches, creating an elegant appearance.

## Features

- for a variety of uses, also in ancillary and special areas
- pleasant room atmosphere and homogeneous illumination due to diffuse light distribution
- compact construction with high-grade materials and high protection class

## Lighting technology

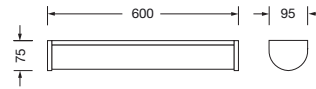
- Opal cover, diffuse distribution for uniform illumination

## Electrics

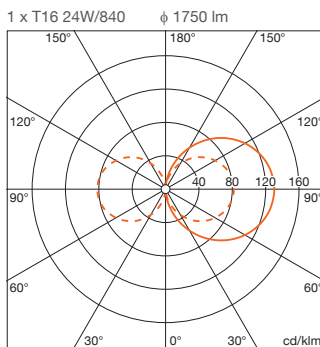
Luminaire wired ready for connection | with 3-pole terminal, max. 1.5mm<sup>2</sup>

## Housing

Flat housing of extruded aluminum, end caps of plastic, chrome or white to choice | opal cover of glass or PMMA | cover flush with housing on all sides, without visible catches



4039806511683  
5MD85471Y3



$\eta_{LB}$  72.3%

**Europlex® TC mirror  
with opal glass cover**

Mirror luminaire for wall surface mounting  
 - with opal cover, diffuse distribution  
 - with ECG  
 - housing of extruded aluminum

- end cap optionally chrome or white  
 - glass cover  
 - protection rating: IP44  
 - insulation class: I

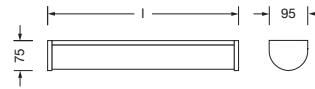


**Light source**

			<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
Design end cap, white				
1x T16 14 W	G5	1.7	4039806511638	5MD85471M1
1x T16 24 W	G5	1.8	4039806511676	5MD85471Y1
1x TC-LEL 36W	2G11	2.2	4039806511652	5MD85471W1
Design end cap, chromed				
1x T16 14 W	G5	1.8	4039806511645	5MD85471M3
1x T16 24 W	G5	1.8	4039806511683	5MD85471Y3
1x TC-LEL 36 W	2G11	1.8	4039806511669	5MD85471W3

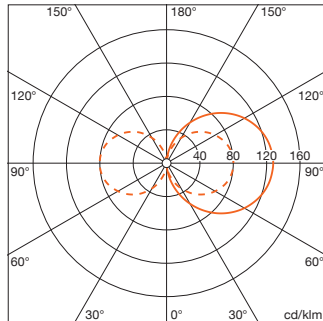


T16  
G5



4039806511508  
5MD81471Y3

1 x T16 24W/840  $\phi$  1750 lm



$\eta_{LB}$  70.9%

**Europlex® TC mirror  
with opal PMMA cover**

Mirror luminaire for wall surface mounting  
 — with opal cover, diffuse distribution  
 — with ECG  
 — housing of extruded aluminum

— end cap optionally chrome or white  
 — cover of PMMA  
 — protection rating: IP44  
 — insulation class: I



**Light source**



**Order no.  
OSRAM**

**Order no.  
Siteco**

Design end cap, white

Light source	Icon	Length [mm]	Weight [kg]	Order no. OSRAM	Order no. Siteco
1x T16 14 W	G5	600	1.4	4039806511478	5MD81471M1
1x T16 24 W	G5	600	1.3	4039806511492	5MD81471Y1
1x T16 39 W	G5	1000	2.2	4039806511560	5MD82471K1

Design end cap, chromed

1x T16 14 W	G5	600	1.5	4039806511485	5MD81471M3
1x T16 24 W	G5	600	1.3	4039806511508	5MD81471Y3
1x T16 39 W	G5	1000	2.1	4039806511577	5MD82471K3

### Europlex® TC mirror luminaire spare parts



#### Optical enclosure, glass or PMMA

for Europlex® TC mirror luminaire

Designation	for series	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Glass optical enclosure	5MD85...	600	1.0	4039806511713	5MD859010W
PMMA optical enclosure	5MD81...	600	0.4	4039806511539	5MD819010W
PMMA optical enclosure	5MD82...	1000	0.8	4039806511607	5MD829020W



www.TESLI.com

# TRESOL<sup>®</sup> Bloc



The TRESOL<sup>®</sup> Bloc family features an extremely purist design and a high level of functionality. The elegant wall surface-mounted LED luminaire of aluminum blends discreetly into nearly all architectural surroundings and emits decorative effect lighting to walls and vertical surfaces. A special feature of the luminaire with two-sided light emission is the possibility of tilting each LED module in the housing through  $\pm 30^\circ$  to achieve precise, individual lighting requirements.

## Features

- two-sided light emission each with tiltable LED module
- LED wall luminaire of aluminum
- decorative effect lighting on walls
- warm white light color

## Lighting technology

Decorative effect lighting, medium distribution | two-sided light emission, horizontal or vertical installation for varying accentuation | tiltable LED module ( $\pm 30^\circ$ )

## Electrics

Luminaire wired ready for connection with 2-pole terminal, 2x max. 2.5mm<sup>2</sup> | side cable entry

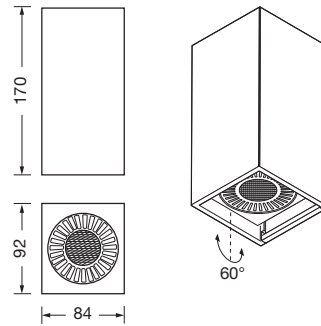
## Housing

Aluminum housing, brushed and anodized or coated white | extensive connection area in the mounting plate with 4-sided cable gland



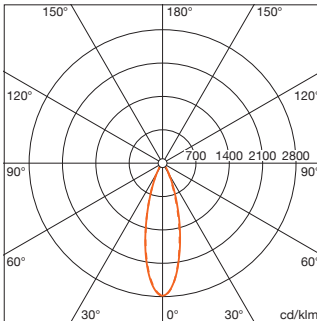


LED



4008321985484  
OMT8617L09830

1 x LED ww φN 180 lm



**TRESOL® Bloc with LED  
with two-sided light emission**

Luminaires for wall surface mounting  
 — medium distribution  
 — tiltable luminaire module ( $\pm 30^\circ$ )  
 — with ECG

— aluminum housing, brushed and anodized or coated white  
 — protection rating: IP20  
 — insulation class: II



**Light source**

K

R<sub>a</sub>

lm

W SYSTEM

Kg

ECG LLCG

**Order no.  
OSRAM**

**Order no.  
Siteco**

Brushed and anodized

2x LED	3000	> 80	2x 165	2x 4.5	0.9	ECG	4008321985484	OMT8617L09830
--------	------	------	--------	--------	-----	-----	---------------	---------------

White

2x LED	3000	> 80	2x 165	2x 4.5	0.9	ECG	4008321990143	OMT8617L09830W
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— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

# LED RONDEL



The LED RONDEL universal wall and ceiling surface-mounted luminaire with IP44 protection rating is suitable for a diversity of applications indoors and in canopied outdoor areas. With its wide distribution diffuser the LED luminaire emits homogeneous light for good visual comfort, and with its warm white light color ensures a pleasant spatial atmosphere. The indirect light component sets decorative accents on walls or ceilings and gives the elegant, slender luminaire a floating appearance. The luminaire version with integrated HF sensor features highly rapid motion detection thanks to modern high-frequency sensor technology for automatic switch-on and switch-off following an individually settable time.

## Features

- surface-mounted luminaire for walls and ceilings
- efficient LED luminaire with warm white light color
- opal cover with aluminum ring
- direct diffuse light distribution with indirect accent light
- HF sensor version: settable brightness and motion sensor with range up to 10 meters
- UV-resistant and splash-proof housing (IP44) for outdoor suitability
- simple mounting

## Lighting technology

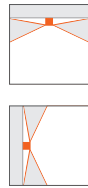
Opal cover, diffuse distribution for uniform illumination with indirect accent light | warm white LED

## Electrics

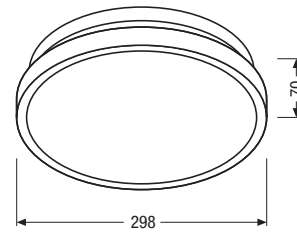
Luminaire wired ready for connection, with 3-pole tool-free connection terminal | cable entry on side or rear | HF sensor version: sensor concealed away from view in housing

## Housing

Sheet steel housing, white coated; PVC cover with highly specular chrome ring | rapid, simple mounting

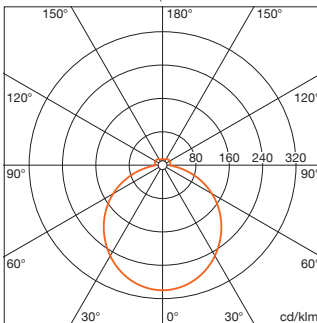


LED



4052899908635  
OMD5247L54830

1 x LED ww 20W  $\phi$ N 932 lm



**LED RONDEL**  
opal cover with aluminum ring | diffuse distribution

- Luminaire for wall and ceiling surface mounting
- sheet steel housing, white coated
- with opal cover
- PVC cover, with highly specular chrome ring
- diffuse distribution with indirect accent light
- protection rating: IP44
- with ECG
- insulation class: II



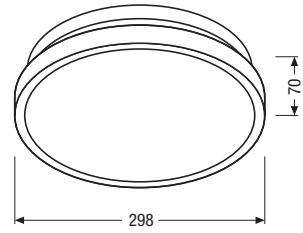
**Light source**

	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG L.L.C.G.	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	1000	20	1.1	ECG	4052899908635	OMD5247L54830

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25



LED



**LED RONDEL with high frequency sensor  
opal cover with aluminum ring | diffuse distribution**

- Luminaire for wall and ceiling surface mounting
- with opal cover
- diffuse distribution with indirect accent light
- with ECG, light sensor and motion sensor
- sensor concealed away from view in housing
- sheet steel housing, white coated
- PVC cover, with highly specular chrome ring
- protection rating: IP44
- insulation class: II



Light source	K	Ra	lm	W SYSTEM	Kg	ECG LLoG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	1000	20	1.2	ECG	4052899910195	OMD5247L548301

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

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# CALYX® Spot I



The narrow distribution CALYX® Spot I range features an elegant design and a diversity of models. The surface of highly specular aluminum has a refined appearance, and application flexibility is guaranteed with a total of five variants for wall and ceiling surface mounting with one to four spots. Luminaire heads can be rotated through 330° and tilted through 90° so that the efficient light of the LED is precisely guided onto the working plane.

## Features

- diverse LED spotlight in five different versions for walls and ceilings: with 1, 2, 3 or 4 pan-and-tilt luminaire heads or with flexible gooseneck
- partly with ON/OFF switch on end of housing or dimmable with many standard reverse phase dimmers

## Lighting technology

35° beam angle, narrow distribution | luminaire head can be rotated through 330° and pivoted through 90°

## Electrics

Luminaire wired ready for connection; connection terminal 3x max. 2.5mm<sup>2</sup> | cable entry flexibly on rear | ECG integrated in luminaire | versions with ON/OFF switch on end of housing | versions with several heads are dimmable with many standard reverse phase dimmers

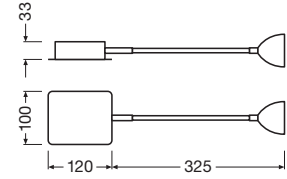
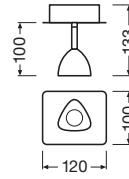
## Housing

Housing plate of stainless steel, aluminum luminaire head

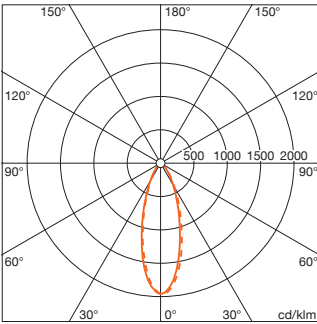




LED



4052899908475  
 OMC8617155827C  
 1 x LED  $\phi$ N 372 lm



**CALYX® Spot I with LED**  
**wall luminaire with adjustable luminaire head**

- Luminaire for wall surface mounting
- narrow distribution
- spotlight with luminaire head featuring 330° rotation and 90° tilt depending on version, or with flexible gooseneck (single flex)
- with ECG

- with ON/OFF switch at face end of housing
- housing plate of stainless steel, aluminum luminaire head, highly specular
- protection rating: IP20
- insulation class: I



**Light source**

K
Ra
lm
W SYSTEM
Lg
ECG L LCG

**Order no.**  
**OSRAM**

**Order no.**  
**Siteco**

Single flex

LED	2700	> 80	365	5.5	0.5	ECG	4052899908482	OMC8617155825CF
-----	------	------	-----	-----	-----	-----	---------------	-----------------

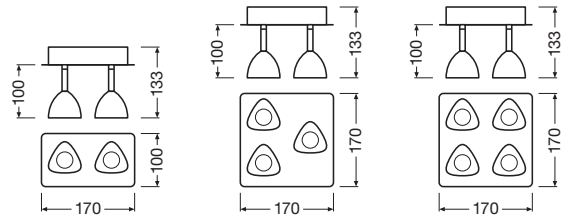
Single

LED	2700	> 80	365	5.5	0.4	ECG	4052899908475	OMC8617155827C
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— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25



LED



**CALYX® Spot I with LED**  
with 2...4 adjustable luminaire heads

- Luminaire for ceiling surface mounting
- narrow distribution
- luminaire head rotated through 330° and pivoted through 90°
- with ECG
- dimmable with many standard reverse phase dimmers

- housing plate of stainless steel, aluminum luminaire head, highly specular
- protection rating: IP20
- insulation class: I



Light source	K	R <sub>a</sub>	Im	W SYSTEM	kg	ECG LLOG	Order no. OSRAM	Order no. Siteco
Duo								
LED	2700	> 80	660	10.4	0.7	ECG	4052899908499	OMC7617210827C
Triple								
LED	2700	> 80	970	15	1.1	ECG	4052899908505	OMC7617315827C
Quad								
LED	2700	> 80	1340	20.5	1.2	ECG	4052899908512	OMC7617420827C

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

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## QOD<sup>®</sup> M CEILING



The QOD<sup>®</sup> M CEILING family of luminaires features an elegant design and a low construction height. The wide distribution surface-mounted luminaire can be mounted to nearly all surfaces thanks to various fixing options, and conveniently connected. The combination of four light tiles with frosted luminaire cover features uniform light distribution for a high level of visual comfort. The highly durable (up to 20,000 hours) surface-mounted luminaire is thus especially suitable for the illumination of hallways and corridors or for accent lighting for cloakrooms or especially representative areas.

### Features

- LED ceiling luminaire with stylish raised housing and matt housing with specular edge
- rapid, simple installation
- warm white light color

### Lighting technology

Light emission across 4 light tiles, wide distribution

### Electrics

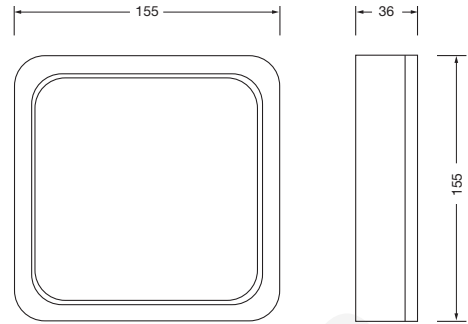
Luminaire wired ready for connection with terminal 2x max. 2.5mm<sup>2</sup> | cable entry on rear | ECG integrated in luminaire

### Housing

Surface-mounted housing of PC, matt white | luminaire edge of PC, specular white | rapid, simple installation



LED



**QOD® M CEILING with LED**  
with 4 light modules, wide distribution

- Single luminaire for ceiling mounting
- wide distribution, light emission across 4 light tiles
- with ECG

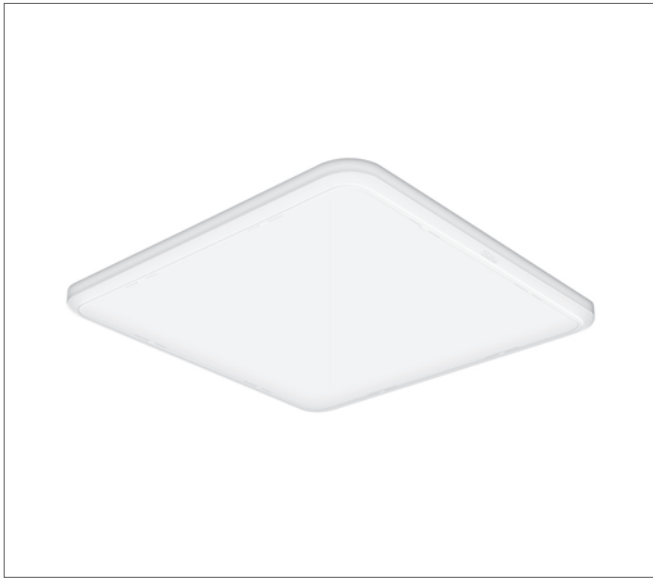
- housing of PC, matt white
- protection rating: IP20
- insulation class: II



Light source	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG-LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	420	15.5	0.5	ECG	4052899910683	0ME271715830

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

## QOD® M/L



The LED luminaire family QOD® M/L with its various fixing options can be mounted to nearly all surfaces. With its extremely flat construction that is also the striking design feature of the luminaire, the long-life (up to 30,000 hours) surface-mounted luminaire is ideal for simple mounting in especially tight spaces.

### Features

- surface-mounted luminaire with striking design
- can be mounted to almost all surfaces due to diverse fixing options
- QOD® M for accent lighting as wall and ceiling luminaire; QOD® L as downlight in installations with insufficient space for standard luminaires
- energy-saving thanks to LED technology
- warm white light color
- rapid, simple installation

### Lighting technology

Wide distribution

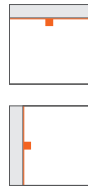
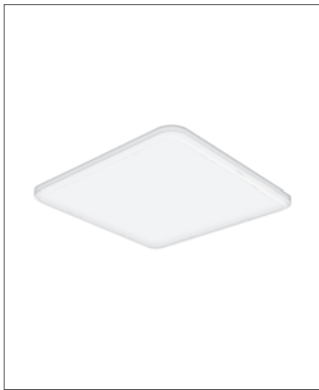
### Electrics

Luminaire wired ready for connection | separate CG unit with 2-pole connection terminal | control gear unit with pre-assembled cable with plug connection to luminaire, l = 3m

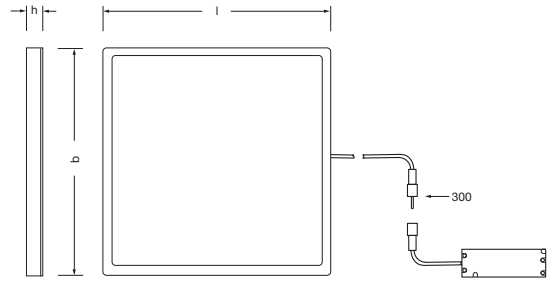
### Housing

Housing of PC, white, cover of PMMA | mounting method: adhesive tape or screws





LED



**QOD® M and QOD® L with LED  
with external CG unit | wide distribution**

Single luminaire for ceiling or wall mounting or mounting to furniture  
 — wide distribution  
 — separate control gear unit with pre-assembled cable with plug connection to luminaire

- connection cable with euro plug
- housing of PC, white
- cover of PC
- protection rating: IP20
- insulation class: II



Light source	K	lm	W SYSTEM	h [mm]	l [mm]	b [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
QOD M	3000	420	13	11	155	155	0.3	ECG	4008321974921	OME6717L13830
QOD L	3000	900	28	11	220	220	0.7	ECG	4008321974952	OME6717L28830

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

**Accessories**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Extension cable 1.5m	set of 6	0.1	4008321972842	OME91500L

# OSRAM DULUX® RONDEL | ... CARRÉ



The circular OSRAM DULUX® RONDEL and the square OSRAM DULUX® CARRÉ feature a flat and elegant design with easy mounting to walls or ceilings. The opal, flat cover emits soft, homogeneous light distribution for high visual comfort. The smooth-surface luminaires are easy to clean and have extremely low maintenance due to the longevity of the DULUX® S827 compact fluorescent lamp included in the scope of supply.

## Features

- extra-flat round or rectangular power-saving luminaires for interior and semi-exterior use
- timeless design for reliable and economic continuous lighting for walls and ceilings
- also available as twin-lamp version
- rapid, simple installation
- equipped with compact fluorescent lamp OSRAM DULUX® S827

## Lighting technology

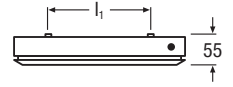
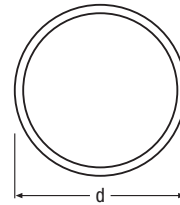
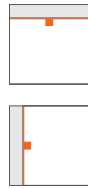
Flat opal PMMA cover, diffuse distribution for uniform illumination

## Electrics

With 2-pole connection terminal | cable entry on rear | ECG integrated in luminaire | with compact fluorescent lamp

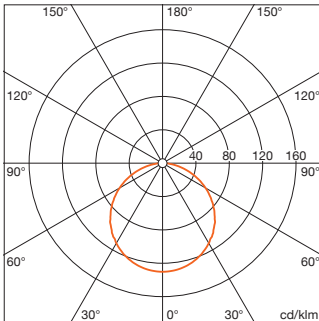
## Housing

Round or rectangular housing of PC, white; flat cover of PMMA, opal | splash-proof (IP43) | rapid, simple installation



4050300328737  
OMD41552U

2 x TC-S 9W  $\phi$  1200 lm



<sup>1)</sup>LB 38,4%

**OSRAM DULUX® RONDEL for TC-S lamps**  
**round | with flat cover | diffuse distribution**

For wall and ceiling surface mounting

- with flat opal cover
- diffuse distribution
- with ECG
- housing of PC, white
- cover of PMMA

- protection rating: IP43
- insulation class: II
- impact resistance: IK03
- with compact fluorescent lamp OSRAM DULUX® S827

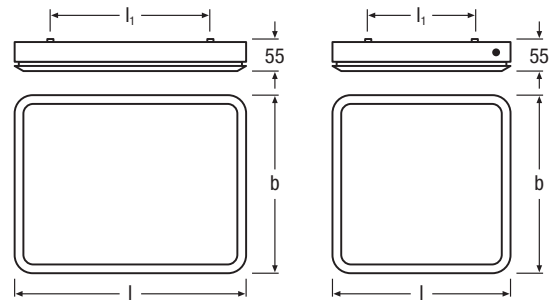
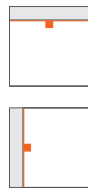


**Light source**

		<b>K</b>	<b>R<sub>a</sub></b>					<b>Order no.</b> <b>OSRAM</b>	<b>Order no.</b> <b>Siteco</b>
2x OSRAM DULUX S 9W	G23	2700	> 80	270	126	1.3	ECG	4050300328737	OMD41552U

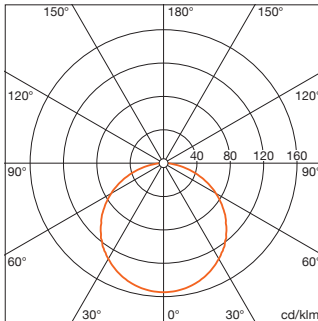
- information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25





4050300314921  
OMD41552R

2 x TC-S 11W  $\phi$  1800 lm



$\eta_{LB}$  46,3%

**OSRAM DULUX® CARRÉ for TC-S lamps**  
**square | with flat cover | diffuse distribution**

Luminaire for wall and ceiling surface mounting

- with flat opal cover
- diffuse distribution
- with ECG
- housing of PC, white
- cover of PMMA

- protection rating: IP43
- insulation class: II
- impact resistance: IK03
- with compact fluorescent lamp OSRAM DULUX® S827



**Light source**

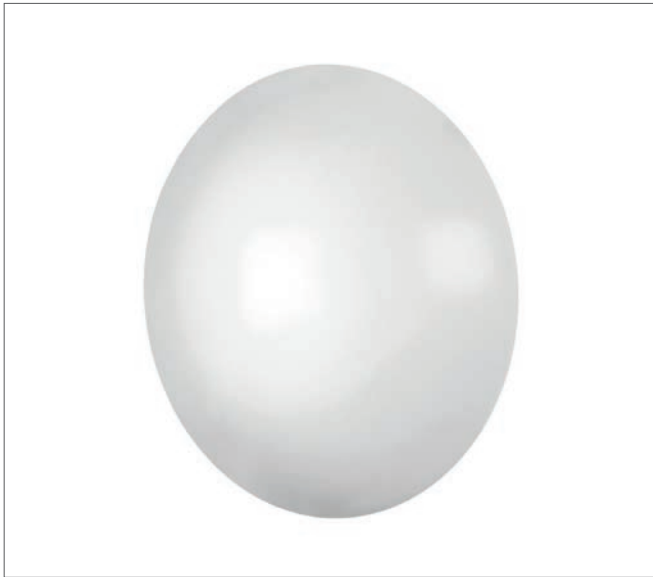
									<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
1x OSRAM DULUX S 11W	G23	2700	> 80	270	200	700	1.2	ECG	4050300012100	OMD41551R
2x OSRAM DULUX S 11W	G23	2700	> 80	270	270	1000	1.7	ECG	4050300314921	OMD41552R

- information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

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## Europlex® TC | IP44



The surface-mounted wall and ceiling luminaires of the Europlex® TC family with IP44 protection rating and high workmanship are suitable for a wide variety of applications. The opal diffuser achieves uniform illumination and is fixed to the upper housing part without visible catches.

### Features

- for a variety of uses, also in ancillary and special areas
- pleasant room atmosphere and homogeneous illumination due to diffuse light distribution
- energy efficiency with electronic ballasts and compact fluorescent lamps
- compact construction with high-grade materials and high protection class

### Lighting technology

Opal cover, diffuse distribution for uniform illumination

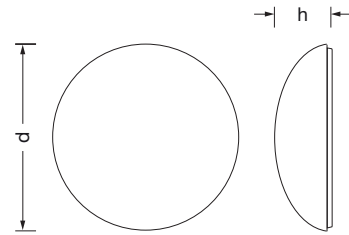
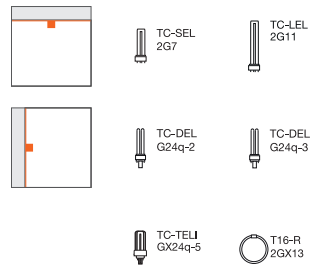
### Electrics

Luminaire wired ready for connection | with 3-pole terminal, max. 1.5mm<sup>2</sup>

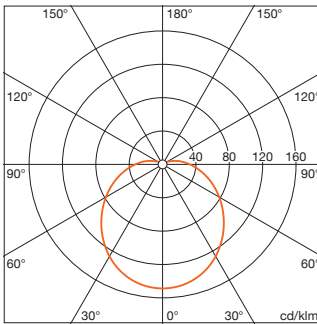
### Housing

Flat housing of sheet steel, white | cambered cover of PMMA, opal | protruding cover, without visible catches | disguising of shadow gaps on mounting surface via decorative aluminum ring, matt anodized





4039806511164  
5MD13471P  
1 x TC-TELI 57W/840 (Amalgam)  
φ 4300 lm



η<sub>LB</sub> 58.3%

**Europlex® TC**  
with cambered cover | diffuse distribution

- Compact luminaire for wall or ceiling surface mounting
- with cambered opal cover, diffuse distribution
- with ECG
- housing of sheet steel, white
- cover of PMMA
- protection rating: IP44
- insulation class: I



Light source	Light source 2	d [mm]	h [mm]	kg	Order no. OSRAM	Order no. Siteco		
2x TC-SEL 11W	2G7	390	110	2.0	4039806511119	5MD12472S		
2x TC-LEL 18W	2G11	390	110	1.8	4039806511058	5MD12372T		
1x TC-DEL 18W	G24q-2	270	110	0.6	4039806510990	5MD11371G		
2x TC-DEL 26W	G24q-3	390	110	1.7	4039806511102	5MD12472H		
2x TC-DEL 26W	G24q-3	500	120	2.7	4039806511171	5MD13472H		
1x TC-TELI (I = Amalgam) 57W	GX24q-5	500	120	2.0	4039806511164	5MD13471P		
1x T16-R 40W	2GX13	390	110	1.5	4039806511089	5MD12471D		
1x T16-R 40W	2GX13	1x T16-R 22W	2GX13	390	110	1.6	4039806511126	5MD12475D
1x T16-R 40W	2GX13			500	120	2.6	4039806511157	5MD13471D
1x T16-R 40W	2GX13	1x T16-R 22W	2GX13	500	120	2.0	4039806511195	5MD13475D

**Europlex® TC accessories/spare parts**



**Decorative ring**

aluminum, matt anodized

for series	D (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Decorative ring, matt aluminum				
5MD11... (luminaire with D = 270mm)	325	0.2	4039806511218	5MD1990102
5MD12... (luminaire with D = 390mm)	445	0.2	4039806511232	5MD1990202
5MD13... (luminaire with D = 500mm)	556	0.2	4039806511256	5MD1990302

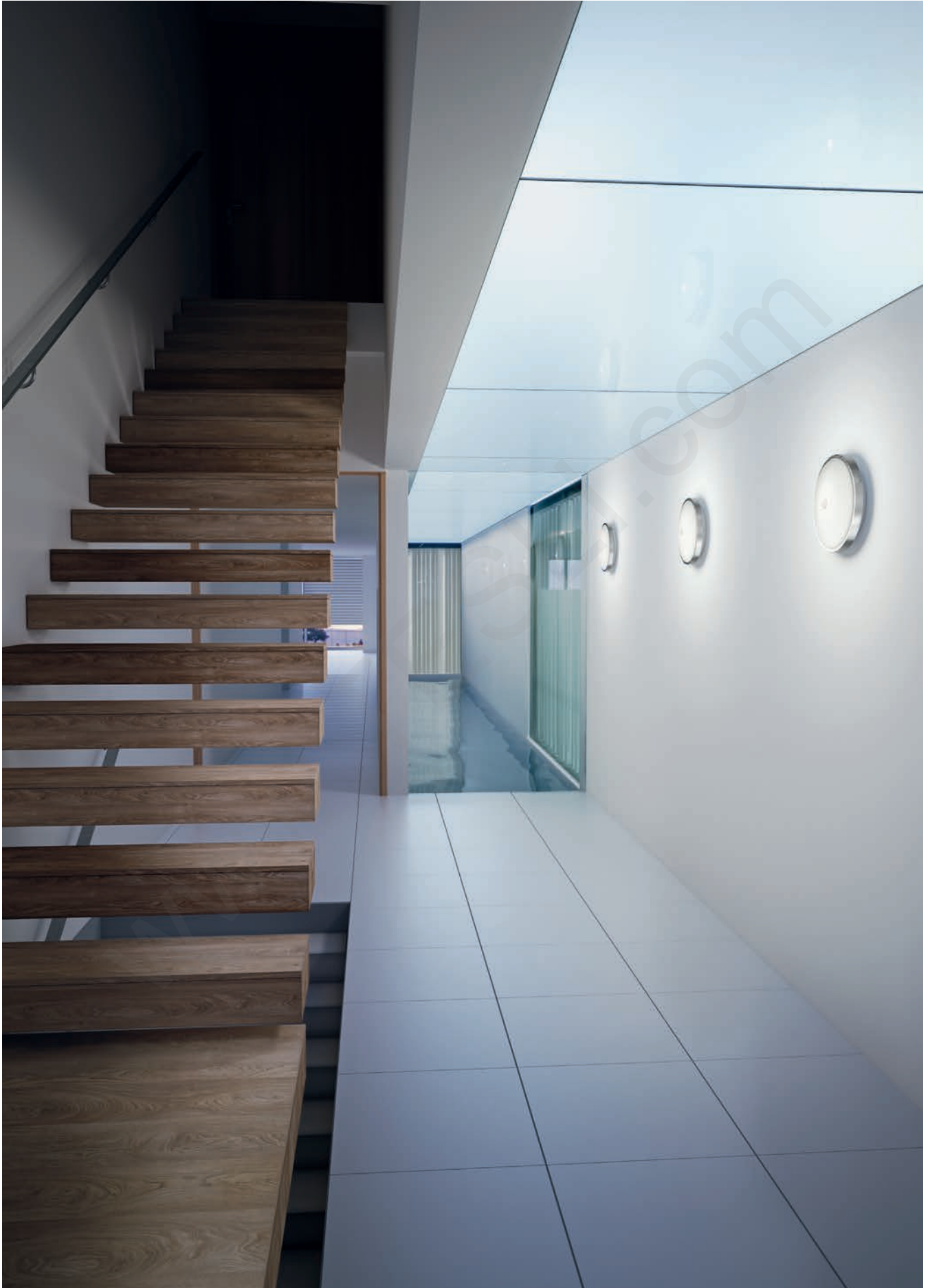


**Optical enclosure**

PMMA for Europlex® TC, cambered

for series	D (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
5MD11...	270	0.3	4039806511010	5MD119010W
5MD12...	390	0.7	4039806511027	5MD119020W
5MD13...	500	1.1	4039806511034	5MD119030W

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## Europlex® TC | IP65



The diffuser luminaires of the Europlex® TC family are suitable for use in damp and wet areas as well as covered outdoor areas with their high-quality construction and IP65 protection rating. A flat square and a flat round PMMA enclosure are available for the compact, diffuse distribution surface-mounted luminaire. The opal diffuser achieves uniform illumination and is fixed to the upper housing part without visible catches.

### Features

- for a variety of uses in dry and damp ancillary and special areas
- pleasant room atmosphere and homogeneous illumination due to diffuse light distribution
- energy efficiency with electronic ballasts and compact fluorescent lamps
- compact construction with high-grade materials and high protection class
- minimized construction height allows use in compact spaces

### Lighting technology

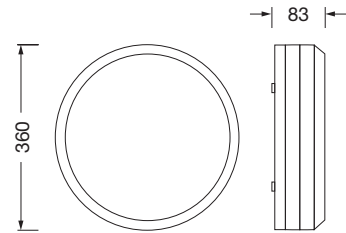
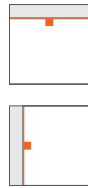
Flat opal PMMA cover, diffuse distribution for uniform illumination

### Electrics

Luminaire wired ready for connection | with 3-pole terminal, max. 1.5mm<sup>2</sup>

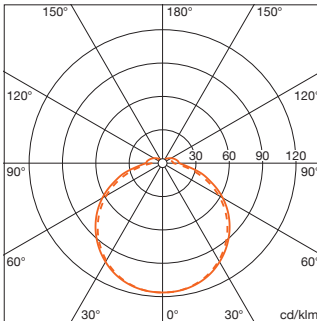
### Housing

Housing of PC, white | flat, chamfered cover of PMMA, opal | housing with visible edge; cover flush with housing, without visible catches



4039806193292  
5LS23472TR

2 x TC-LEL 18W/840  $\phi$  2300 lm



<sup>1)</sup>LB 43,8%

**Europlex® TC**  
round | with flat, chamfered cover | diffuse distribution

Compact luminaire for wall or ceiling surface mounting  
 — with flat opal cover, diffuse distribution  
 — with ECG  
 — housing of PC, white; cover of PMMA

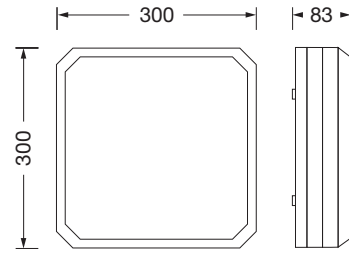
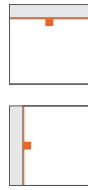
— protection rating: IP65  
 — insulation class: I



**Light source**

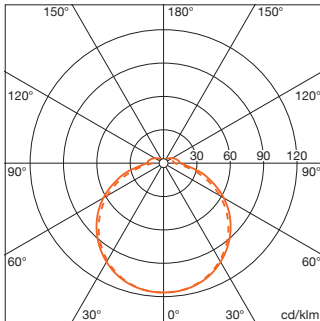
			<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
2x TC-SEL 11W	2G7	1.6	4039806388254	5LS23472SR
2x TC-LEL 18W	2G11	1.6	4039806193292	5LS23472TR
1x T16-R 55W	2GX13	1.7	4039806205520	5LS23471TR





4039806195517  
5LS23472TQ

2 x TC-LEL 18W/840  $\phi$  2300 lm



$\eta_{LB}$  43.8%

**Europlex® TC**  
**square | with flat, chamfered cover | diffuse distribution**

Compact luminaire for wall or ceiling surface mounting  
 — with flat opal cover, diffuse distribution  
 — with ECG  
 — housing of PC, white; cover of PMMA

— protection rating: IP65  
 — insulation class: I



**Light source**

			<b>Order no.</b> <b>OSRAM</b>	<b>Order no.</b> <b>Siteco</b>
2x TC-LEL 18W	2G11	1.3	4039806195517	5LS23472TQ



**Europlex® TC spare parts**



**Optical enclosure**

PMMA, for round Europlex® TC with flat, chamfered cover

Designation	for series	D (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Optical enclosure	5LS234... R	360	0.4	4039806198877	5LS23402TWR



**Optical enclosure**

PMMA, for square Europlex® TC with flat, chamfered cover

Designation	for series	L x W (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Optical enclosure	5LS234... Q	300 x 300	0.3	4039806198853	5LS23402TWQ

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# LUMILUX FLATLITE® T5 F/P



The compact and flat LUMILUX FLATLITE® T5 F/P ceiling and wall luminaire features especially good luminous flux characteristics. The reason for this is the ideal combination of the built-in QUICKTRONIC® PROFESSIONAL electronic control gear with the LUMILUX® T5 830 HO lamp included in the supply. With a convex prismatic lamp cover, the luminaire emits extremely wide uniform light distribution for good visual conditions. The LUMILUX FLATLITE® T5 F/P can be simply installed either as a single luminaire or as a continuous row (with optional accessories) due to its flexible cable glands.

## Features

- especially compact luminaire with low profile for ceiling and wall mounting
- extremely high light output due to high luminous efficacy
- suitable for single mounting or as continuous rows
- with prismatic lamp cover
- equipped with LUMILUX® T5 830 HO fluorescent lamp
- double cap for covering joints with continuous row mounting (accessory)

## Lighting technology

With convex, prismatic lamp cover; extremely wide distribution

## Electrics

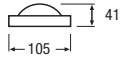
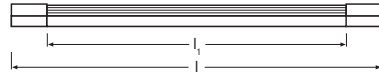
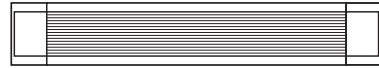
Fixed connection with connection terminal, 3x max. 1.5 mm<sup>2</sup> | movable terminal strip on rear | through-wiring with continuous row mounting via supplied line segments | ECG integrated in luminaire | with fluorescent lamp

## Housing

Aluminum housing, PC end caps; housing and end caps white | double cap (for covering joints with continuous row mounting) of PC, white

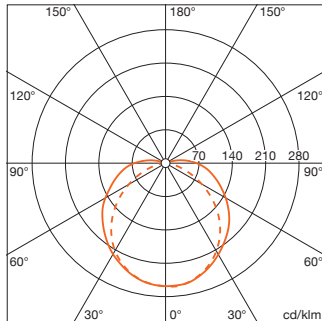


T16  
G5



4008321908551  
OFP1111U830

1 x T16 54W  $\phi$  4450 lm



$\eta_{LB}$  84,2%

**LUMILUX FLATLITE® T5 F/P with T16 lamps  
with prismatic cover | extremely wide distribution**

Single luminaire or as continuous row for ceiling/wall mounting

- extremely wide distribution
- with prismatic cover
- with ECG
- aluminum housing, PC end caps; housing and end caps white

- cover of PC
- protection rating: IP20
- insulation class: I
- with fluorescent lamp LUMILUX® T5 830 HO



**Light source**

								<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
1x T16 24W	G5	3000	> 80	608	400	0.9	ECG	4008321908537	OFP1111Y830
1x T16 39W	G5	3000	> 80	908	700	1.3	ECG	4008321908544	OFP1111K830
1x T16 54W	G5	3000	> 80	1208	1000	1.7	ECG	4008321908551	OFP1111U830
1x T16 49W	G5	3000	> 80	1508	1300	2.1	ECG	4008321908568	OFP1111F830

- information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

**Accessories**

<b>Designation</b>	<b>PU</b>	<b>Wt. (kg)</b>	<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
Double cap	set of 4	0.1	4008321917355	OFP9091

# OSRAM SOFTLITE® EL



The OSRAM SOFTLITE® EL wall and ceiling luminaire family features direct/indirect light distribution and especially soft, glare-free light. This is achieved via the primary reflector with perforated sheet structure that also gives the luminaire its striking form. The decorative indirect light component illuminates the ceiling and creates a pleasant spatial atmosphere. The OSRAM SOFTLITE® EL is equipped with an energy-efficient LUMILUX® T8 HO/840 fluorescent lamp and can be suspended using a suspension kit available as an optional accessory.

## Features

- wall and ceiling luminaire with appealing design
- primary and secondary distribution luminaire with direct/indirect light emission
- primary reflector with perforated structure for glare-free, diffuse light
- equipped with LUMILUX® T5 HO/840 fluorescent lamp
- suspended mounting via optional suspension kit

## Lighting technology

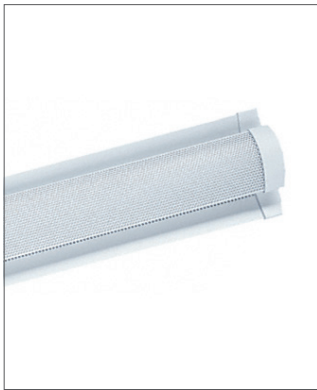
Primary and secondary distribution luminaire for glare-free, diffuse light | decorative direct/indirect light components via perforated reflector

## Electrics

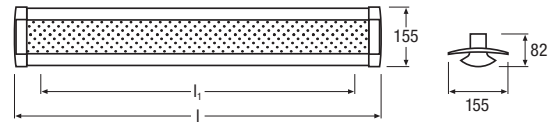
Fixed connection with connection terminal, 3-pole | cable entry on rear | ECG integrated in luminaire | suspension kit (as accessory) for suspending one luminaire, consisting of wire suspension up to max. 2m suspension height | with fluorescent lamp

## Housing

Sheet steel housing with perforated structure, white (similar to RAL 9016); plastic end cap, white

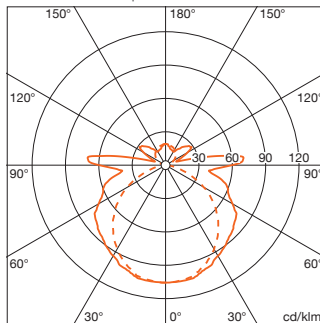


T16  
G5



4050300535678  
OML23L71JL840

1 x T16 54W  $\phi$  5000 lm



$\eta_{LB}$  48,5%

**OSRAM SOFTLITE® EL with T16 lamps  
reflector with perforated structure | direct/indirect distribution**

- Single luminaire for ceiling and wall mounting
- primary and secondary distribution with decorative direct component with perforated structure
- with ECG
- sheet steel housing with perforated structure, white (similar to RAL 9016); plastic end cap, white
- protection rating: IP20
- insulation class: I
- impact resistance: IK06
- with fluorescent lamp LUMILUX® T5 HO/840



Light source		K	R <sub>a</sub>	$l$ [mm]	$h$ [mm]		ECG LLCG	Order no. OSRAM	Order no. Siteco
1x T16 24W	G5	4000	> 80	610	512	1.1	ECG	4050300535630	OML23L71YL840
1x T16 39W	G5	4000	> 80	910	812	1.7	ECG	4050300535654	OML23L71KL840
1x T16 54W	G5	4000	> 80	1210	1112	2.3	ECG	4050300535678	OML23L71JL840
1x T16 80W	G5	4000	> 80	1510	1412	2.8	ECG	4050300535692	OML23L71XL840

— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

**Accessories**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Suspension kit	set of 4	0.1	4050300792200	OLN91301

# LUMILUX® DUO EL



The twin-lamp LUMILUX® DUO EL ceiling luminaire is equipped with efficient LUMILUX® T8 830 fluorescent lamps. The luminaire has an elegant, high-quality appearance. With its flat casing of anodized and extruded aluminum and two photometric versions, LUMILUX® DUO EL is especially suitable where much light is needed in tight spaces. The version with prismatic cover ensures highly homogeneous light; the version with aluminum louver and highly specular reflector reduces glare on work surfaces. The luminaire with its rapid-fastening system is simple to mount and can be suspended with optional wire suspension accessories.

## Features

- single luminaire with especially low profile for ceiling, wall and furniture installation
- with aluminum cross-blade louver and highly specular reflector or with prismatic cover for homogeneous light
- suitable for home-office workstation illumination
- equipped with two LUMILUX® T8 830 fluorescent lamps
- suspended mounting via optional suspension kit

## Lighting technology

With highly specular reflector and matt aluminum cross blades or with prismatic cover, extremely wide distribution

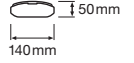
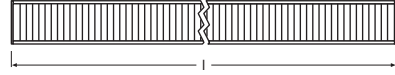
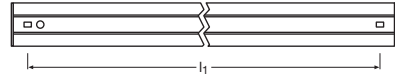
## Electrics

Fixed connection with connection terminal, 3-pole | asymmetric cable entry on rear | luminaire suitable for through-wiring | ECG integrated in luminaire | with fluorescent lamps

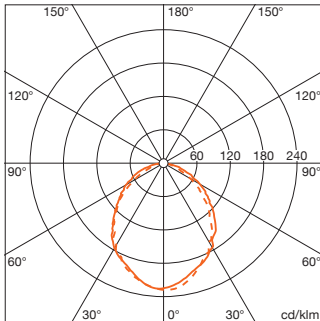
## Housing

Aluminum housing, white; end cap of plastic, gray | integrated rapid fastening system enables simple mounting | suspension kit (as accessory) for suspending luminaire, consisting of wire suspension up to max. 2m suspension height





4050300774329  
 OLL21572CL830  
 2 x T26 36W  $\phi$  6700 lm



$\eta_{LB}$  51,3%

**LUMILUX DUO® EL with T26 lamps**  
**with aluminum cross-blade louver, highly specular | extremely wide distribution**

- Single luminaire for ceiling mounting
- extremely wide distribution
- with highly specular reflector and matt aluminum cross blades
- with ECG
- aluminum housing, white; end caps of PC, white
- protection rating: IP20
- insulation class: I
- with fluorescent lamp OSRAM LUMILUX® T8 830
- impact resistance: IK03



Light source		K	Ra	$l$ [mm]	$l_1$ [mm]		ECG LLCG	Order no. OSRAM	Order no. Siteco
2x T26 18W	G13	3000	> 80	626	520	1.4	ECG	4050300774299	OLL21572AL830F
2x T26 36W	G13	3000	> 80	1235	1130	2.2	ECG	4050300774329	OLL21572CL830F
2x T26 58W	G13	3000	> 80	1535	1430	2.6	ECG	4050300774350	OLL21572EL830F

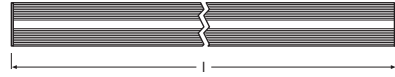
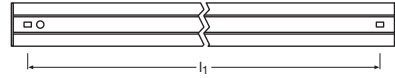
— information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

**Accessories**

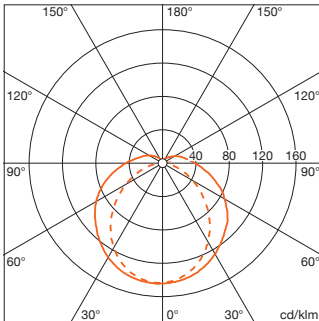
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Suspension kit	set of 4	0.1	4050300792200	OLN91301



T26  
G13



4050300774237  
OLL21P72CL830F  
2 x T26 36W  $\phi$  6700 lm



$\eta_{LB}$  51%

**LUMILUX DUO® EL with T26 lamps  
with prismatic cover | extremely wide distribution**

Single luminaire for ceiling and furniture mounting

- extremely wide distribution
- with prismatic cover
- with ECG
- aluminum housing, white; end caps of PC, gray
- cover of PC
- protection rating: IP20
- insulation class: I
- with fluorescent lamp OSRAM LUMILUX® T8/830
- impact resistance: IK03



Light source		K	Ra	$l$ [mm]	$h$ [mm]		EGG LLCG	Order no. OSRAM	Order no. Siteco
2x T26 18W	G13	3000	> 80	626	520	1.4	ECG	4050300774206	OLL21P72AL830F
2x T26 36W	G13	3000	> 80	1235	1130	2.1	ECG	4050300774237	OLL21P72CL830F
2x T26 58W	G13	3000	> 80	1535	1430	2.5	ECG	4050300774268	OLL21P72EL830F

- information concerning energy consumption labeling regulation (EU) 874/2012 on page 15.25

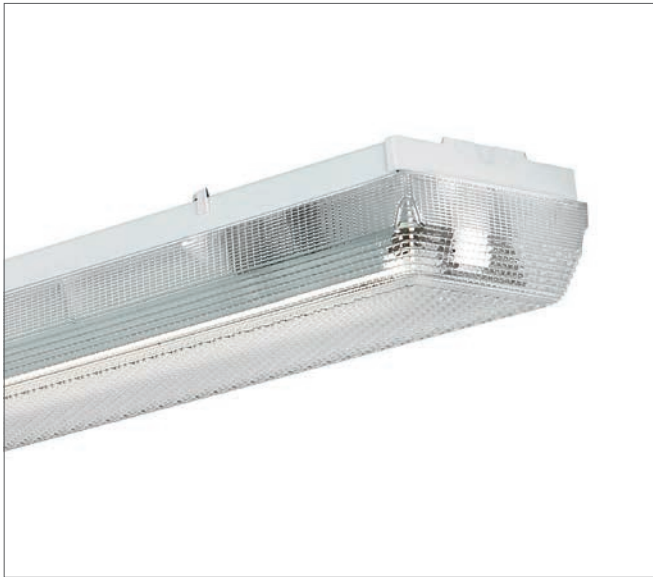
**Accessories**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Suspension kit	set of 4	0.1	4050300792200	OLN91301

www.TESLI.com



# Europlex®



Diffuser luminaires from the Europlex® family are suitable for a wide range of applications with their protection ratings and various lamping options. Some luminaire types even comply with the stringent conditions for earthquake resistance such as required for nuclear power plants. The following light distribution patterns can be achieved with the various covers and specular reflectors: wide distribution with ceiling illumination, both symmetric or asymmetric (with prismatic cover) or diffuse distribution with ceiling illumination with the opal luminaire cover. The flat upper luminaire housing component is constructed with torsionally rigid sheet steel, giving the Europlex® luminaires a high degree of stability even when suspended.

## Features

- specific versions with certification for earthquake resistance, therefore suitable for e.g. nuclear power plants and civil defense buildings
- high-grade diffuser and sealings for protection against dust
- high inherent stability even with suspended installation
- luminaires have same contours with varying light sources
- with attractive diffusers for homogeneous room illumination and a pleasant ambience
- easy mounting with simple fixing of cover via twist-lock catches

## Lighting technology

Prismatic cover with external prisms, for direct wide distribution

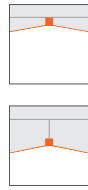
- with highly specular aluminum reflector, symmetric distribution
- with highly specular aluminum reflector, asymmetric distribution
- without reflector, direct wide distribution with ceiling illumination  
opal cover, diffuse distribution with ceiling illumination

## Electrics

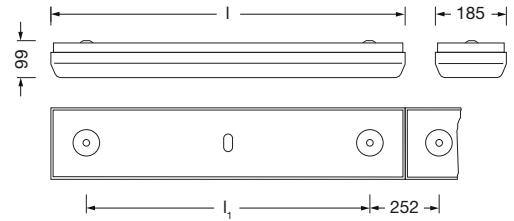
Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry suitable for cables  $D \leq 10.5\text{mm}$  (luminaires with narrow housing) or  $D \leq 12\text{mm}$  (luminaires with wide housing) | through-wiring above luminaire possible via sheathed cable (e.g. NYM) for continuous row mounting

## Housing

Flat housing of torsionally rigid sheet steel, pure white (similar to RAL 9010); with plastic end caps, white | cover of impact-resistant, non-yellowing PMMA, cast from one piece and completely recyclable | diffuser fixing with twist lock catches

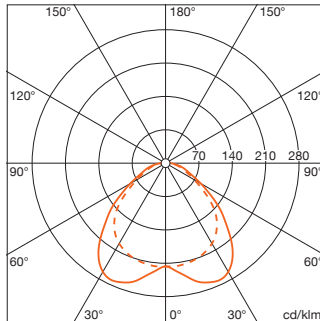


T26  
G13



4039806605689  
5LJ23572CX3

2 x T26 36W/840  $\phi$  6400 lm



$\eta_{LB}$  71.7%  $\phi_{\downarrow}$  96%  $\phi_{\uparrow}$  4%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1363	2641
L <sub>70</sub>	1888	2778
L <sub>65</sub>	2224	3034

UGR 19.5 19.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Europlex® for T26 lamps with prismatic cover | with specular reflector; direct symmetric wide distribution**

- Diffuser luminaire for ceiling surface or suspended mounting
- with aluminum reflector, highly specular, direct symmetric wide distribution
- with prismatic cover
- with ECG
- housing of sheet steel, pure white (similar to RAL 9010)

- end caps of plastic, pure white (similar to RAL 9010)
- cover of PMMA
- protection rating: IP50
- insulation class: I



**Light source**

		$l$ [mm]	$h$ [mm]		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
1x T26 36W	G13	1270	1020	3.4	4039806605603	5LJ23571CX3
1x T26 58W	G13	1570	1320	3.9	4039806605627	5LJ23571EX3
2x T26 36W	G13	1270	1020	3.7	4039806605689	5LJ23572CX3
2x T26 58W	G13	1570	1320	4.2	4039806605702	5LJ23572EX3

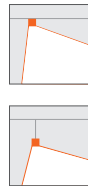
**No. of luminaires in room**

Reflection factors 70/50/20

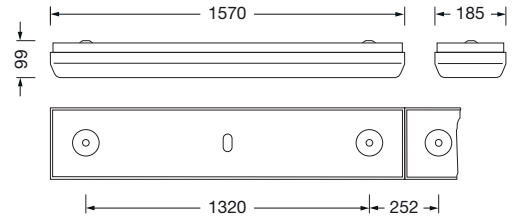
Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.3	1.5	3.4	3.8
30 m <sup>2</sup>	1.0	1.1	2.0	2.3	4.9	5.7
40 m <sup>2</sup>	1.3	1.4	2.6	2.9	6.4	7.1
50 m <sup>2</sup>	1.5	1.7	3.1	3.4	7.7	8.5
75 m <sup>2</sup>	2.2	2.4	4.4	4.9	11	12
100 m <sup>2</sup>	2.9	3.1	5.8	6.2	15	16
500 m <sup>2</sup>	13	14	27	27	67	69

Maintenance factor 0.8

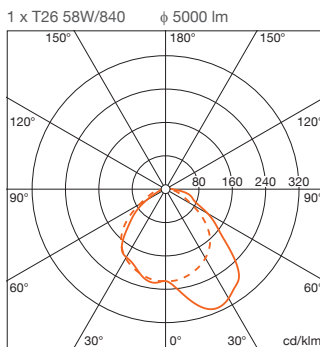
Rh = Lh



T26  
G13



4039806605665  
5LJ23571EX4



$\eta_{LB}$  71.6%  
 $I_{max}$  311 cd/klm at  $\gamma$  25°

**Europlex® for T26 lamps**

**with prismatic cover | with specular reflector; direct asymmetric wide distribution**

Diffuser luminaire for ceiling surface or suspended mounting  
 - with aluminum reflector, highly specular, direct asymmetric distribution; with prismatic cover  
 - with ECG  
 - housing of sheet steel, pure white (similar to RAL 9010)

- end caps of plastic, pure white (similar to RAL 9010)
- cover of PMMA
- protection rating: IP50
- insulation class: I



No. of luminaires in room		Reflection factors 70/50/20				
Em(lx)	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.9	1.0	1.7	2.0	4.3	5.0
30 m <sup>2</sup>	1.3	1.5	2.6	2.9	6.4	7.3
40 m <sup>2</sup>	1.7	1.8	3.3	3.7	8.3	9.2
50 m <sup>2</sup>	2.0	2.2	4.0	4.4	10.0	11
75 m <sup>2</sup>	2.9	3.1	5.8	6.2	14	16
100 m <sup>2</sup>	3.8	4.0	7.5	8.1	19	20
500 m <sup>2</sup>	17	18	34	36	86	89

Maintenance factor 0.8 Rh = Lh

**Light source**

1x T26 58W



G13



4.0

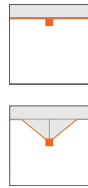
**Order no.**  
**OSRAM**

4039806605665

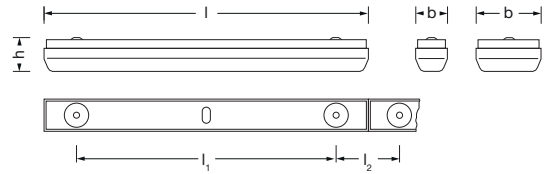
**Order no.**  
**Siteco**

5LJ23571EX4



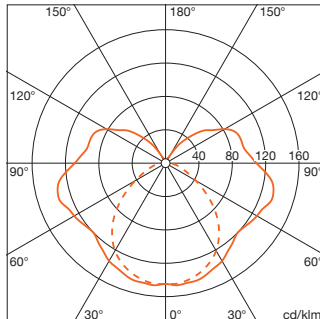


T26  
G13



4039806605269  
5LJ23571E

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  81.8%  $\phi_{\downarrow}$  73%  $\phi_{\uparrow}$  27%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	4867	2051
L <sub>70</sub>	4393	2092
L <sub>65</sub>	4011	2320

UGR 23.9 17.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.2	2.5	5.4	6.3
30 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.5	8.6
40 m <sup>2</sup>	1.9	2.1	3.8	4.3	9.6	11
50 m <sup>2</sup>	2.3	2.5	4.6	5.1	11	13
75 m <sup>2</sup>	3.2	3.5	6.3	6.9	16	17
100 m <sup>2</sup>	4.1	4.4	8.2	8.9	20	22
500 m <sup>2</sup>	17	18	35	36	86	90

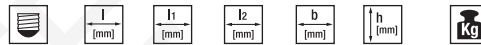
Maintenance factor 0.8 Rh = Lh + 0.5 m

**Europlex® for T26 lamps with prismatic cover | wide distribution with ceiling illumination**

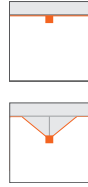
- Diffuser luminaire for ceiling surface
- end caps of plastic, pure white (similar to RAL 9010)
- wide distribution with ceiling illumination
- cover of PMMA
- with prismatic cover
- protection rating: IP40 or IP50 (according to construction)
- with ECG
- insulation class: I
- housing of sheet steel, pure white (similar to RAL 9010)



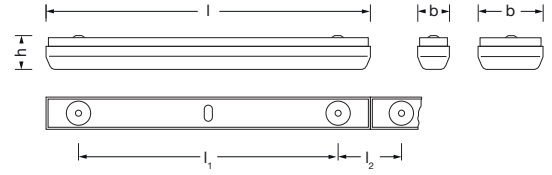
**Light source**



		$l$ [mm]	$l_1$ [mm]	$l_2$ [mm]	$b$ [mm]	$h$ [mm]	$\rho$	Order no. OSRAM	Order no. Siteco
<b>IP40</b>									
1x T26 36W	G13	1270	1020	252	92	99	2.1	4039806616128	5LJ23971C
1x T26 58W	G13	1570	1320	252	92	99	2.5	4039806616135	5LJ23971E
2x T26 36W	G13	1270	1020	252	185	99	3.2	4039806604910	5LJ23972C
2x T26 58W	G13	1570	1320	252	185	99	3.7	4039806604972	5LJ23972E
<b>IP50</b>									
1x T26 18W	G13	660	475	187	92	99	1.2	4039806606822	5LJ23571A
1x T26 36W	G13	1270	1020	252	92	99	2.1	4039806605207	5LJ23571C
1x T26 36W	G13	1270	1020	252	92	99	3.1	4039806605566	5LJ23571CX1
1x T26 58W	G13	1570	1320	252	92	99	2.4	4039806605269	5LJ23571E
1x T26 58W	G13	1570	1320	252	92	99	3.6	4039806605580	5LJ23571EX1
2x T26 18W	G13	660	475	187	185	99	1.7	4039806606853	5LJ23572AX1
2x T26 36W	G13	1270	1020	252	185	99	3.2	4039806605238	5LJ23572CX1
2x T26 58W	G13	1570	1320	252	185	99	3.8	4039806605290	5LJ23572EX1
4x T26 18W	G13	670	520	152	670	92	4.9	4039806605320	5LJ23574A

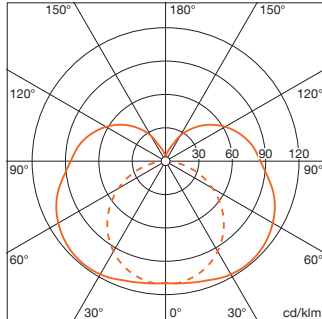


T26  
G13



4039806605146  
5LJ23471E

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  73.2%  $\phi_{\downarrow}$  71%  $\phi_{\uparrow}$  29%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3536	2058
L <sub>70</sub>	3418	2774
L <sub>65</sub>	3367	2984

UGR 22.4 18.2

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	
20 m <sup>2</sup>	1.2	1.4	2.4	2.9	6.1	7.2						
30 m <sup>2</sup>	1.7	1.9	3.4	3.9	8.5	9.7						
40 m <sup>2</sup>	2.1	2.4	4.3	4.8	11	12						
50 m <sup>2</sup>	2.5	2.9	5.1	5.7	13	14						
75 m <sup>2</sup>	3.6	3.9	7.1	7.8	18	20						
100 m <sup>2</sup>	4.6	5.0	9.2	10.0	23	25						
500 m <sup>2</sup>	19	20	39	40	97	101						

Maintenance factor 0.8

Rh = Lh + 0.5 m

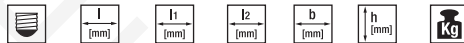
**Europlex® for T26 lamps**  
with opal cover | diffuse distribution with ceiling illumination

Diffuser luminaire for ceiling surface or suspended mounting  
 - diffuse distribution  
 - with opal cover  
 - with ECG  
 - housing of sheet steel, pure white (similar to RAL 9010)

- end caps of plastic, pure white (similar to RAL 9010)
- cover of PMMA
- protection rating: IP40 or IP50 (according to construction)
- insulation class: I



**Light source**



**IP40**

	G13	l [mm]	h [mm]	l <sub>2</sub> [mm]	b [mm]	h [mm]	kg	Order no. OSRAM	Order no. Siteco
1x T26 36W	G13	1270	1020	252	92	99	2.1	4039806604651	5LJ23871C
1x T26 58W	G13	1570	1320	252	92	99	2.5	4039806604729	5LJ23871E
2x T26 36W	G13	1270	1020	252	185	99	3.2	4039806604699	5LJ23872C
2x T26 58W	G13	1570	1320	252	185	99	3.6	4039806604767	5LJ23872E

**IP50**

	G13	l [mm]	h [mm]	l <sub>2</sub> [mm]	b [mm]	h [mm]	kg	Order no. OSRAM	Order no. Siteco
1x T26 18W	G13	660	475	187	92	99	1.2	4039806604613	5LJ23471A
1x T26 36W	G13	1270	1020	252	92	99	2.1	4039806605085	5LJ23471C
1x T26 58W	G13	1570	1320	252	92	99	2.6	4039806605146	5LJ23471E
2x T26 18W	G13	660	475	187	185	99	1.8	4039806606846	5LJ23472A
2x T26 36W	G13	1270	1020	252	185	99	3.3	4039806605115	5LJ23472C
2x T26 58W	G13	1570	1320	252	185	99	4.0	4039806605177	5LJ23472E
4x T26 18W	G13	670	520	152	670	92	5.0	4039806605054	5LJ23474A

## Europlex® electrical accessories



### Supplementary terminal

for installation in luminaire

Designation	Order no. OSRAM	Order no. Siteco
2x max. 2.5mm <sup>2</sup> (L2, L3)	4039806369246	5LY9114

- for 5-pole luminaire connection or 5-core through-wiring: 1 piece required per luminaire
- wiring from luminaire to luminaire on upper side of luminaire with sheathed cable (e.g. NYM)

## Europlex® mounting accessories



### Universal luminaire suspension

for wire ( $\varnothing \leq 4.5\text{mm}$ ) or chain (inner  $\varnothing \geq 7\text{mm}$ ) | load capacity: 25kg

Designation	Order no. OSRAM	Order no. Siteco
Suspension galvanized, partly V2A	4039806167521	5LY9086



### Chain, galvanized

inner link size 7 x 40mm | load capacity: 56kg

Designation	Order no. OSRAM	Order no. Siteco
Chain, galvanized	4039806999856	5LY9005

- chain: per meter



### Mounting element

for luminaire mounting to unwired DUS® trunking rail

Designation	Order no. OSRAM	Order no. Siteco
Mounting element	4039806369253	5LY9142

- 2 pieces required per luminaire
- for DUS® mounting rail and accessories, see chapter 8
- wiring from luminaire to luminaire on upper side of luminaire with sheathed cable (e.g. NYM)



### Turnbuckle

for wire | load capacity: 45kg

Designation	Order no. OSRAM	Order no. Siteco
Turnbuckle	4039806167712	5LY9140

For more information on DUS® trunking rails (without through-wiring) and accessories, see **chapter 9**

## Europlex® spare parts



### Prismatic optical enclosure

for Europlex® 5LJ235... | 5LJ239... surface-mounted luminaire | optical enclosure of PMMA with rounded edges | also suitable for predecessor version 5LJ229...

Designation	Light source	Order no. OSRAM	Order no. Siteco
Optical enclosure	1x T26 18W	4039806439253	5LJ23201AW
Optical enclosure	1x T26 36W*	4039806439277	5LJ23201CW
Optical enclosure	1x T26 58W*	4039806439291	5LJ23201EW
Optical enclosure	2x T26 18W	4039806439314	5LJ23202AW
Optical enclosure	2x T26 36W	4039806439338	5LJ23202CW
Optical enclosure	2x T26 58W	4039806439352	5LJ23202EW
Optical enclosure	4x T26 18W	4039806439376	5LJ23204AW

\*with luminaire with symm. or asymm. distribution reflector: use twin lamp optical enclosure

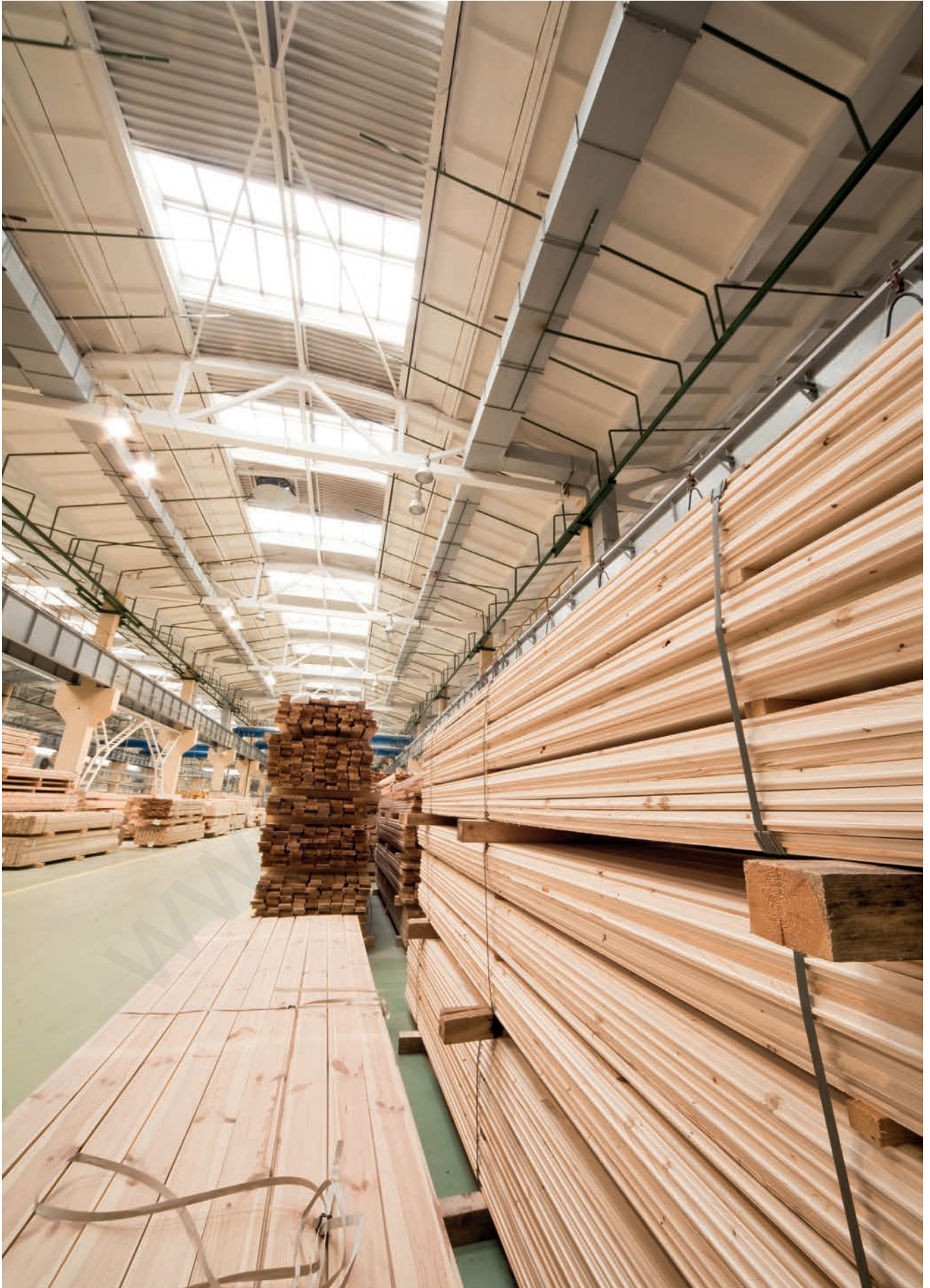


### Opal optical enclosure

for Europlex® 5LJ234... | 5LJ238... surface-mounted luminaire | optical enclosure of PMMA with rounded edges | also suitable for predecessor version 5LJ224... | 228...

Designation	Light source	Order no. OSRAM	Order no. Siteco
Optical enclosure	for 1x T26 18W	4039806439116	5LJ23101AW
Optical enclosure	for 1x T26 36W	4039806439130	5LJ23101CW
Optical enclosure	for 1x T26 58W	4039806439154	5LJ23101EW
Optical enclosure	for 2x T26 18W	4039806439178	5LJ23102AW
Optical enclosure	for 2x T26 36W	4039806439192	5LJ23102CW
Optical enclosure	for 2x T26 58W	4039806439215	5LJ23102EW
Optical enclosure	for 4x T26 18W	4039806439239	5LJ23104AW









**LED batten luminaires**



LUMILUX®  
Combi LED  
Page 7.3



LJ100 LED  
Page 7.5

**Batten luminaires**



OSRAM  
ECOPACK®  
Page 7.9



LJ100  
Page 7.15



OSRAM  
MINI5® ECO  
Page 7.21



LUMILUX®  
COMBI EL  
Page 7.23



LUMILUX®  
VARIO EL  
Page 7.29

**LED under cabinet luminaires, line-shaped illumination**



LEDVANCE®  
LINEAR  
Page 7.31



LUMINESTRA® LED  
Page 7.35



SLIMSHAPE LED  
Page 7.37

**Under cabinet luminaires, line-shaped illumination**



LUMINESTRA® EL  
Page 7.41



SLIMLITE® EL  
Page 7.43

**LED under cabinet luminaires, light points**



LEDVANCE®  
DOWNLIGHT S  
Page 7.45



QOD®  
Page 7.47

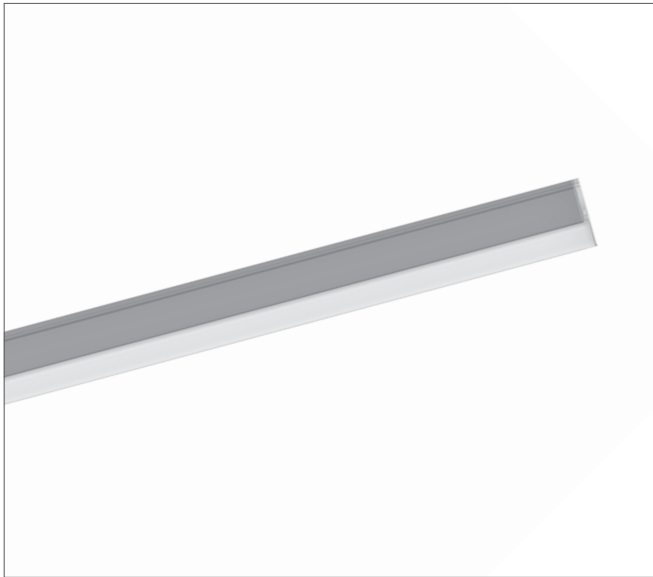


QOD DOMINO®  
Page 7.49





# LUMILUX® Combi LED



The universal LUMILUX® Combi LED batten luminaire features high energy efficiency and ease of installation: Due to its low profile, as a ready to connect, single luminaire, it can be quickly and conveniently installed using mounting clips, even where space is at a premium. Using the connecting adapters supplied, uninterrupted lines of light can be produced, without dark spots, which can be up to 15 meters long. Thanks to the careful selection of the LED used (binning) there are no visible differences in the color of the light when arranged in rows. With its opal cover, the LUMILUX® Combi LED produces glare-free light which is widely and evenly distributed, is easy on the eyes and creates a pleasant environment. It is suitable for use both in or under cupboards, showcases, visible shelving and as cove lighting as well as for elegant wall and ceiling lighting for corridors, hobby rooms and cellars.

## Features

- LUMILUX® Combi LED is the universal LED batten luminaire with integrated ECG
- suitable as ready-to-connect single luminaire, even when space is tight
- uninterrupted, continuous line of light without dark spots up to 15 meters
- angled configuration possible thanks to flexible connecting cable
- permissible ambient temperature range up to 40°C
- high energy efficiency up to almost 100lm/W
- mounting clips make installation quick and easy
- all accessories are included (power cable with Europlug, connecting adapter, connecting cable, installation material)

## Lighting technology

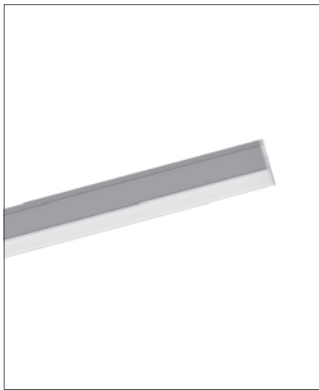
With an opal cover to evenly distribute the light over an extremely wide range | no visible difference in the color of the light when arranged in rows (tight binning)

## Electrics

With a 2m power cable and a Europlug | cable inlet at the end | for single or row configuration | uninterrupted line of light with connecting piece, rows need not be straight if connecting cable is used | ECG is integrated into the luminaire

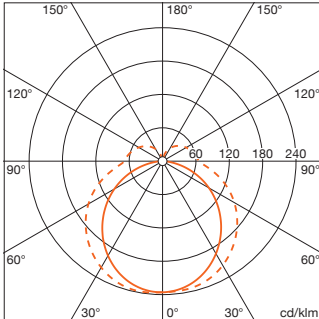
## Housing

Anodized aluminum housing with polycarbonate cover | includes stainless steel mounting clips



4052899909311  
0LJ211717830

1 x LED ww  $\phi$ N 1800 lm



**LUMILUX® Combi LED; for single or row configuration**  
the light distribution is extremely wide | with a power cable and Europlug

- Luminaire for single or row configuration, wall or ceiling-mounted or for mounting in furniture
- extremely wide light distribution
  - with opal cover
  - no visible difference in color when arranged in rows (tight binning)
  - with integrated ECG
  - power cable with Europlug
  - anodized aluminum housing
  - polycarbonate cover
  - stainless steel mounting clips
  - protection rating: IP20
  - insulation class: II

**General:**

- includes power cable, connecting adapter, connecting cable, mounting clips



Light source	K	R <sub>a</sub>	lm	W SYSTEM	l [mm]	kg	ECG LLLCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	850	10	580	0.4	ECG	4052899909298	0LJ211710830
LED	4000	> 80	950	10	580	0.4	ECG	4052899909304	0LJ211710840
LED	3000	> 80	1650	18	1180	0.7	ECG	4052899909311	0LJ211717830
LED	4000	> 80	1780	18	1180	0.7	ECG	4052899909328	0LJ211717840

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



## LJ100 LED



The LJ100 LED batten luminaire without a diffuser, for wall, ceiling or pendant mounting, is optimized for the use of one or two OSRAM SubstiTUBE® LED tubes. The combination of this LED tube with its matching electronic control gear results in a highly innovative and harmonized system. The cover for this slim batten luminaire is easy to fit without tools. Using suitable reflectors, the light can be widely distributed, either symmetrically or asymmetrically.

### Features

- modern, efficient lamp technology in an optimized, technically harmonized system consisting of LED tubes and electronic control gear
- high service life with almost unlimited switching
- instant and complete luminous flux at low and high ambient temperatures
- mercury-free lamp technology
- ideal for areas which are difficult to access due to its long service life and correspondingly long maintenance cycles
- high system service life of up to 40,000h → reduced maintenance costs compared to T16 and T26 technology
- compact very slim design for installation where space is tight
- cover and suspension bracket easy to install without tools
- wired and ready to connect, prepared for simple through-wiring

### Lighting technology

LED tube with direct, extremely wide light distribution

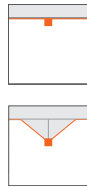
- with optional reflector, direct, wide distribution of light
- with optional reflector, direct, asymmetric light distribution

### Electrics

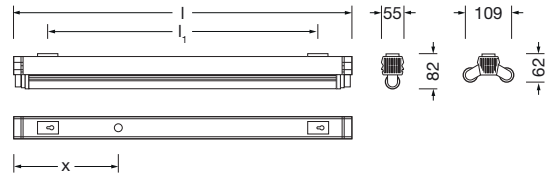
The luminaire is wired and ready to connect | with 3-pole terminal strip, max. 2.5mm<sup>2</sup> | luminaire includes OSRAM SubstiTUBE® EXT Advanced LED tube

### Housing

The housing is made of sheet steel and the ends are made of plastic, pure white (similar to RAL 9010) | the ends are attractively ribbed to interlock and align when arranged in rows

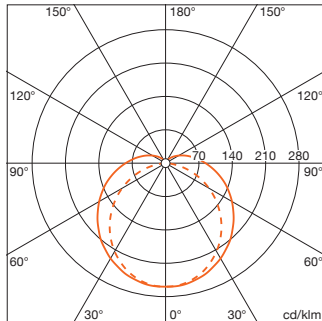


LED



4050737093079  
5LJ100L1YL

1 x T8 LED Tube 840  $\phi$  3080 lm



$\eta_{LB}$  100%  $\phi_{\downarrow}$  88%  $\phi_{\uparrow}$  12%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	13218	11116
L <sub>70</sub>	13510	15177
L <sub>65</sub>	13701	16264

UGR 27.4 24.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Lh(m)	Em(lx)	Lh(m)	Em(lx)	Lh(m)	Em(lx)
20 m <sup>2</sup>	1.2	1.4	2.4	2.8	5.9	6.9
30 m <sup>2</sup>	1.7	2.0	3.5	3.9	8.7	9.8
40 m <sup>2</sup>	2.2	2.5	4.4	4.9	11	12
50 m <sup>2</sup>	2.6	2.9	5.2	5.8	13	15
75 m <sup>2</sup>	3.7	4.1	7.5	8.1	19	20
100 m <sup>2</sup>	4.8	5.2	9.6	10	24	26
500 m <sup>2</sup>	21	22	42	43	105	109

Maintenance factor 0.8 Rh = Lh + 0.5 m

**LJ100 LED without diffuser with LED tube**

Batten luminaire for ceiling or pendant mounting

- without diffuser
- with electronic control unit for OSRAM SubstiTUBE® LED tube
- sheet steel housing, pure white (similar to RAL 9010)

- plastic end caps, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I
- luminaire including LED tube: OSRAM SubstiTUBE® EXT Advanced

- the ends are attractively ribbed to interlock and align when arranged in rows



**Light source**

								Order no. OSRAM	Order no. Siteco
1x LED tube 25 W	G13	2380	32	1232	850	466	2.3	4050737093062	5LJ100L1YK
1x LED tube 32 W	G13	3080	37	1532	1150	766	2.6	4050737093079	5LJ100L1YL
2x LED tube 25 W	G13	4770	64	1232	850	466	2.2	4050737093086	5LJ100L2YK
2x LED tube 32 W	G13	6160	75	1532	1150	766	2.7	4050737093093	5LJ100L2YL

**Accessories**

**Designation**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x LED tube 25 W	0.3	4039806781543	5LJ10001CB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x LED tube 25 W	0.4	4039806781833	5LJ10101CB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x LED tube 32 W	0.4	4039806781550	5LJ10001EB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x LED tube 32 W	0.5	4039806781840	5LJ10101EB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x LED tube 25 W	1.3	4039806781567	5LJ10002CB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x LED tube 32 W	0.6	4039806781574	5LJ10002EB



**Siteco® batten luminaire accessories**

**Reflector**

direct light distribution | sheet steel housing, pure white (similar to RAL 9010) | incl. fixing screws



**Designation**

**Order no. OSRAM**

**Order no. Siteco**

symmetric light distribution

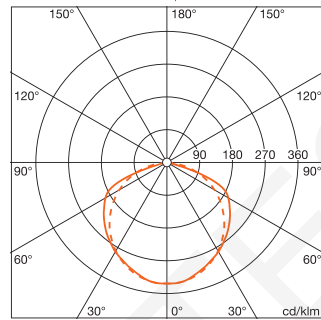
1x LED tube 25 W	4039806781543	5LJ10001CB
1x LED tube 32 W	4039806781550	5LJ10001EB
2x LED tube 25 W	4039806781567	5LJ10002CB
2x LED tube 32 W	4039806781574	5LJ10002EB

asymmetric light distribution

1x LED tube 25 W	4039806781833	5LJ10101CB
1x LED tube 32 W	4039806781840	5LJ10101EB

4050737093079 + 4039806781550  
5LJ100L1YL + 5LJ10001EB

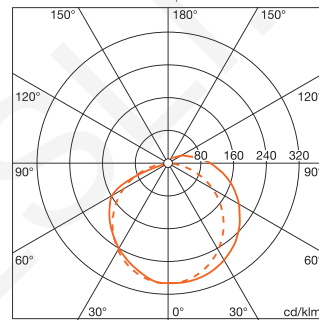
1 x T8 LED Tube 840  $\phi$  2870 lm



$\eta_{LB}$  100%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

4050737093079 + 4039806781840  
5LJ100L1YL + 5LJ10101EB

1 x T8 LED Tube 840  $\phi$  3020 lm



$\eta_{LB}$  100%  
 $I_{max}$  294 cd/klm at  $\gamma$  5°

### Siteco® batten luminaire, optional installation accessories



#### V2A suspension bracket

for installation close to the ceiling or for pendant mounting e.g. with chain | hooks into the batten luminaire at the specified fixing points | incl. strain relief for the power cable

Designation	PU	Order no. OSRAM	Order no. Siteco
V2A suspension bracket	set of 2	4039806616159	5LJ10010XC



#### Knotted-link chain

inner link size 5.6 x 31 mm | load capacity: 40kg

Designation	Order no. OSRAM	Order no. Siteco
Chain, galvanized	4039806184290	5LY9001
Knotted-link chain, V2A	4039806184313	5LY9002

— chain: per meter



#### Quick-release link

inner link size 5 x 16 mm | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Spare link, V2A	4039806184368	5LY9004



# OSRAM ECOPACK® T16



The universal, efficient T16 batten luminaire, OSRAM ECOPACK®, is very cost-effective and produces high-quality light: The prismatic cover ensures that light is distributed widely, very evenly and pleasantly within the room. In the version without a diffuser, the maximum luminous flux is available. As an optional accessory, a push-fit louver provides particular flexibility, with which the OSRAM ECOPACK® can even be used as lighting for computer workstations at low wattages (unified glare rating < 16). The batten luminaire can also be pendant-mounted with the optional cable accessory.

## Features

- depending on the version, either without a lamp and diffuser or fitted with a LUMILUX® T5 HE 830 fluorescent lamp and a prismatic cover to evenly distribute the light
- luminaire either with ECG, ECG 1...10V or ECG DALI
- pendant mounting via optional kit
- suitable for computer workplaces, unified glare rating < 16, can be fitted with low wattage via push-fit louver (accessory)

## Lighting technology

Depending on the version, either without a diffuser or fitted with a prismatic cover to evenly distribute the light very widely, suitable for computer workplaces, unified glare rating < 16, can be fitted with low wattage via push-fit louver (accessory)

## Electrics

For permanent wiring via connecting terminals, 3x max. 1.5mm<sup>2</sup>, for ECG 1...10V and ECG DALI: 3-pole + 2-pole for control signal | cable inlet on rear side | in part, without lamp or with fluorescent lamp | ECG integrated into the luminaire | version without cover suitable for both LUMILUX® T5 HE as well as LUMILUX® T5 HO

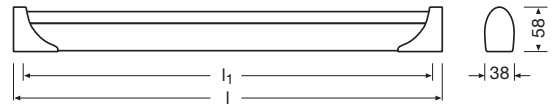
## Housing

Sheet steel housing, traffic white (RAL 9016), polycarbonate end cap, white | pendant kit (accessory) to suspend luminaire, consisting of pendant cable to suspend max. 2m from the ceiling





T16  
G5



**OSRAM ECOPACK® for T16 lamps for single configuration without diffuser**

Batten luminaire for wall or ceiling mounting, pendant mounting or installation in furniture

- without diffuser, with glare restrictor, unified glare rating < 16
- with ECG

- sheet steel housing, traffic white (RAL 9016)
- polycarbonate end caps, white
- protection rating: IP20
- insulation class: I
- impact resistance: IK07



**Light source**

ECG Multiwatt

						<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
1x T16 14/24 W	G5	584	538	0.7	Multi	4008321257413	OLN1071B0
1x T16 21/39 W	G5	884	838	0.9	Multi	4008321257437	OLN1071L0
1x T16 28/54 W	G5	1184	1138	1.0	Multi	4008321257451	OLN1071H0
1x T16 35/49/80 W	G5	1484	1538	1.3	Multi	4008321259479	OLN1071Q0

ECG Multiwatt 1...10V

1x T16 14/24 W	G5	584	538	0.7	Multi 1...10V	4008321259493	OLN1061B0
1x T16 21/39 W	G5	884	838	0.9	Multi 1...10V	4008321259516	OLN1061L0
1x T16 28/54 W	G5	1184	1138	1.0	Multi 1...10V	4008321259530	OLN1061H0
1x T16 35/49/80 W	G5	1484	1538	1.3	Multi 1...10V	4008321259554	OLN1061Q0

ECG Multiwatt DALI

1x T16 14/24 W	G5	584	538	0.7	Multi DALI	4008321259578	OLN10D1B0
1x T16 21/39 W	G5	884	838	0.9	Multi DALI	4008321259592	OLN10D1L0
1x T16 28/54 W	G5	1184	1138	1.0	Multi DALI	4008321259615	OLN10D1H0
1x T16 35/49/80 W	G5	1484	1538	1.3	Multi DALI	4008321259639	OLN10D1Q0

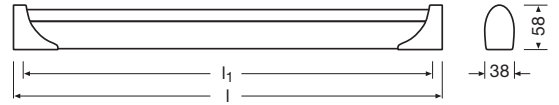
- please order louver to restrict glare separately

**Accessories**

<b>Designation</b>	<b>PU</b>	<b>Wt. (kg)</b>	<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
Specular louver, aluminum for 1x T16 14/24 W	set of 4	0.2	4008321079886	OLN111001B
Specular louver, aluminum for 1x T16 21/39 W	set of 4	0.3	4008321079909	OLN111001L
Specular louver, aluminum for 1x T16 28/54 W	set of 4	0.4	4008321080424	OLN111001H
Specular louver, aluminum for 1x T16 35/49/80 W	set of 4	0.4	4008321080448	OLN111001Q
Pendant kit	set of 4	0.1	4050300792200	OLN91301

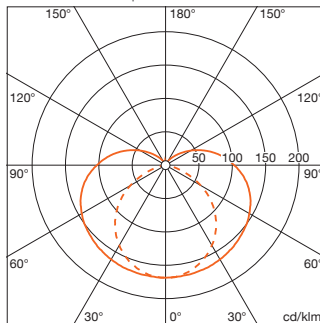


T16  
G5



4050300659251  
OLN1161P830

1 x T16 28W  $\phi$  2720 lm



$\eta_{LB}$  82,7%

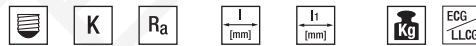
**OSRAM ECOPACK® with T16 lamps for single configuration with prismatic cover**

- Batten luminaire for wall or ceiling mounting, pendant mounting or installation on furniture
- extremely wide light distribution
- with prismatic cover
- with ECG
- sheet steel housing, traffic white (RAL 9016)
- polycarbonate end caps, white

- polycarbonate cover
- protection rating: IP20
- insulation class: I
- impact resistance: IK07
- includes OSRAM LUMILUX® T5 830 HE fluorescent lamp



**Light source**



**Order no.**  
**OSRAM**

**Order no.**  
**Siteco**

**ECG**

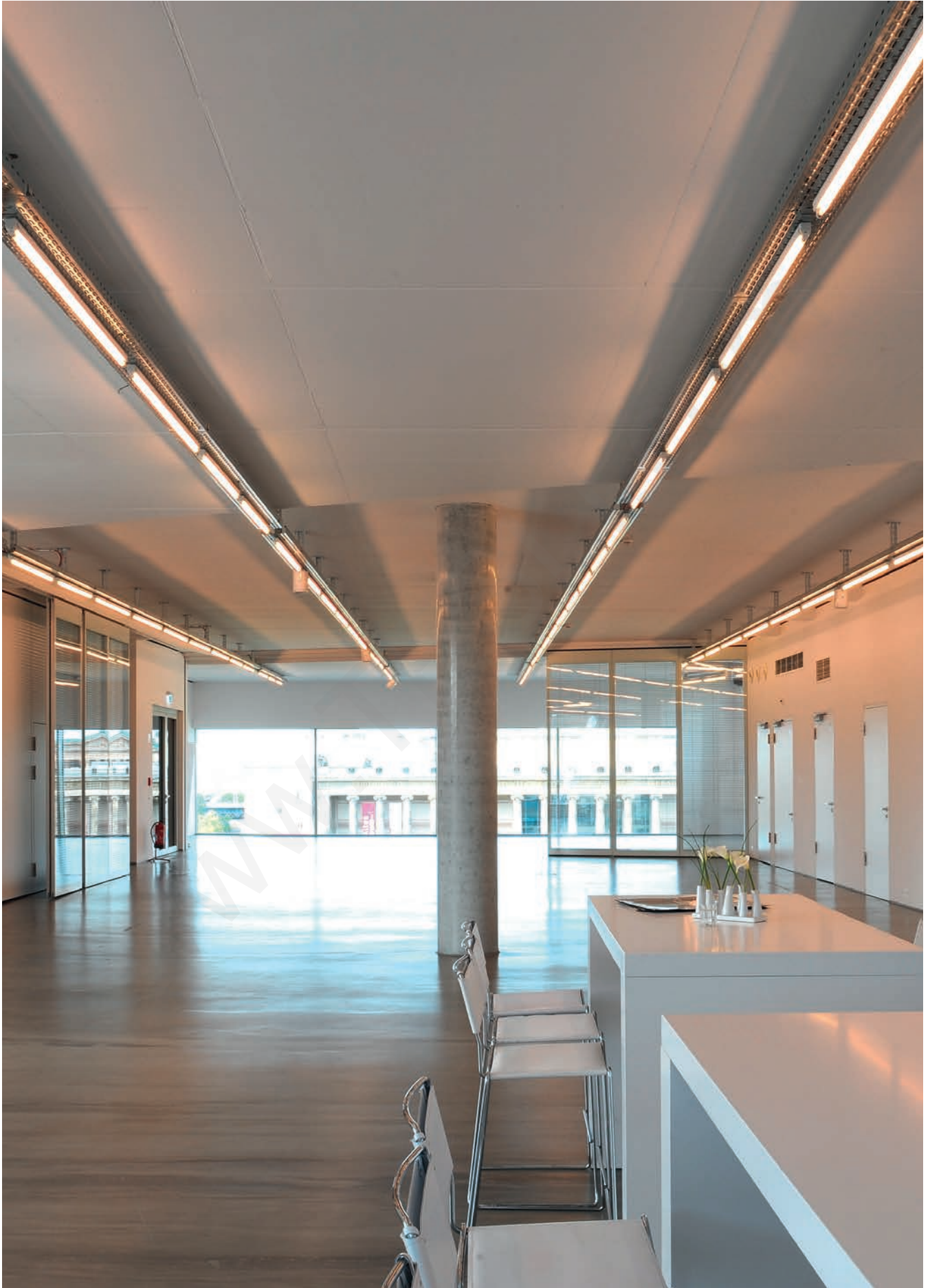
1x T16 14 W	G5	3000	> 80	584	538	0.9	ECG	4050300513249	OLN1171M830V2
1x T16 21 W	G5	3000	> 80	884	838	1.0	ECG	4050300513263	OLN1171N830V2
1x T16 28 W	G5	3000	> 80	1184	1138	1.2	ECG	4050300513287	OLN1171P830V2
1x T16 35 W	G5	3000	> 80	1484	1438	1.4	ECG	4050300513300	OLN1171R830V2

**ECG 1...10V**

1x T16 14 W	G5	3000	> 80	584	538	0.9	1...10V	4050300659213	OLN1161M830
1x T16 21 W	G5	3000	> 80	884	838	1.0	1...10V	4050300659237	OLN1161N830
1x T16 28 W	G5	3000	> 80	1184	1138	1.2	1...10V	4050300659251	OLN1161P830
1x T16 35 W	G5	3000	> 80	1484	1438	1.4	1...10V	4050300659275	OLN1161R830

**Accessories**

<b>Designation</b>	<b>PU</b>	<b>Wt. (kg)</b>	<b>Order no.</b> <b>OSRAM</b>	<b>Order no.</b> <b>Siteco</b>
Pendant kit	set of 4	0.1	4050300792200	OLN91301



# OSRAM ECOPACK® T26



The universal OSRAM ECOPACK® T26 batten luminaire offers designers new options for intelligent light and light which efficiently meets the particular needs. For maximum luminous flux, OSRAM ECOPACK® comes without a diffuser. The batten luminaire can also be pendant-mounted with the optional cable accessory.

## Features

- universal, cost-effective batten luminaire
- luminaire without diffuser for maximum luminous flux
- luminaire optionally with ECG or ECG 1...10V
- pendant mounting via optional kit

## Lighting technology

Luminaire without diffuser

## Electrics

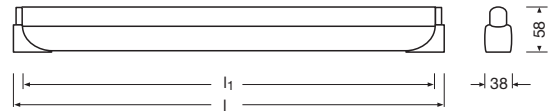
For permanent wiring via connecting terminals , 3x max. 1.5 mm<sup>2</sup>, for ECG 1...10V: 3-pole + 2-pole for control signal | cable inlet on rear side | ECG integrated into the luminaire

## Housing

Steel housing, traffic white (RAL 9016), polycarbonate end cap, white | pendant kit (accessory) to suspend luminaire, consisting of pendant cable to suspend max. 2m from the ceiling

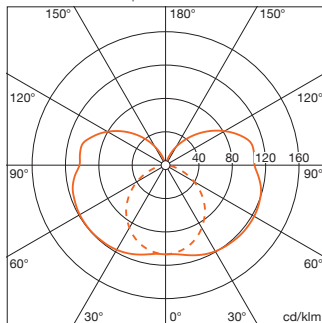


T26  
G13



4050300528359  
OLN1071C0

1 x T26 36W  $\phi$  3200 lm



<sup>1)</sup>LB 79,7%

**OSRAM ECOPACK® for T26 lamps for single configuration without diffuser**

Batten luminaire for wall or ceiling mounting, pendant mounting or installation in furniture  
 — extremely wide light distribution  
 — with ECG

- Sheet steel housing, traffic white (RAL 9016), polycarbonate end caps, white
- protection rating: IP20
- insulation class: I
- impact resistance: IK07



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

ECG

Light source	Base	L [mm]	l1 [mm]	Kg	ECG L LCG	Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	618	540	0.6	ECG	4050300562124	OLN1071A0
1x T26 36 W	G13	1228	1150	1.0	ECG	4050300528359	OLN1071C0
1x T26 58 W	G13	1528	1450	1.3	ECG	4050300528373	OLN1071E0

ECG 1...10V

Light source	Base	L [mm]	l1 [mm]	Kg	1...10V	Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	618	540	0.6	1...10V	4050300561981	OLN1061A0
1x T26 36 W	G13	1228	1150	1.0	1...10V	4050300562025	OLN1061C0
1x T26 58 W	G13	1528	1450	1.3	1...10V	4050300562070	OLN1061E0

**Accessories**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pendant kit	set of 4	0.1	4050300792200	OLN91301

# LJ100



The Siteco® batten luminaire without diffuser for ceiling, pendant or wall mounting is optimized for the use of T16 and T26 lamps, with 1 or 2 lamps fitted. T16 versions are available with multiwatt technology, which makes it possible to use different lamps in one luminaire. The cover for this slim Siteco® batten luminaire is easy to fit without tools. Using suitable reflectors, the light can be widely distributed, either symmetrically or asymmetrically.

## Features

- compact, very slim design for a wide spectrum of applications
- low profile for all lamp versions with single and twin lamp versions
- suitable for use where space is tight
- torsionally rigid, roll-formed metal housing
- housing size optimized for wide range of T16 and T26 lamp versions
- light is distributed via a reflector (either wide and symmetric or focused and asymmetric)
- energy-efficient operation via ECG, ECG 1...10V and ECG DALI for T16 or T26 lamps
- easier to install in rows due to automatic interlocking of the ribbed end caps
- cover and suspension bracket easy to install without tools
- wired ready to connect with 3-pole or 5-pole connecting terminals
- simple through-wiring

## Lighting technology

Open distribution batten

- with optional reflector, direct, wide light distribution
- with optional reflector, direct, asymmetric light distribution

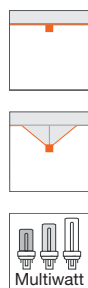
## Electrics

Luminaire is wired ready to connect | with 3-pole connecting terminals (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | versions for T26 with LLCG, see [www.siteco.com](http://www.siteco.com)

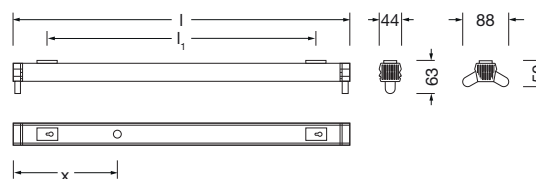
## Housing

The housing's cross-section is optimized for T16 and T26 fluorescent lamps, it is made of sheet steel and the ends are made of plastic, pure white (similar to RAL 9010) | the ends are attractively ribbed to interlock and align when arranged in rows

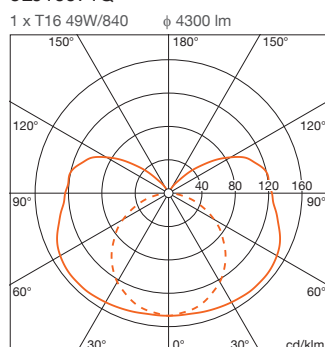




T16  
G5



4039806520128  
5LJ10071Q



$\eta_{LB}$  93.5%  $\phi_{\downarrow}$  74%  $\phi_{\uparrow}$  26%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	17959	7730
L <sub>70</sub>	15662	9558
L <sub>65</sub>	14924	10114

UGR 27.7 24.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.5	6.5
30 m <sup>2</sup>	1.5	1.8	3.1	3.5	7.7	8.8
40 m <sup>2</sup>	1.9	2.2	3.9	4.4	9.7	11
50 m <sup>2</sup>	2.3	2.6	4.6	5.1	11	13
75 m <sup>2</sup>	3.2	3.5	6.4	7.1	16	18
100 m <sup>2</sup>	4.1	4.5	8.3	9.0	21	22
500 m <sup>2</sup>	18	18	35	36	88	91

Maintenance factor 0.8 Rh = Lh + 0.5 m

**LJ100 for T16 lamps, for single or row configuration without diffuser | with ECG Multiwatt**

Batten luminaire for ceiling or pendant mounting  
 — without diffuser  
 — with ECG Multiwatt  
 — sheet steel housing, pure white (similar to RAL 9010)

- plastic end caps, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

• the ends are attractively ribbed to interlock and align when arranged in rows

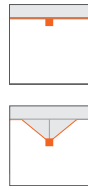


**Light source**

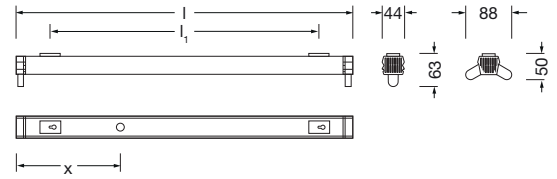
Light source		$l$ [mm]	$h$ [mm]	$X$ [mm]		ECG LLG6	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5	1173	850	731	1.2	Multi	4039806520111	5LJ10071H
1x T16 28/54 W	G5	1173	850	731	1.2	Multi DALI	4039806904225	5LJ100D1H
1x T16 28/54 W	G5	1173	850	731	1.2	Multi 1...10V	4039806905307	5LJ10061H
1x T16 35/49/80 W	G5	1473	1150	737	1.4	Multi	4039806520128	5LJ10071Q
1x T16 35/49/80 W	G5	1473	1150	737	1.4	Multi DALI	4039806571465	5LJ100D1Q
1x T16 35/49/80 W	G5	1473	1150	737	1.4	Multi 1...10V	4039806905321	5LJ10061Q
2x T16 28/54 W	G5	1173	850	731	1.3	Multi	4039806912152	5LJ10072H
2x T16 28/54 W	G5	1173	850	731	1.3	Multi DALI	4039806907691	5LJ100D2H
2x T16 28/54 W	G5	1173	850	731	1.3	Multi 1...10V	4039806912114	5LJ10062H
2x T16 35/49/80 W	G5	1473	1150	737	1.5	Multi	4039806887917	5LJ10072Q
2x T16 35/49/80 W	G5	1473	1150	737	1.5	Multi DALI	4039806907714	5LJ100D2Q
2x T16 35/49/80 W	G5	1473	1150	737	1.5	Multi 1...10V	4039806912138	5LJ10062Q

**Accessories (for details see page 7.19 ff.)**

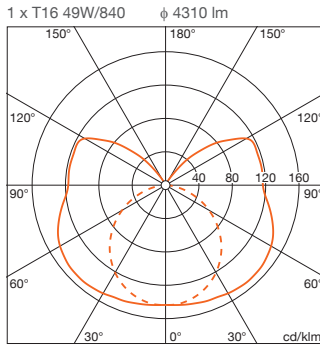
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x T16 28/54 W	0.4	4039806781680	5LJ10001UB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x T16 35/49/80 W	0.7	4039806781697	5LJ10001XB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 2x T16 28/54 W	0.3	4039806781727	5LJ10002UB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x T16 28/54 W	0.4	4039806781857	5LJ10101UB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x T16 35/49/80 W	0.5	4039806781864	5LJ10101XB



T16  
G5



4039806616449  
5LJ10071F



$\eta_{LB}$  95.2%  $\phi_{\downarrow}$  71%  $\phi_{\uparrow}$  29%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	17143	6895
L <sub>70</sub>	15121	8884
L <sub>65</sub>	14477	9639

UGR 27.8 22.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.4	6.4
30 m <sup>2</sup>	1.5	1.7	3.0	3.5	7.6	8.6
40 m <sup>2</sup>	1.9	2.2	3.9	4.3	9.6	11
50 m <sup>2</sup>	2.3	2.6	4.6	5.1	11	13
75 m <sup>2</sup>	3.2	3.5	6.3	6.9	16	17
100 m <sup>2</sup>	4.1	4.4	8.2	8.9	20	22
500 m <sup>2</sup>	17	18	35	36	86	90

Maintenance factor 0.8 Rh = Lh + 0.5 m

**LJ100 for T16 lamps, for single or row configuration without diffuser | with ECG**

Batten luminaire for ceiling or pendant mounting  
 — without diffuser  
 — with ECG  
 — sheet steel housing, pure white (similar to RAL 9010)

- plastic end caps, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

• the ends are attractively ribbed to interlock and align when arranged in rows

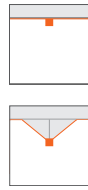


**Light source**

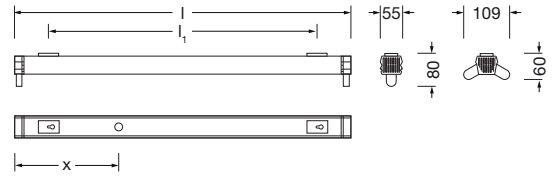
Light source		$l$ [mm]	$h$ [mm]	$x$ [mm]		ECG LLCG	Order no. OSRAM	Order no. Siteco
1x T16 14 W	G5	573	440	454	0.6	ECG	4039806611758	5LJ10071M
1x T16 24 W	G5	573	440	454	0.6	ECG	4039806616432	5LJ10071Y
1x T16 28 W	G5	1173	850	731	1.0	ECG	4039806607362	5LJ10071P
1x T16 54 W	G5	1173	1150	737	1.0	ECG	4039806607379	5LJ10071U
1x T16 35 W	G5	1473	1150	737	1.3	ECG	4039806607805	5LJ10071R
1x T16 49 W	G5	1473	1150	737	1.3	ECG	4039806616449	5LJ10071F
1x T16 80 W	G5	1473	1150	737	1.3	ECG	4039806611857	5LJ10071X
2x T16 24 W	G5	573	440	454	0.7	ECG	4039806461957	5LJ10072Y
2x T16 28 W	G5	1173	850	731	1.1	ECG	4039806607386	5LJ10072P
2x T16 54 W	G5	1173	1150	737	1.1	ECG	4039806607393	5LJ10072U
2x T16 35 W	G5	1473	1150	737	1.4	ECG	4039806609052	5LJ10072R

**Accessories (for details see page 7.19 ff.)**

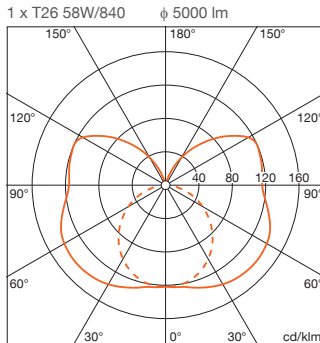
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x T16 28/54 W	0.4	4039806781680	5LJ10001UB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x T16 35/49/80 W	0.7	4039806781697	5LJ10001XB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 2x T16 28/54 W	0.3	4039806781727	5LJ10002UB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x T16 28/54 W	0.4	4039806781857	5LJ10101UB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x T16 35/49/80 W	0.5	4039806781864	5LJ10101XB



T26  
G13



4039806607508  
5LJ10071E



**LJ100 for T26 lamps, for single or row configuration without diffuser**

Batten luminaire for ceiling or pendant mounting  
 — without diffuser  
 — with ECG  
 — sheet steel housing, pure white (similar to RAL 9010)

- plastic end caps, pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

• the ends are attractively ribbed to interlock and align when arranged in rows



**Luminance values (cd/m<sup>2</sup>)**

	C 0/180	C 90/270
L <sub>80</sub>	13022	7468
L <sub>70</sub>	12281	8819
L <sub>65</sub>	12032	9282

UGR 26.8 22  
 X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**No. of luminaires in room**

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Rh(m)	Lh(m)	Rh(m)	Lh(m)	Rh(m)
20 m <sup>2</sup>	1.0	1.2	2.0	2.3	5.0	5.8
30 m <sup>2</sup>	1.4	1.6	2.7	3.1	6.8	7.8
40 m <sup>2</sup>	1.7	1.9	3.4	3.9	8.6	9.7
50 m <sup>2</sup>	2.0	2.3	4.1	4.6	10	11
75 m <sup>2</sup>	2.8	3.1	5.6	6.2	14	15
100 m <sup>2</sup>	3.6	4.0	7.3	7.9	18	20
500 m <sup>2</sup>	15	16	31	32	76	80

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Light source**

		$l$ [mm]	$h$ [mm]	$x$ [mm]		Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	622	480	577	0.9	4039806607423	5LJ10071A
1x T26 18 W	G13	622	480	577	0.9	4039806612922	5LJ10061A
1x T26 36 W	G13	1232	850	766	1.4	4039806607461	5LJ10071C
1x T26 36 W	G13	1232	850	766	1.4	4039806462039	5LJ100D1C
1x T26 36 W	G13	1232	850	766	1.4	4039806607454	5LJ10061C
1x T26 58 W	G13	1532	1150	766	1.6	4039806607508	5LJ10071E
1x T26 58 W	G13	1532	1150	766	1.6	4039806462053	5LJ100D1E
1x T26 58 W	G13	1532	1150	766	1.6	4039806607492	5LJ10061E
2x T26 36 W	G13	1232	850	766	1.5	4039806607539	5LJ10072C
2x T26 36 W	G13	1232	850	766	1.5	4039806614797	5LJ10062C
2x T26 58 W	G13	1532	1150	766	1.8	4039806607560	5LJ10072E
2x T26 58 W	G13	1532	1150	766	1.8	4039806614803	5LJ10062E

**Accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x T16 18 W	0.4	4039806781581	5LJ10001AB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x T16 36 W	0.3	4039806781543	5LJ10001CB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 1x T16 58 W	0.4	4039806781550	5LJ10001EB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 2x T26 36 W	1.3	4039806781567	5LJ10002CB
Reflector, aluminum, painted, direct symmetric wide light distribution, for 2x T26 58 W	0.6	4039806781574	5LJ10002EB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x T26 18 W	0.3	4039806781826	5LJ10101AB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x T26 36 W	0.4	4039806781833	5LJ10101CB
Reflector, aluminum, painted, direct asymmetric light distribution, for 1x T26 58 W	0.5	4039806781840	5LJ10101EB

**Siteco® batten luminaire accessories**



**Reflector**

direct light distribution | sheet steel housing, pure white (similar to RAL 9010) | incl. fixing screws



**Designation**

**Order no. OSRAM**

**Order no. Siteco**

symmetric light distribution, for T16 lamps

1x T16 28 W/54 W	4039806781680	5LJ10001UB
1x T16 35 W/49 W/80 W	4039806781697	5LJ10001XB
2x T16 28 W/54 W	4039806781727	5LJ10002UB

symmetric light distribution, for T26 lamps

1x T26 18 W	4039806781581	5LJ10001AB
1x T26 36 W	4039806781543	5LJ10001CB
1x T26 58 W	4039806781550	5LJ10001EB
2x T26 36 W	4039806781567	5LJ10002CB
2x T26 58 W	4039806781574	5LJ10002EB

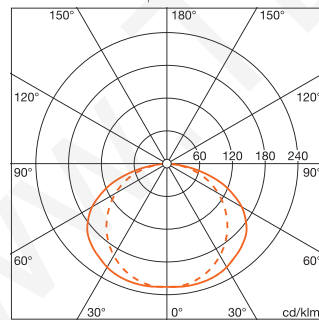
asymmetric light distribution, for T16 lamps

1x T16 28 W/54 W	4039806781857	5LJ10101UB
1x T16 35 W/49 W/80 W	4039806781864	5LJ10101XB

asymmetric light distribution, for T26 lamps

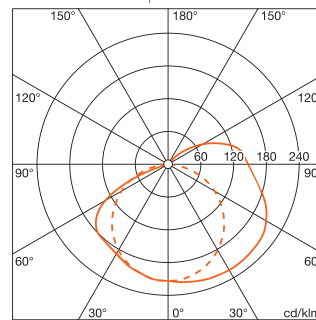
1x T26 18 W	4039806781826	5LJ10101AB
1x T26 36 W	4039806781833	5LJ10101CB
1x T26 58 W	4039806781840	5LJ10101EB

4039806607560 + 4039806781574  
5LJ10072E + 5LJ10002EB  
2 x T26 58W/840  $\phi$  10000 lm



$\eta_{LB}$  80.3%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

4039806607362 + 4039806781857  
5LJ10071P + 5LJ10101UB  
1 x T16 28W/840  $\phi$  2600 lm



$\eta_{LB}$  93.1%  
 $I_{max}$  224 cd/klm at  $\gamma$  30°

## Siteco® batten luminaire, optional installation accessories



### V2A suspension bracket

for installation close to the ceiling or for pendant mounting e.g. with chain | hooks into the batten luminaire at the specified fixing points | incl. strain relief for the power cable

Designation	PU	Order no. OSRAM	Order no. Siteco
V2A suspension bracket	set of 2	4039806616159	5LJ10010XC



### Knotted-link chain

inner link size 5.6 x 31 mm | load capacity: 40kg

Designation	Order no. OSRAM	Order no. Siteco
Chain, galvanized	4039806184290	5LY9001
Knotted-link chain, V2A	4039806184313	5LY9002

— chain: per meter



### Quick-release link

inner link size 5 x 16 mm | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Spare link, V2A	4039806184368	5LY9004



# OSRAM MINI5<sup>®</sup> ECO



The OSRAM MINI5<sup>®</sup> ECO batten luminaire with efficient T16 lamp technology features a very compact design and good distribution of light. This makes it outstanding where space is tight. For the version with a lamp, an efficient LUMILUX<sup>®</sup> T5 827 or 840 fluorescent lamp is fitted. In all versions, light is distributed via a prismatic cover, which creates a very even, glare-free light which is very easy on the eyes. Using the connecting cable (supplied) it is also possible to join up several OSRAM MINI5<sup>®</sup> ECO together to form a row.

## Features

- especially compact T16 batten luminaire for tight spaces
- with prismatic cover for glare-free light
- Several OSRAM MINI5<sup>®</sup> ECO units can be joined up using the connecting cables supplied
- luminaire without lamp or with fluorescent lamp, LUMILUX<sup>®</sup> T5 827 or 840

## Lighting technology

With prismatic cover, extremely wide light distribution

## Electrics

Ready to connect with 1.8m power cable and Europlug | for single or row configuration, connecting cable is supplied | ECG is integrated into the luminaire | with ON/OFF switch on the side of the housing

## Housing

Housing and end caps made of polycarbonate, white | includes plastic mounting clips for numerous installation options



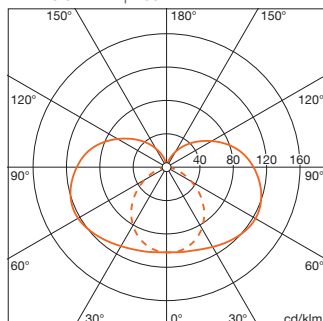


T16  
G5



4008321931399  
OFR2171J827

1 x T16 8W  $\phi$  430 lm



$\eta_{LB}$  73%

**OSRAM MINI5<sup>®</sup> ECO with T16 lamps, for single or row configuration extremely wide light distribution | with switch and power cable | with Europlug**

Luminaire for single or row configuration, wall or ceiling-mounted or for mounting on furniture

- extremely wide light distribution
- with prismatic cover
- with ECG
- power cable with Europlug
- with ON/OFF switch on the side of the housing

- housing and end caps made of polycarbonate, white
- polycarbonate cover
- protection rating: IP20
- insulation class: II
- luminaire without lamp or with fluorescent lamp, LUMILUX<sup>®</sup> T5 827 or 840

**General:**

- includes power cable, connecting cable and mounting clips



Light source									Order no. OSRAM	Order no. Siteco
not fitted										
1x T16 8 W	G5	-	-	318	14-274	0.3	ECG		4008321300911	OFR2171J0
1x T16 13 W	G5	-	-	547	14-503	0.3	ECG		4008321300935	OFR2171T0
1x T16 14 W	G5	-	-	579	14-535	0.4	ECG		4008321300959	OFR2171M0
1x T16 21 W	G5	-	-	879	14-835	0.4	ECG		4008321300973	OFR2171N0
with light color 827										
1x T16 8 W	G5	2700	> 80	318	14-274	0.4	ECG		4008321931399	OFR2171J827
1x T16 13 W	G5	2700	> 80	547	14-503	0.4	ECG		4008321931412	OFR2171T827
1x T16 14 W	G5	2700	> 80	579	14-535	0.5	ECG		4008321931436	OFR217M827
1x T16 21 W	G5	2700	> 80	879	14-835	0.5	ECG		4008321931450	OFR2171N827
with light color 840										
1x T16 8 W	G5	4000	> 80	318	14-274	0.3	ECG		4008321931511	OFR2171J840
1x T16 13 W	G5	4000	> 80	547	14-503	0.4	ECG		4008321931535	OFR2171T840
1x T16 14 W	G5	4000	> 80	579	14-535	0.4	ECG		4008321931559	OFR2171M840
1x T16 21 W	G5	4000	> 80	879	14-835	0.5	ECG		4008321931573	OFR2171N840

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

# LUMILUX® COMBI EL



The universal T26 LUMILUX® COMBI EL batten luminaire is very flexible to use due to the versions which are available. There are versions with prismatic or with opal covers for even, glare-free light as well as versions without a diffuser for the maximum luminous flux. In its two electrical versions (for permanent wiring or ready to connect with a 2 meter power cable), the LUMILUX® COMBI EL is suitable for use in or under cupboards, showcases and shelves as well as wall or ceiling-mounted for mirrors, hobby rooms and cellars.

## Features

- universal batten luminaire
- optionally, the luminaire is available without a diffuser for maximum luminous flux, with a prismatic cover for even light distribution or with a diffuser as an attractive wall or mirror light
- depending on the version, for permanent wiring or with a 2m power cable and Europlug
- lamp is either in part not fitted or a LUMILUX® T8 827 fluorescent lamp is fitted

## Lighting technology

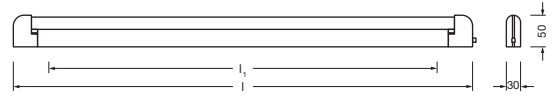
Depending on the version, the luminaire is available without a diffuser or with a prismatic cover for even light distribution, extremely wide light distribution | with an opal cover for diffuse light distribution

## Electrics

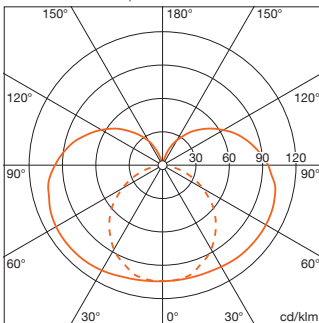
Depending on the version, for permanent wiring with connecting terminals, 2-pole, or with 2m power cable and Europlug | cable inlet on the rear side: centrally, asymmetrically and at the side | lamps in part not fitted or with fluorescent lamp | ECG integrated into the luminaire | with ON/OFF switch on the end of the housing

## Housing

Aluminum housing, polycarbonate end caps, traffic white (RAL 9016)



4050300003634  
0FJ1071C827  
1 x T26 36W  $\phi$  3350 lm



$\eta_{LB}$  72,6%

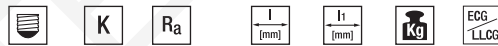
**LUMILUX® COMBI EL-F with T26 lamps for single configuration without diffuser | with switch | for permanent wiring**

Batten luminaire for wall or ceiling mounting or installation on furniture  
 — for permanent wiring, with central, asymmetric and side-mounted cable inlet  
 — without diffuser  
 — with ECG  
 — with ON/OFF switch on the end of the housing

- aluminum housing, traffic white (RAL 9016), polycarbonate end caps, white
- protection rating: IP20
- insulation class: II
- impact resistance: IK02
- lamp is either in part not fitted or a LUMILUX® T8 827 fluorescent lamp is fitted



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

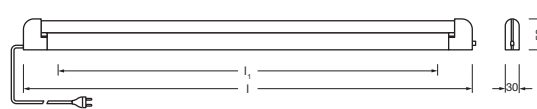
not fitted

	Light source	K	R <sub>a</sub>	l [mm]	h [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	—	—	621	420	0.2	ECG	4050300148724	0FJ0071A0
1x T26 30 W	G13	—	—	926	725	0.3	ECG	4050300484679	0FJ0071D0
1x T26 36 W	G13	—	—	1230	1030	0.4	ECG	4050300148748	0FJ0071C0
1x T26 58 W	G13	—	—	1531	1330	0.5	ECG	4050300993959	0FJ0071E0

fitted

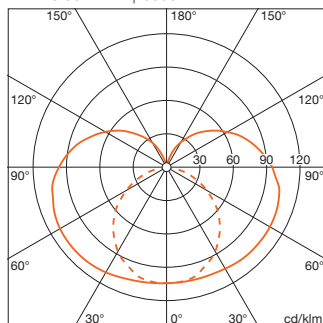
	Light source	K	R <sub>a</sub>	l [mm]	h [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T26 10 W	G13	2700	> 80	501	300	0.3	ECG	4050300003542	0FJ1071S827
1x T26 18 W	G13	2700	> 80	621	420	0.3	ECG	4050300003573	0FJ1071A827
1x T26 30 W	G13	2700	> 80	926	725	0.5	ECG	4050300003597	0FJ1071D827
1x T26 36 W	G13	2700	> 80	1231	1030	0.6	ECG	4050300003634	0FJ1071C827
1x T26 58 W	G13	2700	> 80	1531	1330	0.7	ECG	4050300005195	0FJ1071E827

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



4050300003634  
0FJ1071C827

1 x T26 36W  $\phi$  3350 lm



<sup>1)</sup>LB 72,6%

**LUMILUX® COMBI EL-N with T26 lamps for single configuration without diffuser | with switch, power cable and Europlug**

Batten luminaire for wall or ceiling mounting or installation on furniture

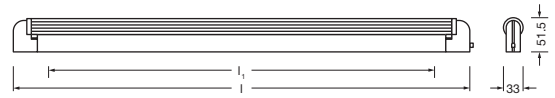
- without diffuser
- with ECG
- power cable with Europlug
- with ON/OFF switch on the end of the housing

- aluminum housing, traffic white (RAL 9016), polycarbonate end caps, white
- protection rating: IP20
- insulation class: II
- impact resistance: IK02
- includes LUMILUX® T8 827 fluorescent lamp



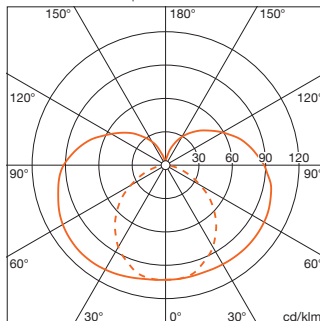
Light source		K	R <sub>a</sub>	l [mm]	h [mm]		ECG LLGG	Order no. OSRAM	Order no. Siteco
1x T26 10 W	G13	2700	> 80	501	300	0.4	ECG	4050300003443	0FJ2071S827
1x T26 18 W	G13	2700	> 80	621	420	0.4	ECG	4050300003474	0FJ2071A827
1x T26 30 W	G13	2700	> 80	926	725	0.6	ECG	4050300002163	0FJ2071D827
1x T26 36 W	G13	2700	> 80	1231	1030	0.7	ECG	4050300003511	0FJ2071C827
1x T26 58 W	G13	2700	> 80	1531	1330	0.8	ECG	4050300986517	0FJ2071E827

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



4050300346861  
0FJ2171C827

1 x T26 36W  $\phi$  3350 lm



$\eta_{LB}$  65,8%

**LUMILUX® COMBI EL-F Prismatic with T26 lamps for single configuration with prismatic cover | with switch | for permanent wiring**

Batten luminaire for wall or ceiling mounting or installation on furniture

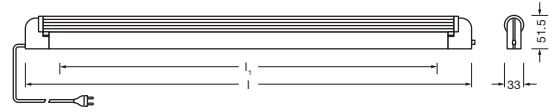
- for permanent wiring, with central, asymmetric and side-mounted cable inlet
- extremely wide light distribution
- with prismatic cover for glare-free light
- with ECG
- with ON/OFF switch on the end of the housing

- aluminum housing, traffic white (RAL 9016), polycarbonate end caps, white
- protection rating: IP20
- insulation class: II
- impact resistance: IK02
- includes LUMILUX® T8 827 fluorescent lamp



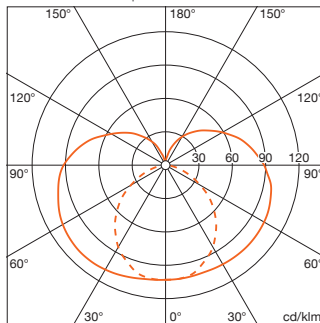
Light source		K	R <sub>a</sub>	$l$ [mm]	$h$ [mm]		ECG LLCG	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
1x T26 10 W	G13	2700	> 80	501	300	0.3	ECG	4050300346502	0FJ1171S827
1x T26 18 W	G13	2700	> 80	621	420	0.4	ECG	4050300346588	0FJ1171A827
1x T26 30 W	G13	2700	> 80	926	725	0.5	ECG	4050300346700	0FJ1171D827
1x T26 36 W	G13	2700	> 80	1231	1030	0.7	ECG	4050300346908	0FJ1171C827
1x T26 58 W	G13	2700	> 80	1531	1330	0.9	ECG	4050300346984	0FJ1171E827

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



4050300346861  
0FJ2171C827

1 x T26 36W  $\phi$  3350 lm



$\eta_{LB}$  65,8%

**LUMILUX® COMBI EL-N Prismatic with T26 lamps, for single configuration | with prismatic cover | with switch, power cable and Europlug**

Batten luminaire for wall or ceiling mounting or installation on furniture  
 — extremely wide light distribution  
 — with prismatic cover  
 — with ECG  
 — power cable with Europlug  
 — with ON/OFF switch on the end of the housing

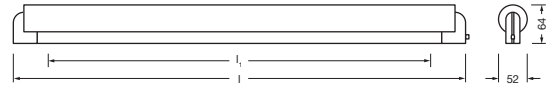
- aluminum housing, traffic white (RAL 9016), polycarbonate end caps, white
- protection rating: IP20
- insulation class: II
- impact resistance: IK02
- includes LUMILUX® T8 827 fluorescent lamp



Light source		K	R <sub>a</sub>	$l$ [mm]	$h$ [mm]		ECG LLCG	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
1x T26 10 W	G13	2700	> 80	501	300	0.4	ECG	4050300346540	0FJ2171S827
1x T26 18 W	G13	2700	> 80	621	420	0.5	ECG	4050300346625	0FJ2171A827
1x T26 30 W	G13	2700	> 80	926	725	0.7	ECG	4050300346663	0FJ2171D827
1x T26 36 W	G13	2700	> 80	1231	1030	0.8	ECG	4050300346861	0FJ2171C827
1x T26 58 W	G13	2700	> 80	1531	1330	1.0	ECG	4050300346946	0FJ2171E827

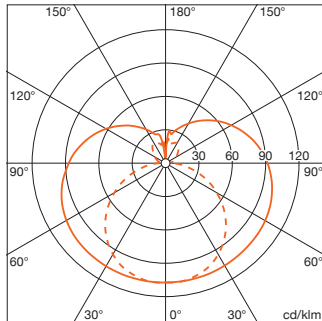
— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25





4008321917478  
0FJR1271A827

1 x T26 18W  $\phi$  1300 lm



$\eta_{LB}$  75,1%

**LUMILUX® COMBI EL-F Diffuser with T26 lamps for single configuration with an opal cover for diffuse light | with switch | for permanent wiring**

- Batten luminaire for wall or ceiling mounting or installation on furniture
- for permanent wiring, with central, asymmetric and side-mounted cable inlet
- diffuse distribution
- with opal cover
- with ECG
- with ON/OFF switch on the end of the housing

- sheet steel housing, traffic white (RAL 9016), polycarbonate end caps, white
- protection rating: IP20
- insulation class: II
- includes LUMILUX® T8 827 fluorescent lamp



Light source								Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	2700	> 80	621	420	0.5	ECG	4008321917478	0FJR1271A827
1x T26 30 W	G13	2700	> 80	926	725	0.8	ECG	4008321917492	0FJR1271D827
1x T26 36 W	G13	2700	> 80	1230	1030	1.0	ECG	4008321917515	0FJR1271C827
1x T26 58 W	G13	2700	> 80	1531	1330	1.2	ECG	4008321917539	0FJ1271E827

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

# LUMILUX® VARIO EL



The universal LUMILUX® VARIO EL batten luminaire opens up a lot of design options with its flexible configuration: The tube's reflector for the batten luminaire without a diffuser can be rotated by 360°. Due to this variable reflection, up to 40% more light is directed in the wanted direction compared to a lamp without this feature.

The luminaire is fitted with the cost-effective LUMILUX® T8 827 fluorescent tube for maximum luminous flux. The LUMILUX® VARIO EL is suitable for use in or under cupboards, showcases and shelves as well as, wall or ceiling-mounted, for mirrors, hobby rooms and cellars

## Features

- batten luminaire with tube reflector which can be rotated by 360° for directed, glare-free light on ceilings, walls or furniture
- up to 40% more light in the main beam direction compared to lamps without a reflector
- fitted with a LUMILUX® T8 827 fluorescent lamp

## Lighting technology

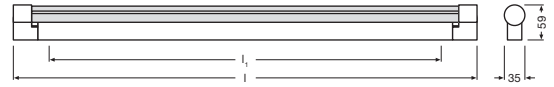
Tube has reflector which can be rotated through 360° to variably direct the light | light is distributed directly and widely

## Electrics

For permanent wiring with connecting terminals, 2-pole | cable inlet on rear side: centrally or near the end | luminaire fitted with fluorescent lamp | ECG integrated into the luminaire | with ON/OFF switch on the end of the housing

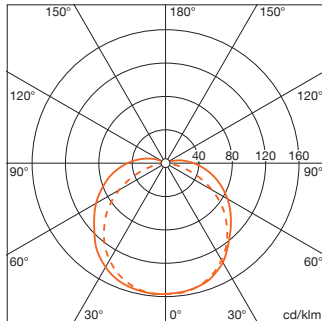
## Housing

Aluminum housing, polycarbonate end caps, traffic white (RAL 9016)



4008321908476  
0FJ1471A827

1 x T26 18W  $\phi$  1350 lm



$\eta_{LB}$  54,7%

**LUMILUX® VARIO EL-F with T26 lamps for single configuration with tube reflector which can be rotated through 360°, wide light distribution | with switch**

Batten luminaire for wall or ceiling mounting or installation on furniture  
 — for permanent wiring, with central, asymmetric and side-mounted cable inlet  
 — direct wide light distribution  
 — tube has reflector which can be rotated by 360° to variably direct the light  
 — with ECG  
 — with ON/OFF switch on the end of the housing

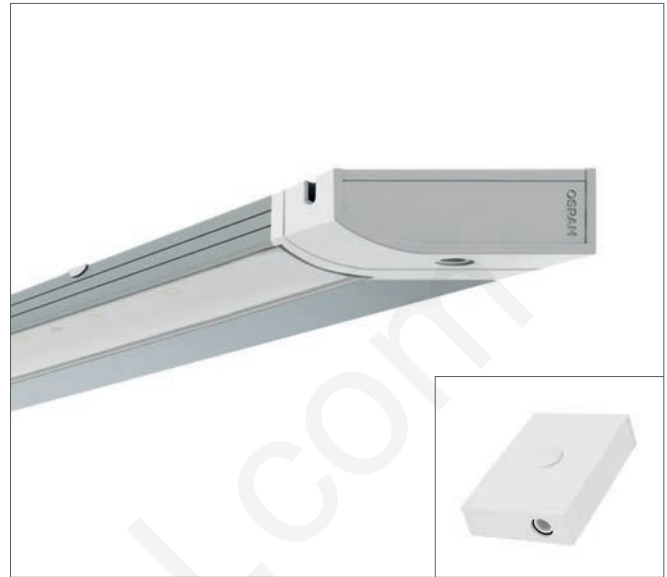
- aluminum housing, traffic white (RAL 9016), polycarbonate end caps, traffic white (RAL 9016)
- protection rating: IP20
- insulation class: II
- includes LUMILUX® T8 827 fluorescent lamp



Light source		K	Ra	$l$ [mm]	$h$ [mm]		ECG LLCG	Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	2700	> 80	617	420	0.5	ECG	4008321908476	0FJ1471A827
1x T26 30 W	G13	2700	> 80	922	725	0.7	ECG	4008321908483	0FJ1471D827
1x T26 36 W	G13	2700	> 80	1227	1030	0.8	ECG	4008321908490	0FJ1471C827

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

# LEDVANCE® LINEAR



The LEDVANCE® LINEAR is a very low profile, design LED luminaire for functional and decorative lighting of shelves in shops, showrooms and boutiques, as well as for exclusive domestic use.

The LEDVANCE® LINEAR is striking due to its efficient LED technology, its flexibility and ease of use, either as a solitary solution or as a continuous row of lights, either with connecting cables or direct connectors.

With two light colors and two lengths of housing, which fit in with common shelf dimensions, the LEDVANCE® LINEAR is an uncomplicated solution to replace conventional technology.

## Features

- extremely low profile luminaire
- asymmetric light distribution for even illumination of shelving in shops
- can be wired in series for lighting strips of up to 10m
- easy to install and handle
- consistently designed for LED technology, with a lifespan of up to 50,000 hours
- OSRAM LEDVANCE® guarantee for 5 years

## Lighting technology

With frosted cover, asymmetric wide light distribution

## Electrics

Luminaire with integrated ECG | please order optional accessories, such as the switch module (ON/OFF) as well as power and connecting cables and branching connectors separately: Power cable with Europlug, l = 1.8m; connecting cables, l = 0.35m or 1.0m, branching connector to join two rows of luminaires

## Housing

Colorlessly anodized extruded aluminum profile housing, plastic end caps, white, PMMA cover | clip fixing with separate fixing clips requires no tools | optional trim to conceal joints and a white plastic switch module with the same shape

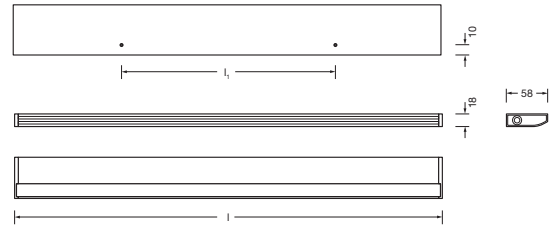
## Areas of application

- can be installed vertically or horizontally in furniture and showcases
- even illumination under kitchen cupboards, counters and shelves
- prestigious presentation of products in shops and at trade fairs
- showcases in museums and galleries

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This means that luminous flux and power consumption can also change. The latest values can be found in each product's photometric report and in the current download files of the lighting planning data.

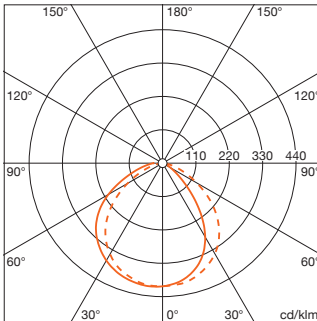


LED



4008321821973  
0FS2C77B2S

1 x LED  $\phi_N$  831 lm



**LEDVANCE® LINEAR with LED, for single or row configuration asymmetric light distribution | with switch, power cable and Europlug**

- Single luminaire for installation on furniture
- with frosted cover, asymmetric light distribution
  - with integrated ECG, power cable with Europlug, ON/OFF switch as end-mounting module and connecting cables as accessories
  - matt anodized aluminum profile housing, PMMA cover
  - protection rating: IP20
  - insulation class: II
  - protection symbol: MM
  - incl. mounting clips for click-fixing



Light source	K	R <sub>a</sub>	lm	W SYSTEM	l [mm]	h [mm]	kg	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	810	14	580	290	0.5	4008321821959	0FS2C77B2R
LED	3000	> 80	1200	21	860	430	0.7	4008321821997	0FL2C77T2R
LED	4000	> 80	810	14	580	290	0.5	4008321821973	0FS2C77B2S
LED	4000	> 80	1200	21	860	430	0.7	4008321822017	0FL2C77T2S

- please order power cable with Europlug separately
- please order ON/OFF switch as separate module and connection cables separately, if required

**LEDVANCE® LINEAR electrical accessories**



**Power cable**

to connect to the power supply | with Europlug, with socket on the luminaire | l = 1.8m

Designation	Order no. OSRAM	Order no. Siteco
Power cable	4008321808851	0FZ100PC18



**Connecting cable**

from luminaire to luminaire when arranged in rows | with plug and socket | (for rows of luminaires with several lights up to a max. total length of 10m)

Designation	Order no. OSRAM	Order no. Siteco
Connecting cable, l = 0.35m	4008321808830	0FZ100CC36
Connecting cable, l = 1.00m	4008321808837	0FZ100CC100



**Y connector**

to branch out from one row to two rows of luminaires | 1 plug, 2 sockets

Designation	Order no. OSRAM	Order no. Siteco
Y connector	4008321808875	0FZ100YC



**Switch box**

with an ON/OFF switch | with plug and socket | suitable for installation flush against the contour, on the end right next to the luminaire | plastic housing, silver

Designation	Order no. OSRAM	Order no. Siteco
Switch box	4008321808912	0FZ100S



**Cover**

to conceal the cable inlet on the luminaire if the rear inlet is used or the luminaire's mounting area | flush-mounting housing, installed directly on the end, next to the luminaire | plastic housing, silver

Designation	Order no. OSRAM	Order no. Siteco
Cover	4008321808899	0FZ100CG90





# LUMINESTRA® LED



The LUMINESTRA® LED batten luminaire features an extremely low profile aluminum housing of just 10mm and a long lifespan of up to 30,000 hours. It is thus outstanding as an efficient but very discrete lighting solution in furniture, shelving and showcases. Due to the high-quality OSRAM LED components, the LUMINESTRA® LED do not emit any ultraviolet radiation, thus preventing damage to sensitive surfaces and coatings of goods and packaging. The LED batten luminaire's opaque cover ensures homogeneous, wide, glare-free distribution of light which is very easy on the eyes.

## Features

- very low profile and elegant design
- outstanding, UV-free illumination of the illuminated area
- high system efficiency thanks to LED technology
- 3,000 K (warm white) or 4,000 K (neutral white) color temperature
- quick and easy to install

## Lighting technology

With opal cover, diffuse light distribution

## Electrics

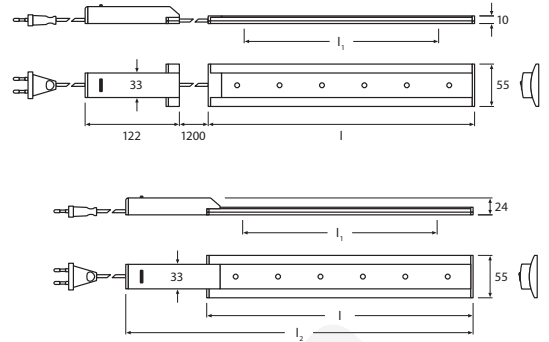
Ready to connect with an external ECG, 1.6m power cable and Europlug | ECG can be installed separately from the luminaire, the conversion kit is supplied

## Housing

Anodized aluminum profile, PMMA cover | plastic ECG housing in white piano finish, with integrated ON/OFF switch

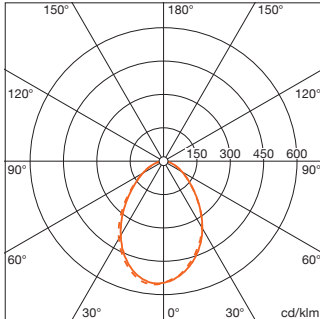


LED



4008321524461  
OFA2271AK830

1 x LED ww  $\phi$ N 434 lm



**LUMINESTRA® LED with a removable control gear unit with a frosted cover, with wide light distribution | with a switch and power cable with Europlug**

- Single luminaire for installation on furniture
- diffuse distribution
- with opaque PMMA cover
- with removable ECG, with ON/OFF switch, ECG for separate installation
- power cable with Europlug

- aluminum housing
- plastic ECG housing in white piano finish
- protection rating: IP20
- insulation class: II



Light source	K	R <sub>a</sub>	lm	W SYSTEM	l [mm]	h [mm]	l <sub>2</sub> [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	435	8	343	250	448	0.4	ECG	4008321524461	OFA2271AK830
LED	4000	> 80	464	8	343	250	448	0.3	ECG	4008321524485	OFA2271AK840
LED	3000	> 80	960	13	483	360	588	0.4	ECG	4008321710581	OFA2271BD830
LED	4000	> 80	960	13	483	360	588	0.4	ECG	4008321710604	OFA2271BD840

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

# SLIMSHAPE LED



The SLIMSHAPE LED family of luminaires features an extremely low profile housing and efficient and durable LED lighting technology. These luminaires with symmetric or asymmetric light distribution are thus outstanding as efficient but discrete lighting solutions in furniture, shelving and showcases. SLIMSHAPE LED is even more convenient in the version with a sensor: Using an integrated presence sensor, it can be reliably switched by bringing your hand close to the sensor (up to approx. 5 to 7cm) even in the presence of daylight, without touching anything ("Touchless Switching"). This smart solution as well as the luminaire's low profile design enable it to be installed and used even where space is tight.

## Features

- extremely slim and elegant batten luminaire with an ON/OFF switch or sensor
- the sensor version offers hygienic, touch-free activation via an extremely reliable and precise sensor
- high perceived value and long life
- color temperature 3,000 K (warm white)
- simple, rapid mounting (plug & light)

## Lighting technology

Optical parts to cover the LED and distribute the light | depending on the version, distributing the light either symmetrically or asymmetrically

## Electrics

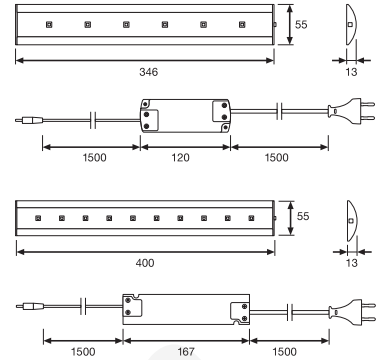
Ready to connect with Europlug | external driver with 1.5m cable on each side

## Housing

Aluminum housing, PMMA cover | available with ON/OFF switch or sensor



LED



**SLIMSHAPE LED with a separate control gear unit, symmetric light distribution | with switch and power cable with Europlug**

- Single luminaire for installation on furniture
- symmetric light distribution
- with separate ECG and ready-made cables on both sides
- power cable with Europlug
- with ON/OFF switch
- aluminum housing, white
- PMMA cover
- protection rating: IP20
- insulation class: III

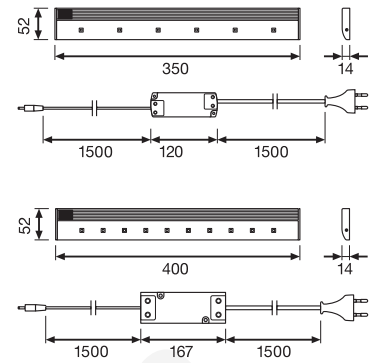


Light source	K	lm	W SYSTEM	l [mm]	kg	ECG LLGG	Order no. OSRAM	Order no. Siteco
LED	3000	420	8	346	0.3	ECG	4008321977519	0FC271AB830X
LED	3000	630	13	400	0.4	ECG	4008321974501	0FC271BA830X

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



LED



**SLIMSHAPE LED with separate control gear unit, light distributed asymmetrically | with touch-free sensor switch and power cable with Europlug**

- Single luminaire for installation on furniture
- asymmetric light distribution
- with separate ECG and pre-assembled cables on both sides
- power cable with Europlug
- sensor to switch ON/OFF without touching anything
- aluminum housing
- PMMA cover
- protection rating: IP20
- insulation class: III



Light source	K	lm	W SYSTEM	I [mm]	ECG	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED	3000	510	8	350	0.4	ECG	4008321975164	OFC271AL830
LED	3000	680	13	400	0.4	ECG	4008321975195	OFC271BA830

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25





# LUMINESTRA® EL



The LUMINESTRA® EL batten luminaire features a low profile housing of just 20mm and can be used in rows. It is thus outstanding as an efficient but discrete lighting solution in furniture, shelving and showcases. With a connecting adapter (supplied) or optional accessories (connecting cable) the LUMINESTRA® EL can be joined up in groups of up to ten units, even diagonally. In all versions, light is distributed via a prismatic cover, which creates a very even, glare-free light which is very easy on the eyes.

## Features

- low profile furniture light for optimum illumination of work surfaces
- with prismatic cover for glare-free light
- suitable for use in a row with supplied connecting adapter or optional accessories (connecting cables)
- luminaire with LUMILUX® T5 827 fluorescent lamp

## Lighting technology

Light field can even go around corners, asymmetric light distribution | prismatic cover for even illumination

## Electrics

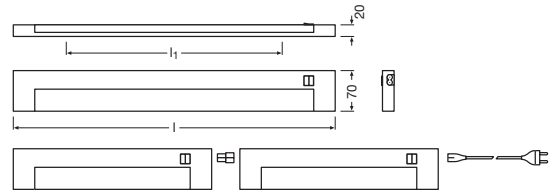
Ready to connect with 2m power cable and Europlug | for single or row configuration | rows of up to 10 LUMINESTRA® EL with the supplied connecting adapter | ECG integrated into the luminaire | with ON/OFF switch on the front of the housing

## Housing

Polycarbonate housing, white, PMMA cover | for single or row configuration | can be wired through with supplied connecting adapter or optional connecting cable

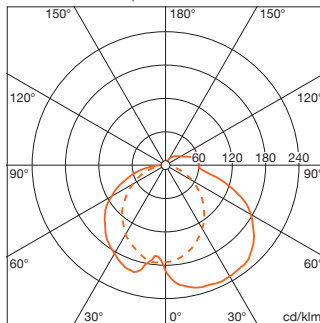


T16  
G5



4050300008745  
0FB2171T827

1 x T16 13W  $\phi$  950 lm



$\eta_{LB}$  68%

**LUMINESTRA® EL with T16 lamps | for single or row configuration asymmetric light distribution | with switch, power cable and Europlug**

Luminaire for single or row configuration or for installation in furniture

- asymmetric light distribution
- with prismatic cover
- with ECG
- power cable with Europlug
- with ON/OFF switch on the front side of the housing

- polycarbonate housing, white
- PMMA cover
- protection rating: IP20
- insulation class: II
- impact resistance: IK03
- luminaire with LUMILUX® T5 827 fluorescent lamp

**General:**

- includes power cable and connecting adapter



Light source								Order no. OSRAM	Order no. Siteco
1x T16 8 W	G5	2700	> 80	342	320	0.4	ECG	4050300008738	0FB2171J827
1x T16 13 W	G5	2700	> 80	555	300/485	0.5	ECG	4050300008745	0FB2171T827

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**Accessories**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connecting cable 100mm	set of 10	0.1	4050300125602	OFA900010L
Connecting cable 600mm	set of 10	0.1	4050300125626	OFA900060L
Connecting cable 1000mm	set of 10	0.1	4050300125640	OFA900100L

## SLIMLITE® EL



The SLIMLITE® EL furniture luminaire features a low profile housing and can be used in rows. With a connecting adapter (supplied) or optional accessories (connecting cables) it can be joined together to form a row. The SLIMLITE® EL is fitted with an efficient LUMILUX® T5 827 fluorescent lamp, the light is distributed via a prismatic cover which creates a very even, glare-free illumination which is easy on the eyes.

### Features

- low-profile furniture luminaire for cost-effective light
- with prismatic cover for glare-free light
- suitable for use in a row with supplied accessory (connecting adapter) or optional accessories (connecting cables)
- fitted with LUMILUX® T5 827 fluorescent lamp

### Lighting technology

With prismatic cover, extremely wide light distribution

### Electrics

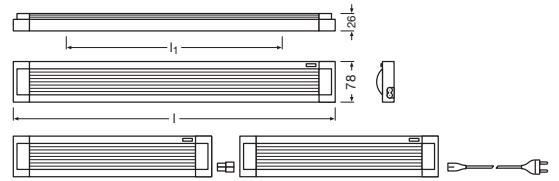
Ready to connect with 2m power cable and Europlug | for single or row configuration | ECG is integrated into the luminaire | with ON/OFF switch on the front of the housing

### Housing

Polycarbonate housing, white, PMMA cover | for single or row configuration | can be wired through with supplied cover or optional connecting cable

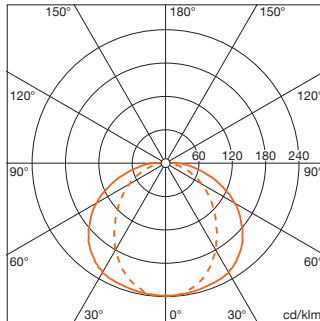


T16  
G5



4050300620121  
0FN271T827

1 x T16 13W  $\phi$  1000 lm



$\eta_{LB}$  74,2%

**SLIMLITE® EL with T16 lamps | for single or row configuration  
symmetric light distribution | with switch, power cable and Europlug**

Luminaire to be used singly or in rows or for installation in furniture

- extremely wide light distribution
- with prismatic cover
- with ECG
- power cable with Europlug
- with ON/OFF switch on the front side of the housing

- polycarbonate housing, white
- PMMA cover
- protection rating: IP20
- insulation class: II
- impact resistance: IK03
- includes LUMILUX® T5 827 fluorescent lamp

**General:**

- includes power cable and connecting adapter



Light source								Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
1x T16 8 W	G5	2700	> 80	320	230	0.4	ECG	4050300620145	0FN271J827
1x T16 13 W	G5	2700	> 80	550	460	0.6	ECG	4050300620121	0FN271T827

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**Accessories**

Designation	PU	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Connecting cable 100mm	set of 10	0.1	4050300125602	OFA900010L
Connecting cable 600mm	set of 10	0.1	4050300125626	OFA900060L
Connecting cable 1000mm	set of 10	0.1	4050300125640	OFA900100L

# LEDVANCE® DOWNLIGHT S



LEDVANCE® DOWNLIGHT S is an LED luminaire with particularly compact dimensions for installation in furniture or shelving. This downlight can be used as a replacement for a 20W low-voltage halogen spot – producing much less heat than the comparable luminaire with a halogen lamp. Due to its low installation depth, the downlight will also fit in kitchen shelving and the pre-fitted power cable can be fed through a hole drilled sideways in the shelf.

Because of this, and with the lower heat dissipation, the top side of the shelf can be fully used. Depending on the application, the cable outlet can easily be moved upwards. With the optional add-on housing, the downlight is also available as a surface-mount version.

## Features

- energy-saving recessed furniture luminaire with LED as replacement for luminaires with 20W low-voltage halogen lamps
- low installation depth for integration into the bottom of 16 mm shelves with unrestricted use of the top of the shelf
- by flexibly positioning the cable outlet, it is also suitable for kitchen cupboards with standard 8mm cable conduits
- replacement for 20W low-voltage halogen spots with significant reduction in the heat generated
- direct connection to 220...240 V mains

## Lighting technology

Transparent cover, wide light distribution

## Electrics

Luminaire with integrated ECG | wired and ready to connect with pre-assembled cable,  $l = 0.9\text{m}$  | variable cable outlet on the luminaire can be at the top or at the side, suitable for kitchen cupboards with standard 8 mm cable conduit  $U_N = 220...240\text{ V/AC } 50...60\text{ Hz}$

## Housing

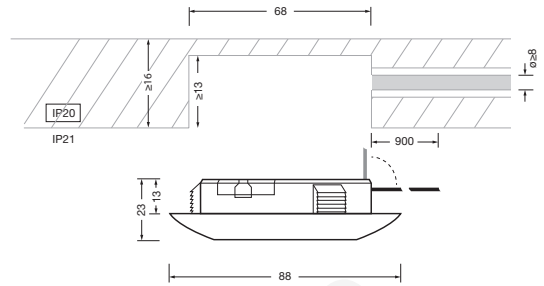
Black, plastic housing, visible ring of aluminum, painted white or silver, optional plastic add-on housing, white or silver | downlight housing with side claws for clamp-fixing in the drilled cutout

## Areas of application

- recessed or surface mounting in furniture, showcases and shelves
- installation beneath kitchen cupboards and counters with standard 8mm cable conduit
- prestigious presentation of products in shops and at trade fairs
- showcases in museums and galleries
- replacement for comparable 20W low-voltage halogen spots

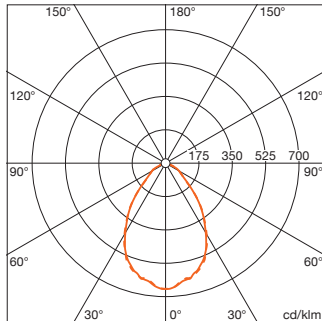


LED



052899927346  
ODS11B77V3R

1 x LED  $\phi_N$  325 lm



**LEDVANCE® DOWNLIGHT S with LED for installation in furniture**  
**wide light distribution**

- Downlight for installation in furniture
- widely distributed light | with integrated ECG
- plastic housing with visible ring in aluminum, silver or white
- protection rating: IP20
- insulation class: II
- protection symbol: MM

ready to connect with pre-assembled cable, with variable positioning of cable outlet, l = 0.9m



Light source	K	lm	W SYSTEM	kg	Order no. OSRAM	Order no. Siteco
LED silver	3000	325	5.3	1.0	4052899927339	ODS11B77V2R
LED white	3000	325	5.3	1.0	4052899927346	ODS11B77V3R
LED silver	4000	325	5.3	1.0	4052899927353	ODS11B77V2S
LED white	4000	325	5.3	1.0	4052899927360	ODS11B77V3S

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

## QOD®



The elegant, tile-shaped QOD® module is the perfect choice of light where space is tight, thanks to its clear design and its extremely low profile. The QOD® starter set contains three LED modules, including an ECG and a distribution box with integrated switch. With add-on modules, as optional accessories, the set can be extended to up to five modules.

### Features

- delivered as QOD® starter set
- via QOD® add-ons can be optionally extended to 5 LED modules
- elegant, tile-shaped QOD® LED modules
- extremely low profile: 8mm
- energy saving thanks to LED technology
- extremely low-profile furniture light, perfectly suited for lighting tight spaces
- color temperature: 3,000 K (warm white)
- simple, rapid mounting (plug & light)
- durable add-on luminaire with a lifespan of up to 30,000 hours

### Lighting technology

Wide light distribution

### Electrics

Ready to connect with an external ECG, 1.5m power cable and Europlug | external ECG with pre-assembled cable and connector to the distribution box, l = 1.5m | distribution box for max. 5 luminaires, with ON/OFF switch

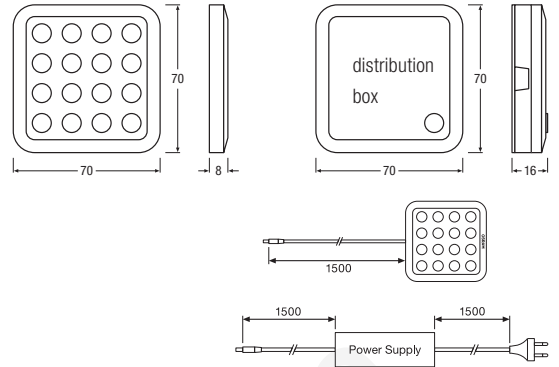
### Housing

Polycarbonate housing, white or chrome, polycarbonate cover, transparent | installed either with double-sided adhesive tape or with screws





LED



**QOD® Set; LED light tiles with a separate control gear unit, wide light distribution with switch and power cable with Europlug**

- Single luminaire for installation on furniture
- wide light distribution
- separate ECG with pre-assembled cable and connectors to the distribution box
- power cable with Europlug
- distribution box with ON/OFF switch
- polycarbonate housing, white or chrome
- polycarbonate cover, transparent
- protection rating: IP20
- insulation class: III



Light source	K	lm	W SYSTEM	kg	ECG 1LLCG	Order no. OSRAM	Order no. Siteco
White							
LED starter set	3000	3x 150	10.5	0.5	ECG	4008321962911	OME6712335830
LED add-on	3000	150	3.5	0.1	ECG	4008321962935	OME6711L35830
Chrome							
LED starter set	3000	3x 150	10.5	0.5	ECG	4008321646958	OME6712335830C
LED add-on	3000	150	3.5	0.1	ECG	4008321646972	OME6711L35830C

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**Accessories**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Extension cable 1.5m	set of 6	0.1	4008321972842	OME91500L

## QOD DOMINO®



The QOD DOMINO® LED family consists of four ultra-low profile and elegant batten luminaires in three wattages and two lengths. Thanks to its ultra-low profile of just 10mm and its compact dimensions, any batten luminaire in this family of products is easy to integrate into almost any environment, such as in the floor-mounted cupboards in the kitchen, on shelves, wardrobes or in alcoves.

### Features

- low profile furniture luminaires for areas with restricted space
- very characteristic, attractive design
- low profile: 10mm
- energy saving thanks to LED technology
- color temperature: 3,000 K (warm white)
- three different luminous flux packages in two different housing lengths
- simple, rapid mounting (plug & light)

### Lighting technology

Depending on the version, with two, three or five light tiles, wide light distribution | possible to connect ECG from left or right side

### Electrics

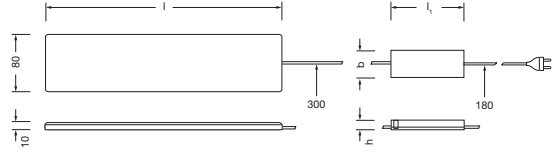
Ready to connect with an external ECG, 1.6m power cable and Europlug | separate ECG with pre-assembled cable and connector to the luminaire, l = 3.0m | with ON/OFF switch on the front side of the luminaire housing

### Housing

Polycarbonate housing, white, polycarbonate cover, transparent



LED



**QOD DOMINO® with two, three or five LED light tiles, with wide light distribution with switch and connecting cable with Europlug**

- Single luminaire for installation on furniture
- wide light distribution
- with separate ECG
- power cable with Europlug
- with ON/OFF switch on the front of the luminaire housing
- polycarbonate housing, white
- polycarbonate cover, transparent
- protection rating: IP20
- insulation class: II



Light source	K	Ra	lm	W SYSTEM	l [mm]	h [mm]	b [mm]	h [mm]	kg	ECG LLOG	Order no.	Order no.
											OSRAM	Siteco
QOD DOMINO short 2x4 W	3000	> 80	300	8	300	121	45	16	0.3	ECG	4008321974983	OME6712L088300S
QOD DOMINO short 3x4 W	3000	> 80	450	12	330	121	45	16	0.3	ECG	4008321975010	OME6712L128300S
QOD DOMINO long 3x4 W	3000	> 80	450	12	500	121	45	16	0.4	ECG	4008321975041	OME6712L128300L
QOD DOMINO long 5x4 W	3000	> 80	750	20	500	166	40	14	0.4	ECG	4008321975072	OME6712L208300L

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



032

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030

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**Modario® IP20/IP40 with LED**



Trunking rail  
IP20

Page 8.3



LED module  
IP20/IP40

Page 8.11



Spotlight  
module IP20

Page 8.17



Sensor module  
DALI isolated  
solution IP20

Page 8.25



Sensor module  
networkable system  
DALI Pro 9047 | IP20

Page 8.29

**Modario® IP20/IP40 for T16 fluorescent lamps**



Trunking rail  
IP20

Page 8.35



Luminaire insert/  
reflector  
IP20/IP40

Page 8.43



Spotlight  
module IP20

Page 8.76



Power module  
IP40

Page 8.83



Highbay  
luminaire IP20

Page 8.89



Sensor module  
DALI isolated  
solution IP20

Page 8.91



Sensor module  
networkable system  
DALI Pro 9047 | IP20

Page 8.95

**Modario® IP64 for T16 fluorescent lamps**



Trunking rail  
IP64

Page 8.101



Luminaire insert/  
reflector  
IP64

Page 8.108



Trunking  
luminaire  
IP64

Page 8.115



Highbay  
luminaire  
IP64

Page 8.117

**DUS® IP20/IP40 for T16 or T26 fluorescent lamps**



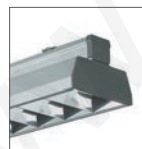
Trunking rail  
IP20/IP40

Page 8.121



LED refurbishment  
kit IP20/IP40

Page 8.131



Luminaire insert/  
reflector  
T26 | IP20

Page 8.132



Luminaire insert/  
reflector  
T16 | IP20

Page 8.149



Power module  
IP40

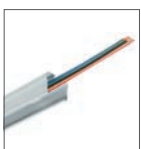
Page 8.155



Sensor module  
1...10V isolated solution  
IP20

Page 8.161

**DUS® IP60/IP63 for T26 fluorescent lamps**



Trunking rail  
IP60

Page 8.165



Trunking lumi-  
naire IP60/IP63

Page 8.172



Luminaire insert/  
reflector | IP60

Page 8.174



Hexal®-a  
IP20

Page 8.185

**Hexal®-a trunking luminaire with hexagonal structure for T16 fluorescent lamps**



# Modario® LED trunking system



The Modario® trunking system with its fully compatible modular construction can be customized to complex photometric requirements. This system consists of two basic elements: the 5-core or 10-core wired trunking rail and the LED module. The LED modules are designed as complete luminaire units.

The different photometric versions enable energy-efficient and low-maintenance lighting solutions for a wide variety of applications. The LED modules can be combined with the T16 luminaire inserts and all further Modario® system components. Socket outlet modules, spotlights and tracks as well as other accessories are available.

All elements are matched to the 299mm system module size and can be used in any combination. All system components can be combined with each other without the use of tools. X, T and L connectors expand the system's application range.

## Features

- modular construction system
- single-unit technology: low installation time thanks to integration of LED luminaire insert and reflector into a complete luminaire unit
- high flexibility with 299mm system module size: all elements within the Modario® product family have been matched to this system module size and can be combined and positioned within this system as desired
- arrangement as individual luminaire, as trunking or as a two-dimensional luminaire configuration

## Lighting technology

- wide range of optics from extremely narrow distribution to wide distribution, from asymmetric distribution to double vertical distribution
- LED modules for various light colors and various lumen packages

## Luminaire insert

- LED modules in dimmable design (DALI) as standard
- circuit partitioning into two independent 3-phase supply networks possible
- phase selection possible as standard
- electrical and mechanical connection of inserts within rails without tools in one step
- easy-to-use metal catches for quick mounting of luminaire units in the trunking rail

## Trunking rail

- trunking rail as standard with 5-core or 10-core through-wiring with 2.5mm<sup>2</sup> cable cross-section
- separate power supplies, dimming or emergency supply can be integrated
- electrical feed possible in central area of a trunking rail arrangement via special trunking rail element

## Lighting technology

Modario® LED module for various light distribution patterns with HDP® cover for additional longitudinal glare reduction

- direct extremely narrow distribution
- direct narrow distribution
- direct wide distribution
- direct asymmetric distribution
- shop reflector, direct double vertical distribution with reduced luminance below the luminaire
- accent lighting via spotlights with narrow or medium light distribution

Rapid advances in LED technology lead to permanent improvements in energy efficiency. We take advantage of this in luminaires to reduce power consumption while keeping the luminous flux constant. The latest specific values can be found in the photometric report of each product and in the current download files of the lighting planning data.



### Electrics

Trunking rail and LED module wired ready for connection | **Trunking rail** with connection terminal, max. 2.5mm<sup>2</sup> and through-wiring 5x or 10x 2.5mm<sup>2</sup> (additional electrical feed possible in the central area of a trunking rail arrangement via special trunking rail element) | through-wiring to the next trunking rail with pre-installed electrical and mechanical plug and socket connection | connection for all inserts at distances of 299mm

**LED module** for operation on normal power supply | with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail (ECG DALI: 3-pole + 2-pole for control signal, suitable for 10-core wired trunking rail) | 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Spotlight module** for operation on normal power supply | with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail | with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**3-phase track adapter insert** for operation on normal power supply | with 5-pole connection system (without phase selection), suitable for 5-core or 10-core wired trunking rail | with 3-phase track, for conventional spotlights with universal track adapter | random positioning of spotlights in the track

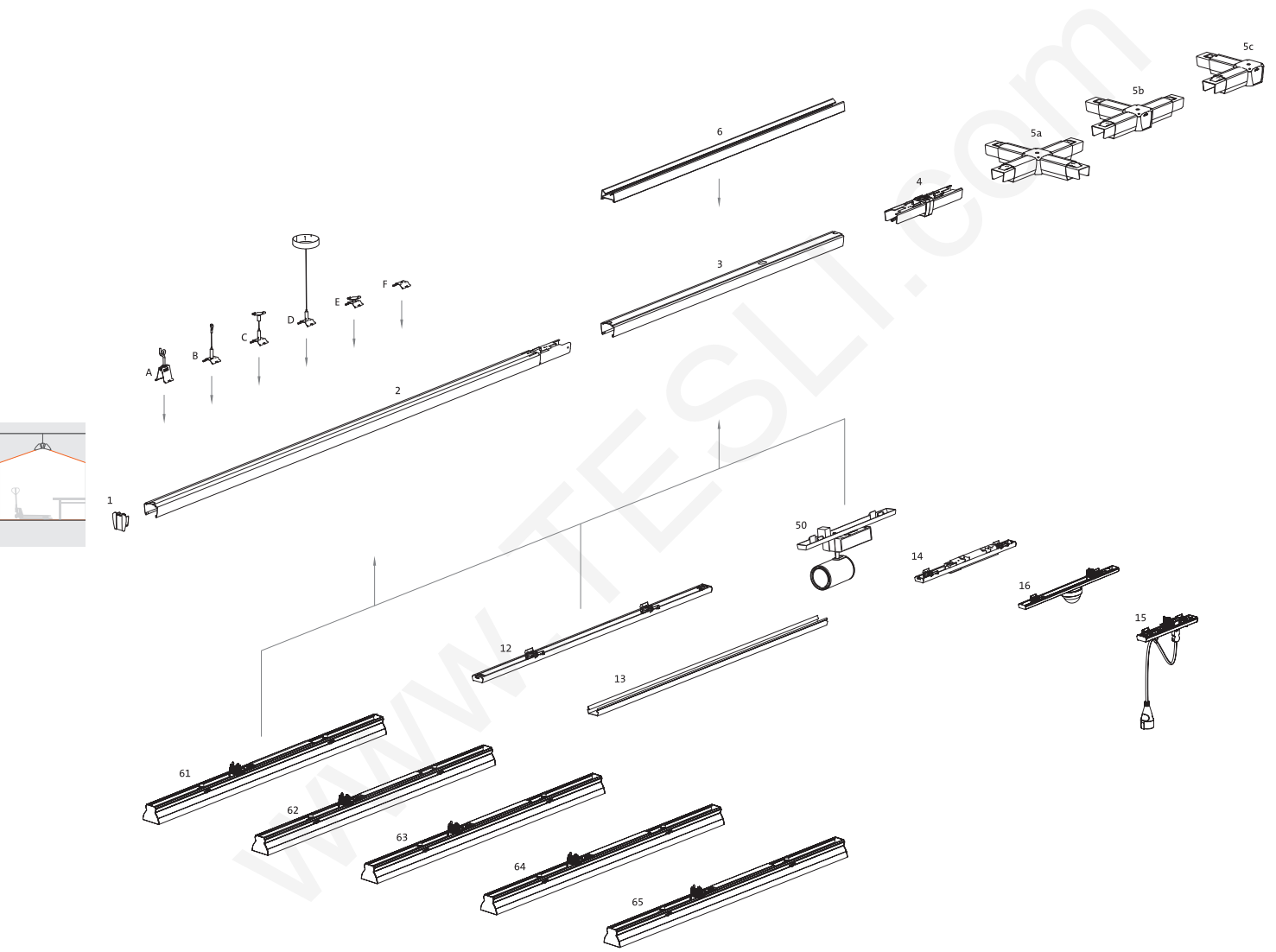
### Housing

Robust trunking rail of sheet steel, LED module with integrated reflector of extruded aluminum; white aluminum (RAL 9006) or pure white (similar to RAL 9010) trunking rail and LED module | mounting of LED module and electrical connection of insert in trunking rail without tools, in one work step, via easy-to-use catches | mechanical locking with metal catch for secure fastening of LED module in the trunking rail | trunking rail with pre-installed, self-supporting connection | large mounting distances of up to 3.5m with robust connection elements



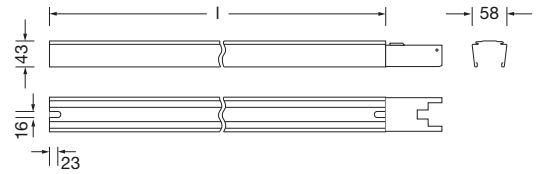


# System overview Modario® LED



<b>Suspensions</b>			<b>Page</b>
A	Chain suspension		8.34
B	Wire suspension	with loop	8.33
C	Wire suspension	with caddy clip	8.33
D	Wire suspension	with canopy, white or silver	8.33
E	Ceiling mounting	with caddy clip	8.33
F	Ceiling mounting	for screw fastening	8.33
<b>Trunking rails and accessories</b>			
1	End cap for trunking rail		8.9
2	Trunking rail	5-core, 10-core   4x SE (1196mm)...16x SE (4784mm)	8.7
3	Trunking rail for central feed	module length: 4x SE (1196mm)   5x SE (1495mm)	8.8
4	Trunking rail connector	rotating	8.9
5	X, T, L connector elements		8.8
6	Cable duct		8.9
<b>LED module and functionality inserts</b>			
61	LED module, extremely narrow distribution	module length: 4x SE (1196mm)	8.11
62	LED module, narrow distribution	module length: 4x SE (1196mm)	8.12
63	LED module, wide distribution	module length: 4x SE (1196mm)	8.13
64	LED module, asymmetric distribution	module length: 4x SE (1196mm)	8.14
65	LED module, double asymmetric distribution	module length: 4x SE (1196mm)	8.15
12	Fixed insert, sheet steel	module length: 4x SE (1196mm)   5x SE (1495mm)	8.10
13	Fixed cover, plastic	module length: 5x SE (1495mm), can be cut to suit	8.10
14	Track adapter insert	module length: 2x SE (598mm)	8.10
15	Socket insert	module length: 1x SE (299mm)	8.10
<b>Multi-sensor inserts</b>			
16	Light/presence/PIR sensors	module length: 2x SE (598mm)	8.25
<b>Spotlight modules</b>			
50	Spotlight module	narrow or medium distribution	8.17
			<small>System size: 1 system unit (1x SE): 299mm</small>





**Modario® IP20 trunking rail**

Trunking rail for ceiling surface or suspended mounting

- with pre-installed trunking rail connector with electrical plug and socket connection
- 5-core or 10-core wired, with connection for luminaire inserts and modules at distances of 299mm

- trunking rail of sheet steel, silver (similar to RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP20
- insulation class: I

• system size: 1 system unit (1x SE): 299mm

**Electrics**

- Trunking rail ready for connection, with terminal at the start of the rail, 5x max. 2.5mm<sup>2</sup> or 10x max. 2.5mm<sup>2</sup>
- cable entry at beginning of rail arrangement through top of rail (possible with every rail element) or via special trunking rail for central feed
  - with 5x 2.5mm<sup>2</sup> or 10x 2.5mm<sup>2</sup> through-wiring (full load rating up to 16A)
  - through-wiring to next trunking rail via serial plug and socket connection
  - connection for luminaire inserts and modules at distance of 299mm
  - cable routing for additional on-site installation (e.g. for multiple circuits) on or in the trunking rail



System size	l [mm]	kg	with 5x 2.5mm <sup>2</sup> through-wiring		with 10x 2.5mm <sup>2</sup> through-wiring	
			Order no. OSRAM	Order no. Siteco	Order no. OSRAM	Order no. Siteco
<b>Pure white</b>						
4x SE	1196	2.0	4039806496157	5TR10150H	4039806496195	5TR101A0H
8x SE	2392	3.6	4039806496256	5TR10250H	4039806496294	5TR102A0H
12x SE	3588	5.2	4039806496355	5TR10350H	4039806496393	5TR103A0H
5x SE	1495	2.4	4039806496164	5TR10150Q	4039806496201	5TR101A0Q
10x SE	2990	4.4	4039806496263	5TR10250Q	4039806496300	5TR102A0Q
15x SE	4485	6.4	4039806496362	5TR10350Q	4039806496409	5TR103A0Q
<b>White aluminum (RAL 9006)</b>						
4x SE	1196	2.0	4039806557070	5TR16150H	4039806557155	5TR161A0H
8x SE	2392	3.6	4039806557278	5TR16250H	4039806557353	5TR162A0H
12x SE	3588	5.2	4039806557476	5TR16350H	4039806557551	5TR163A0H
5x SE	1495	2.4	4039806557094	5TR16150Q	4039806557179	5TR161A0Q
10x SE	2990	4.4	4039806557292	5TR16250Q	4039806557377	5TR162A0Q
15x SE	4485	6.4	4039806557490	5TR16350Q	4039806557575	5TR163A0Q

— please order end-cap sets separately

**For end-cap sets and other trunking rail accessories, see page 8.8 ff.  
For trunking rail mounting accessories, see page 8.33**

**Modario® LED – trunking rail accessories**

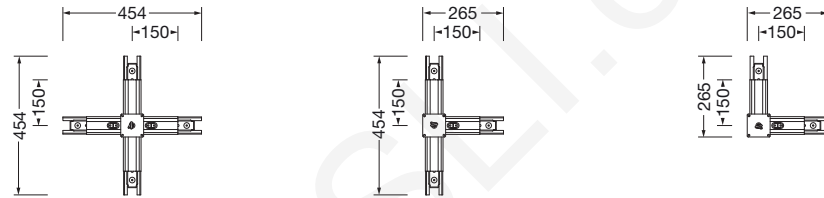


**X, T, L connector elements**

for right-angle latticed trunking rail layouts | for suspended mounting | with pre-installed trunking rail connector, including through-wiring 10x 2.5mm<sup>2</sup> | connector element of sheet steel with plastic cover | protection rating: IP40

Designation	System size	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pure white				
X connector element	1x SE/1x SE	3.2	4039806571106	5TR90173
T connector element	1x SE/0.5x SE	2.7	4039806571083	5TR90172
L connector element	0.5x SE/0.5x SE	1.6	4039806571069	5TR90171
White aluminum				
X connector element	1x SE/1x SE	3.2	4039806571182	5TR96173
T connector element	1x SE/0.5x SE	2.7	4039806571168	5TR96172
L connector element	0.5x SE/0.5x SE	1.6	4039806571144	5TR96171

— system size: 1 system unit (1x SE) = 299mm



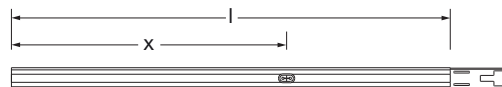
**Trunking rail for central feed**

for supplementary electrical feed in central area of a trunking rail arrangement | 10-core wired, with connection at distance of 299mm | trunking rail of sheet steel | with pre-installed connector | protection rating: IP40 | insulation class: I

Color	System size	l (mm)	x (mm)	Order no. OSRAM	Order no. Siteco
Pure white	4x SE	1196	750	4039806590077	5TR9092AH
Pure white	5x SE	1495	900	4039806577337	5TR9092AQ
White aluminum	4x SE	1196	750	4039806590084	5TR9692AH
White aluminum	5x SE	1495	900	4039806573230	5TR9692AQ

— system size: 1 system unit (1x SE) = 299mm

— Feed at distance x





### Rotating trunking rail connector

for rotated layout of individual trunking rail elements, for variable positioning of luminaire modules as wallwashers, ceiling washers, uplights and the like | incl. through-wiring 7x 1.5mm<sup>2</sup> swivel range: 0°...345° | can be rotated in 15° steps around the longitudinal rail axis | rail length between two rotating connectors: max. 5x SE (1495mm) | protection rating: IP40 | insulation class: I

Color	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pure white	1 set = 2 pieces	1.4	4039806571045	5TR901101
White aluminum	1 set = 2 pieces	1.4	4039806571120	5TR961101

- 2 pieces required per rotating rail element
- at least 1 suspension required in the range of every rotating connector:  $l_{a_{max}} = 750\text{mm}$



### End cap for trunking rail

for clipping to trunking rail | plastic, transparent | incl. terminal, max. 10x 2.5mm<sup>2</sup> for feed | for protection rating: IP40

Designation	PU	Order no. OSRAM	Order no. Siteco
for trunking rail <sup>1)</sup>	1 set = 2 pieces	4039806546630	5TR9016
for trunking rail + LED module <sup>2)</sup>	1 set = 2 pieces	4050737526669	5TR9026

- 1) for unequipped trunking rail
- 2) for trunking rails with flush-mounted LED module at face ends

## Modario® LED – electrical accessories



### Cable duct

for concealed guidance of additional cables on the topside of trunking rail | suitable for 2 lines,  $D \leq 15\text{mm}$  (e.g. NYM 7x 2.5mm<sup>2</sup>) | cable duct of ABS

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	5x SE	1495	4039806589873	5TR90912
White aluminum	5x SE	1495	4039806589897	5TR96912

- system size: 1 system unit (1x SE) = 299mm



### Cable retainer

for attachment of additional cables in the trunking rail | suitable for single-core cable

Designation	PU	Order no. OSRAM	Order no. Siteco
Cable retainer	1 set = 10 pieces	4039806810458	5TR90911

- system size: 1 system unit (1x SE) = 299mm

## Modario® LED – functionality inserts



### Modario® track adapter insert with 3-phase track\*

for mounting to Modario® trunking rail | can be positioned in system size 299mm | sheet steel housing | twist-lock catch for trunking rail quick mounting with metal clip | protection rating: IP20 | insulation class: I

Color	System size	l (mm)	LT (mm)	Order no. OSRAM	Order no. Siteco
Pure white	2x SE	598	200	4039806570888	5TR30700B
Pure white	4x SE	1196	565	4039806573353	5TR30700H
White aluminum	2x SE	598	200	4039806570901	5TR36700B
White aluminum	4x SE	1196	565	4039806570925	5TR36700H

— system size: 1 system unit (1x SE) = 299mm

— LT = length of track

\* track manufactured by Erco according to "Euro Standard", suitable for spotlights with universal track adapter  $I_{max} = 6A$  | max. weight:  $mm_{ax} = 8kg$



### Modario® socket insert\*

for mounting to Modario® trunking rail | can be positioned in system size 299mm | with 0.3 m cable and safety socket, black | sheet steel housing | twist-lock catch for trunking rail quick mounting with metal clip | protection rating: IP20 | insulation class: I

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	1x SE	299	4039806582287	5TR30600
White aluminum	1x SE	299	4039806582324	5TR36600

— system size: 1 system unit (1x SE) = 299mm

\* with internal micro-fuse (G6A/250V)



### Modario® fixed insert, sheet steel, with twist-lock catch

for trunking rail quick mounting | can be positioned in system size 299mm | twist-lock catch with metal clip\* | sheet steel housing | protection rating: IP20 | insulation class: I

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	4x SE	1196	4039806557599	5TR30000H
Pure white	5x SE	1495	4039806557612	5TR30000Q
White aluminum	4x SE	1196	4039806557940	5TR36000H
White aluminum	5x SE	1495	4039806557957	5TR36000Q

— system size: 1 system unit (1x SE) = 299mm

\* suitable for optically uninterrupted appearance for installation of optical accessories



### Modario® fixed cover, plastic

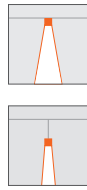
for mounting to Modario® trunking rail | plastic\* cover

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	5x SE	1495	4039806557735	5TR30200Q
White aluminum	5x SE	1495	4039806558015	5TR36200Q

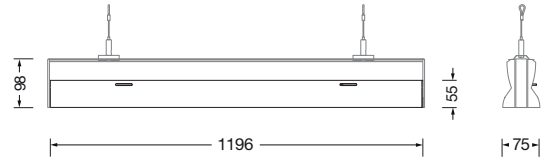
— system size: 1 system unit (1x SE) = 299mm

\* can be cut to suit; to cover trunking rail sections without installed insert

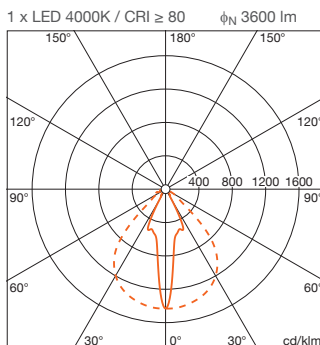




LED



4050737482965  
5TR203D1T



$\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	603	9865
L <sub>70</sub>	592	11180
L <sub>65</sub>	739	5608

UGR 10.4 22.6

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.6	0.9	1.2	1.9	2.9	4.7
30 m <sup>2</sup>	1.3	1.6	2.6	3.2	6.5	8.0
40 m <sup>2</sup>	1.5	1.9	3.0	3.7	7.5	9.3
50 m <sup>2</sup>	1.8	2.2	3.7	4.4	9.2	11
75 m <sup>2</sup>	3.0	3.3	6.0	6.6	15	16
100 m <sup>2</sup>	3.4	4.0	6.8	8.0	17	20
500 m <sup>2</sup>	16	17	32	34	79	85

Maintenance factor 0.8

Rh = Lh

### Modario® IP20/IP40 | LED module direct extremely narrow distribution

LED module for quick mounting to trunking rail; can be positioned in system size 299mm  
 — with reflector and prismatic optics, extremely narrow distribution  
 — with ECG DALI

- housing of extruded aluminum, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (LED lamp space: IP40)
- insulation class: I
- temperature range: T<sub>a</sub> = -30°C...+40°C
- service life: up to 50,000h (L80 | B50)

- system size: 1 system unit (1x SE): 299mm

#### Electrics

- LED module with ECG DALI for operation on normal power supply; ready for connection with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



#### Light source



#### System size



Order no.  
OSRAM

Order no.  
Siteco

#### Pure white

LED	4000	> 85	3600	47	4x SE	1196	2.5	DALI	4050737482965	5TR203D1T
LED	4000	> 85	5150	70	4x SE	1196	2.6	DALI	4050737482989	5TR203D2T

#### White aluminum (RAL 9006)

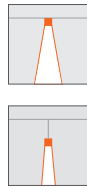
LED	4000	> 85	3600	47	4x SE	1196	2.5	DALI	4050737483108	5TR263D1T
LED	4000	> 85	5150	70	4x SE	1196	2.6	DALI	4050737483122	5TR263D2T

- please order Modario® trunking rail separately

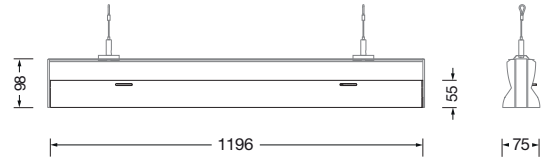
### Mandatory accessories (for details see page 8.16)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	0.1	4050737526669	5TR9026
Luminaire connector	1 set = 2 pieces	0.1	4050737567945	5TR9027

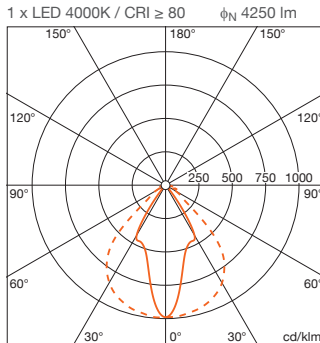




LED



4050737482583  
5TR201D1T



Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1023	14658
L <sub>70</sub>	946	12882
L <sub>65</sub>	1143	5527

UGR 14    23.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.6	0.9	1.1	1.8	2.8	4.6
30 m <sup>2</sup>	1.1	1.3	2.1	2.6	5.3	6.6
40 m <sup>2</sup>	1.2	1.6	2.5	3.2	6.2	8.1
50 m <sup>2</sup>	1.5	1.9	3.0	3.8	7.5	9.6
75 m <sup>2</sup>	2.5	2.7	4.9	5.4	12	14
100 m <sup>2</sup>	2.9	3.4	5.7	6.9	14	17
500 m <sup>2</sup>	13	15	27	29	67	73

Maintenance factor 0.8    Rh = Lh

**Modario® IP20/IP40 | LED module direct narrow distribution**

LED module for quick mounting to trunking rail; can be positioned in system size 299mm  
 — with reflector and prismatic optics, narrow distribution  
 — with ECG DALI

- housing of extruded aluminum, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (LED lamp space: IP40)
- insulation class: I
- temperature range: T<sub>a</sub> = -30°C...+40°C
- service life: up to 50,000h (L80 | B50)

• system size: 1 system unit (1x SE): 299mm

**Electrics**

- LED module with ECG DALI for operation on normal power supply; ready for connection with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no. OSRAM**

**Order no. Siteco**

**Pure white**

LED	4000	> 85	4250	47	4x SE	1196	2.5	DALI	4050737482583	5TR201D1T
LED	4000	> 85	6100	70	4x SE	1196	2.6	DALI	4050737482941	5TR201D2T

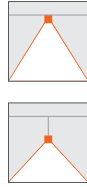
**White aluminum (RAL 9006)**

LED	4000	> 85	4250	47	4x SE	1196	2.5	DALI	4050737483047	5TR261D1T
LED	4000	> 85	6100	70	4x SE	1196	2.6	DALI	4050737483061	5TR261D2T

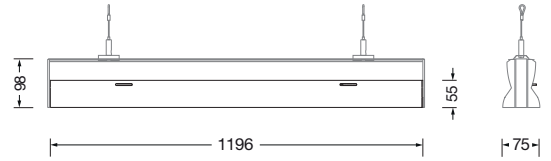
— please order Modario® trunking rail separately

**Mandatory accessories (for details see page 8.16)**

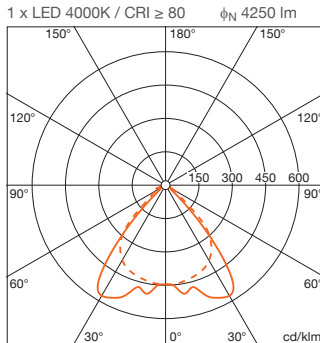
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	0.1	4050737526669	5TR9026
Luminaire connector	1 set = 2 pieces	0.1	4050737567945	5TR9027



LED



4050737482828  
5TR202D1T



$\phi_d$  100%     $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2904	5420
L <sub>70</sub>	2326	5491
L <sub>65</sub>	2493	2968

UGR 19.2    21.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.6	1.2	1.3	2.4	3.2	5.9
30 m <sup>2</sup>	1.0	1.5	2.1	3.0	5.2	7.5
40 m <sup>2</sup>	1.3	1.8	2.6	3.7	6.6	9.2
50 m <sup>2</sup>	1.5	2.2	3.1	4.3	7.7	11
75 m <sup>2</sup>	2.3	2.9	4.7	5.8	12	15
100 m <sup>2</sup>	3.0	3.7	5.9	7.4	15	18
500 m <sup>2</sup>	14	15	27	30	69	75

Maintenance factor 0.8    Rh = Lh

**Modario® IP20/IP40 | LED module direct wide distribution**

LED module for quick mounting to trunking rail; can be positioned in system size 299mm  
 — with reflector and prismatic optics, wide distribution  
 — with ECG DALI

- housing of extruded aluminum, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (LED lamp space: IP40)
- insulation class: I
- temperature range: T<sub>a</sub> = -30°C...+40°C
- service life: up to 50,000h (L80 | B50)

• system size: 1 system unit (1x SE): 299mm

**Electrics**

- LED module with ECG DALI for operation on normal power supply; ready for connection with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no. OSRAM**

**Order no. Siteco**

**Pure white**

LED	4000	> 85	4250	47	4x SE	1196	2.5	DALI	4050737482828	5TR202D1T
LED	4000	> 85	6200	70	4x SE	1196	2.6	DALI	4050737482842	5TR202D2T

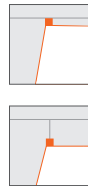
**White aluminum (RAL 9006)**

LED	4000	> 85	4250	47	4x SE	1196	2.5	DALI	4050737482866	5TR262D1T
LED	4000 <th>&gt; 85</th> <th>6200</th> <th>70</th> <th>4x SE</th> <th>1196</th> <th>2.6</th> <th>DALI</th> <th>4050737483085</th> <th>5TR262D2T</th>	> 85	6200	70	4x SE	1196	2.6	DALI	4050737483085	5TR262D2T

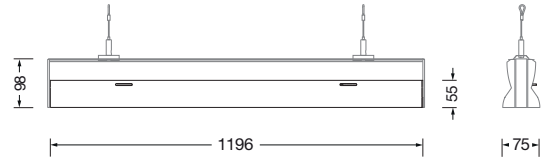
— please order Modario® trunking rail separately

**Mandatory accessories (for details see page 8.16)**

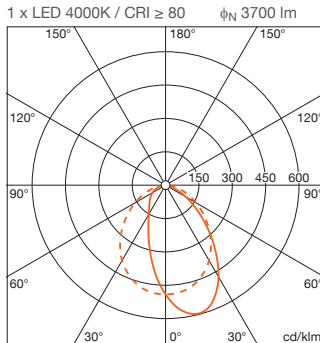
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	0.1	4050737526669	5TR9026
Luminaire connector	1 set = 2 pieces	0.1	4050737567945	5TR9027



LED



4050737483009  
5TR204D1T



Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1723	9308
L <sub>70</sub>	5506	11796
L <sub>65</sub>	7351	12855

UGR 22.8 25.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.9	1.4	1.7	2.8	4.3	7.1
30 m <sup>2</sup>	1.3	1.9	2.5	3.8	6.4	9.5
40 m <sup>2</sup>	1.6	2.3	3.2	4.6	8.1	12
50 m <sup>2</sup>	1.9	2.7	3.9	5.3	9.6	13
75 m <sup>2</sup>	2.8	3.6	5.6	7.3	14	18
100 m <sup>2</sup>	3.6	4.5	7.2	9.0	18	23
500 m <sup>2</sup>	16	18	32	36	80	89

Maintenance factor 0.8 Rh = Lh

**Modario® IP20/IP40 | LED module**  
**direct asymmetric distribution**

LED module for quick mounting to trunking rail; can be positioned in system size 299mm  
 - with reflector and prismatic optics, asymmetric distribution  
 - with ECG DALI

- housing of extruded aluminum, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (LED lamp space: IP40)
- insulation class: I
- temperature range: T<sub>a</sub> = -30°C...+40°C
- service life: up to 50,000h (L80 | B50)

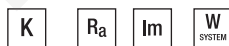
• system size: 1 system unit (1x SE): 299mm

**Electrics**

- LED module with ECG DALI for operation on normal power supply; ready for connection with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no. OSRAM**

**Order no. Siteco**

**Pure white**

LED	4000	> 85	3700	47	4x SE	1196	2.5	DALI	4050737483009	5TR204D1T
LED	4000	> 85	5300	70	4x SE	1196	2.6	DALI	4050737483160	5TR204D2T

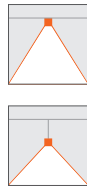
**White aluminum (RAL 9006)**

LED	4000	> 85	3700	47	4x SE	1196	2.5	DALI	4050737483146	5TR264D1T
LED	4000	> 85	5300	70	4x SE	1196	2.6	DALI	4050737482903	5TR264D2T

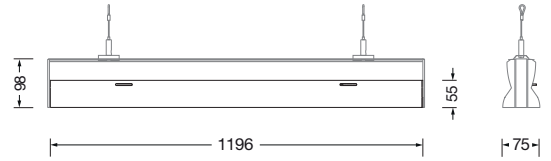
- please order Modario® trunking rail separately

**Mandatory accessories (for details see page 8.16)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	0.1	4050737526669	5TR9026
Luminaire connector	1 set = 2 pieces	0.1	4050737567945	5TR9027

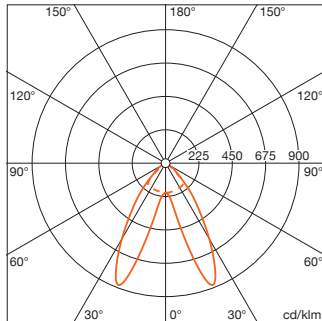


LED



4050737483405  
5TR209D1T

1 x LED 4000K / CRI ≥ 80    Φ<sub>W</sub> 3800 lm



Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3048	2572
L <sub>70</sub>	2300	2874
L <sub>65</sub>	2509	1539

UGR 19.1    21.1  
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Em(lx)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.8	1.3	1.6	2.6	3.9	6.6
30 m <sup>2</sup>	1.2	1.8	2.3	3.6	5.8	9.1
40 m <sup>2</sup>	1.5	2.2	2.9	4.4	7.3	11
50 m <sup>2</sup>	1.7	2.5	3.5	5.0	8.6	13
75 m <sup>2</sup>	2.5	3.4	5.1	6.8	13	17
100 m <sup>2</sup>	3.3	4.3	6.6	8.5	17	21
500 m <sup>2</sup>	15	17	31	34	77	85

Maintenance factor 0.8    Rh = Lh

**Modario® IP20/IP40 | LED module**  
**direct double asymmetric distribution**

- LED module for quick mounting to trunking rail; can be positioned in system size 299mm
- with reflector and prismatic optics, double vertical distribution with reduced luminance below the luminaire
- with ECG DALI

- housing of extruded aluminum, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (LED lamp space: IP40)
- insulation class: I
- temperature range: T<sub>a</sub> = -30°C...+40°C
- service life: up to 50,000h (L80 | B50)

- system size: 1 system unit (1x SE): 299mm

**Electrics**

- LED module with ECG DALI for operation on normal power supply; ready for connection with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



Light source	K	R <sub>a</sub>	lm	W SYSTEM	System size	I [mm]	ECG LLCG	Order no. OSRAM	Order no. Siteco
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Pure white									
LED	4000	> 85	3800	47	4x SE	1196	2.5	DALI	4050737483405 5TR209D1T
LED	4000	> 85	5600	70	4x SE	1196	2.6	DALI	4050737483023 5TR209D2T
White aluminum (RAL 9006)									
LED	4000	> 85	3800	47	4x SE	1196	2.5	DALI	4050737482880 5TR269D1T
LED	4000	> 85	5600	70	4x SE	1196	2.6	DALI	4050737482927 5TR269D2T

— please order Modario® trunking rail separately

**Mandatory accessories (for details see page 8.16)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	0.1	4050737526669	5TR9026
Luminaire connector	1 set = 2 pieces	0.1	4050737567945	5TR9027

## Modario® LED – housing accessories



### Connector for LED module

spring steel (V2A), glossy | installation by snapping onto LED module

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connector	1 set = 2 pieces	0.1	4050737567945	5TR9027

— 2 pieces required per joint



### End cap for trunking rail

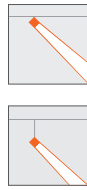
for clipping to trunking rail | plastic, transparent | incl. terminal, max. 10x 2.5mm<sup>2</sup> for feed | for protection rating: IP40

Designation	PU	Order no. OSRAM	Order no. Siteco
for trunking rail <sup>1)</sup>	1 set = 2 pieces	4039806546630	5TR9016
for trunking rail + LED module <sup>2)</sup>	1 set = 2 pieces	4050737526669	5TR9026

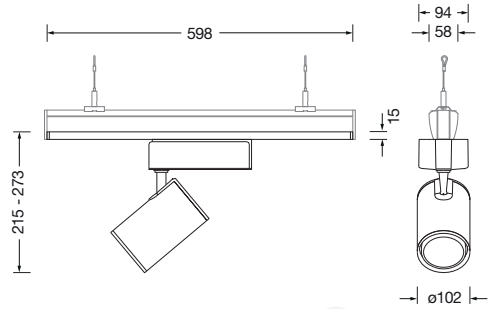
1) for empty end of trunking rail

2) for trunking rails with flush-mounted LED module at face ends



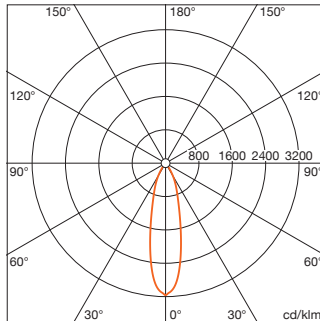


LED



4006584740147  
5TR32A77VL2N8E

1 x LED 4000K / CRI ≥ 80    Φ<sub>N</sub> 2730 lm



I<sub>max</sub> 3165 cd/klm at γ 0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 0
L <sub>70</sub> 0
L <sub>65</sub> 0

α<sub>50%</sub> 2 x 13.2°  
α<sub>10%</sub> 2 x 30.8°

UGR 17.2    17.2  
X 4H    Y 8H    ρ 70/50/20    S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	0.94	2160	1691
3	1.41	960	752
4	1.88	540	423
5	2.35	346	271
6	2.81	240	188

**Modario® IP20 | spotlight module narrow distribution (24°) | LED with 3000lm\***

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric narrow distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum

(RAL 9006) or traffic white (RAL 9016); end caps and housing baseplate of PA, deep black (RAL 9005)

- protection rating: IP20
- insulation class: I
- temperature range: T<sub>a</sub> = +10°C...+35°C
- spotlight head: horizontally rotatable ≤ 360°; vertically tiltable 30°...90°
- service life: up to 50,000h (L70 | B50)

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**

K	R <sub>a</sub>	lm	W SYSTEM
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**System size**

I [mm]	KG	ECG LLLCG
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**Order no. OSRAM**

**Order no. Siteco**

White aluminum (RAL 9006)

LED	4000	> 80	2730	44	2x SE	598	1.8	ECG	4006584740147	5TR32A77VL2N8E
-----	------	------	------	----	-------	-----	-----	-----	---------------	----------------

White (RAL 9016)

LED	4000	> 80	2730	44	2x SE	598	1.8	ECG	4006584740123	5TR32A77VL3M8E
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- please order Modario® trunking rail separately

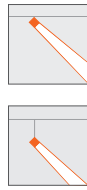
**Accessories (for details see page 8.23)**

No. of luminaires in room						
Reflection factors 70/50/20						
E <sub>m</sub> (lx)	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m²	0.8	1.0	1.5	2.1	3.9	5.2
30 m²	1.5	1.6	3.0	3.2	7.6	7.9
40 m²	1.8	2.0	3.7	4.1	9.2	10
50 m²	2.3	2.5	4.7	4.9	12	12
75 m²	3.7	3.6	7.3	7.2	18	18
100 m²	4.5	4.7	9.0	9.3	22	23
500 m²	22	21	43	43	108	107

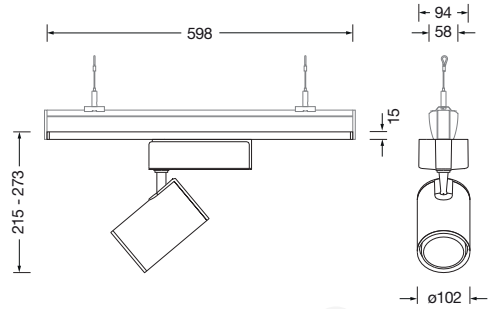
Maintenance factor 0.8    Rh = Lh

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

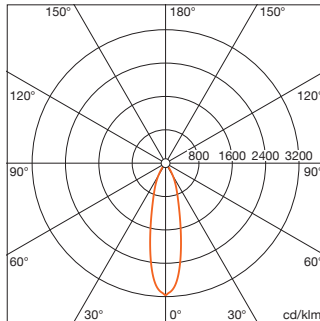


LED



4006584747757  
5TR32A77VL2N9E

1 x LED 4000K / CRI ≥ 80  $\phi_N$  4600 lm



$I_{max}$  3165 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 0
L <sub>70</sub> 0
L <sub>65</sub> 0

$\alpha$ 50% 2 x 13.2°  
 $\alpha$ 10% 2 x 30.8°

UGR 19 19  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	0.94	3639	2850
3	1.41	1617	1266
4	1.88	910	712
5	2.35	582	456
6	2.81	404	317

**Modario® IP20 | spotlight module narrow distribution (24°) | LED with 5000lm\***

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric narrow distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum

- (RAL 9006) or traffic white (RAL 9016); end caps and housing baseplate of PA, deep black (RAL 9005)
- protection rating: IP20
- insulation class: I
- temperature range:  $T_a = +10^\circ\text{C} \dots +30^\circ\text{C}$
- spotlight head: horizontally rotatable  $\leq 360^\circ$ ; vertically tiltable  $30^\circ \dots 90^\circ$
- service life: up to 50,000h (L70 | B50)

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**

K	R <sub>a</sub>	Im	W SYSTEM
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**System size**

I [mm]	KG	ECG LLCG
--------	----	----------

**Order no.**

OSRAM

**Order no.**

Siteco

White aluminum (RAL 9006)

LED	4000	> 80	4600	72	2x SE	598	1.8	ECG	4006584747757	5TR32A77VL2N9E
-----	------	------	------	----	-------	-----	-----	-----	---------------	----------------

White (RAL 9016)

LED	4000	> 80	4600	72	2x SE	598	1.8	ECG	4006584747733	5TR32A77VL3M9E
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- please order Modario® trunking rail separately

**Accessories (for details see page 8.23)**

No. of luminaires in room		Reflection factors 70/50/20				
$E_m$ (lx)	100	200	500			
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m²	0.5	0.6	0.9	1.2	2.3	3.1
30 m²	0.9	0.9	1.8	1.9	4.5	4.7
40 m²	1.1	1.2	2.2	2.4	5.4	6.0
50 m²	1.4	1.5	2.8	2.9	6.9	7.3
75 m²	2.2	2.1	4.3	4.3	11	11
100 m²	2.7	2.8	5.3	5.5	13	14
500 m²	13	13	26	25	64	64

Maintenance factor 0.8

Rh = Lh

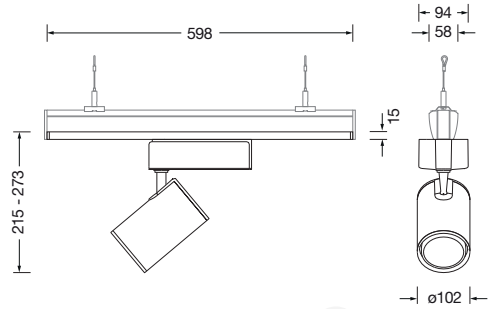
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

\* the specified luminous flux value corresponds to the gross luminous flux of the LED



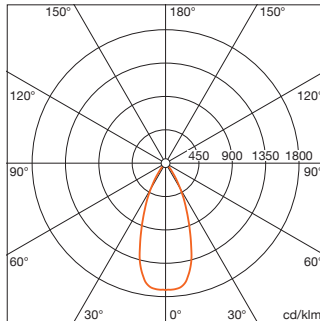


LED



4006584740048  
5TR32B77VL2N8E

1 x LED 4000K / CRI ≥ 80    Φ<sub>N</sub> 2740 lm



I<sub>max</sub> 1710 cd/km at γ 0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 7015
L <sub>70</sub> 7123
L <sub>65</sub> 5764

α<sub>50%</sub> 2 x 21.5°  
α<sub>10%</sub> 2 x 36.5°

UGR 19.6    19.6  
X 4H    Y 8H    ρ 70/50/20    S 0.25H

H(m)	α(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	1.58	1172	923
3	2.36	521	410
4	3.15	293	231
5	3.94	187	148
6	4.73	130	103

**Modario® IP20 | spotlight module medium distribution (40°) | LED with 3000lm\***

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric medium distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum

(RAL 9006) or traffic white (RAL 9016); end caps and housing baseplate of PA, deep black (RAL 9005)

- protection rating: IP20
- insulation class: I
- temperature range: T<sub>a</sub> = +10°C...+35°C
- spotlight head: horizontally rotatable ≤ 360°; vertically tiltable 30°...90°
- service life: up to 50,000h (L70 | B50)

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**

K	R <sub>a</sub>	Im	W SYSTEM
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**System size**

I [mm]	Kg	ECG LLCG
--------	----	----------

**Order no. OSRAM**

**Order no. Siteco**

White aluminum (RAL 9006)

LED	4000	> 80	2740	44	2x SE	598	1.8	ECG	4006584740048	5TR32B77VL2N8E
-----	------	------	------	----	-------	-----	-----	-----	---------------	----------------

White (RAL 9016)

LED	4000	> 80	2740	44	2x SE	598	1.8	ECG	4006584740024	5TR32B77VL3M8E
-----	------	------	------	----	-------	-----	-----	-----	---------------	----------------

- please order Modario® trunking rail separately

**Accessories (for details see page 8.23)**

No. of luminaires in room		Reflection factors 70/50/20				
Lh(m)	Em(lx)	100		200		500
		3.0	5.0	3.0	5.0	3.0
20 m²	0.9	1.1	1.7	2.2	4.3	5.6
30 m²	1.4	1.7	2.7	3.4	6.8	8.4
40 m²	1.7	2.1	3.5	4.3	8.7	11
50 m²	2.1	2.6	4.3	5.1	11	13
75 m²	3.3	3.7	6.5	7.4	16	19
100 m²	4.2	4.8	8.4	9.6	21	24
500 m²	20	22	41	43	101	108

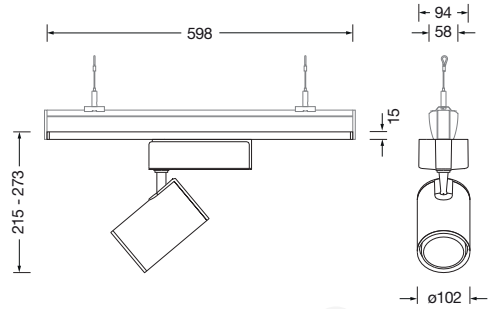
Maintenance factor 0.8    Rh = Lh

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

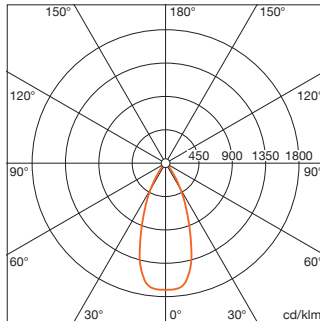


LED



4006584747856  
5TR32B77VL2N9E

1 x LED 4000K / CRI ≥ 80     $\Phi_N$  4610 lm



$I_{max}$  1710 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 11802
L <sub>70</sub> 11984
L <sub>65</sub> 9699

$\alpha_{50\%}$  2 x 21.5°  
 $\alpha_{10\%}$  2 x 36.5°

UGR 21.5    21.5  
X 4H    Y 8H     $\rho$  70/50/20    S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	1.58	1971	1552
3	2.36	876	690
4	3.15	493	388
5	3.94	315	248
6	4.73	219	172

**Modario® IP20 | spotlight module medium distribution (40°) | LED with 5000lm\***

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric medium distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum

- (RAL 9006) or traffic white (RAL 9016); end caps and housing baseplate of PA, deep black (RAL 9005)
- protection rating: IP20
- insulation class: I
- temperature range:  $T_a = +10^\circ C \dots +30^\circ C$
- spotlight head: horizontally rotatable  $\leq 360^\circ$ ; vertically tiltable  $30^\circ \dots 90^\circ$
- service life: up to 50,000h (L70 | B50)

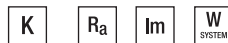
- system size: 1 system unit (1x SE) = 299mm

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no.**

OSRAM

**Order no.**

Siteco

White aluminum (RAL 9006)

LED	4000	> 80	4610	72	2x SE	598	1.8	ECG	4006584747856	5TR32B77VL2N9E
-----	------	------	------	----	-------	-----	-----	-----	---------------	----------------

White (RAL 9016)

LED	4000	> 80	4610	72	2x SE	598	1.8	ECG	4006584747832	5TR32B77VL3M9E
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- please order Modario® trunking rail separately

**Accessories (for details see page 8.23)**

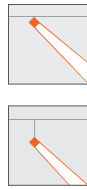
No. of luminaires in room	Reflection factors 70/50/20					
	Em(lx) 100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m²	0.5	0.7	1.0	1.3	2.6	3.3
30 m²	0.8	1.0	1.6	2.0	4.0	5.0
40 m²	1.0	1.3	2.1	2.6	5.2	6.4
50 m²	1.3	1.5	2.5	3.1	6.4	7.6
75 m²	1.9	2.2	3.9	4.4	9.7	11
100 m²	2.5	2.9	5.0	5.7	12	14
500 m²	12	13	24	26	60	64

Maintenance factor 0.8

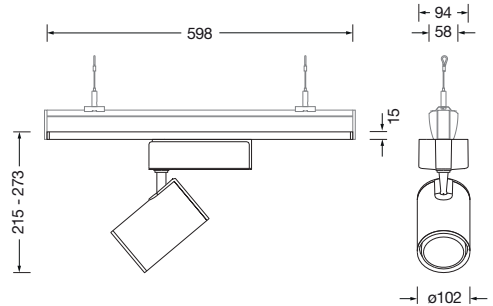
Rh = Lh

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

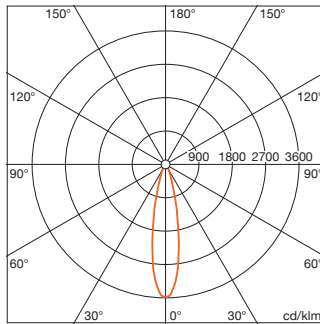
\* the specified luminous flux value corresponds to the gross luminous flux of the LED



HIT-TC-CE  
G8.5



4006584739424  
5TR32A71KD2N  
1 x HIT-TC-CE 35W/942 G8.5  
φ 3400 lm



η<sub>LB</sub> 80%  
I<sub>max</sub> 3579 cd/klm at γ 0°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 0  
L<sub>70</sub> 0  
L<sub>65</sub> 4678

α<sub>50%</sub> 2 x 11.1°  
α<sub>10%</sub> 2 x 22.5°

UGR 18.4 18.4  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	0.78	3042	2416
3	1.18	1352	1074
4	1.57	760	604
5	1.96	487	387
6	2.35	338	268

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100			200			500		
	Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.7	1.0	1.5	2.1	3.7	5.1			
30 m <sup>2</sup>	1.8	1.6	3.7	3.1	9.2	7.8			
40 m <sup>2</sup>	2.0	2.0	3.9	4.0	9.8	10			
50 m <sup>2</sup>	2.6	2.4	5.1	4.9	13	12			
75 m <sup>2</sup>	4.3	3.6	8.6	7.2	21	18			
100 m <sup>2</sup>	4.8	4.6	9.6	9.3	24	23			
500 m <sup>2</sup>	23	21	45	43	113	107			

Maintenance factor 0.8 Rh = Lh

**Modario® IP20 | spotlight module narrow distribution (24°) | HIT-TC-CE**

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric narrow distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum (RAL 9006) or traffic white (RAL 9016); end

- caps and housing baseplate of PA, deep black (RAL 9005); cover of borosilicate glass
- protection rating: IP20
- insulation class: I
- temperature range: T<sub>a</sub> = +10°C...+35°C
- spotlight head: horizontally rotatable ≤ 360°; vertically tiltable 30°...90°

- system size: 1 system unit (1x SE) = 299mm
- silver-colored reflector: also suitable for optimal display of meat, cold meat and fish

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no. OSRAM**

**Order no. Siteco**

White aluminum (RAL 9006)

Light source	System size	System size [mm]	Weight [kg]	ECG	Order no. OSRAM	Order no. Siteco
1x HIT-TC-CE 35W	G8.5 2x SE	598	1.2	ECG	4006584739424	5TR32A71KD2N
1x HIT-TC-CE 70W	G8.5 2x SE	598	1.2	ECG	4006584738601	5TR32A71MD2N

White (RAL 9016)

1x HIT-TC-CE 35W	G8.5 2x SE	598	1.2	ECG	4006584740567	5TR32A71KD3M
1x HIT-TC-CE 70W	G8.5 2x SE	598	1.2	ECG	4006584738588	5TR32A71MD3M

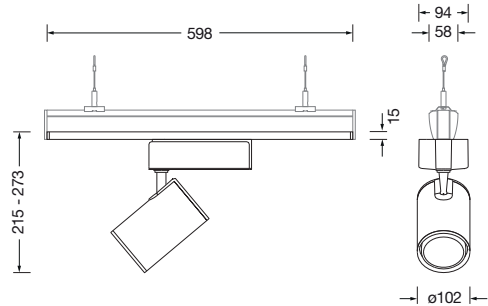
- please order Modario® trunking rail separately
- recommended lamp: OSRAM POWERBALL® HCI-TC

**Accessories (for details see page 8.23)**

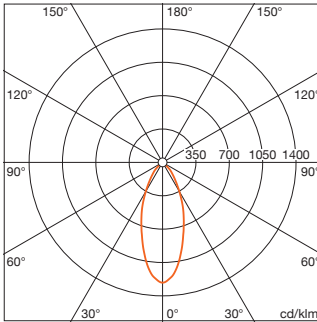
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Filter, dichroic, for baked goods, cheese	0.1	4052899902619	5DS7000B
Filter, dichroic, for meat, cold meat, fish	0.1	4052899902602	5DS7000W
IR filter	0.1	4052899902596	5DS7000I
UV filter	0.1	4052899902589	5DS7000U
Anti-glare protection	0.1	4052899902664	5DS9545BEE
Faceted reflector, champagne-colored, narrow distribution, 24°, for baked goods, cheese	0.3	4052899902626	5DS7102G
Faceted reflector, champagne-colored, medium distribution, 40°, for baked goods, cheese	0.3	4052899902633	5DS7103G
Faceted reflector, silver, medium distribution, 40°, for meat, cold meat, fish	0.3	4052899902657	5DS7103S



HIT-TC-CE  
G8.5



4006584740604  
5TR32B71KD2N  
1 x HIT-TC-CE 35W/942 G8.5  
φ 3400 lm



η<sub>LB</sub> 81%  
I<sub>max</sub> 1261 cd/klm at γ 0°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 1064  
L<sub>70</sub> 3780  
L<sub>65</sub> 5918

α<sub>50%</sub> 2 x 20.7°  
α<sub>10%</sub> 2 x 43.6°

UGR 23 23  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	1.51	1072	788
3	2.27	477	350
4	3.02	268	197
5	3.78	172	126
6	4.53	119	88

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100			200			500		
	Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.9	1.2	1.8	2.5	4.4	6.2			
30 m <sup>2</sup>	1.4	1.8	2.8	3.6	7.1	9.1			
40 m <sup>2</sup>	1.8	2.3	3.7	4.6	9.1	11			
50 m <sup>2</sup>	2.2	2.7	4.5	5.4	11	14			
75 m <sup>2</sup>	3.3	3.9	6.7	7.7	17	19			
100 m <sup>2</sup>	4.3	5.0	8.7	9.9	22	25			
500 m <sup>2</sup>	21	22	41	44	104	109			

Maintenance factor 0.8 Rh = Lh

**Modario® IP20 | spotlight module medium distribution (40°) | HIT-TC-CE**

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric narrow distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum (RAL 9006) or traffic white (RAL 9016); end

- caps and housing baseplate of PA, deep black (RAL 9005); cover of borosilicate glass
- protection rating: IP20
- insulation class: I
- temperature range: T<sub>a</sub> = +10°C...+35°C
- spotlight head: horizontally rotatable ≤ 360°; vertically tiltable 30°...90°

- system size: 1 system unit (1x SE) = 299mm
- silver-colored reflector: also suitable for optimal display of meat, cold meat and fish

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no. OSRAM**

**Order no. Siteco**

White aluminum (RAL 9006)

Light source	Wattage	System size	Length	Height	ECG	Order no. OSRAM	Order no. Siteco
1x HIT-TC-CE 35W	G8.5	2x SE	598	1.2	ECG	4006584740604	5TR32B71KD2N
1x HIT-TC-CE 70W	G8.5	2x SE	598	1.2	ECG	4006584738502	5TR32B71MD2N

White (RAL 9016)

Light source	Wattage	System size	Length	Height	ECG	Order no. OSRAM	Order no. Siteco
1x HIT-TC-CE 35W	G8.5	2x SE	598	1.2	ECG	4006584740482	5TR32B71KD3M
1x HIT-TC-CE 70W	G8.5	2x SE	598	1.2	ECG	4006584738526	5TR32B71MD3M

- please order Modario® trunking rail separately
- recommended lamp: OSRAM POWERBALL® HCI-TC

**Accessories (for details see page 8.23)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Filter, dichroic, for baked goods, cheese	0.1	4052899902619	5DS7000B
Filter, dichroic, for meat, cold meat, fish	0.1	4052899902602	5DS7000W
IR filter	0.1	4052899902596	5DS7000I
UV filter	0.1	4052899902589	5DS7000U
Anti-glare protection	0.1	4052899902664	5DS9545BEE
Faceted reflector, champagne-colored, medium distribution, 40°, for baked goods, cheese	0.3	4052899902633	5DS7103G
Faceted reflector, champagne-colored, narrow distribution, 24°, for baked goods, cheese	0.3	4052899902626	5DS7102G
Faceted reflector, silver, narrow distribution, 24°, for meat, cold meat, fish	0.3	4052899902640	5DS7102S

### Modario® LED optical accessories for LED assembly

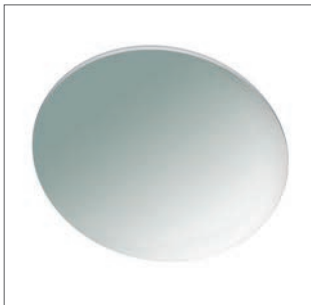


#### Anti-glare protection

for reduced luminance when looking directly at the spotlight | plastic, silver-coated | simple installation through insertion into reflector

Designation	Order no. OSRAM	Order no. Siteco
Anti-glare protection	4052899902961	5DS90900

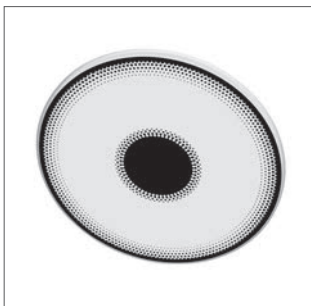
### Modario® LED optical accessories for HIT-TC-CE assembly



#### Dichroic conversion filter

for optimal product presentation, especially of fresh produce, thanks to improved filter characteristics with less heating of glass (compared to conventional filter glass) | filter for various food products as well as other sensitive goods | simple installation through placement in the support ring of the reflector

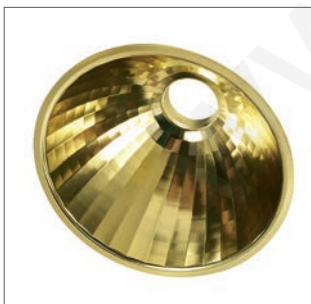
Designation	Order no. OSRAM	Order no. Siteco
for baked goods/cheese	4052899902619	5DS7000B
for meat/cold meat/fish	4052899902602	5DS7000W
IR filter	4052899902596	5DS7000I
UV + IR filter	4052899902589	5DS7000U



#### Anti-glare protection

for reduced luminance when looking directly at the spotlight | cover clear, frosted in central area and on outer edge | simple installation through placement in the support ring of reflector

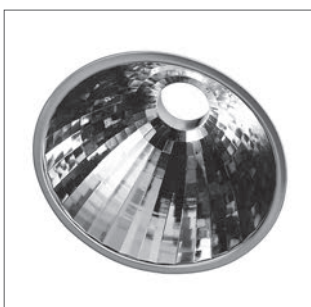
Designation	Order no. OSRAM	Order no. Siteco
Anti-glare protection	4052899902664	5DS9545BEE



#### Reflector, champagne-colored

for optimal product presentation, especially of baked goods and cheese | aluminum reflector, champagne-colored | to replace standard reflector

Designation	Beam angle	Order no. OSRAM	Order no. Siteco
Reflector	24°	4052899902626	5DS7102G
Reflector	40°	4052899902633	5DS7103G



#### Reflector, silver-colored

for optimal product presentation (also especially of meat, cold meat and fish) | for the subsequent change of beam angle | aluminum reflector, silver-colored | to replace standard reflector

Designation	Beam angle	Order no. OSRAM	Order no. Siteco
Reflector	24°	4052899902640	5DS7102S
Reflector	40°	4052899902657	5DS7103S





# Modario<sup>®</sup> sensor modules

The Modario<sup>®</sup> sensor modules are system components of the Modario<sup>®</sup> trunking system. They enable the simple integration of daylight control and presence detection into a Modario<sup>®</sup> trunking system with DALI luminaire inserts. The resulting intelligent lighting control operates as an isolated solution and is not connected to a higher-level system. The system can be easily started via infrared remote control.

Because of their ranges and diverse detection areas, the sensor modules exhibit a wide flexibility for possible applications. Versions are available for mounting heights of 3 to 5 meters or for heights of 6 to 10 meters, yielding various ranges of detection. High energy savings of up to 80% can be achieved with the combination of daylight control and presence detection.

## Features

- simple and quick installation of independent lighting control as isolated solution in Modario<sup>®</sup> trunking system
- no additional on-site installation for sensors; overall installation ready for operation in trunking system
- can be retrofitted in existing systems
- simple planning; commissioning and parameterization via remote control on site, without software, without PC
- variable delay period and orientation light possible
- up to 80% energy savings via constant light control with luminous flux tracking and motion detection

## Function

**Master sensor module** with integrated multi-sensor and control unit | multi-sensor consisting of PIR sensor, light sensor and IR receiver (for parameterization) | control unit with DALI broadcast addressing for operation of max. 50 ECG DALI | push-button for manual control of lighting system | selection of delay period or orientation light | system parameterization via IR remote control

**Slave sensor module** with integrated PIR sensor for expansion of motion detection | pulse output for communication from slave to master sensor module

## Commissioning remote control

Pre-setting of brightness reference value for constant light control and setting of delay periods | switching between operation with/without orientation light (dimming level: 20%/0%) | switching between fully automatic and semi-automatic operation

**Fully automatic operation:** automatic ON/OFF depending on presence and brightness

**Semi-automatic operation:** manual ON/automatic or manual OFF | range: max. 5m (with unobstructed view)

## Installation/commissioning





Simple connection to a Modario<sup>®</sup> trunking system with 10-pole trunking rail and luminaire inserts with ECG DALI | no additional on-site wiring required | mounting and electrical connection of insert in trunking rail without tools, in one work step

## Housing

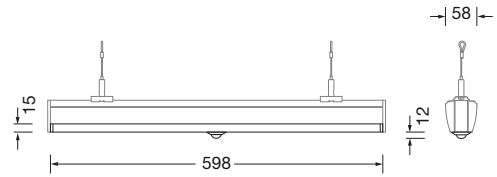
Sensor insert of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010); plastic sensor housing, white or graphite; twist-lock catch for trunking rail quick mounting with metal clip | mechanical locking with easy-to-use twist-lock catch with metal clip for secure fastening of sensor insert in the trunking rail

## Applications

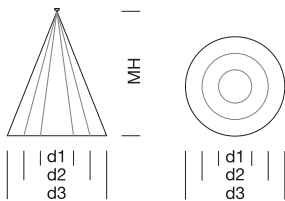
Isolated solution (without connection to higher-level building management system) for one room with high daylight component and building areas not continuously occupied: production areas, workshops, atria, car parks, warehouse areas, ancillary rooms, corridors

	Sensor module				
	Type 1		Type 2		Type 3
	Master	Slave	Master	Slave	Slave
	■	■	■	■	■
	■		■		
	■		■		
	■		■		
<b>Detection</b>	circular		circular		elliptical
<b>Mounting height</b>	3–5m		6–10m		6–10m





Detection range for movement



MH	d1 seated	d2 frontal	d3 traverse
3	ø3	ø3.7	ø6
4	-	ø4.3	ø7
5	-	ø6	ø10

**Modario® IP20 | sensor module type 1, L<sub>PH</sub> = 3...5m | circular detection**

Sensor module for quick mounting to trunking rail; can be positioned in system size 299mm, mounting height h = 3...5m

- master sensor module with integrated multi-sensor for brightness control and for switching of luminaire inserts with ECG DALI
- housing of extruded aluminum, white aluminum (RAL 9006) or pure white (similar to RAL 9010); plastic sensor

housing, white or graphite; twist-lock catch for trunking rail quick mounting with metal clip

- protection rating: IP20
- insulation class: I
- control range: E = 50...1500lx
- mounting height: h = 3...5m
- detection: circular (can be limited with shield)

- system size: 1 system unit (1x SE): 299mm

**Electrics**

System consisting of one master sensor module or one master sensor module and several slave sensor modules in one room; master sensor module ready for connection with 7-pole connection system; suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- control unit with DALI broadcast addressing for operation of max. 50 luminaire inserts with ECG DALI, 1-lamp or 2-lamp (max. 25 power modules)
- master, slave and push-button input must have same phase angle
- combination with insert for auxiliary power supply or single battery not permissible

Detailed information: see data sheet

**Function**

Master sensor module with integrated multi-sensor (consisting of PIR sensor, light sensor and IR receiver) for remote control and control unit

- IR remote control for parameterization
- push-button input for manual control of lighting system
- expansion of motion detection via additional slave sensor modules with integrated PIR sensor
- daylight control and motion detection cannot be deactivated



**Designation**

System size



Order no. OSRAM

Order no. Siteco

Pure white

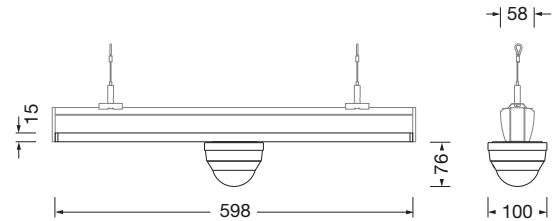
Sensor module type 1, master, mounting height 3m<h<5m	2x SE	598	0.5	4050737056784	5TR305DMBL
Sensor module type 1, slave, mounting height 3m<h<5m	2x SE	598	0.5	4050737056746	5TR305SBL

White aluminum (RAL 9006)

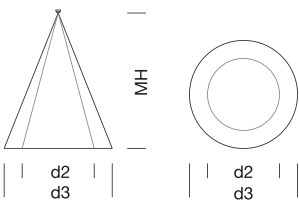
Sensor module type 1, master, mounting height 3m<h<5m	2x SE	598	0.4	4050737056807	5TR365DMBL
Sensor module type 1, slave, mounting height 3m<h<5m	2x SE	598	0.4	4050737054186	5TR365SBL
Commissioning remote control	-	-	0.1	4039806909565	5LZ91292094

- please order IR remote control separately





Detection range for movement



MH	d2 frontal	d3 traverse
6	ø8	ø24
7	ø8	ø24
8	ø8	ø24
9	ø8	ø24

**Modario® IP20 | sensor module type 2**  
**L<sub>PH</sub> = 6...10m | circular detection**

Sensor module for quick mounting to trunking rail; can be positioned in system size 299mm, mounting height h = 6...10m

- master sensor module with integrated multi-sensor for brightness control and for switching of luminaire inserts with ECG DALI
- housing of sheet steel, pure white (similar to RAL 9010); plastic sensor housing,

- white or graphite; twist-lock catch for trunking rail quick mounting with metal clip
- protection rating: IP20
- insulation class: I
- control range: E = 50...1500lx
- mounting height: h = 6...10m
- detection: circular (can be limited with shield)

- system size: 1 system unit (1x SE): 299mm

**Electrics**

System consisting of one master sensor module or one master sensor module and several slave sensor modules in one room; master sensor module ready for connection with 7-pole connection system; suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- control unit with DALI broadcast addressing for operation of max. 50 luminaire inserts with ECG DALI, 1-lamp or 2-lamp (max. 25 power modules)
- master, slave and push-button input must have same phase angle
- combination with insert for auxiliary power supply or single battery not permissible

Detailed information: see data sheet

**Function**

Master sensor module with integrated multi-sensor (consisting of PIR sensor, light sensor and IR receiver) for remote control and control unit

- IR remote control for parameterization
- push-button input for manual control of lighting system
- expansion of motion detection via additional slave sensor modules with integrated PIR sensor
- daylight control and motion detection cannot be deactivated; daylight control less exact at mounting height h ≥ 6m



**Designation**

System size



Order no.  
OSRAM

Order no.  
Siteco

Pure white

Sensor module type 2, master, mounting height 6m<h<10m	2x SE	598	0.9	4050737056760	5TR305DMBH
Sensor module type 2, slave, mounting height 6m<h<10m	2x SE	598	0.9	4050737056333	5TR305OSBH
Commissioning remote control			0.1	4039806909565	5LZ91292094

— please order IR remote control separately

**Accessories**

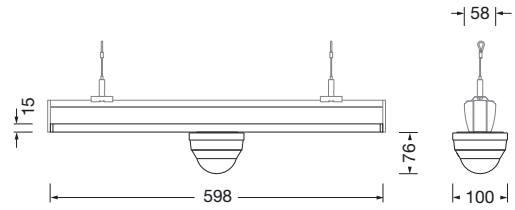
**Designation**

Wt. (kg)

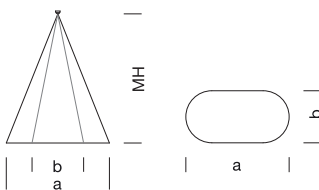
Order no.  
OSRAM

Order no.  
Siteco

Sensor module type 3, slave	1.1	4050737056722	5TR305OSBHR
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Detection range for movement



MH	a x b
6	37 x 20
7	37 x 20
8	44 x 24
9	44 x 24
10	44 x 24

**Modario® IP20 | sensor module type 3**  
**L<sub>PH</sub> = 6...10m | elliptical detection**

Sensor module for quick mounting to trunking rail; can be positioned in system size 299mm, mounting height h = 6...10m

- slave sensor module with integrated PIR sensor for expansion of motion detection e.g. in highbay racking
- housing of sheet steel, pure white (similar to RAL 9010); plastic sensor housing,

white or graphite; twist-lock catch for trunking rail quick mounting with metal clip

- protection rating: IP20
- insulation class: I
- mounting height: h= 6...10m
- detection: elliptical (can be limited with shield)

- system size: 1 system unit (1x SE): 299mm

**Electrics**

System consisting of one master sensor module and several slave sensor modules in one room: slave insert ready for connection with 4-pole connection system, suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- communication of several slave sensor modules via common pulse output on one master sensor module
- master, slave and push-button input must have same phase angle

Detailed information: see data sheet



Designation	System size			Order no. OSRAM	Order no. Siteco
Pure white					
Sensor module type 3, slave, mounting height 6m<h<10m	2x SE	598	1.1	4050737056722	5TR3050SBHR

**Mandatory accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Sensor module type 2, master, mounting height 6m<h<10m	0.9	4050737056760	5TR305DMBH

# Modario® LED | highbay adapter



Light management systems in the indoor luminaire field make a considerable contribution to the energy-efficient operation of lighting installations. In addition, such systems ensure that the requirements concerning the quality of light and the flexibility of the lighting with regard to the utilization of the space are optimized at all times.

The DALI Pro 9047 is suited to complex applications in area and building floor management, daylight-dependent control and dynamic light management systems. Daylight-dependent lighting control is realized using the multi-sensors for presence, motion and daylight dependence, which switch the lighting on in the case of absence and keep it at the set level. The DALI Pro 9047 control unit can control four lines, each having 16 groups and 16 scenes. Each line can accommodate up to 64 DALI-compatible end units so that one controller can contact a total of up to 256 addresses. The input units are available as a variety of glass operating panels and an LCD touch panel.

Incorporation of customer-specific switches, push-buttons or sensors creates a push-button interface with four floating inputs. Configuration and commissioning of the controller is particularly easy using Windows-based PC software. Plug & Play setting is preconfigured for immediate deployment without any commissioning requirement, for example on the building site.

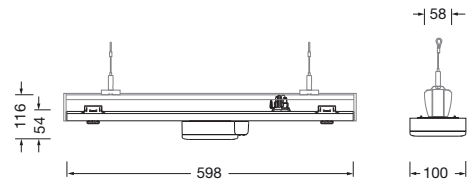
### Functions

- presence and motion sensing
- daylight-dependent lighting control
- manual control of the lighting installation using a touch panel
- flexibility as a result of individual and group addressing

### Areas of application

Higher-level DALI control systems for complex control tasks:

- industrial halls
- open-plan offices
- workshops



### Modario® LED | highbay adapter with integrated light sensor | $L_{PH} = 4...12m$ | circular detection

Highbay adapter for mounting to trunking rail;  
can be positioned in system size 299mm

- Highbay adapter for connection of a Modario® trunking system to light management systems DALI Pro 9047 or WAGO I/O and KNX
- with integrated light sensor; potentiometer to set sensitivity
- select button for initialization during commissioning; with status LED
- motion sensor accessory: vision sensor or highbay sensor for installation without tools
- housing of sheet steel, pure white (similar to RAL 9010); plastic sensor housing, white or graphite; twist-lock catch for trunking rail quick mounting with metal clip
- protection rating: IP20
- insulation class: I
- light sensor detection: circular, 40°
- mounting height:  $h = 4...12m$

- system size: 1 system unit (1x SE) = 299mm

#### Electrics

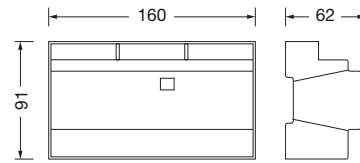
- highbay adapter ready for connection with 5-pole connection system, suitable for 10-core wired trunking rail
- with 3-phase pre-selection\* via moving of contact pin prior to installation in trunking rail
- \* power supply on wire >1< to >3<, >N<, >PE<; DALI output on wire >5< and >7<
- push-button input on wire >6<
- sensor module and push-button input must have same phase angle
- combination with insert for auxiliary power supply or single battery not permissible
- light management systems: see [www.siteco.com](http://www.siteco.com) for detailed information



Designation	System size	I [mm]	kg	Order no. OSRAM	Order no. Siteco
Pure white					
Modario highbay adapter, mounting height 4...12m	2x SE	598	0.9	4050737523316	5TR3050AY
White aluminum (RAL 9006)					
Modario highbay adapter, mounting height 4...12m	2x SE	598	0.9	4050737619743	5TR3650AY

- please order controller separately
- please order motion sensor separately if required
- suitable for 10-core wired Modario® trunking rail
- for mandatory accessories (controller) and optional motion sensor, see page 31 ff.

Additional information about intelligent lighting control with DALI Pro 9047 can be found in **chapter 13**



**Modario® LED | accessories for highbay adapter DALI Pro 9047 controller**

Controller for setting up a DALI light management system with up to 4 DALI lines


- parameterization of groups, scenes and sequences with software
- 4 relay contacts, floating

$I_{max} = 5A/230V$  (Ohm); number of ECG units manufacturer/type-dependent

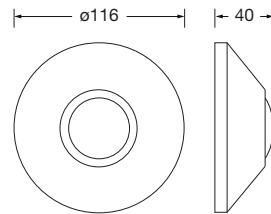
- for installation in distribution box
- plastic casing, gray
- protection rating: IP20
- insulation class: I
- line voltage:  $U_N = 100...240V$  AC 50...60Hz

4 DALI lines;  
Software "DALI Professional" can be downloaded free of charge at [www.osram.com](http://www.osram.com)



Designation	Part units		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Controller	9	0.4	4050737056302	5LZ904711


Additional information about intelligent lighting control with DALI Pro 9047 can be found in **chapter 13**



### Modario® LED | accessories for highbay adapter motion sensor

- for detecting persons or vehicles
  - floating relay contact
  - plastic casing, white
  - for ceiling surface mounting
  - protection rating: IP20
  - switching output: number of ECG units manufacturer/type-dependent; delay period adjustable (0.5/2.5/5.0/7.5/.../20min)
  - line voltage:  $U_N = 120 \dots 277 \text{VAC } 50/60 \text{Hz}$
- Motion detection Vision:
- PIR sensor
  - sensor range circular
  - mounting height:  $H \leq 4.5 \text{m}$
  - opening angle: approx.  $130^\circ$
  - motion detection tangential:  $d = \text{approx. } 21 \text{m}$
- Motion detection Highbay:
- PIR sensor
  - sensor range circular
  - Mounting height:  $6 \text{m} \leq H \leq 10 \text{m}$
  - opening angle: approx.  $60^\circ$
  - motion detection tangential:  $d = \text{approx. } 12 \text{m}$



Designation	Version		Order no. OSRAM	Order no. Siteco
Sensor	Vision	1.0	4050737623948	5LZ904004
Sensor	High bay	1.0	4050737619774	5LZ904005

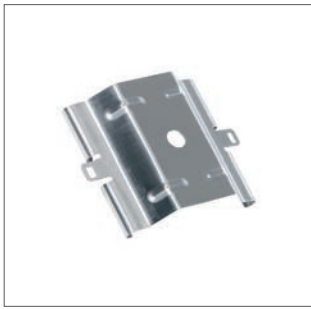
### Accessories

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
High bay adapter	1.0	4050737619767	5LZ904722
Modario highbay adapter, mounting height 4...12m	0.9	4050737523316	5TR3050AY
Modario highbay adapter, mounting height 4...12m	5.3	4050737619743	5TR3650AY
Timer module	0.1	4050737468648	5LZ916001

Additional information about intelligent lighting control with DALI Pro 9047 can be found in **chapter 13**



## Modario® LED – mounting accessories for trunking rail



### Ceiling mounting

made of spring steel V2A, glossy | installation by snap-on | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806505668	5LS91101EA



### Ceiling mounting with caddy clip

made of spring steel V2A, glossy | installation by snap-on | load capacity: 16kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806558206	5TR90142



### Wire suspension with loop

with height adjustment | mounting bracket of spring steel V2A, glossy | installation by snap-on | wire: D = 1.5mm | load capacity: 20kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	H ≤ 2m	4039806505354	5TR901302

— without ceiling-side attachment (ceiling hook on site)



### Wire suspension with caddy clip

with height adjustment | mounting bracket of spring steel V2A, glossy; caddy clip galvanized | installation by snap-on | wire: D = 1.5mm | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	H ≤ 2m	4039806505378	5TR901322



### Wire suspension with canopy

with height adjustment | mounting bracket of spring steel V2A, glossy | installation by snap-on | wire length l = 2m | wire: D = 1.2mm | load capacity: 12kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
with white canopy			
without terminal	H ≤ 2m	4039806505361	5TR901312
with terminal <sup>1)</sup>	H ≤ 2m	4039806545855	5TR901332

with silver canopy			
without terminal	H ≤ 2m	4039806558244	5TR961312
with terminal <sup>1)</sup>	H ≤ 2m	4039806558251	5TR961332

1) with 5 terminals, 1-pole, max. 2.5mm<sup>2</sup>



### Wire suspension with ceiling sheath

with height adjustment (luminaire side) | with cylindrical ceiling attachment element, nickel-plated | mounting bracket of spring steel V2A; installation via snap-on | wire: D = 1.5mm | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	$H \leq 2\text{m}$	4050737029030	5TR901342



### Chain suspension for trunking rail

rail side | safety hooks with height compensation | installation via snap-on | mounting bracket of spring steel V2A, glossy | steel safety hooks, galvanized | load capacity: 30kg

Designation	Order no. OSRAM	Order no. Siteco
Chain suspension	4039806505347	5TR9012

— without chain



### Knotted-link chain

link<sub>inside</sub> 5.6 x 31mm | load capacity: 40kg

Designation	Order no. OSRAM	Order no. Siteco
Knotted-link chain, galvanized	4039806184290	5LY9001
Knotted-link chain, V2A	4039806184313	5LY9002

— Chain: per meter



### Safety link

link<sub>inside</sub> 5 x 15mm | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Safety link, V2A	4039806184368	5LY9004

The weight of the continuous row (depending on design and configuration) and the load capacity of the suspensions determine the number of attachment points.

If there are additional loads (such as spotlights), additional suspensions are needed. In this case, the maximum permissible distance between two attachment points and the maximum permissible length of the self-supporting rail end must not be exceeded.

- maximum permissible distance between two attachment points:  $l_{\text{max}} = 3.5\text{m}$
- maximum permissible length of self-supporting rail end:  $l_{\text{a,max}} = 0.8\text{m}$

#### With power modules (5TR775... | 5TR776... | 5TR778...) | with highbay luminaires T16 (5LJ161... | 5LJ162...):

- at least one attachment point per luminaire:  $l_{\text{max}} = 1.5\text{m}$
- maximum distance in unequipped rail:  $l_{\text{max}} = 3.5\text{m}$

#### In rotating rail connectors:

- 1 suspension required in the range of the rotating connector:  $l_{\text{a,max}} = 0.75\text{m}$

# Modario® IP20/IP40 trunking system



The Modario® trunking system with its fully compatible modular construction can be customized to complex photometric requirements. This system consists of two basic elements: the 5-core or 10-core wired trunking rail and the open distribution insert for energy-efficient T16 fluorescent lamps. All elements are matched to the 299mm system module size and can be used in any combination. Socket outlet modules, spotlights and tracks as well as other accessories are available.

Numerous light distribution characteristics can be created from the various photometric components. Apart from various specular reflectors in white or silver, transparent HDP® reflectors with prismatic optics are part of the modular system. Standard-compliant lighting (UGR < 19) for computer screen workstations can be executed with this system. A high-output power module for especially ergonomic lighting with four T16 lamps and brilliant HDP® prismatic optics as well as a 4-lamp highbay luminaire with different light distribution characteristics are also available. All system components can be combined without the use of tools. X, T and L connectors expand the system's application range.

## Features

- modular construction system
- variable lamp wattages via T16 multiwatt technology
- high flexibility with 299mm system module size: all elements within the Modario® product family have been constructed for this system module size and can be combined and positioned within this system as desired
- arrangement as individual luminaire, as trunking or as a two-dimensional luminaire configuration

## Lighting technology

- wide range of optics from open distribution to HDP® technology (UGR < 19)
- energy-efficient High Definition Prismatic optics; extremely high efficiency up to 103%
- light-output-ratio-optimized reflectors with self-cleaning effect of highly reflective aluminum (MIRO®)
- power module for high illuminance levels, with up to 58% indirect light or with direct distribution

## Luminaire insert

- luminaire insert with ECG Multiwatt as standard for varying lamp configurations
- dimmable version of insert (DALI or 1...10V) available as standard
- circuit partitioning into two independent 3-phase supply networks possible
- phase selection possible as standard
- electrical and mechanical connection of inserts within rails without tools in one step

- easy-to-use twist-lock catches with metal clips for quick mounting of inserts and reflectors in the trunking rail

## Trunking rail

- trunking rail as standard with 5-core or 10-core through-wiring with 2.5mm<sup>2</sup> cable cross-section
- separate power supplies, dimming or emergency supply can be integrated
- electrical feed possible in central area of a trunking rail arrangement via special trunking rail element
- through-wiring is expandable to 12-core via supplementary wiring set
- large distances between suspension points of up to 3.5m with self-supporting trunking rail connectors
- simple installation of trunking rail elements with pre-assembled connectors with integrated plug-in system (electrical and mechanical connection)

### Lighting technology

Modario® luminaire insert open distribution | optics can be defined with supplementary elements such as High Definition Prismatic reflectors (HDP®) of PMMA, or reflectors of sheet steel or light-output-ratio-optimized aluminum (MIRO®):

- HDP® reflector, direct/indirect wide distribution (UGR < 19)
  - highly specular louver, high-gloss, CAT ( $L \leq 1000 \text{ cd/m}^2$ )
  - satin matt reflector, direct distribution; lamp shield for single or double vertical beam distribution with reduced luminance below the luminaire
  - direct extremely narrow distribution reflector
  - direct narrow distribution reflector
  - direct/indirect or direct extremely wide distribution reflector, with cross-blade louver for longitudinal glare reduction
  - direct asymmetric wide distribution reflector
- power modules for high illuminance levels up to 2000lx  
T16 high bay luminaire with reflector of highly reflective aluminum (MIRO®) with narrow, wide or extremely wide light distribution  
accent lighting via spotlights with narrow or medium light distribution

### Electrics

Trunking rail and luminaire insert wired ready for connection |

**Trunking rail** with connection terminal, max. 2.5mm<sup>2</sup> and through-wiring 5x or 10x 2.5mm<sup>2</sup> (additional electrical feed possible in central area of a trunking rail arrangement via special trunking rail element); expansion of through-wiring possible to 12x 2.5mm<sup>2</sup> with supplementary wiring set | through-wiring to the next trunking rail with pre-installed electrical and mechanical plug and socket connection | connection for all inserts at distance of 299mm

**Luminaire insert** for operation on normal power supply | with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail (ECG Multiwatt DALI and ECG Multiwatt 1...10V: 3-pole + 2-pole for control signal, suitable for 10-core wired trunking rail) | 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

#### Luminaire insert for separate battery supply

- for operation on normal power supply or via the integral separate battery supply | suitable for 10-core wired trunking rail

#### Luminaire insert with changeover relay

- for operation on “normal power supply” or external safety supply | suitable for 10-core wired trunking rail
- for operation on “normal power supply” or a second external safety supply | suitable for 12-core wired trunking rail

#### Luminaire insert without changeover relay

- for continuous operation directly via external safety supply | suitable for 10-core wired trunking rail
- without changeover relay for continuous operation directly via a second external safety supply | suitable for 12-core wired trunking rail

**Spotlight module** for operation on normal power supply | with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail | with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**3-phase track adapter insert** for operation on normal power supply | with 5-pole connection system (without phase selection), suitable for 5-core or 10-core wired trunking rail | with 3-pole track, for conventional spotlights with universal track adapter | any position of spotlights in the track

**Highbay luminaires** for operation on normal power supply, one or two circuits depending on design:

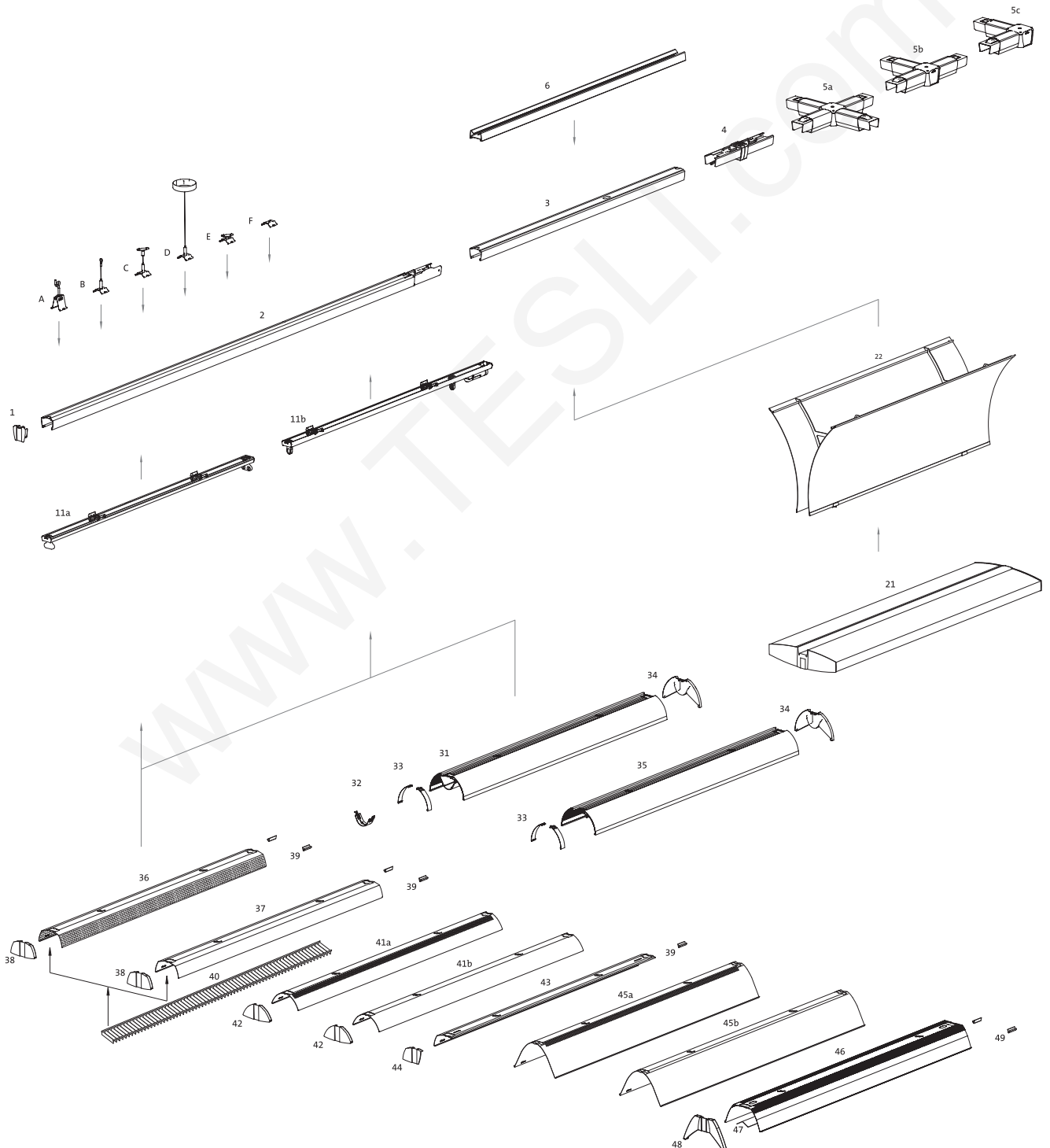
- version for one circuit (with ECG DALI or ECG 1...10V): with 5-pole connection system (3-pole + 2-pole for control signal), suitable for 10-core wired trunking rail | with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- version for 2 circuits (with ECG): with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail | phase pre-selection not possible

### Housing

Robust trunking rail, luminaire insert and gear tray of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010) | innovative High Definition Prismatic reflector (HDP®) of PMMA with prismatic structure | reflector of sheet steel or aluminum | mounting of luminaire insert and reflector and electrical connection of insert in trunking rail without tools, in one work step, via easy-to-use twist-lock catches | mechanical locking via metal clip for secure fastening of insert and reflector in the trunking rail | trunking rail with pre-mounted, self-supporting connector | large mounting distances of up to 3.5m with robust connection elements

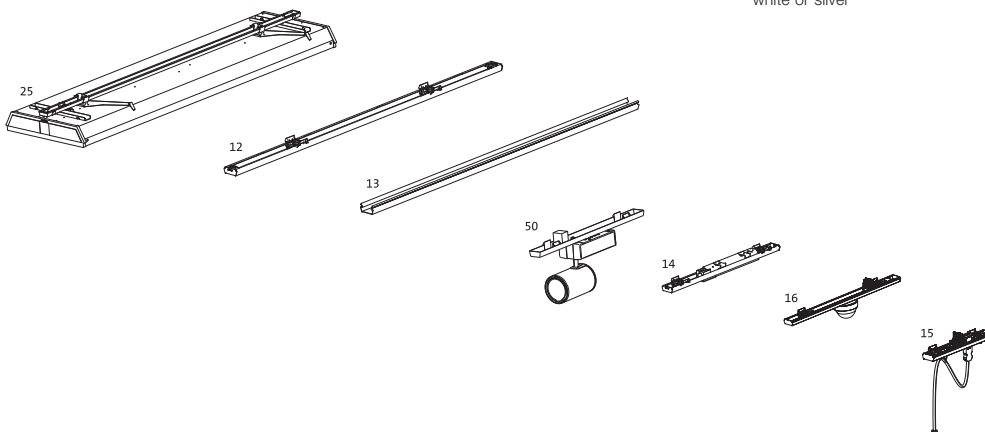


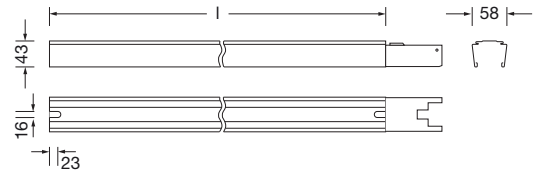
# System overview Modario® IP20/IP40



<b>Suspensions</b>	A	Chain suspension	with loop   with caddy clip   with canopy	8.100
	B/C/D	Wire suspension	with loop   with caddy clip   with canopy	8.99
	E/F	Ceiling mounting	with caddy clip/for screw fastening	8.99
<b>Trunking rails and accessories</b>	1	End cap for trunking rail		8.41
	2	Trunking rail*	5-core, 10-core   4x SE (1196mm)...16x SE (4784mm)	8.39
	3	Trunking rail* for central feed	module length: 4x SE (1196mm)   5x SE (1495mm)	8.40
	4	Trunking rail connector*	rotating	8.41
	5	X, T, L connector elements*		8.40
	6	Cable duct* for trunking rail		8.41
<b>Luminaire inserts, functionality inserts/ accessories</b>	11	Luminaire insert*, 1-lamp/2-lamp	without/with connection to auxiliary power supply	8.43
	12	Fixed insert*, sheet steel	module length: 4x SE (1196mm)   5x SE (1495mm)	8.42
	13	Fixed cover*, plastic	module length: 5x SE (1495mm), can be cut to suit	8.42
	14	Track adapter insert*	module length: 2x SE (598mm)   4x SE (1196mm)	8.42
	15	Socket insert*	module length: 1x SE (299mm)	8.42
<b>Multi-sensor inserts</b>	16	Light/presence/PIR sensors	module length: 2x SE (598mm)	8.91
<b>Power module</b>	21	Power module, 4-lamp	open   direct   direct/indirect distribution	8.89
	22	Light sail, white	for power module direct/indirect distribution	8.88
<b>Highbay luminaire</b>	25	Highbay luminaire, 4-lamp	dir. narrow   dir. wide   dir. extr. wide distribution	8.89
<b>Spotlight modules</b>	50	Spotlight module	narrow or medium distribution	8.76
<b>Reflectors/ accessories</b>	31	HDP® reflector with prismatic optics (UGR < 19), transparent	direct/indirect (77:23) wide distribution	8.54
	35	HDP® reflector, transparent	direct/indirect (86:14) wide distribution	8.55
	32	Connector	for HDP® refl. with prismatic optics	8.56
	33	Connector	for HDP® refl. with prismatic optics   for HDP® refl.	8.56
	34	End cap	for HDP® refl. with prismatic optics   for HDP® refl.	8.56
	36	Reflector, silver	direct/indirect extremely wide distribution	8.67
	37	Reflector, white or silver	direct extremely wide distribution	8.68
	38	End cap	for reflector extremely wide distribution	8.70
	39	Connector	for reflector extremely wide distribution	8.70
	40	Cross-blade louver, white	for reflector extremely wide distribution	8.70
	41	Reflector, silver, highly reflective	narrow distribution	8.59
	42	End cap	for reflector narrow distribution	8.61
	43	Reflector, white or silver	asymmetric distribution	8.73
	44	End cap	for reflector asymmetric distribution	8.75
	45	Reflector, silver, highly reflective	extremely narrow distribution	8.57
	46	Shop reflector, silver	direct/indirect   direct distribution	8.62
	47	Lamp shield for shop reflector	double vertical   single vertical distribution	8.64
	48	End cap	for shop reflector	8.64
	49	Connector	for shop reflector	8.64

System size: 1 system unit (1x SE): 299mm  
\*white or silver





**Modario® IP20 trunking rail**

- Trunking rail for ceiling surface or suspended mounting
- with pre-installed trunking rail connector with electrical plug and socket connection
- 5-core or 10-core wired, with connection for luminaire inserts and modules at distance of 299mm
- trunking rail of sheet steel, silver (similar to RAL 9006) or pure white (similar to RAL 9010)
- protection rating: IP40 (with corresponding accessories)
- insulation class: I

• system size: 1 system unit (1x SE): 299mm

**Electrics**

- Trunking rail ready for connection, with terminal at the start of the rail, 5x max. 2.5mm<sup>2</sup> or 10x max. 2.5mm<sup>2</sup>
- cable entry at beginning of rail arrangement through top of rail (possible with every rail element) or via special mounting rail for central feed
  - with 5x 2.5mm<sup>2</sup> or 10x 2.5mm<sup>2</sup> through-wiring (full load rating up to 16A)
  - through-wiring to next trunking rail via serial plug and socket connection
  - connection for luminaire inserts and modules at distance of 299mm
  - cable routing for additional on-site installation (e.g. for multiple circuits) on or in the trunking rail



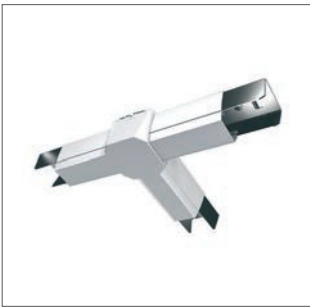
System size	l [mm]	kg	with 5x 2.5mm <sup>2</sup> through-wiring		with 10x 2.5mm <sup>2</sup> through-wiring	
			Order no. OSRAM	Order no. Siteco	Order no. OSRAM	Order no. Siteco
<b>Pure white</b>						
4x SE	1196	2.0	4039806496157	5TR10150H	4039806496195	5TR101A0H
8x SE	2392	3.6	4039806496256	5TR10250H	4039806496294	5TR102A0H
12x SE	3588	5.2	4039806496355	5TR10350H	4039806496393	5TR103A0H
5x SE	1495	2.4	4039806496164	5TR10150Q	4039806496201	5TR101A0Q
10x SE	2990	4.4	4039806496263	5TR10250Q	4039806496300	5TR102A0Q
15x SE	4485	6.4	4039806496362	5TR10350Q	4039806496409	5TR103A0Q
<b>White aluminum (RAL 9006)</b>						
4x SE	1196	2.0	4039806557070	5TR16150H	4039806557155	5TR161A0H
8x SE	2392	3.6	4039806557278	5TR16250H	4039806557353	5TR162A0H
12x SE	3588	5.2	4039806557476	5TR16350H	4039806557551	5TR163A0H
5x SE	1495	2.4	4039806557094	5TR16150Q	4039806557179	5TR161A0Q
10x SE	2990	4.4	4039806557292	5TR16250Q	4039806557377	5TR162A0Q
15x SE	4485	6.4	4039806557490	5TR16350Q	4039806557575	5TR163A0Q

— please order end-cap sets separately

**For end-cap sets and other trunking rail accessories, see page 8.40 ff.  
For mounting accessories for trunking rail, see page 8.99**



**Modario® IP20/IP40 – trunking rail accessories**

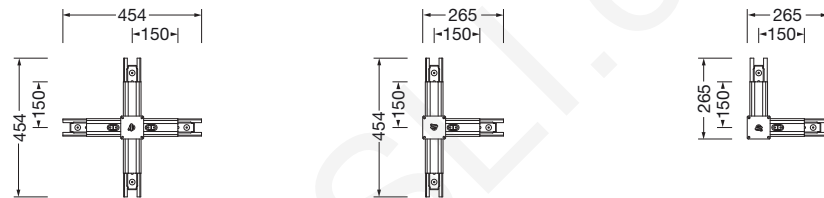


**X, T, L connector elements**

for right-angle latticed trunking rail layouts | for suspended mounting | with pre-installed trunking rail connector, including through-wiring 10x 2.5mm<sup>2</sup> | connector element of sheet steel with plastic cover | protection rating: IP40

Designation	System size	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pure white				
X connector element	1x SE/1x SE	3.2	4039806571106	5TR90173
T connector element	1x SE/0.5x SE	2.7	4039806571083	5TR90172
L connector element	0.5x SE/0.5x SE	1.6	4039806571069	5TR90171
White aluminum				
X connector element	1x SE/1x SE	3.2	4039806571182	5TR96173
T connector element	1x SE/0.5x SE	2.7	4039806571168	5TR96172
L connector element	0.5x SE/0.5x SE	1.6	4039806571144	5TR96171

— system size: 1 system unit (1x SE) = 299mm

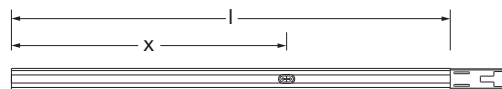


**Trunking rail for central feed**

for supplementary electrical feed in central area of a trunking rail arrangement | 10-core wired, with connection at distance of 299mm | trunking rail of sheet steel | with pre-installed connector | protection rating: IP40 | insulation class: I

Color	System size	l (mm)	x (mm)	Order no. OSRAM	Order no. Siteco
Pure white	4x SE	1196	750	4039806590077	5TR9092AH
Pure white	5x SE	1495	900	4039806577337	5TR9092AQ
White aluminum	4x SE	1196	750	4039806590084	5TR9692AH
White aluminum	5x SE	1495	900	4039806573230	5TR9692AQ

— system size: 1 system unit (1x SE) = 299mm  
 — Feed at distance x





### Rotating trunking rail connector

for rotated layout of individual trunking rail elements, for variable positioning of luminaire modules as wallwashers, ceiling washers, uplights and the like | incl. through-wiring 7x 1.5mm<sup>2</sup> swivel range: 0°...345° | can be rotated in 15° steps around the longitudinal rail axis | rail length between two rotating connectors: max. 5x SE (1495mm) | protection rating: IP40 | insulation class: I

Color	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pure white	1 set = 2 pieces	1.4	4039806571045	5TR901101
White aluminum	1 set = 2 pieces	1.4	4039806571120	5TR961101

- 2 pieces required per rotating rail element
- at least 1 suspension required in the range of every rotating connector:  $l_{a_{max}} = 750\text{mm}$



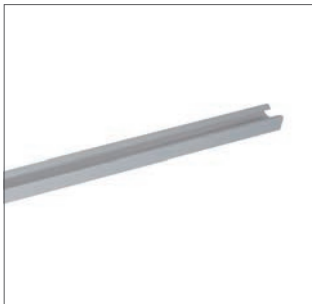
### End cap for trunking rail

for clipping to trunking rail | plastic, transparent | incl. terminal, max. 10x 2.5mm<sup>2</sup> for feed | for protection rating: IP40

Designation	PU	Order no. OSRAM	Order no. Siteco
for trunking rail <sup>1)</sup>	1 set = 2 pieces	4039806546630	5TR9016

1) for unequipped trunking rail

## Modario® IP20/IP40 – electrical accessories

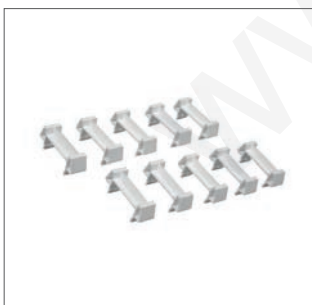


### Cable duct

for concealed guidance of additional cables on the topside of trunking rail | suitable for 2 lines,  $D \leq 15\text{mm}$  (e. g. NYM 7x 2.5mm<sup>2</sup>) | cable duct of ABS

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	5x SE	1495	4039806589873	5TR90912
White aluminum	5x SE	1495	4039806589897	5TR96912

- system size: 1 system unit (1x SE) = 299mm



### Cable retainer

for attachment of additional cables in the trunking rail | suitable for single-core cable

Designation	PU	Order no. OSRAM	Order no. Siteco
Cable retainer	1 set = 10 pieces	4039806810458	5TR90911

- system size: 1 system unit (1x SE) = 299mm



### Through-wiring set

for additional wiring in the trunking rail

Designation	System size	l (mm)	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
2x 2.5mm <sup>2</sup>	5x SE	1495	1 set	0.1	4050737099958	5TR90121Q1
2x 2.5mm <sup>2</sup>	10x SE	2990	1 set	0.2	4050737099972	5TR90121Q2
2x 2.5mm <sup>2</sup>	15x SE	4485	1 set	0.3	4050737099996	5TR90121Q3

## Modario® IP20/IP40 – functionality inserts



### Modario® track adapter insert with 3-phase track\*

for mounting to Modario® trunking rail | can be positioned in system size 299mm | sheet steel housing | twist-lock catch for trunking rail quick mounting with metal clip | protection rating: IP20 | insulation class: I

Color	System size	l (mm)	LT (mm)	Order no. OSRAM	Order no. Siteco
Pure white	2x SE	598	200	4039806570888	5TR30700B
Pure white	4x SE	1196	565	4039806573353	5TR30700H
White aluminum	2x SE	598	200	4039806570901	5TR36700B
White aluminum	4x SE	1196	565	4039806570925	5TR36700H

— system size: 1 system unit (1x SE) = 299mm

— LT = length of track

\* track manufactured by Erco according to "Euro Standard", suitable for spotlights with universal track adapter  $I_{max} = 6A$  | max. weight:  $m_{max} = 8kg$



### Modario® socket insert\*

for mounting to Modario® trunking rail | can be positioned in system size 299mm | with 0.3m cable and safety socket, black | sheet steel housing | twist-lock catch for trunking rail quick mounting with metal clip | protection rating: IP20 | insulation class: I

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	1x SE	299	4039806582287	5TR30600
White aluminum	1x SE	299	4039806582324	5TR36600

— system size: 1 system unit (1x SE) = 299mm

\* with internal micro-fuse (G6A/250V)



### Modario® fixed insert, sheet steel, with twist-lock catch

for trunking rail quick mounting | can be positioned in system size 299mm | twist-lock catch with metal clip\* | sheet steel housing | protection rating: IP20 | insulation class: I

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	4x SE	1196	4039806557599	5TR30000H
Pure white	5x SE	1495	4039806557612	5TR30000Q
White aluminum	4x SE	1196	4039806557940	5TR36000H
White aluminum	5x SE	1495	4039806557957	5TR36000Q

— system size: 1 system unit (1x SE) = 299mm

\* suitable for optically uninterrupted appearance for installation of optical accessories



### Modario® fixed cover, plastic

for mounting to Modario® trunking rail | plastic\* cover

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	5x SE	1495	4039806557735	5TR30200Q
White aluminum	5x SE	1495	4039806558015	5TR36200Q

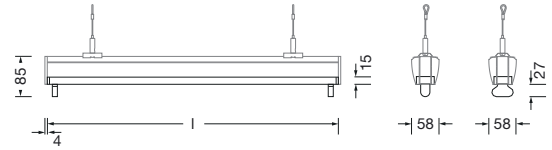
— system size: 1 system unit (1x SE) = 299mm

\* can be cut to suit; to cover trunking rail sections without installed insert

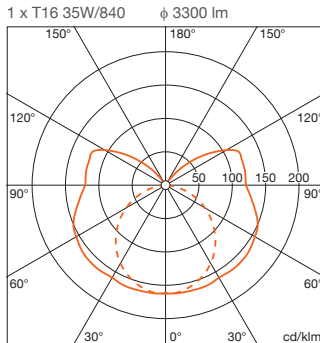




T16  
G5



4039806505118  
5TR30171Q



$\eta_{LB}$  99%  $\phi_d$  74%  $\phi_r$  26%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	8656	4802
L <sub>70</sub>	8255	6455
L <sub>65</sub>	8108	6938

UGR 25.8 21.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.6	2.7	3.1	5.3	7.8	13
30 m <sup>2</sup>	2.1	3.4	4.3	6.7	11	17
40 m <sup>2</sup>	2.7	4.0	5.4	8.1	13	20
50 m <sup>2</sup>	3.2	4.6	6.3	9.3	16	23
75 m <sup>2</sup>	4.3	6.0	8.6	12	22	30
100 m <sup>2</sup>	5.5	7.4	11	15	28	37
500 m <sup>2</sup>	22	26	45	52	112	130

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP20/IP40 | luminaire insert for T16 lamps open distribution**

Luminaire insert for quick mounting to trunking rail; can be positioned in system size 299mm  
 - open distribution, wide range of optical accessories available  
 - with ECG Multiwatt

- sheet steel housing, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (IP40 with protection caps or with HDP® reflector 5TR60 . 5...)
- insulation class: I

• system size: 1 system unit (1x SE): 299mm

**Electrics**

Luminaire insert with ECG for operation on normal power supply; ready for connection with 3-pole connection system (3-pole + 2-pole for control signal); suitable for 5-core or 10-core wired trunking rail or luminaire insert with ECG DALI or ECG (1...10 V) with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired rail  
 • with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



System size







Order no.  
**OSRAM**

Order no.  
**Siteco**

Pure white

Light source	System size	Weight [kg]	Order no. OSRAM	Order no. Siteco
1x T16 28/54W	G5 4x SE	1196 0.8	4039806505101	5TR30171H
1x T16 28/54W	G5 4x SE	1196 0.8	4039806557698	5TR301D1H
1x T16 28/54W	G5 4x SE	1196 0.8	4039806557636	5TR30161H
1x T16 35/49/80W	G5 5x SE	1495 1.0	4039806505118	5TR30171Q
1x T16 35/49/80W	G5 5x SE	1495 1.0	4039806557704	5TR301D1Q
1x T16 35/49/80W	G5 5x SE	1495 1.0	4039806557643	5TR30161Q
2x T16 28/54W	G5 4x SE	1196 0.9	4039806505125	5TR30172H
2x T16 28/54W	G5 4x SE	1196 0.9	4039806557711	5TR301D2H
2x T16 28/54W	G5 4x SE	1196 0.9	4039806557650	5TR30162H
2x T16 35/49/80W	G5 5x SE	1495 1.1	4039806505132	5TR30172Q
2x T16 35/49/80W	G5 5x SE	1495 1.1	4039806557728	5TR301D2Q
2x T16 35/49/80W	G5 5x SE	1495 1.1	4039806557667	5TR30162Q

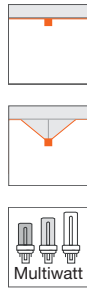
Light source		System size				Order no.	Order no.
						OSRAM	Siteco
White aluminum (RAL 9006)							
1x T16 28/54 W	G5	4x SE	1196	0.9	Multi	4039806557964	5TR36171H
1x T16 28/54 W	G5	4x SE	1196	0.9	Multi DALI	4039806558008	5TR361D1H
1x T16 28/54 W	G5	4x SE	1196	0.9	Multi 1...10V	4039806582836	5TR36161H
1x T16 35/49/80 W	G5	5x SE	1495	1.0	Multi	4039806557971	5TR36171Q
1x T16 35/49/80 W	G5	5x SE	1495	1.0	Multi DALI	4039806583413	5TR361D1Q
1x T16 35/49/80 W	G5	5x SE	1495	1.0	Multi 1...10V	4039806582447	5TR36161Q
2x T16 28/54 W	G5	4x SE	1196	0.9	Multi	4039806557988	5TR36172H
2x T16 28/54 W	G5	4x SE	1196	0.9	Multi DALI	4039806583420	5TR361D2H
2x T16 28/54 W	G5	4x SE	1196	0.9	Multi 1...10V	4039806582850	5TR36162H
2x T16 35/49/80 W	G5	5x SE	1495	1.1	Multi	4039806557995	5TR36172Q
2x T16 35/49/80 W	G5	5x SE	1495	1.1	Multi DALI	4039806583437	5TR361D2Q
2x T16 35/49/80 W	G5	5x SE	1495	1.1	Multi 1...10V	4039806582300	5TR36162Q

- please order Modario® trunking rail separately
- please order additional optical accessories separately

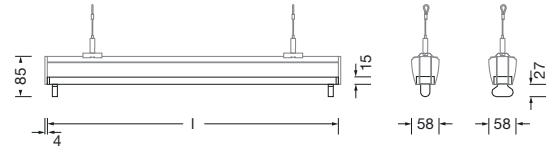
### Accessories (for details see page 8.53)

Designation	PU	Wt. (kg)	Order no.	Order no.
			OSRAM	Siteco
Protection cap, white, IP40, for 1-lamp	1 set = 10 pieces	0.1	4039806844415	5TR90941
Protection cap, white, IP40, for 2-lamp	1 set = 10 pieces	0.1	4039806844439	5TR90942

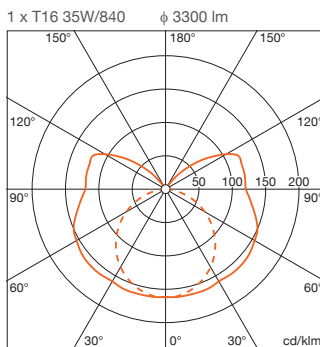




T16  
G5



4039806576057  
5TR30371Q



$\eta_{LB}$  98.7%  $\phi_{\downarrow}$  74%  $\phi_{\uparrow}$  26%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	8630	4787
L <sub>70</sub>	8231	6436
L <sub>65</sub>	8084	6917

UGR 25.7 21.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Modario® IP20/IP40 | luminaire insert for T16 lamps  
open distribution | for operation on auxiliary power supply  
(without changeover relay)**

Luminaire insert for quick mounting to trunking rail; can be positioned in system size 299mm  
 — open distribution, wide range of optical accessories available  
 — with ECG Multiwatt, for continuous operation via auxiliary power supply

- sheet steel housing, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (IP40 with protection caps or with HDP® reflector 5TR60 . 5...)
- insulation class: I

- system size: 1 system unit (1x SE): 299mm

**Electrics**

Luminaire insert for continuous operation directly on external auxiliary power supply  
 • ready for connection with 3-pole connection system (for ECG DALI) and ECG 1...10V with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired trunking rail  
 • in ECG: auxiliary power supply on wires >4< and >5< of trunking rail wiring (without phase selection)  
 • in ECG DALI and ECG 1...10V: brightness control on wires 5< and >7<, auxiliary power supply on wires >4< and >6< (without phase selection)

**Function**

The auxiliary power supply is constantly in operation; when line voltage is disconnected, the luminaire insert remains operational  
 • central brightness control of multiple modules, independent of switched status of individual modules

Detailed information: see data sheet



**No. of luminaires in room**

Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.6	2.7	3.1	5.4	7.9	13
30 m <sup>2</sup>	2.2	3.4	4.3	6.8	11	17
40 m <sup>2</sup>	2.7	4.1	5.4	8.1	13	20
50 m <sup>2</sup>	3.2	4.7	6.4	9.3	16	23
75 m <sup>2</sup>	4.3	6.0	8.6	12	22	30
100 m <sup>2</sup>	5.5	7.4	11	15	28	37
500 m <sup>2</sup>	22	26	45	52	112	130

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Light source**







**System size**



**Order no. OSRAM**

**Order no. Siteco**

Light source	System size	System size [mm]	Light source	ECG LLOG	Order no. OSRAM	Order no. Siteco
Pure white						
1x T16 28/54W	G5 4x SE	1196 0.9	Multi		4039806576033	5TR30371H
1x T16 28/54W	G5 4x SE	1196 0.9	Multi DALI		4039806582799	5TR303D1H
1x T16 28/54W	G5 4x SE	1196 0.9	Multi 1...10V		4039806582652	5TR30361H
1x T16 35/49/80W	G5 5x SE	1495 1.0	Multi		4039806576057	5TR30371Q
1x T16 35/49/80W	G5 5x SE	1495 1.0	Multi DALI		4039806583383	5TR303D1Q
1x T16 35/49/80W	G5 5x SE	1495 1.0	Multi 1...10V		4039806582690	5TR30361Q
2x T16 28/54W	G5 4x SE	1196 1.0	Multi		4039806576071	5TR30372H
2x T16 28/54W	G5 4x SE	1196 1.0	Multi DALI		4039806583390	5TR303D2H
2x T16 28/54W	G5 4x SE	1196 1.0	Multi 1...10V		4039806582720	5TR30362H
2x T16 35/49/80W	G5 5x SE	1495 1.1	Multi		4039806576095	5TR30372Q
2x T16 35/49/80W	G5 5x SE	1495 1.1	Multi DALI		4039806583406	5TR303D2Q
2x T16 35/49/80W	G5 5x SE	1495 1.1	Multi 1...10V		4039806582768	5TR30362Q

Light source		System size				Order no.	Order no.
						OSRAM	Siteco
White aluminum (RAL 9006)							
1x T16 28/54 W	G5	4x SE	1196	0.9	Multi	4039806576125	5TR36371H
1x T16 28/54 W	G5	4x SE	1196	0.9	Multi DALI	4039806583444	5TR363D1H
1x T16 28/54 W	G5	4x SE	1196	0.9	Multi 1...10V	4039806582874	5TR36361H
1x T16 35/49/80 W	G5	5x SE	1495	1.0	Multi	4039806576361	5TR36371Q
1x T16 35/49/80 W	G5	5x SE	1495	1.0	Multi DALI	4039806583482	5TR363D1Q
1x T16 35/49/80 W	G5	5x SE	1495	1.0	Multi 1...10V	4039806582935	5TR36361Q
2x T16 28/54 W	G5	4x SE	1196	0.9	Multi	4039806576408	5TR36372H
2x T16 28/54 W	G5	4x SE	1196	0.9	Multi DALI	4039806583512	5TR363D2H
2x T16 28/54 W	G5	4x SE	1196	0.9	Multi 1...10V	4039806582973	5TR36362H
2x T16 35/49/80 W	G5	5x SE	1495	1.1	Multi	4039806576453	5TR36372Q
2x T16 35/49/80 W	G5	5x SE	1495	1.1	Multi DALI	4039806583550	5TR363D2Q
2x T16 35/49/80 W	G5	5x SE	1495	1.1	Multi 1...10V	4039806583031	5TR36362Q

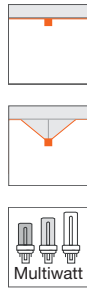
- please order Modario® trunking rail with 10-core wiring separately
- please order additional optical accessories separately

#### Mandatory accessories (for details see page 8.53)

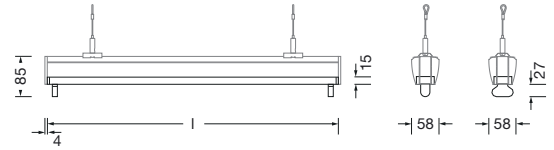
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Protection cap, white, IP40, for 1-lamp	1 set = 10 pieces	0.1	4039806844415	5TR90941
Protection cap, white, IP40, for 2-lamp	1 set = 10 pieces	0.1	4039806844439	5TR90942





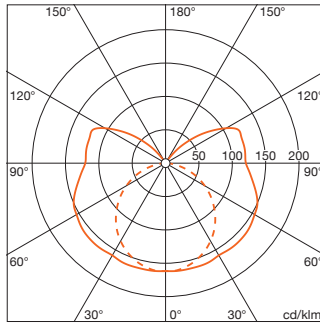


T16  
G5



4039806505187  
5TR30371QR

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  98.7%  $\phi_{\downarrow}$  74%  $\phi_{\uparrow}$  26%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	8630	4787
L <sub>70</sub>	8231	6436
L <sub>65</sub>	8084	6917

UGR 25.7 21.3

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Modario® IP20/IP40 | luminaire insert for T16 lamps  
open distribution | with changeover relay for supplementary supply  
via auxiliary power supply**

Luminaire insert for quick mounting to trunking rail; can be positioned in system size 299mm

- open distribution, wide range of optical accessories available
- with ECG Multiwatt, for operation via normal power supply or auxiliary supply via integrated changeover relay

- sheet steel housing, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (IP40 with protection caps or with HDP® reflector 5TR60 . 5...)
- insulation class: I

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

Luminaire with integrated changeover relay for operation via normal power supply or via a second external power supply (auxiliary supply)

- ready for connection with 5-pole connection system (3-pole for normal power supply + 2-pole for auxiliary power supply) or with 7-pole connection system with ECG DALI (5-pole + 2-pole for control signal); suitable for 10-core wired trunking rail
- with ECG: auxiliary power supply on wires >5< and >7< of trunking rail wiring
- with ECG DALI: brightness control on wires >5< and >7<, auxiliary power supply on wires >4< and >6<
- with 3-phase pre-selection for normal power supply via moving of contact pin prior to installation in trunking rail

**Function**

With disconnection of voltage on normal power supply, the changeover relay switches to the additional contacts for the auxiliary power supply; when this has been activated, the fluorescent lamp resumes operation

- common brightness control of several luminaire inserts, independent of switched status of individual luminaire inserts

Detailed information: see data sheet

**No. of luminaires in room**

Reflection factors 70/50/20

Em(lx)	100		200		500		
	Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.6	2.7	3.1	5.4	7.9	13	
30 m <sup>2</sup>	2.2	3.4	4.3	6.8	11	17	
40 m <sup>2</sup>	2.7	4.1	5.4	8.1	13	20	
50 m <sup>2</sup>	3.2	4.7	6.4	9.3	16	23	
75 m <sup>2</sup>	4.3	6.0	8.6	12	22	30	
100 m <sup>2</sup>	5.5	7.4	11	15	28	37	
500 m <sup>2</sup>	22	26	45	52	112	130	

Maintenance factor 0.8

Rh = Lh + 0.5 m



**Light source**



**System size**







**Order no.  
OSRAM**

**Order no.  
Siteco**

Pure white

Light source	System size	Weight [kg]	ECG LLLCG	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	G5 4x SE	1196 1.1	Multi	4039806505163	5TR30371HR
1x T16 28/54 W	G5 4x SE	1196 1.1	Multi DALI	4039806557865	5TR303D1HR
1x T16 35/49/80 W	G5 5x SE	1495 1.1	Multi	4039806505187	5TR30371QR
1x T16 35/49/80 W	G5 5x SE	1495 1.1	Multi DALI	4039806557889	5TR303D1QR
2x T16 28/54 W	G5 4x SE	1196 1.0	Multi	4039806505217	5TR30372HR
2x T16 28/54 W	G5 4x SE	1196 1.0	Multi DALI	4039806557919	5TR303D2HR
2x T16 35/49/80 W	G5 5x SE	1495 1.2	Multi	4039806505231	5TR30372QR
2x T16 35/49/80 W	G5 5x SE	1495 1.2	Multi DALI	4039806557933	5TR303D2QR

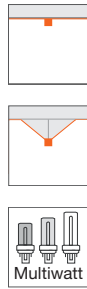
Light source		System size	 L (mm)	 Kg	 ECG LLCG	Order no.	Order no.
						OSRAM	Siteco
White aluminum (RAL 9006)							
1x T16 28/54 W	G5	4x SE	1196	1.1	Multi	4039806558046	5TR36371HR
1x T16 28/54 W	G5	4x SE	1196	1.1	Multi DALI	4039806583475	5TR363D1HR
1x T16 35/49/80 W	G5	5x SE	1495	1.2	Multi	4039806558060	5TR36371QR
1x T16 35/49/80 W	G5	5x SE	1495	1.2	Multi DALI	4039806583505	5TR363D1QR
2x T16 28/54 W	G5	4x SE	1196	1.1	Multi	4039806558091	5TR36372HR
2x T16 28/54 W	G5	4x SE	1196	1.1	Multi DALI	4039806583543	5TR363D2HR
2x T16 35/49/80 W	G5	5x SE	1495	1.2	Multi	4039806558114	5TR36372QR
2x T16 35/49/80 W	G5	5x SE	1495	1.2	Multi DALI	4039806583574	5TR363D2QR

- please order Modario® trunking rail with 10-core wiring separately
- please order additional optical accessories separately

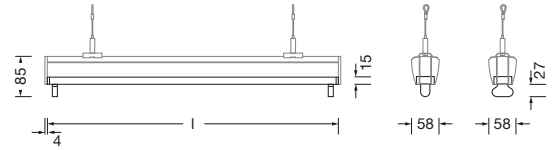
### Accessories (for details see page 8.53)

Designation	PU	Wt. (kg)	Order no.	Order no.
			OSRAM	Siteco
Protection cap, white, IP40, for 1-lamp	1 set = 10 pieces	0.1	4039806844415	5TR90941
Protection cap, white, IP40, for 2-lamp	1 set = 10 pieces	0.1	4039806844439	5TR90942

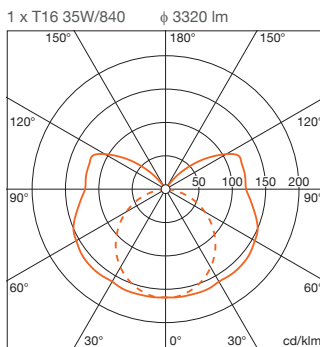




T16  
G5



4050737100982  
5TR30871Q



Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	8706	4830
L <sub>70</sub>	8303	6493
L <sub>65</sub>	8155	6978

UGR 25.8 21.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Modario® IP20/IP40 | luminaire insert for T16 lamps  
open distribution | for operation via a second auxiliary power supply  
(without changeover relay)**

Luminaire insert for quick mounting to trunking rail; can be positioned in system size 299mm  
 - open distribution, wide range of optical accessories available  
 - with ECG Multiwatt, for continuous operation via auxiliary power supply 2

- sheet steel housing, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (IP40 with protection caps or with HDP® reflector 5TR60 . 5...)
- insulation class: I

- system size: 1 system unit (1x SE): 299mm

**Electrics**

- Luminaire insert for continuous operation directly on external auxiliary power supply 2
- ready for connection with 2-pole connection system, suitable for 12-core wired trunking rail
- auxiliary power supply on wires >1< and >3< of trunking rail auxiliary wiring (without phase selection)

**Function**

The auxiliary power supply 2 is constantly in operation; when line voltage is disconnected, the luminaire insert remains operational

Detailed information: see data sheet



No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(lx)	Lh(m)	Em(lx)	Lh(m)	Em(lx)	Lh(m)
20 m <sup>2</sup>	1.6	2.7	3.1	5.3	7.8	13
30 m <sup>2</sup>	2.1	3.3	4.3	6.7	11	17
40 m <sup>2</sup>	2.7	4.0	5.3	8.0	13	20
50 m <sup>2</sup>	3.1	4.6	6.3	9.2	16	23
75 m <sup>2</sup>	4.3	5.9	8.6	12	21	30
100 m <sup>2</sup>	5.5	7.3	11	15	27	37
500 m <sup>2</sup>	22	26	44	52	111	129

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Light source**

		System size				Order no. OSRAM	Order no. Siteco
Pure white							
1x T16 35/49/80W	G5	5x SE	1495	1.0	Multi	4050737100982	5TR30871Q
2x T16 35/49/80W	G5	5x SE	1495	1.0	Multi	4050737101224	5TR30872Q
White aluminum (RAL 9006)							
1x T16 35/49/80W	G5	5x SE	1495	1.0	Multi	4050737101262	5TR36871Q
2x T16 35/49/80W	G5	5x SE	1495	1.0	Multi	4050737101309	5TR36872Q

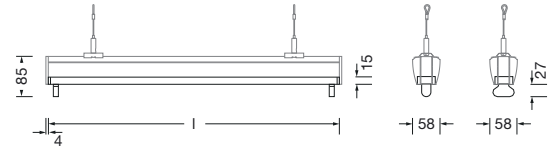
- please order Modario® trunking rail with 10-core wiring separately
- standard trunking rail with 10-core wiring; please order 2-core auxiliary wiring for trunking rail separately and install on site
- please order supplementary optics separately if required

**Accessories (for details see page 8.53)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Through-wiring set, 2x 2.5mm <sup>2</sup> , 5x SE	1 set	0.1	4050737099958	5TR90121Q1
Through-wiring set, 2x 2.5mm <sup>2</sup> , 10x SE	1 set	0.2	4050737099972	5TR90121Q2
Through-wiring set, 2x 2.5mm <sup>2</sup> , 15x SE	1 set	0.3	4050737099996	5TR90121Q3
Protection cap, white, IP40, for 1-lamp	1 set = 10 pieces	0.1	4039806844415	5TR90941
Protection cap, white, IP40, for 2-lamp	1 set = 10 pieces	0.1	4039806844439	5TR90942

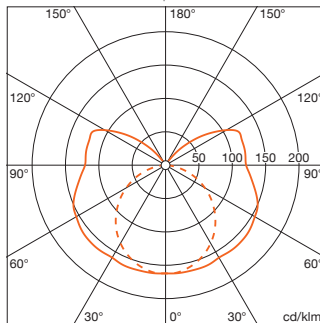


T16  
G5



4050737101200  
5TR30871QR

1 x T16 35W/840  $\phi$  3320 lm



$\eta_{LB}$  99%  $\phi_d$  74%  $\phi_r$  26%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	8706	4830
L <sub>70</sub>	8303	6493
L <sub>65</sub>	8155	6978

UGR 25.8 21.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(lx)		Em(lx)		Em(lx)	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.6	2.7	3.1	5.3	7.8	13
30 m <sup>2</sup>	2.1	3.3	4.3	6.7	11	17
40 m <sup>2</sup>	2.7	4.0	5.3	8.0	13	20
50 m <sup>2</sup>	3.1	4.6	6.3	9.2	16	23
75 m <sup>2</sup>	4.3	5.9	8.6	12	21	30
100 m <sup>2</sup>	5.5	7.3	11	15	27	37
500 m <sup>2</sup>	22	26	44	52	111	129

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP20/IP40 | luminaire insert for T16 lamps  
open distribution | with changeover relay for supplementary supply  
via second auxiliary power supply**

Luminaire insert for quick mounting to trunking rail; can be positioned in system size 299mm  
 — open distribution, wide range of optical accessories available  
 — with ECG Multiwatt, for operation via normal power supply or second auxiliary supply via integrated changeover relay

- sheet steel housing, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (IP40 with protection caps or with HDP® reflector 5TR60 . 5...)
- insulation class: I

- system size: 1 system unit (1x SE): 299mm

**Electrics**

Luminaire with integrated changeover relay for operation via normal power supply or via an additional second external power supply (auxiliary supply 2)

- ready for connection with 5-pole connection system (3-pole for normal power supply + 2-pole for auxiliary supply 2) or with 7-pole connection system with ECG DALI (5-pole + 2-pole for control signal); suitable for 12-core wired trunking rail
- auxiliary supply 2 on wires >1< and >3< of the trunking rail additional wiring
- without phase pre-selection

**Function**

With disconnection of voltage on normal power supply, the changeover relay switches to the additional contacts for the auxiliary power supply; when this has been activated, the fluorescent lamp resumes operation

- common brightness control of several luminaire inserts, independent of switched status of individual luminaire inserts

Detailed information: see data sheet



**Light source**

Pure white

	Light source	System size	l [mm]	Kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
1x T16 35/49/80W	G5	5x SE	1495	1.0	Multi	4050737101200	5TR30871QR
2x T16 35/49/80W	G5	5x SE	1495	1.0	Multi	4050737101248	5TR30872QR

White aluminum (RAL 9006)

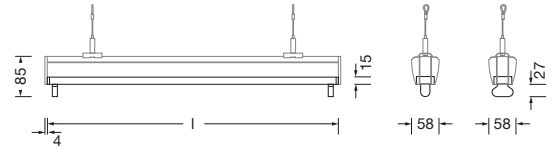
1x T16 35/49/80W	G5	5x SE	1495	1.0	Multi	4050737101286	5TR36871QR
2x T16 35/49/80W	G5	5x SE	1495	1.0	Multi	4050737101323	5TR36872QR

- please order Modario® trunking rail with 10-core wiring separately
- standard trunking rail with 10-core wiring; please order 2-core auxiliary wiring for trunking rail separately and install on site
- please order supplementary optics separately if required

**For accessories see left page**

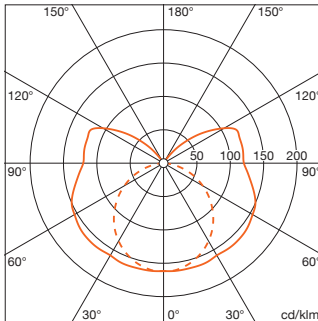


T16  
G5



4039806505170  
5TR30371Q1H

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  98.7%  $\phi_{\downarrow}$  74%  $\phi_{\uparrow}$  26%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	8630	4787
L <sub>70</sub>	8231	6436
L <sub>65</sub>	8084	6917

UGR 25.7 21.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Modario® IP20/IP40 | luminaire insert for T16 lamps  
open distribution | with single battery**

Luminaire insert (single battery) for quick mounting to trunking rail; can be positioned in system size 299mm  
 — open distribution, wide range of optical accessories available  
 — with ECG Multiwatt, additionally with single battery

- sheet steel housing, white aluminum (RAL 9006) or pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP20 (IP40 with protection caps or with HDP® reflector 5TR60 . 5...)
- insulation class: I

- system size: 1 system unit (1x SE): 299mm

**Electrics**

Luminaire insert for operation via normal power supply or via the integrated single battery supply

- luminaire wired ready for connection, with 4-pole or 6-pole connection (3-pole for normal power supply with switched phase + 1-pole for additional unswitched phase, with ECG DALI and ECG 1...10V; 4-pole and 2-pole for control signal)
- switched phase and unswitched phase must have same phase angle
- single battery for 1h operating duration with reduced luminous flux
- with optical self-test functioning control of battery (LED for display of operational state)





Detailed information: see data sheet



No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.6	2.7	3.1	5.4	7.9	13
30 m <sup>2</sup>	2.2	3.4	4.3	6.8	11	17
40 m <sup>2</sup>	2.7	4.1	5.4	8.1	13	20
50 m <sup>2</sup>	3.2	4.7	6.4	9.3	16	23
75 m <sup>2</sup>	4.3	6.0	8.6	12	22	30
100 m <sup>2</sup>	5.5	7.4	11	15	28	37
500 m <sup>2</sup>	22	26	45	52	112	130

Maintenance factor 0.8 Rh = Lh + 0.5 m

Light source	System size	L [mm]	ECG	LLCG	Order no. OSRAM	Order no. Siteco
Pure white, with single battery, rated operating duration 1h						
1x T16 28/54 W	G5	4x SE	1196	1.4	Multi	4039806505149 5TR30371H1H
1x T16 28/54W	G5	4x SE	1196	1.4	Multi DALI	4039806557841 5TR303D1H1H
1x T16 28/54 W	G5	4x SE	1196	1.4	Multi 1...10V	4039806557742 5TR30361H1H
1x T16 35/49/80W	G5	5x SE	1495	1.6	Multi	4039806505170 5TR30371Q1H
1x T16 35/49/80W	G5	5x SE	1495	1.6	Multi DALI	4039806557872 5TR303D1Q1H
1x T16 35/49/80W	G5	5x SE	1495	1.6	Multi 1...10V	4039806557773 5TR30361Q1H
2x T16 35/49/80W	G5	5x SE	1495	1.7	Multi	4039806505224 5TR30372Q1H
2x T16 35/49/80W	G5	5x SE	1495	1.7	Multi DALI	4039806557926 5TR303D2Q1H
2x T16 35/49/80W	G5	5x SE	1495	1.7	Multi 1...10V	4039806557827 5TR30362Q1H

Light source		System size	 (mm)	 Kg		Order no. OSRAM	Order no. Siteco
White aluminum (RAL 9006), with single battery, rated operating duration 1h							
1x T16 28/54 W	G5	4x SE	1196	1.4	Multi	4039806558022	5TR36371H1H
1x T16 28/54W	G5	4x SE	1196	1.4	Multi DALI	4039806583451	5TR363D1H1H
1x T16 28/54 W	G5	4x SE	1196	1.4	Multi 1...10V	4039806582898	5TR36361H1H
1x T16 35/49/80W	G5	5x SE	1495	1.6	Multi	4039806558053	5TR36371Q1H
1x T16 35/49/80W	G5	5x SE	1495	1.6	Multi DALI	4039806583499	5TR363D1Q1H
1x T16 35/49/80W	G5	5x SE	1495	1.6	Multi 1...10V	4039806582959	5TR36361Q1H
2x T16 35/49/80W	G5	5x SE	1495	1.7	Multi	4039806558107	5TR36372Q1H
2x T16 35/49/80W	G5	5x SE	1495	1.7	Multi DALI	4039806583567	5TR363D2Q1H
2x T16 35/49/80W	G5	5x SE	1495	1.7	Multi 1...10V	4039806583055	5TR36362Q1H

- please order Modario® trunking rail separately
- please order additional optical accessories separately

### Mandatory accessories (for details see page 8.53)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Protection cap, white, IP40, for 1-lamp	1 set = 10 pieces	0.1	4039806844415	5TR90941
Protection cap, white, IP40, for 2-lamp	1 set = 10 pieces	0.1	4039806844439	5TR90942



**Modario® IP20/IP40 – housing accessories for luminaire insert**



**Protection cap IP40 for luminaire insert**

made of plastic, white | for attachment to lamp

Designation	PU	Order no. OSRAM	Order no. Siteco
1-lamp	1 set = 10 pieces	4039806844415	5TR90941
2-lamp	1 set = 10 pieces	4039806844439	5TR90942

— 2 pieces required per luminaire insert



**Modario® IP20/IP40 – electrical accessories for trunking rail**

**Additional wiring for auxiliary supply 2**

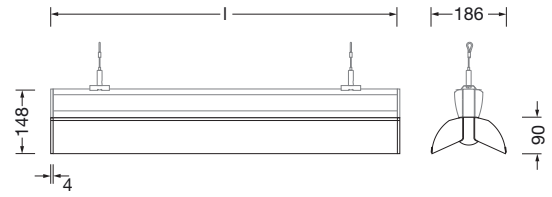
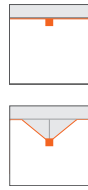
Through-wiring for expansion of standard wiring in the Modario® trunking rail | wiring 2x 2.5mm<sup>2</sup> with connection terminal and connection for luminaire insert at distance of 1495mm | wiring set completely pre-installed to be clicked into the rail; incl. cable retainer for attachment of wiring in the rail



Designation	System size	l (mm)	Order no. OSRAM	Order no. Siteco
1-length	5x SE	1495	4050737099958	5TR90121Q1
2-length	10x SE	2990	4050737099972	5TR90121Q2
3-length	15x SE	4485	4050737099996	5TR90121Q3

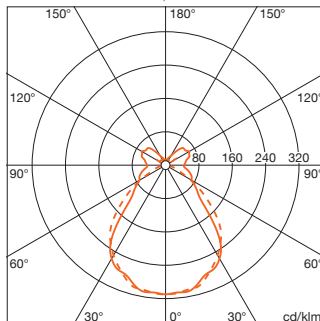
— system size: 1 system unit (1x SE) = 299mm





4039806505118 + 4050737037684  
5TR30171Q + 5TR61150Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  89.3%  $\phi_{\downarrow}$  77%  $\phi_{\uparrow}$  23%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1002	620
L <sub>70</sub>	1023	869
L <sub>65</sub>	1014	1022

UGR 15.6 13.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	3.0	5.0	3.0	5.0
Em(lx)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.3	2.1	2.5	4.2	6.3	11
30 m <sup>2</sup>	1.9	2.8	3.7	5.5	9.3	14
40 m <sup>2</sup>	2.3	3.3	4.7	6.6	12	17
50 m <sup>2</sup>	2.8	3.8	5.6	7.7	14	19
75 m <sup>2</sup>	4.0	5.2	8.0	10	20	26
100 m <sup>2</sup>	5.1	6.5	10	13	26	32
500 m <sup>2</sup>	22	25	45	50	112	125

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP20/IP40 | HDP® reflector**  
**direct/indirect wide distribution | UGR < 19**

HDP® reflector for quick mounting on luminaire insert

- glare reduction via HDP® technology (UGR < 19), direct/indirect wide distribution (77:23)
- reflector and bottom cover of PMMA, transparent

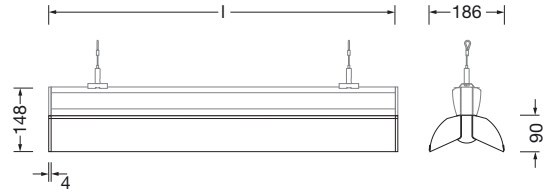
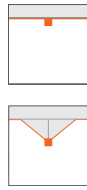
- attachment to twist-lock catch of luminaire insert
- protection rating: IP40 (for combination “luminaire insert IP20” with “HDP® reflector – UGR 19”)

Light source	Light source 2	System size			Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	2x T16 28W	4x SE	1193	2.4	4050737037660	5TR61150H
1x T16 35/49/80 W	2x T16 35/49W	5x SE	1493	2.5	4050737037684	5TR61150Q

— please order end caps and reflectors separately

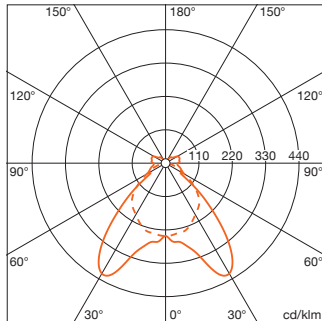
**Mandatory accessories (for details see page 8.56)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546944	5TR9066
Reflector connector, stainless steel, for HDP reflector	1 set = 2 pieces	0.1	4039806558220	5TR9067
Connector, transparent, for prismatic cover		0.1	4039806558237	5TR90675



4039806505118 + 4050737037646  
5TR30171Q + 5TR61120Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  102.1%  $\phi_{\downarrow}$  86%  $\phi_{\uparrow}$  14%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	816	808
L <sub>70</sub>	846	1157
L <sub>65</sub>	865	1326

UGR 15.6 17.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.0	2.1	2.1	4.2	5.2	10
30 m <sup>2</sup>	1.7	2.5	3.3	5.0	8.4	13
40 m <sup>2</sup>	2.0	3.0	4.1	6.0	10	15
50 m <sup>2</sup>	2.4	3.5	4.8	6.9	12	17
75 m <sup>2</sup>	3.5	4.5	7.1	9.0	18	23
100 m <sup>2</sup>	4.4	5.6	8.7	11	22	28
500 m <sup>2</sup>	19	21	38	43	95	107

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP20/IP40 | HDP® reflector**  
**direct/indirect wide distribution**

- HDP® reflector for quick mounting on luminaire insert
- direct/indirect wide distribution (86:14)
- reflector of PMMA, transparent

— attachment to twist-lock catch of luminaire insert

Light source	Light source 2	System size	$\frac{l}{mm}$		Order no. OSRAM	Order no. Siteco
1x T16 28/54 W	2x T16 28W	4x SE	1193	1.8	4050737037622	5TR61120H
1x T16 35/49/80 W	2x T16 35/49W	5x SE	1493	2.4	4050737037646	5TR61120Q

— please order end caps and reflectors separately

**Mandatory accessories (for details see page 8.56)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546944	5TR9066
Reflector connector, stainless steel, for HDP reflector	1 set = 2 pieces	0.1	4039806558220	5TR9067

## Modario® IP20/IP40 – optical accessories



### End cap for HDP® reflector

made of plastic, transparent | installation via clipping

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	4039806546944	5TR9066

- 2 pieces required per luminaire insert
- for reflector 5TR61...



### Connector for HDP® reflector – UGR 19 | for bottom prismatic cover

plastic, transparent | installation via snapping onto bottom prismatic cover

Designation	Order no. OSRAM	Order no. Siteco
Connector for prismatic cover	4039806558237	5TR90675

- for HDP® reflector 5TR6115...
- 1 piece required per reflector joint



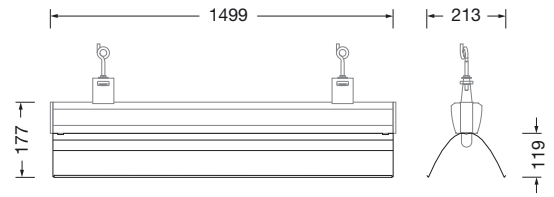
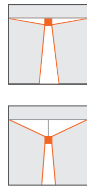
### Connector for HDP® reflector

spring steel (V2A), glossy | installation by snapping onto LED reflector

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	1 set = 2 pieces	4039806558220	5TR9067

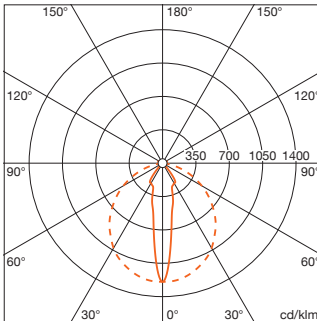
- for reflector 5TR61...
- 2 pieces required per reflector joint





4039806505118 + 4050737015972  
5TR30171Q + 5TR58330Q

1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  106.5%  $\phi_{\downarrow}$  93%  $\phi_{\uparrow}$  7%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	26	9085
L <sub>70</sub>	71	15796
L <sub>65</sub>	3	17705

UGR 9.8 25.4  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.4	0.6	0.7	1.3	1.8	3.2
30 m <sup>2</sup>	0.8	1.0	1.6	2.0	3.9	5.1
40 m <sup>2</sup>	0.9	1.1	1.8	2.3	4.6	5.7
50 m <sup>2</sup>	1.1	1.3	2.2	2.7	5.5	6.7
75 m <sup>2</sup>	1.8	2.0	3.5	4.0	8.8	10
100 m <sup>2</sup>	2.0	2.4	4.0	4.7	10.0	12
500 m <sup>2</sup>	9.0	9.8	18	20	45	49

Maintenance factor 0.8 Rh = Lh + 0.5 m

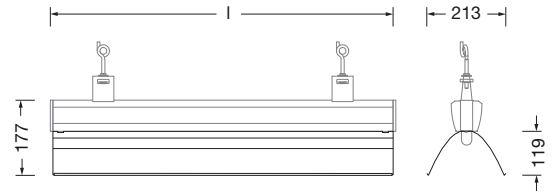
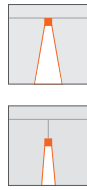
**Modario® IP20/IP40 | highly reflective reflector (MIRO®)**  
**direct extremely wide distribution with self-cleaning effect**

Reflector for quick mounting to luminaire insert  
 — highly reflective reflector (MIRO®), high-gloss, direct extremely narrow distribution; with self-cleaning effect; optimized for highbay racking

- aluminum reflector, satin matt outside, high-gloss inside
- attachment to twist-lock catch of luminaire insert

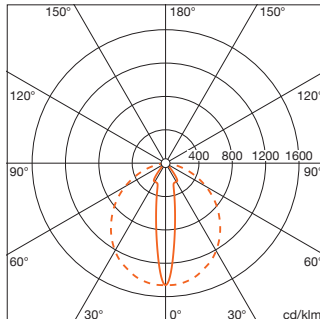
with trunking arrangements, overlapping occurs at joints

Light source	System size	$\frac{l}{h}$ [mm]	$\frac{W}{H}$ [kg]	Order no. OSRAM	Order no. Siteco
1/2x T16 35/49/80 W	5x SE	1499	0.7	4050737015972	5TR58330Q



4039806505118 + 4050737015934  
5TR30171Q + 5TR58130Q

1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  110.5%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	0	11083
L <sub>70</sub>	0	18650
L <sub>65</sub>	0	20923

UGR 10 26.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.3	0.6	0.6	1.2	1.6	2.9
30 m <sup>2</sup>	0.8	0.9	1.5	1.8	3.8	4.4
40 m <sup>2</sup>	0.8	1.0	1.6	2.1	4.1	5.2
50 m <sup>2</sup>	1.0	1.2	2.0	2.5	5.0	6.1
75 m <sup>2</sup>	1.7	1.8	3.5	3.6	8.7	8.9
100 m <sup>2</sup>	1.8	2.2	3.7	4.3	9.1	11
500 m <sup>2</sup>	8.4	9.1	17	18	42	45

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

**Modario® IP20/IP40 | highly reflective reflector (MIRO®)**  
**direct extremely narrow distribution**

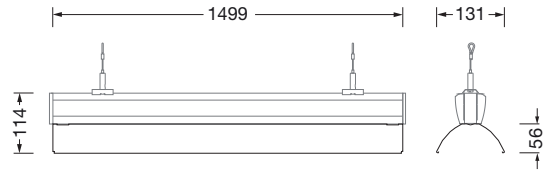
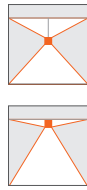
Reflector for quick mounting to luminaire insert  
— highly reflective reflector (MIRO®), high-gloss, direct extremely narrow distribution; optimized for highbay racking

- aluminum reflector, satin matt outside, high-gloss inside
- attachment to twist-lock catch of luminaire insert

with trunking arrangements, overlapping occurs at joints

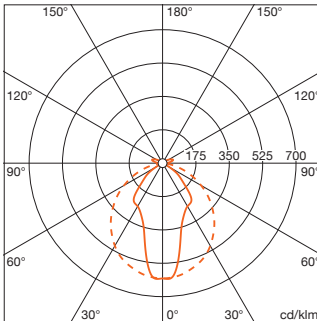
Light source	System size	$l$ [mm]		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
1/2x T16 28/54 W	4x SE	1200	0.6	4050737015927	5TR58130H
1/2x T16 35/49/80 W	5x SE	1499	0.7	4050737015934	5TR58130Q





4039806505118 + 4050737015958  
5TR30171Q + 5TR58310Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  100.7%  $\phi_{\downarrow}$  91%  $\phi_{\uparrow}$  9%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	636	4661
L <sub>70</sub>	404	7058
L <sub>65</sub>	72	7810

UGR 15.2 22.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.9	1.6	1.9	3.2	4.7	8.0
30 m <sup>2</sup>	1.5	2.1	3.0	4.1	7.6	10
40 m <sup>2</sup>	1.8	2.5	3.7	5.1	9.2	13
50 m <sup>2</sup>	2.2	3.0	4.4	5.9	11	15
75 m <sup>2</sup>	3.3	4.0	6.6	8.0	17	20
100 m <sup>2</sup>	4.1	5.0	8.2	10	21	25
500 m <sup>2</sup>	18	20	37	40	92	101

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP20/IP40 | highly reflective reflector (MIRO®)  
direct narrow distribution, with self-cleaning effect**

Reflector for quick mounting to luminaire insert

— highly reflective reflector (MIRO®), high-gloss, direct narrow distribution; with self-cleaning effect

- aluminum reflector, satin matt outside, high-gloss inside
- attachment to twist-lock catch of luminaire insert

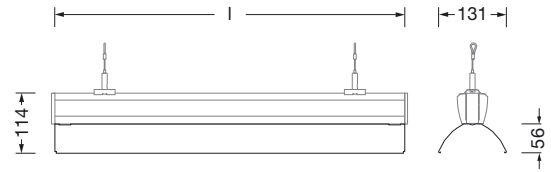
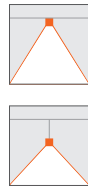
with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	$\frac{l}{[mm]}$	$\frac{kg}{[mm]}$	Order no. OSRAM	Order no. Siteco
1/2x T16 35/49/80 W	5x SE	1499	0.3	4050737015958	5TR58310Q

— please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

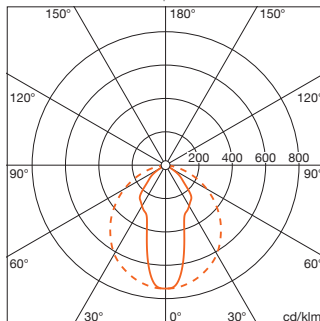
**Mandatory accessories (for details see page 8.61)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546715	5TR90561
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907028	5TR90570



4039806505118 + 4050737015897  
5TR30171Q + 5TR58110Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  102.5%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	415	5517
L <sub>70</sub>	50	8482
L <sub>65</sub>	23	9469

UGR 14.8 22.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.8	1.4	1.7	2.8	4.2	7.1
30 m <sup>2</sup>	1.4	1.8	2.8	3.7	6.9	9.2
40 m <sup>2</sup>	1.7	2.3	3.3	4.6	8.3	11
50 m <sup>2</sup>	2.0	2.7	4.0	5.4	10.0	13
75 m <sup>2</sup>	3.1	3.6	6.2	7.2	15	18
100 m <sup>2</sup>	3.8	4.6	7.6	9.2	19	23
500 m <sup>2</sup>	17	19	34	38	86	94

Maintenance factor 0.8 Rh = Lh

**Modario® IP20/IP40 | highly reflective reflector (MIRO®) direct narrow distribution**

Reflector for quick mounting to luminaire insert  
 — highly reflective reflector (MIRO®), high-gloss, direct narrow distribution

— aluminum reflector, satin matt outside, high-gloss inside  
 — attachment to twist-lock catch of luminaire insert

with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	Kg	System size	L [mm]	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54 W	0.3	4x SE	1200	4050737015873	5TR58110H
1/2x T16 35/49/80 W	0.4	5x SE	1499	4050737015897	5TR58110Q

— please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

**Mandatory accessories (for details see page 8.61)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546715	5TR90561
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907028	5TR90570



**Modario® IP20/IP40 – optical accessories**



**End cap for reflector narrow distribution**

made of plastic, transparent | installation via clipping

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	4039806546715	5TR90561

— for reflector 5TR5811... | 5TR5831...

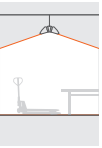


**Connector for reflector narrow distribution | extremely wide distribution | asymmetric distribution**

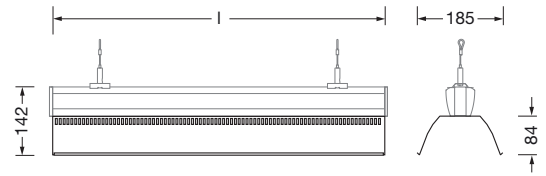
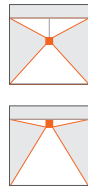
made of plastic, transparent

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	1 set = 10 pieces	4039806907028	5TR90570

— for reflector 5TR5 . . 1... | 5TR5 . . 2...  
 — 2 pieces required per reflector joint

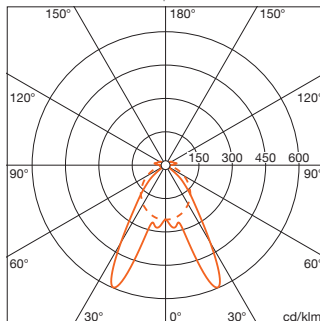


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4039806505118 + 4039806019011  
5TR30171Q + 5TR56490Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  88.7%  
 $I_{max}$  588 cd/klm at  $\gamma$  25°

### Modario® IP20/IP40 | shop reflector direct/indirect distribution

Shop reflector for quick mounting to luminaire insert

— satin matt reflector, direct distribution; lamp shield for double vertical or single vertical beam distribution with reduced luminance below the luminaire

— reflector and lamp shield of aluminum, satin matt  
— attachment of reflector to twist-lock catch of luminaire insert; lamp shield incl. metal springs for snap-fitting to reflector without tools

with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	$\frac{l}{[mm]}$	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54 W	4x SE	1196	0.4	4039806018991	5TR56490H
1/2x T16 35/49/80 W	5x SE	1495	0.6	4039806019011	5TR56490Q

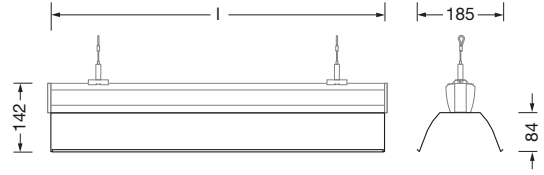
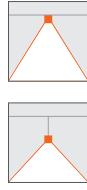
— please order lamp shield for double or single vertical light distribution separately if required (1 piece required for each reflector)  
— please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

### Mandatory accessories (for details see page 8.64)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806019042	5TR905642
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806851420	5TR90579

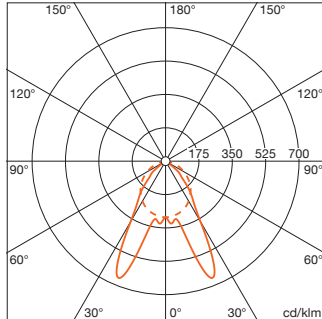
### Accessories (for details see page 8.64)

Designation	System size	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Lamp shield, double vertical light distribution, for 1/2x T16 28/54W	4x SE	0.2	4039806019073	5TR90580H
Lamp shield, double vertical light distribution, for 1/2x T16 35/49/80W	5x SE	0.2	4039806805454	5TR90580Q
Lamp shield, single vertical light distribution, for 1/2x T16 28/54W	4x SE	0.1	4039806857491	5TR90540H
Lamp shield, single vertical light distribution, for 1/2x T16 35/49/80W	5x SE	0.2	4039806857613	5TR90540Q



4039806505118 + 4039806805430  
5TR30171Q + 5TR56290Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  88.2%  
 $I_{max}$  634 cd/klm at  $\gamma$  20°

**Modario® IP20/IP40 | shop reflector direct distribution**

Shop reflector for quick mounting to luminaire insert  
 — satin matt reflector, direct distribution; lamp shield for double vertical or single vertical beam distribution with reduced luminance below the luminaire

- reflector and lamp shield of aluminum, satin matt
- attachment of reflector to twist-lock catch of luminaire insert; lamp shield incl. metal springs for snap-fitting to reflector without tools

with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	$\frac{l}{[mm]}$	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54 W	4x SE	1196	0.5	4039806805416	5TR56290H
1/2x T16 35/49/80 W	5x SE	1495	0.7	4039806805430	5TR56290Q

- please order lamp shield for double or single vertical light distribution separately if required (1 piece required for each reflector)
- please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

**Mandatory accessories (for details see page 8.64)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806019042	5TR905642
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806851420	5TR90579

**Accessories (for details see page 8.64)**

Designation	System size	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Lamp shield, double vertical light distribution, for 1/2x T16 28/54W	4x SE	0.2	4039806019073	5TR90580H
Lamp shield, double vertical light distribution, for 1/2x T16 35/49/80W	5x SE	0.2	4039806805454	5TR90580Q
Lamp shield, single vertical light distribution, for 1/2x T16 28/54W	4x SE	0.1	4039806857491	5TR90540H
Lamp shield, single vertical light distribution, for 1/2x T16 35/49/80W	5x SE	0.2	4039806857613	5TR90540Q

## Modario® IP20/IP40 – optical accessories



### Lamp shield for shop reflector

to reduce luminance below the luminaire, double vertical or single vertical light distribution | aluminum, matt, with perforated structure

Light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
double vertical distribution					
1/2x T16 28/54W	4x SE	1196	0.2	4039806019073	5TR90580H
1/2x T16 35/49/80W	5x SE	1495	0.2	4039806805454	5TR90580Q
single vertical distribution					
1/2x T16 28/54W	4x SE	1196	0.2	4039806857491	5TR90540H
1/2x T16 35/49/80W	5x SE	1495	0.2	4039806857613	5TR90540Q

- system size: 1 system unit (1x SE) = 299mm
- for shop reflector 5TR562... | 5TR564...
- for mounting without tools



### End cap for shop reflector

made of plastic, transparent | installation via clipping

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	4039806019042	5TR905642

- for reflector 5TR562... | 5TR564...



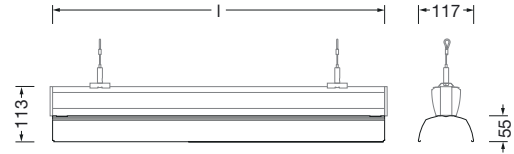
### Connector for shop reflector

made of plastic, transparent

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	1 set = 10 pieces	4039806851420	5TR90579

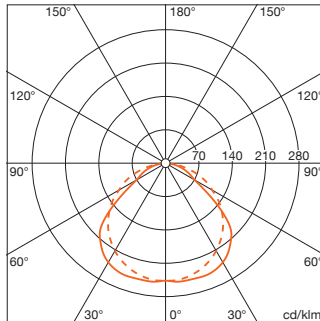
- for reflector 5TR562... | 5TR564...
- 2 pieces required per reflector joint





4039806505118 + 4050737039961  
5TR30171Q + 5TR14512X

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  72.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2751	4394
L <sub>70</sub>	3307	5550
L <sub>65</sub>	3430	5774

UGR 20.5 23.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Modario® IP20/IP40 | reflector white or silver  
direct extremely wide distribution**

Reflector for quick mounting to luminaire insert  
 — direct extremely wide distribution; suitable for configuration with CAT2 louver

- sheet steel reflector, silver (similar to RAL 9006) or pure white (similar to RAL 9010) outside, pure white inside
- attachment to twist-lock catch of luminaire insert

Light source	System size	$\frac{l}{[mm]}$	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
Reflector pure white outside					
1/2x T16 28/54 W	4x SE	1196	1.0	4050737040912	5TR14512U
1/2x T16 35/49/80 W	5x SE	1495	1.2	4050737039961	5TR14512X
Reflector white aluminum (RAL 9006) outside					
1/2x T16 28/54 W	4x SE	1196	1.0	4050737039947	5TR14512US
1/2x T16 35/49/80 W	5x SE	1495	1.3	4050737040936	5TR14512XS

- please order supplementary optics (CAT2 louver) separately if required
- please order end caps or connectors for reflectors separately

**Mandatory accessories (for details see page 8.66)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4050737049557	5TR14510XD
Reflector connector, white	1 set = 2 pieces	0.1	4039806193995	5LJ14511XD
Reflector connector, gray	1 set = 2 pieces	0.1	4039806193919	5LJ14511XDS

**Accessories (for details see page 8.66)**

Designation	System size	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Louver, aluminum, CAT2 ( $L \leq 1000$ cd/m <sup>2</sup> ), for 1x T16 28/54W	4x SE	0.5	4050737039886	5TR14501UR
Louver, aluminum, CAT2 ( $L \leq 1000$ cd/m <sup>2</sup> ), for 1x T16 35/49/80W	5x SE	0.6	4050737039862	5TR14501RR
Louver, aluminum, CAT2 ( $L \leq 1000$ cd/m <sup>2</sup> ), for 2x T16 28/54W	4x SE	0.5	4050737039923	5TR14502UR
Louver, aluminum, CAT2 ( $L \leq 1000$ cd/m <sup>2</sup> ), for 2x T16 35/49/80W	5x SE	0.6	4050737039916	5TR14502RR
Reflector intermediate end cap, white (1 set = 2 pieces)		0.1	4039806194022	5LJ14512XD

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.4	2.5	2.8	5.0	7.1	13
30 m <sup>2</sup>	2.1	3.3	4.2	6.5	10	16
40 m <sup>2</sup>	2.6	3.9	5.2	7.8	13	19
50 m <sup>2</sup>	3.1	4.5	6.2	8.9	16	22
75 m <sup>2</sup>	4.5	6.0	8.9	12	22	30
100 m <sup>2</sup>	5.7	7.4	11	15	28	37
500 m <sup>2</sup>	25	28	50	56	125	140

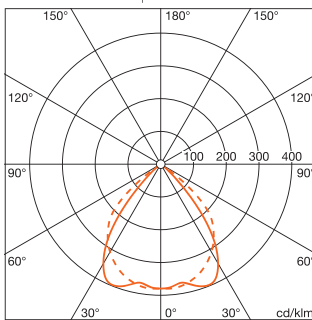
Maintenance factor 0.8 Rh = Lh

**Modario® IP20/IP40 optical accessories****Modario® CAT2 louver for T16**for installation in the reflector | aluminum, high-gloss, CAT2 ( $L \leq 1000 \text{ cd/m}^2$ )

Designation	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
1x T16 28/54W	4x SE	1196	0.5	4050737039886	5TR14501UR
1x T16 35/49/80W	5x SE	1495	0.7	4050737039862	5TR14501RR
2x T16 28/54W	4x SE	1196	0.6	4050737039923	5TR14502UR
2x T16 35/49/80W	5x SE	1495	0.7	4050737039916	5TR14502RR

4039806505118 + 4050737039961  
+ 4050737039862  
5TR30171Q + 5TR14512X +  
5TR14501RR

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  64.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Intermediate end cap for reflector

White	(1 set = 2 pieces)	4039806194022	5LJ14512XD
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- with trunking layout, 2 intermediate end caps are required per reflector joint
- for Modario® reflector 5TR14512...

**End cap for reflector, direct extremely wide distribution**

for mounting onto reflector | plastic, transparent

Color	PU	Order no. OSRAM	Order no. Siteco
Transparent	1 set = 2 pieces	4050737049557	5TR14510XD

- for Modario® reflector 5TR14512...

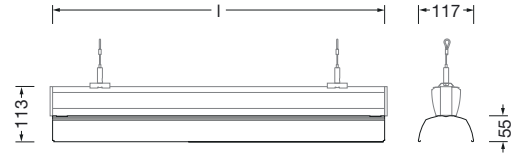
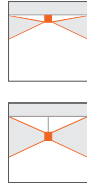
**Connector for reflector, direct extremely wide distribution**

for mounting onto the reflector joint | for disguising and alignment of reflectors in case of continuous-row mounting | plastic

Color	PU	Order no. OSRAM	Order no. Siteco
White	1 set = 2 pieces	4039806193995	5LJ14511XD
Gray	1 set = 2 pieces	4039806193919	5LJ14511XDS

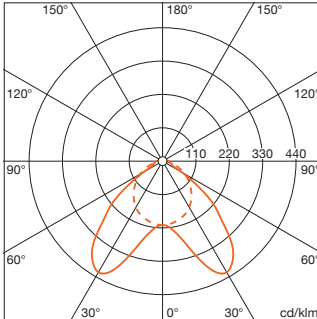
- for Modario® reflector 5TR14512...
- 2 pieces required per joint





4039806505118 + 4039806909183  
5TR30171Q + 5TR56320Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  95.7%  $\phi_{\downarrow}$  97%  $\phi_{\uparrow}$  3%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1008	2305
L <sub>70</sub>	1025	3064
L <sub>65</sub>	1022	3263

UGR 18.5 21.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	1.1	2.2	2.2	4.4	5.4	11
20 m <sup>2</sup>	1.7	2.7	3.4	5.3	8.4	13
40 m <sup>2</sup>	2.1	3.2	4.1	6.3	10	16
50 m <sup>2</sup>	2.4	3.6	4.9	7.2	12	18
75 m <sup>2</sup>	3.6	4.7	7.1	9.5	18	24
100 m <sup>2</sup>	4.4	5.8	8.9	12	22	29
500 m <sup>2</sup>	20	22	39	44	98	110

Maintenance factor 0.8

Rh = Lh

**Modario® IP20/IP40 | highly reflective reflector (MIRO®)  
direct/indirect extremely wide distribution**

Reflector for quick mounting to luminaire insert

— highly reflective reflector (MIRO®), matt, direct/indirect extremely wide distribution

- aluminum reflector, satin matt outside, high-gloss inside
- attachment to twist-lock catch of luminaire insert

with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	l [mm]	kg	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54 W	4x SE	1200	0.3	4039806909169	5TR56320H
1/2x T16 35/49/80 W	5x SE	1499	0.3	4039806909183	5TR56320Q

- please order additional optical accessories separately
- please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

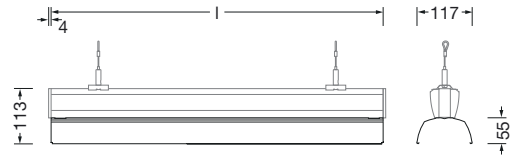
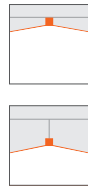
**Mandatory accessories (for details see page 8.70)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546654	5TR90562
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907028	5TR90570

**Accessories (for details see page 8.70)**

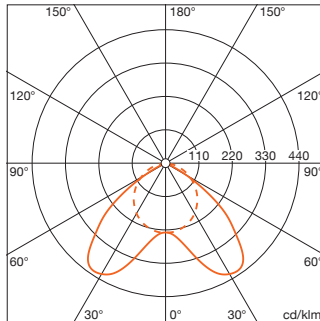
Designation	System size	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver, white, for 1/2x T16 28/54W	4x SE	0.3	4039806582522	5TR50082H
Cross-blade louver, white, for 1/2x T16 35/49/80W	5x SE	0.4	4039806592132	5TR50082Q





4039806505118 + 4039806505316  
5TR30171Q + 5TR56120Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  97.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	449	2570
L <sub>70</sub>	710	3392
L <sub>65</sub>	1135	3634

UGR 19.6 23.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	1.0	2.1	2.1	4.2	5.2	10
30 m <sup>2</sup>	1.6	2.6	3.2	5.1	7.9	13
40 m <sup>2</sup>	2.0	3.0	3.9	6.0	9.8	15
50 m <sup>2</sup>	2.3	3.4	4.6	6.9	12	17
75 m <sup>2</sup>	3.3	4.5	6.7	9.0	17	22
100 m <sup>2</sup>	4.2	5.5	8.5	11	21	28
500 m <sup>2</sup>	19	21	37	42	93	104

Maintenance factor 0.8

Rh = Lh

**Modario® IP20/IP40 | highly reflective reflector (MIRO®)**  
**direct extremely wide distribution**

Reflector for quick mounting to luminaire insert

— highly reflective reflector (MIRO®), matt, direct extremely wide distribution

— aluminum reflector, satin matt outside, matt inside

— attachment to twist-lock catch of luminaire insert

with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	$\frac{l}{d}$ [mm]	$\frac{kg}{m}$	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54 W	4x SE	1200	0.3	4039806505309	5TR56120H
1/2x T16 35/49/80 W	5x SE	1499	0.4	4039806505316	5TR56120Q

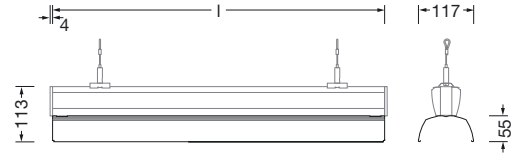
- please order additional optical accessories separately
- please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

**Mandatory accessories (for details see page 8.70)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546654	5TR90562
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907028	5TR90570

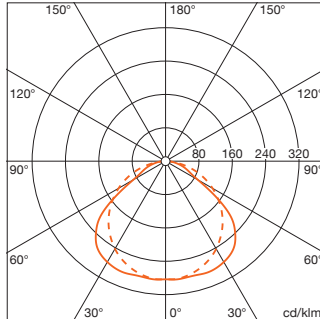
**Accessories (for details see page 8.70)**

Designation	System size	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver, white, for 1/2x T16 28/54W	4x SE	0.3	4039806582522	5TR50082H
Cross-blade louver, white, for 1/2x T16 35/49/80W	5x SE	0.4	4039806592132	5TR50082Q



4039806505118 + 4039806505255  
5TR30171Q + 5TR50120Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  87%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2901	4084
L <sub>70</sub>	3032	5007
L <sub>65</sub>	3113	5183

UGR 20.7 23.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.2	2.2	2.4	4.3	6.1	11
30 m <sup>2</sup>	1.8	2.8	3.5	5.6	8.9	14
40 m <sup>2</sup>	2.2	3.3	4.4	6.7	11	17
50 m <sup>2</sup>	2.6	3.8	5.3	7.6	13	19
75 m <sup>2</sup>	3.8	5.1	7.5	10	19	25
100 m <sup>2</sup>	4.8	6.2	9.6	12	24	31
500 m <sup>2</sup>	21	24	42	47	105	118

Maintenance factor 0.8



Rh = Lh

**Modario® IP20/IP40 | reflector white  
direct extremely wide distribution**

Reflector for quick mounting to luminaire insert  
— direct extremely wide distribution

- aluminum reflector, pure white (similar to RAL 9010)
- attachment to twist-lock catch of luminaire insert

with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	 (mm)	 (kg)	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54 W	4x SE	1200	0.3	4039806505248	5TR50120H
1/2x T16 35/49/80 W	5x SE	1499	0.4	4039806505255	5TR50120Q

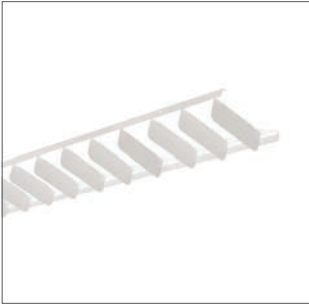
- please order additional optical accessories separately
- please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

**Mandatory accessories (for details see page 8.70)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546654	5TR90562
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907028	5TR90570

**Accessories (for details see page 8.70)**

Designation	System size	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver, white, for 1/2x T16 28/54W	4x SE	0.3	4039806582522	5TR50082H
Cross-blade louver, white, for 1/2x T16 35/49/80W	5x SE	0.4	4039806592132	5TR50082Q

**Modario® IP20/IP40 – optical accessories****Cross-blade louver, white**

for insertion in the reflector | direct extremely wide distribution | sheet steel, pure white

Light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54W	4x SE	1196	0.5	4039806582522	5TR50082H
1/2x T16 35/49/80W	5x SE	1495	0.5	4039806592132	5TR50082Q

- for reflector 5TR5 . . 2...
- system size: 1 system unit (1x SE) = 299mm

**End cap for reflector, extremely wide distribution**

made of plastic, transparent | installation via clipping

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	4039806546654	5TR90562

- for reflector 5TR5 . . 2...

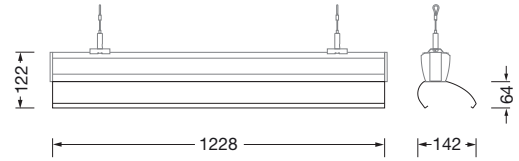
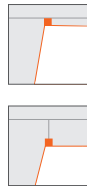
**Connector for reflector narrow distribution | extremely wide distribution | asymmetric distribution**

plastic, transparent

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	1 set = 10 pieces	4039806907028	5TR90570

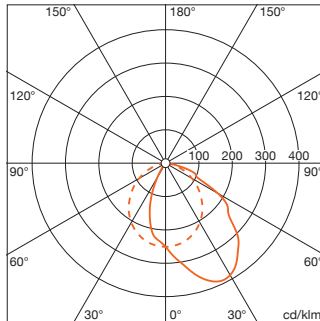
- for reflector 5TR5 . . 1... | 5TR5 . . 2...
- 2 pieces required per reflector joint





4039806505118 + 4050737040059  
5TR30171Q + 5TR14912R  
1 x T16 80W/840  $\phi$  6150 lm

**Modario® IP20/IP40 | wallwasher reflector  
aluminum, matt | direct asymmetric distribution**



Aluminum specular reflector for quick mounting to luminaire insert  
— wallwasher satin matt, asymmetric distribution; suitable for configuration with cross-blade louver

- aluminum reflector, matt outside, satin matt inside; plastic end caps, silver-colored
- attachment to twist-lock catch of luminaire insert
- incl. end caps

$\eta_{LB}$  68.1%  
 $I_{max}$  390 cd/klm at  $\gamma$  25°

Light source	System size	$l$ [mm]	$K_g$	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
1/2x T16 28/54 W	4x SE	1196	0.7	4050737040073	5TR14912U
1/2x T16 35/49/80 W	5x SE	1495	0.9	4050737040059	5TR14912R

— please order additional optical accessories (cross-blade louvers) separately

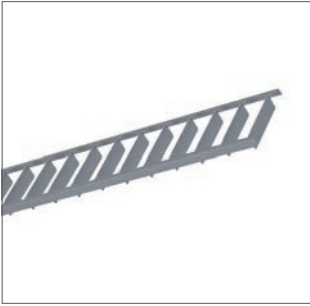
No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.8	1.4	1.6	2.8	4.1	6.9
30 m <sup>2</sup>	1.2	1.8	2.3	3.6	5.9	9.1
40 m <sup>2</sup>	1.5	2.2	3.0	4.4	7.4	11
50 m <sup>2</sup>	1.8	2.5	3.5	5.0	8.9	13
75 m <sup>2</sup>	2.5	3.4	5.0	6.8	13	17
100 m <sup>2</sup>	3.2	4.2	6.5	8.4	16	21
500 m <sup>2</sup>	14	16	29	32	72	80

Maintenance factor 0.8  $R_h = L_h$

**Accessories (for details see page 8.72)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Insert louver, aluminum, silver, for 1/2x T16 28/54W, 4x SE	0.2	4050737040042	5TR14601UR1
Insert louver, aluminum, silver, for 1/2x T16 35/49/80W, 5x SE	0.5	4050737040011	5TR14601RR1



## Modario® IP20/IP40 – optical accessories

### Modario® cross-blade louver

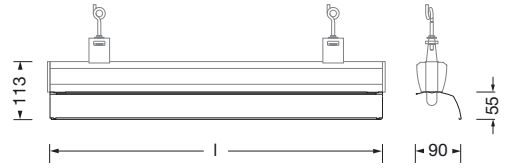
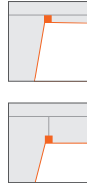
for insertion\* in the Modario® wallwasher reflector | aluminum

Designation	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54W	4x SE	1196	0.6	4050737040042	5TR14601UR1
1/2x T16 35/49/80W	5x SE	1495	0.7	4050737040011	5TR14601RR1

- system size: 1 system unit (1x SE) = 299mm
- for Modario® reflector 5TR149...

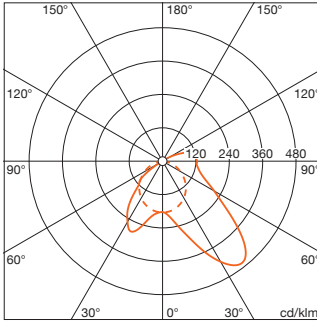
\* insertion mounting, no louver catch required





4039806505118 + 4039806505330  
5TR30171Q + 5TR56140Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  98%  
 $I_{max}$  460 cd/klm at  $\gamma$  40°

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.2	2.4	2.4	4.7	6.1	12
30 m <sup>2</sup>	1.8	2.9	3.6	5.8	9.1	15
40 m <sup>2</sup>	2.2	3.4	4.5	6.8	11	17
50 m <sup>2</sup>	2.6	3.9	5.3	7.8	13	20
75 m <sup>2</sup>	3.7	5.1	7.5	10	19	25
100 m <sup>2</sup>	4.7	6.2	9.4	12	24	31
500 m <sup>2</sup>	20	23	40	45	100	113

Maintenance factor 0.8  $R_h = L_h + 0.5$  m

**Modario® IP20/IP40 | highly reflective reflector (MIRO®)  
direct asymmetric wide distribution**

Reflector for quick mounting to luminaire insert

— highly reflective reflector (MIRO®), matt, direct asymmetric wide distribution

- aluminum reflector, matt
- attachment to twist-lock catch of luminaire insert

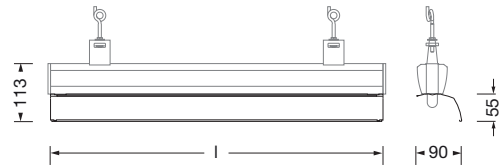
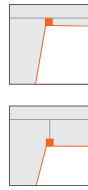
with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	$l$ [mm]	$K_g$	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54 W	4x SE	1200	0.2	4039806505323	5TR56140H
1/2x T16 35/49/80 W	5x SE	1499	0.2	4039806505330	5TR56140Q

- please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

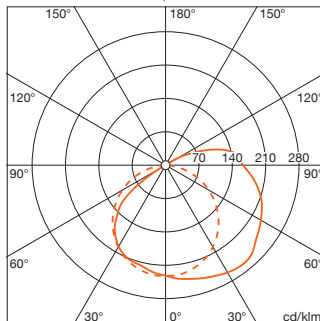
**Mandatory accessories (for details see page 8.75)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546739	5TR90564
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907028	5TR90570



4039806505118 + 4039806505279  
5TR30171Q + 5TR50140Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  93.8%  
 $I_{max}$  264 cd/klm at  $\gamma$  40°

**Modario® IP20/IP40 | reflector white  
direct asymmetric wide distribution**

Reflector for quick mounting to luminaire insert  
— direct asymmetric wide distribution

- aluminum reflector, pure white (similar to RAL 9010)
- attachment to twist-lock catch of luminaire insert

with trunking layout, overlapping occurs at joints, attachment with reflector connector

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.3	2.4	2.7	4.7	6.7	12
30 m <sup>2</sup>	2.0	3.1	3.9	6.1	9.8	15
40 m <sup>2</sup>	2.4	3.6	4.8	7.2	12	18
50 m <sup>2</sup>	2.9	4.2	5.7	8.3	14	21
75 m <sup>2</sup>	4.0	5.5	8.1	11	20	28
100 m <sup>2</sup>	5.1	6.7	10	13	26	34
500 m <sup>2</sup>	21	25	43	49	107	123

Maintenance factor 0.8  $R_h = L_h + 0.5 m$

Light source	System size	$L$ [mm]	$K_g$	Order no. OSRAM	Order no. Siteco
1/2x T16 28/54 W	4x SE	1200	0.5	4039806505262	5TR50140H
1/2x T16 35/49/80 W	5x SE	1499	0.3	4039806505279	5TR50140Q

- please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

**Mandatory accessories (for details see page 8.75)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, transparent	1 set = 2 pieces	0.1	4039806546739	5TR90564
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907028	5TR90570



**Modario® IP20/IP40 – optical accessories**



**End cap for reflector asymmetric distribution**

plastic, transparent | installation via clipping

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	4039806546739	5TR90564

— for reflector 5TR5 . . 4...



**Connector for reflector medium distribution | extremely wide distribution | asymmetric distribution**

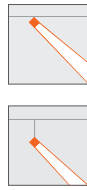
plastic, transparent

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	1 set = 10 pieces	4039806907028	5TR90570

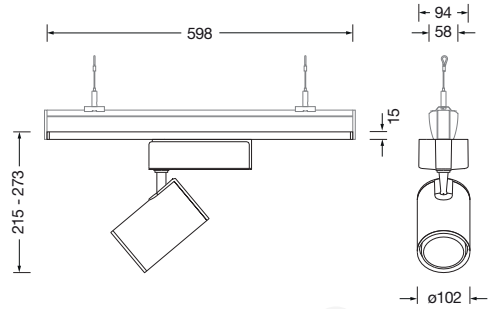
— for reflector 5TR5 . . 4...  
 — 2 pieces required per reflector joint



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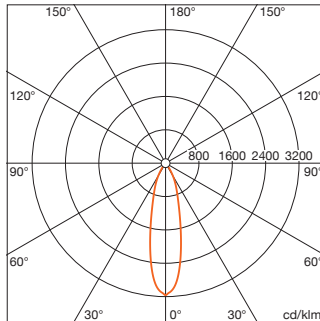


LED



4006584740147  
5TR32A77VL2N8E

1 x LED 4000K / CRI ≥ 80    Φ<sub>N</sub> 2730 lm



I<sub>max</sub> 3165 cd/klm at γ 0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 0
L <sub>70</sub> 0
L <sub>65</sub> 0

α<sub>50%</sub> 2 x 13.2°  
α<sub>10%</sub> 2 x 30.8°

UGR 17.2    17.2  
X 4H    Y 8H    ρ 70/50/20    S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	0.94	2160	1691
3	1.41	960	752
4	1.88	540	423
5	2.35	346	271
6	2.81	240	188

**Modario® IP20 | spotlight module narrow distribution (24°) | LED with 3000lm\***

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric narrow distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum

- (RAL 9006) or traffic white (RAL 9016); end caps and housing baseplate of PA, deep black (RAL 9005)
- protection rating: IP20
- insulation class: I
- temperature range: T<sub>a</sub> = +10°C...+35°C
- spotlight head: horizontally rotatable ≤ 360°; vertically tiltable 30°...90°
- service life: up to 50,000h (L70 | B50)

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**

K	R <sub>a</sub>	lm	W SYSTEM
---	----------------	----	----------

**System size**

I [mm]	KG	ECG LLLCG
--------	----	-----------

**Order no. OSRAM**

**Order no. Siteco**

White aluminum (RAL 9006)

LED	4000	> 80	2730	44	2x SE	598	1.8	ECG	4006584740147	5TR32A77VL2N8E
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White (RAL 9016)

LED	4000	> 80	2730	44	2x SE	598	1.8	ECG	4006584740123	5TR32A77VL3M8E
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- please order Modario® trunking rail separately

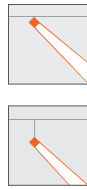
**Accessories (for details see page 8.82)**

No. of luminaires in room					
Reflection factors 70/50/20					
E <sub>m</sub> (lx)	100		200		500
Lh(m)	3.0	5.0	3.0	5.0	3.0
20 m²	0.8	1.0	1.5	2.1	3.9
30 m²	1.5	1.6	3.0	3.2	7.6
40 m²	1.8	2.0	3.7	4.1	9.2
50 m²	2.3	2.5	4.7	4.9	12
75 m²	3.7	3.6	7.3	7.2	18
100 m²	4.5	4.7	9.0	9.3	22
500 m²	22	21	43	43	108

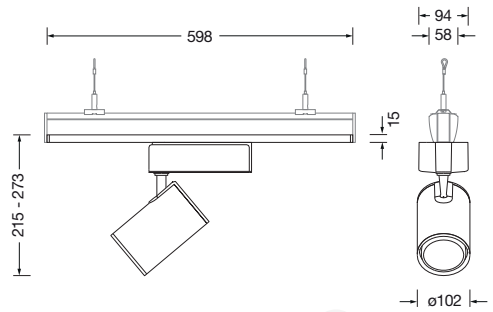
Maintenance factor 0.8    Rh = Lh

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

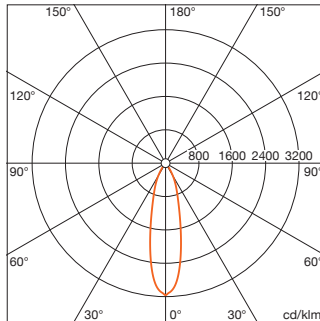


LED



4006584747757  
5TR32A77VL2N9E

1 x LED 4000K / CRI ≥ 80     $\phi_N$  4600 lm



$I_{max}$  3165 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L80 0
L70 0
L65 0

$\alpha$ 50% 2 x 13.2°  
 $\alpha$ 10% 2 x 30.8°

UGR 19 19  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	0.94	3639	2850
3	1.41	1617	1266
4	1.88	910	712
5	2.35	582	456
6	2.81	404	317

**Modario® IP20 | spotlight module narrow distribution (24°) | LED with 5000lm\***

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric narrow distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum

(RAL 9006) or traffic white (RAL 9016); end caps and housing baseplate of PA, deep black (RAL 9005)

- protection rating: IP20
- insulation class: I
- temperature range:  $T_a = +10^\circ\text{C} \dots +30^\circ\text{C}$
- spotlight head: horizontally rotatable  $\leq 360^\circ$ ; vertically tiltable  $30^\circ \dots 90^\circ$
- service life: up to 50,000h (L70 | B50)

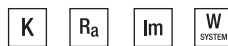
- system size: 1 system unit (1x SE) = 299mm

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no.**

OSRAM

**Order no.**

Siteco

White aluminum (RAL 9006)

LED	4000	> 80	4600	72	2x SE	598	1.8	ECG	4006584747757	5TR32A77VL2N9E
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White (RAL 9016)

LED	4000	> 80	4600	72	2x SE	598	1.8	ECG	4006584747733	5TR32A77VL3M9E
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- please order Modario® trunking rail separately

**Accessories (for details see page 8.82)**

No. of luminaires in room		Reflection factors 70/50/20				
$E_m(lx)$	100	200	500			
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m²	0.5	0.6	0.9	1.2	2.3	3.1
30 m²	0.9	0.9	1.8	1.9	4.5	4.7
40 m²	1.1	1.2	2.2	2.4	5.4	6.0
50 m²	1.4	1.5	2.8	2.9	6.9	7.3
75 m²	2.2	2.1	4.3	4.3	11	11
100 m²	2.7	2.8	5.3	5.5	13	14
500 m²	13	13	26	25	64	64

Maintenance factor 0.8

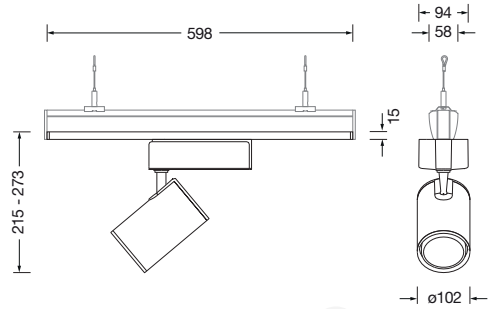
$R_h = L_h$

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

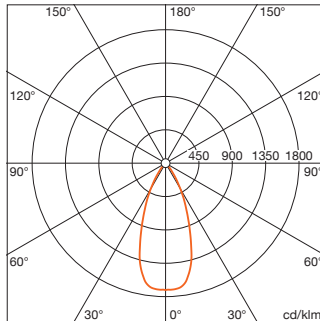


LED



4006584740048  
5TR32B77VL2N8E

1 x LED 4000K / CRI ≥ 80     $\Phi_N$  2740 lm



$I_{max}$  1710 cd/klm at  $\gamma$  0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 7015
L <sub>70</sub> 7123
L <sub>65</sub> 5764

$\alpha$ 50% 2 x 21.5°  
 $\alpha$ 10% 2 x 36.5°

UGR 19.6 19.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	1.58	1172	923
3	2.36	521	410
4	3.15	293	231
5	3.94	187	148
6	4.73	130	103

**Modario® IP20 | spotlight module medium distribution (40°) | LED with 3000lm\***

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric medium distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum

- (RAL 9006) or traffic white (RAL 9016); end caps and housing baseplate of PA, deep black (RAL 9005)
- protection rating: IP20
- insulation class: I
- temperature range:  $T_a = +10^\circ C \dots +35^\circ C$
- spotlight head: horizontally rotatable  $\leq 360^\circ$ ; vertically tiltable  $30^\circ \dots 90^\circ$
- service life: up to 50,000h (L70 | B50)

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**

K	Ra	lm	W SYSTEM
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**System size**

I [mm]	kg	ECG LLC
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**Order no. OSRAM**

**Order no. Siteco**

White aluminum (RAL 9006)

LED	4000	> 80	2740	44	2x SE	598	1.8	ECG	4006584740048	5TR32B77VL2N8E
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White (RAL 9016)

LED	4000	> 80	2740	44	2x SE	598	1.8	ECG	4006584740024	5TR32B77VL3M8E
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- please order Modario® trunking rail separately

**Accessories (for details see page 8.82)**

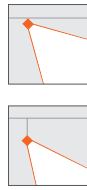
No. of luminaires in room	Reflection factors 70/50/20					
	$E_m(lx)$ 100		$E_m(lx)$ 200		$E_m(lx)$ 500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m²	0.9	1.1	1.7	2.2	4.3	5.6
30 m²	1.4	1.7	2.7	3.4	6.8	8.4
40 m²	1.7	2.1	3.5	4.3	8.7	11
50 m²	2.1	2.6	4.3	5.1	11	13
75 m²	3.3	3.7	6.5	7.4	16	19
100 m²	4.2	4.8	8.4	9.6	21	24
500 m²	20	22	41	43	101	108

Maintenance factor 0.8

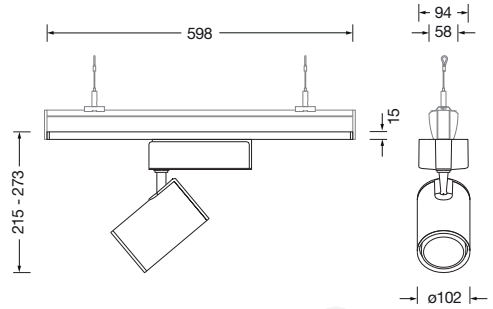
Rh = Lh

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

\* the specified luminous flux value corresponds to the gross luminous flux of the LED

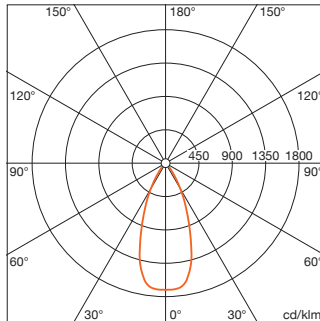


LED



4006584747856  
5TR32B77VL2N9E

1 x LED 4000K / CRI ≥ 80    φ<sub>N</sub> 4610 lm



I<sub>max</sub> 1710 cd/klm at γ 0°

Luminance values (cd/m²)

C 0/180
L <sub>80</sub> 11802
L <sub>70</sub> 11984
L <sub>65</sub> 9699

α<sub>50%</sub> 2 x 21.5°  
α<sub>10%</sub> 2 x 36.5°

UGR 21.5    21.5  
X 4H    Y 8H    ρ 70/50/20    S 0.25H

H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	1.58	1971	1552
3	2.36	876	690
4	3.15	493	388
5	3.94	315	248
6	4.73	219	172

**Modario® IP20 | spotlight module medium distribution (40°) | LED with 5000lm\***

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric medium distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum

(RAL 9006) or traffic white (RAL 9016); end caps and housing baseplate of PA, deep black (RAL 9005)

- protection rating: IP20
- insulation class: I
- temperature range: T<sub>a</sub> = +10°C...+30°C
- spotlight head: horizontally rotatable ≤ 360°; vertically tiltable 30°...90°
- service life: up to 50,000h (L70 | B50)

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no.**

OSRAM

**Order no.**

Siteco

White aluminum (RAL 9006)

LED	4000	> 80	4610	72	2x SE	598	1.8	ECG	4006584747856	5TR32B77VL2N9E
-----	------	------	------	----	-------	-----	-----	-----	---------------	----------------

White (RAL 9016)

LED	4000	> 80	4610	72	2x SE	598	1.8	ECG	4006584747832	5TR32B77VL3M9E
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- please order Modario® trunking rail separately

**Accessories (for details see page 8.82)**

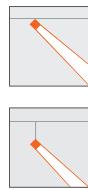
No. of luminaires in room		Reflection factors 70/50/20					
Lh(m)	Em(lx)	100		200		500	
		3.0	5.0	3.0	5.0	3.0	5.0
20 m²	0.5	0.7	1.0	1.3	2.6	3.3	
30 m²	0.8	1.0	1.6	2.0	4.0	5.0	
40 m²	1.0	1.3	2.1	2.6	5.2	6.4	
50 m²	1.3	1.5	2.5	3.1	6.4	7.6	
75 m²	1.9	2.2	3.9	4.4	9.7	11	
100 m²	2.5	2.9	5.0	5.7	12	14	
500 m²	12	13	24	26	60	64	

Maintenance factor 0.8

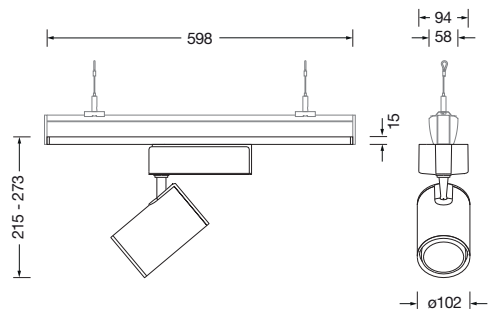
Rh = Lh

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare protection	0.1	4052899902961	5DS90900

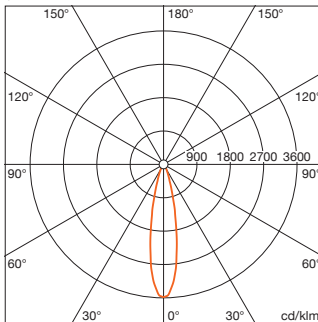
\* the specified luminous flux value corresponds to the gross luminous flux of the LED



HIT-TC-CE  
G8.5



4006584739424  
5TR32A71KD2N  
1 x HIT-TC-CE 35W/942 G8.5  
φ 3400 lm



η<sub>LB</sub> 80%  
I<sub>max</sub> 3579 cd/klm at γ 0°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 0  
L<sub>70</sub> 0  
L<sub>65</sub> 4678

α<sub>50%</sub> 2 x 11.1°  
α<sub>10%</sub> 2 x 22.5°

UGR 18.4 18.4  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	0.78	3042	2416
3	1.18	1352	1074
4	1.57	760	604
5	1.96	487	387
6	2.35	338	268

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100			200			500		
	Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.7	1.0	1.5	2.1	3.7	5.1			
30 m <sup>2</sup>	1.8	1.6	3.7	3.1	9.2	7.8			
40 m <sup>2</sup>	2.0	2.0	3.9	4.0	9.8	10			
50 m <sup>2</sup>	2.6	2.4	5.1	4.9	13	12			
75 m <sup>2</sup>	4.3	3.6	8.6	7.2	21	18			
100 m <sup>2</sup>	4.8	4.6	9.6	9.3	24	23			
500 m <sup>2</sup>	23	21	45	43	113	107			

Maintenance factor 0.8 Rh = Lh

### Modario® IP20 | spotlight module narrow distribution (24°) | HIT-TC-CE

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric narrow distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum (RAL 9006) or traffic white (RAL 9016); end

- caps and housing baseplate of PA, deep black (RAL 9005); cover of borosilicate glass
- protection rating: IP20
- insulation class: I
- temperature range: T<sub>a</sub> = +10°C...+35°C
- spotlight head: horizontally rotatable ≤ 360°; vertically tiltable 30°...90°

- system size: 1 system unit (1x SE) = 299mm
- silver-colored reflector: also suitable for optimal display of meat, cold meat and fish

#### Electrics

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



#### Light source



#### System size



Order no.  
**OSRAM**

Order no.  
**Siteco**

White aluminum (RAL 9006)

Light source	System size	System size [mm]	ECG	Order no. OSRAM	Order no. Siteco
1x HIT-TC-CE 35W	G8.5 2x SE	598	1.2 ECG	4006584739424	5TR32A71KD2N
1x HIT-TC-CE 70W	G8.5 2x SE	598	1.2 ECG	4006584738601	5TR32A71MD2N

White (RAL 9016)

Light source	System size	System size [mm]	ECG	Order no. OSRAM	Order no. Siteco
1x HIT-TC-CE 35W	G8.5 2x SE	598	1.2 ECG	4006584740567	5TR32A71KD3M
1x HIT-TC-CE 70W	G8.5 2x SE	598	1.2 ECG	4006584738588	5TR32A71MD3M

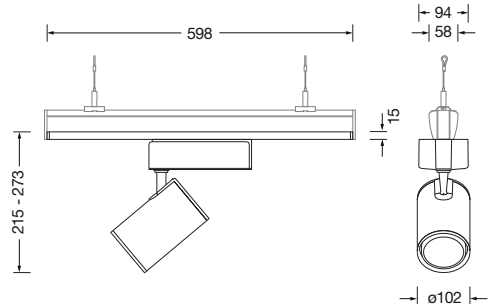
- please order Modario® trunking rail separately
- recommended lamp: OSRAM POWERBALL® HCI-TC

#### Accessories (for details see page 8.82)

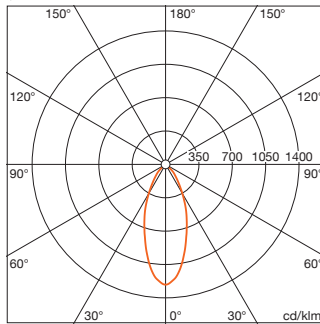
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Filter, dichroic, for baked goods, cheese	0.1	4052899902619	5DS7000B
Filter, dichroic, for meat, cold meat, fish	0.1	4052899902602	5DS7000W
IR filter	0.1	4052899902596	5DS7000I
UV filter	0.1	4052899902589	5DS7000U
Anti-glare protection	0.1	4052899902664	5DS9545BEE
Faceted reflector, champagne-colored, narrow distribution, 24°, for baked goods, cheese	0.3	4052899902626	5DS7102G
Faceted reflector, champagne-colored, medium distribution, 40°, for baked goods, cheese	0.3	4052899902633	5DS7103G
Faceted reflector, silver, medium distribution, 40°, for meat, cold meat, fish	0.3	4052899902657	5DS7103S



HIT-TC-CE  
G8.5



4006584740604  
5TR32B71KD2N  
1 x HIT-TC-CE 35W/942 G8.5  
φ 3400 lm



η<sub>LB</sub> 81%  
I<sub>max</sub> 1261 cd/klm at γ 0°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 1064  
L<sub>70</sub> 3780  
L<sub>65</sub> 5918

α<sub>50%</sub> 2 x 20.7°  
α<sub>10%</sub> 2 x 43.6°

UGR 23 23  
X 4H Y 8H ρ 70/50/20 S 0.25H

H(m)	φ(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	1.51	1072	788
3	2.27	477	350
4	3.02	268	197
5	3.78	172	126
6	4.53	119	88

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100			200			500		
	Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.9	1.2	1.8	2.5	4.4	6.2			
30 m <sup>2</sup>	1.4	1.8	2.8	3.6	7.1	9.1			
40 m <sup>2</sup>	1.8	2.3	3.7	4.6	9.1	11			
50 m <sup>2</sup>	2.2	2.7	4.5	5.4	11	14			
75 m <sup>2</sup>	3.3	3.9	6.7	7.7	17	19			
100 m <sup>2</sup>	4.3	5.0	8.7	9.9	22	25			
500 m <sup>2</sup>	21	22	41	44	104	109			

Maintenance factor 0.8 Rh = Lh

**Modario® IP20 | spotlight module medium distribution (40°) | HIT-TC-CE**

Spotlight module for quick mounting to trunking rail; can be positioned in system size 299mm

- with matt, faceted reflector, rotationally symmetric narrow distribution; spotlight head is rotatable and tiltable
- with ECG
- housing and luminaire head of diecast aluminum, white aluminum (RAL 9006) or traffic white (RAL 9016); end

- caps and housing baseplate of PA, deep black (RAL 9005); cover of borosilicate glass
- protection rating: IP20
- insulation class: I
- temperature range: T<sub>a</sub> = +10°C...+35°C
- spotlight head: horizontally rotatable ≤ 360°; vertically tiltable 30°...90°

- system size: 1 system unit (1x SE) = 299mm
- silver-colored reflector: also suitable for optimal display of meat, cold meat and fish

**Electrics**

- spotlight insert complete with spotlight head for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no. OSRAM**

**Order no. Siteco**

White aluminum (RAL 9006)

Light source	G8.5	2x SE	598	1.2	ECG	Order no. OSRAM	Order no. Siteco
1x HIT-TC-CE 35W	G8.5	2x SE	598	1.2	ECG	4006584740604	5TR32B71KD2N
1x HIT-TC-CE 70W	G8.5	2x SE	598	1.2	ECG	4006584738502	5TR32B71MD2N

White (RAL 9016)

Light source	G8.5	2x SE	598	1.2	ECG	Order no. OSRAM	Order no. Siteco
1x HIT-TC-CE 35W	G8.5	2x SE	598	1.2	ECG	4006584740482	5TR32B71KD3M
1x HIT-TC-CE 70W	G8.5	2x SE	598	1.2	ECG	4006584738526	5TR32B71MD3M

- please order Modario® trunking rail separately
- recommended lamp: OSRAM POWERBALL® HCI-TC

**Accessories (for details see page 8.82)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Filter, dichroic, for baked goods, cheese	0.1	4052899902619	5DS7000B
Filter, dichroic, for meat, cold meat, fish	0.1	4052899902602	5DS7000W
IR filter	0.1	4052899902596	5DS7000I
UV filter	0.1	4052899902589	5DS7000U
Anti-glare protection	0.1	4052899902664	5DS9545BEE
Faceted reflector, champagne-colored, medium distribution, 40°, for baked goods, cheese	0.3	4052899902633	5DS7103G
Faceted reflector, champagne-colored, narrow distribution, 24°, for baked goods, cheese	0.3	4052899902626	5DS7102G
Faceted reflector, silver, narrow distribution, 24°, for meat, cold meat, fish	0.3	4052899902640	5DS7102S



### Modario® LED optical accessories for LED assembly

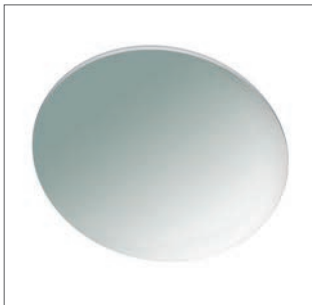


#### Anti-glare protection

for reduced luminance when looking directly at the spotlight | plastic, silver-coated | simple installation through insertion into reflector

Designation	Order no. OSRAM	Order no. Siteco
Anti-glare protection	4052899902961	5DS90900

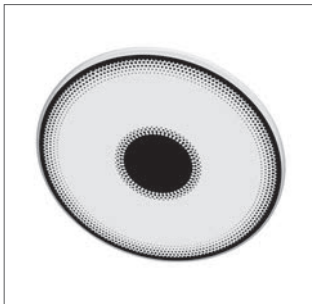
### Modario® LED optical accessories for HIT-TC-CE assembly



#### Dichroic conversion filter

for optimal product presentation, especially of fresh produce, thanks to improved filter characteristics with less heating of glass (compared to conventional filter glass) | filter for various food products as well as other sensitive goods | simple installation through placement in the support ring of the reflector

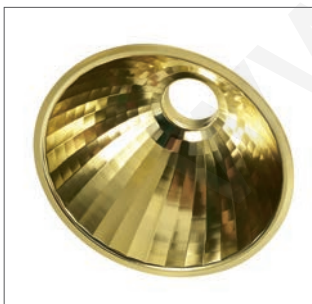
Designation	Order no. OSRAM	Order no. Siteco
for baked goods/cheese	4052899902619	5DS7000B
for meat/cold meat/fish	4052899902602	5DS7000W
IR filter	4052899902596	5DS7000I
UV + IR filter	4052899902589	5DS7000U



#### Anti-glare protection

for reduced luminance when looking directly at the spotlight | cover clear, frosted in central area and on outer edge | simple installation through placement in the support ring of reflector

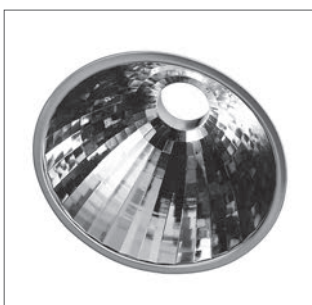
Designation	Order no. OSRAM	Order no. Siteco
Anti-glare protection	4052899902664	5DS9545BEE



#### Reflector, champagne-colored

for optimal product presentation, especially of baked goods and cheese | aluminum reflector, champagne-colored | to replace standard reflector

Designation	Beam angle	Order no. OSRAM	Order no. Siteco
Reflector	24°	4052899902626	5DS7102G
Reflector	40°	4052899902633	5DS7103G



#### Reflector, silver-colored

for optimal product presentation (also especially of meat, cold meat and fish) | for the subsequent change of beam angle | aluminum reflector, silver-colored | to replace standard reflector

Designation	Beam angle	Order no. OSRAM	Order no. Siteco
Reflector	24°	4052899902640	5DS7102S
Reflector	40°	4052899902657	5DS7103S

## Modario® power module



The Modario® power module is a system component of the Modario® trunking system. With its 4-lamp configuration of up to max. 80W and brilliant HDP® luminaire enclosure, it emits balanced, glare-free light. The high vertical luminance of the power module achieves optimal visual comfort and is particularly suitable for industrial workstations with night duty as it has a positive effect on well-being and the ability to concentrate.

### Features

- variable lamp wattages via T16 multiwatt technology
- power module for high illuminance levels with up to 58% indirect light or with direct distribution
- good glare reduction using HDP® technology
- lateral prismatic structure enables use for surface inspection work
- can be used for mounting heights of up to 8 meters
- high level of operational safety with four lamps and two ECG
- can be used for high illuminance levels of 2000 lux and more
- direct distribution or direct/indirect distribution with up to 58% indirect light
- light sail can be retrofitted for poor ceiling reflection factors
- power consumption can be reduced by 50% due to separate switching
- direct and indirect components can be switched and dimmed separately with various light colors
- dimmable version of insert (DALI or 1...10V) available as standard
- circuit partitioning into two independent 3-phase supply networks possible
- phase selection possible as standard
- electrical and mechanical connection of inserts within rails without tools in one step
- easy-to-use twist-lock catches with metal clips for quick mounting

### Lighting technology

Modario® power module with HDP® cover for glare reduction and for very good vertical illuminance levels, depending on version with specular reflector elements for direct or direct/indirect light or open distribution

**Modario® power module direct/indirect distribution** with specular reflector elements for direct and indirect light (44:56)

- **Light sail** as supplementary optics for direct/indirect distribution power module in rooms with high or dark ceilings
- **Modario® power module direct distribution** with specular reflector elements for directional light; with integrated all-round indirect component via lateral prismatic optics
- **Modario® power module open distribution** with 360° all-round light distribution (42:58)

### Electrics

Power module for operation on normal power supply, for 1 or 2 circuits depending on version | version for one circuit with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail; version for two circuits with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail; version with ECG DALI or ECG 1...10V with 5-pole connection system (3-pole + 2-pole for control signal), suitable for 10-core wired trunking rail | 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

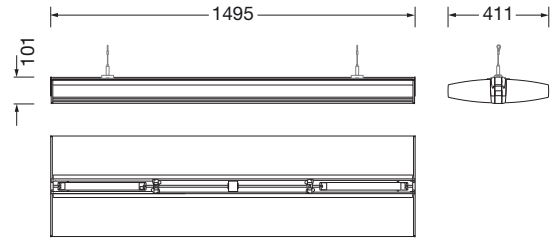
### Housing

Power module of extruded aluminum sections, anodized | innovative High Definition Prismatic reflectors (HDP®) of PMMA with prismatic structure | with manufacturer-fitted lamps | sail surfaces of light sail of matt aluminum | mounting of power module and electrical connection in the trunking rail in one step | mechanical locking via easy-to-use metal clips for secure fastening of power module in the trunking rail

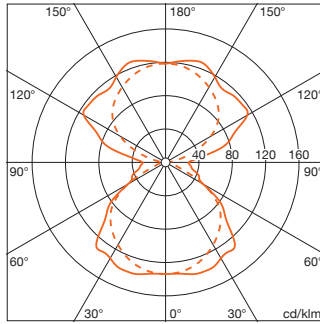




T16  
G5



4050737001432  
5TR77574X  
4 x T16-I 80W/840 (Amalgam)  
φ 27200 lm



η<sub>LB</sub> 87.6% φ<sub>d</sub> 46% φ<sub>f</sub> 54%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3328	1346
L <sub>70</sub>	3188	1725
L <sub>65</sub>	3049	2697

UGR 17.6 14.4  
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.8	2.1	3.6	4.3	9.0	11
300 m <sup>2</sup>	2.5	2.9	5.0	5.7	12	14
500 m <sup>2</sup>	3.9	4.4	7.8	8.8	20	22
750 m <sup>2</sup>	5.3	5.9	11	12	27	29
1000 m <sup>2</sup>	6.9	7.5	14	15	34	37
1500 m <sup>2</sup>	9.1	9.8	18	20	46	49
2000 m <sup>2</sup>	13	14	26	27	64	68

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP20/IP40 | power module for T16 lamps  
4-lamp | open distribution**

Power module for quick mounting to trunking rail; can be positioned in system size 299mm

- open distribution with HDP® cover for 360° all-round light distribution (42:58)
- with ECG, for one or two circuits
- aluminum housing, anodized; HDP® cover of PMMA, transparent; trunking rail quick mounting with metal clip

- protection rating: IP40
- insulation class: I
- version with ECG Singlewatt: with mounted lamps, light color 840
- version with ECG Multiwatt: without lamps

• system size: 1 system unit (1x SE) = 299mm

**Electrics**

Luminaire wired ready for connection, with one or two circuits depending on version:

**Version for one circuit (with ECG):** with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system

(3-pole + 2-pole for control signal); suitable for 10-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for two circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail

• phase pre-selection not possible



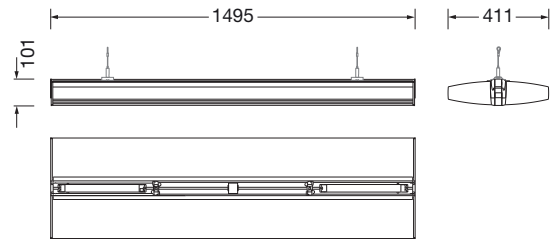
**Light source**

Light source	System size	kg	ECG-LLCG	Order no. OSRAM	Order no. Siteco
one circuit					
4x T16 35/49 W	G5 5x SE	7.4	Multi	4050737001395	5TR77574W
4x T16 35/49/80 W	G5 5x SE	7.8	Multi	4050737012018	5TR77574Q
4x T16 35/49/80 W	G5 5x SE	7.8	Multi DALI	4050737001494	5TR775D4Q
4x T16 35/49/80 W	G5 5x SE	7.8	Multi 1...10V	4050737001371	5TR77564Q
4x T16 80 W	G5 5x SE	9.8	ECG	4050737001432	5TR77574X
two circuits					
4x T16 80 W	G5 5x SE	7.8	ECG	4050737001487	5TR77574X2

- please order Modario® trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections l<sub>max</sub> = 3.5m



T16  
G5

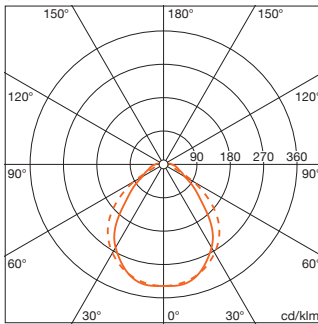


4050737001722

5TR77874X

4 x T16-I 80W/840 (Amalgam)

φ 27200 lm



η<sub>LB</sub> 78.3% φ<sub>d</sub> 94% φ<sub>f</sub> 6%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3602	2464
L <sub>70</sub>	3494	3300
L <sub>65</sub>	3833	4709

UGR 21.2 20.7

X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	6.0	8.0	6.0	8.0	6.0
200 m <sup>2</sup>	1.6	1.8	3.1	3.6	7.8	9.1
300 m <sup>2</sup>	2.2	2.5	4.4	5.0	11	12
500 m <sup>2</sup>	3.4	3.7	6.8	7.5	17	19
750 m <sup>2</sup>	4.8	5.3	9.7	11	24	26
1000 m <sup>2</sup>	6.3	6.7	13	13	31	34
1500 m <sup>2</sup>	9.1	9.6	18	19	45	48
2000 m <sup>2</sup>	12	12	24	25	59	62

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

### Modario® IP20/IP40 | power module for T16 lamps 4-lamp | direct distribution

Power module for quick mounting to trunking rail; can be positioned in system size 299mm

- direct distribution with HDP® cover and specular reflector elements for direct light with integrated all-round indirect component via lateral prismatic optics
- with ECG, for one or two circuits

- aluminum housing, anodized; HDP® cover of PMMA, transparent; trunking rail quick mounting with metal clip
- protection rating: IP40
- insulation class: I
- version with ECG Singlewatt: with mounted lamps, light color 840
- version with ECG Multiwatt: without lamps

- system size: 1 system unit (1x SE) = 299mm

#### Electrics

Luminaire wired ready for connection, with one or two circuits depending on version:

**Version for one circuit (with ECG):** with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system

(3-pole + 2-pole for control signal); suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for two circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail

- phase pre-selection not possible



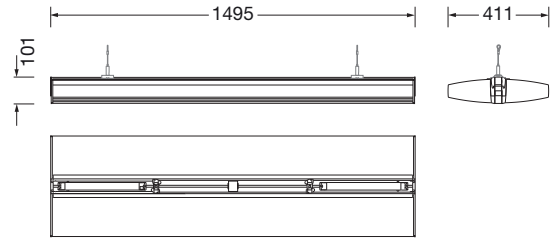
#### Light source

Light source	System size	Order no. OSRAM	Order no. Siteco
one circuit			
4x T16 35/49 W	G5 5x SE 8.3 Multi	4050737001678	5TR77874W
4x T16 35/49/80 W	G5 5x SE 8.4 Multi DALI	4050737001777	5TR778D4Q
4x T16 35/49/80 W	G5 5x SE 8.4 Multi 1...10V	4050737001661	5TR77864Q
4x T16 80 W	G5 5x SE 8.8 ECG	4050737001722	5TR77874X
two circuits			
4x T16 80 W	G5 5x SE 8.4 ECG	4050737001753	5TR77874X2

- please order Modario® trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections l<sub>max</sub> = 3.5m

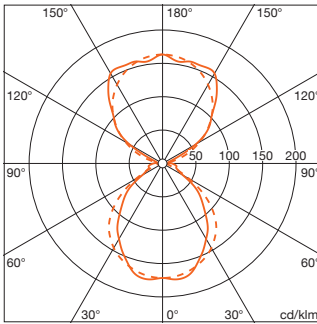


T16  
G5



4050737001579  
5TR77674X

2xT16-I 80W/840 (Amalgam) +  
2xT16-I 80W/865 (Amalgam)  
φ 26500 lm



η<sub>LB</sub> 82.9% φ<sub>d</sub> 47% φ<sub>t</sub> 53%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2181	1310
L <sub>70</sub>	1681	1691
L <sub>65</sub>	1827	2407

UGR 15 14.1  
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20					
	100		200		500	
Em(lx)	100	80	60	40	20	10
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.9	2.2	3.7	4.4	9.4	11
300 m <sup>2</sup>	2.6	3.0	5.2	5.9	13	15
500 m <sup>2</sup>	4.2	4.6	8.3	9.3	21	23
750 m <sup>2</sup>	5.7	6.2	11	12	28	31
1000 m <sup>2</sup>	7.3	7.8	15	16	36	39
1500 m <sup>2</sup>	9.3	9.9	19	20	46	49
2000 m <sup>2</sup>	14	14	27	29	68	72

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP20/IP40 | power module for T16 lamps**  
**4-lamp | direct/indirect distribution**

Power module for quick mounting to trunking rail; can be positioned in system size 299mm

- direct/indirect distribution with HDP® cover and specular reflector elements for direct and indirect light (44:56); supplementary optics (light sail) for rooms with high or dark ceilings as accessory
- with ECG, for one or two circuits

- aluminum housing, anodized; HDP® cover of PMMA, transparent; trunking rail quick mounting with metal clip
- protection rating: IP40
- insulation class: I
- version with ECG Singlewatt: with mounted lamps, light color 840
- version with ECG Multiwatt: without lamps

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

Luminaire wired ready for connection, with one or two circuits depending on version:

**Version for one circuit (with ECG):** with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for two circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail

• phase pre-selection not possible

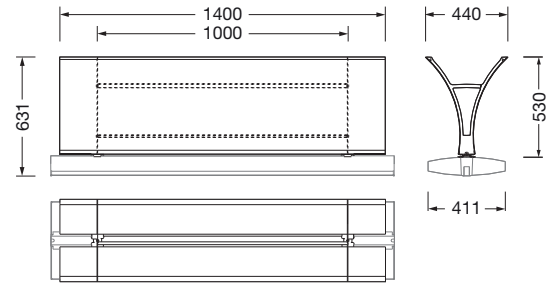


Light source	System size	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
one circuit					
4x T16 35/49 W	G5 5x SE	8.4	Multi	4050737001548	5TR77674W
4x T16 35/49/80 W	G5 5x SE	8.4	Multi DALI	4050737001630	5TR776D4Q
4x T16 35/49/80 W	G5 5x SE	8.4	Multi 1...10V	4050737001517	5TR77664Q
4x T16 80 W	G5 5x SE	8.6	ECG	4050737001579	5TR77674X
two circuits					
4x T16 80 W	G5 5x SE	8.4	ECG	4050737001616	5TR77674X2

- please order Modario® trunking rail separately
- please order light sail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections l<sub>max</sub> = 3.5m

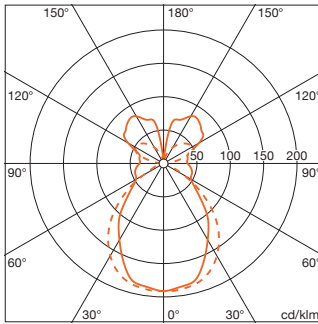
**Accessories (for details see page 8.88)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Light sail, white, 5x SE	1.5	4039806579287	5TR76000Q



4050737001579 + 4039806579287  
 5TR77674X + 5TR76000Q  
 2xT16-I 80W/840 (Amalgam) +  
 2xT16-I 80W/865 (Amalgam)

φ 26500 lm



η<sub>LB</sub> 74.7%   φ<sub>↓</sub> 59%   φ<sub>↑</sub> 41%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1064	969
L <sub>70</sub>	1078	1359
L <sub>65</sub>	1065	1614

UGR 15.3   13.3  
 X 4H   Y 8H   ρ 70/50/20   S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	6.0	8.0	6.0	8.0	6.0
200 m <sup>2</sup>	2.1	2.4	4.1	4.8	10	12
300 m <sup>2</sup>	2.8	3.2	5.6	6.4	14	16
500 m <sup>2</sup>	4.4	4.9	8.8	9.8	22	24
750 m <sup>2</sup>	6.2	6.7	12	13	31	34
1000 m <sup>2</sup>	7.8	8.5	16	17	39	42
1500 m <sup>2</sup>	12	13	25	26	62	66
2000 m <sup>2</sup>	15	16	29	31	73	78

Maintenance factor 0.8   Rh = Lh + 0.5 m

### Modario® IP20/IP40 | power module for T16 lamps light sail | secondary distribution

Light sail for quick mounting to  
 trunking rail

— secondary distribution, as supplement to  
 direct/indirect distribution power module,  
 for rooms with high or dark ceilings

- mounting with snap-fit mechanism to  
 trunking rail
- sheet steel supporting system, silver  
 (similar to RAL 9006); aluminum sail  
 surfaces, white

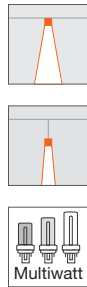
#### System size

System size	 kg	Order no. OSRAM	Order no. Siteco
5x SE	1.5	4039806579287	5TR76000Q

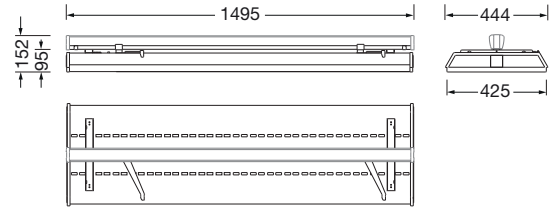
- please order Modario® trunking rail separately
- please order direct/indirect Modario® power module separately



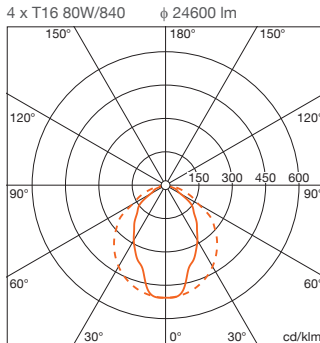




T16  
G5



4050737095943  
5LJ16174QM



$\eta_{LB}$  94.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	145	9975
L <sub>70</sub>	6535	14883
L <sub>65</sub>	7039	16376

UGR 21.2 25  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Modario® IP20 | highbay luminaire**  
**4-lamp | direct narrow distribution | with transparent cover**

T16 highbay luminaire for mounting to trunking rail; can be positioned in system size 299mm

- with highly reflective aluminum reflector (MIRO®), matt, narrow distribution
- with OSRAM industrial ECG Multiwatt, for one or two circuits
- sheet steel housing, galvanized, end caps of PBT, housing and end caps pure white (similar to RAL 9010)

- protection rating: IP20
- insulation class: I
- impact resistance: IK08
- service life (ECG): up to 100,000h depending on ambient temperature
- OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps: for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

- system size: 1 system unit (1x SE): 299mm

**Electrics**

Highbay luminaire wired ready for connection, with one or two circuits depending on version:

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for 2 circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail

- phase pre-selection not possible



**No. of luminaires in room**

Reflection factors 70/50/20

Em(lx)	100				200				500			
	Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	
200 m <sup>2</sup>	1.3	1.6	2.7	3.1	6.7	7.8						
300 m <sup>2</sup>	1.9	2.1	3.8	4.3	9.4	11						
500 m <sup>2</sup>	2.9	3.2	5.8	6.4	15	16						
750 m <sup>2</sup>	4.2	4.5	8.4	9.1	21	23						
1000 m <sup>2</sup>	5.4	5.8	11	12	27	29						
1500 m <sup>2</sup>	7.9	8.4	16	17	39	42						
2000 m <sup>2</sup>	10	11	21	22	52	54						

Maintenance factor 0.8

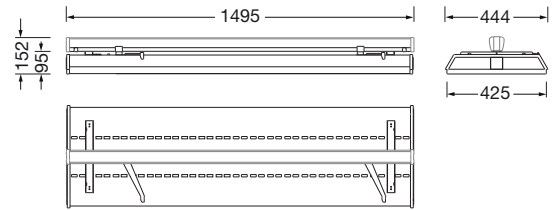
Rh = Lh

Light source	System size	l [mm]	ECG	Order no. OSRAM	Order no. Siteco		
4x T16 35/49/80 W	G5	5x SE	1495	10.1	Multi	4050737095943	5LJ16174QM
4x T16 35/49/80 W	G5	5x SE	1495	10.1	Multi DALI	4050737095363	5LJ161D4QM
4x T16 35/49/80 W	G5	5x SE	1495	10.1	Multi 1...10V	4050737095929	5LJ16164QM

- please order lamps separately (OSRAM system guarantee in combination with selected lamps: OSRAM LUMILUX T5)
- please order Modario® trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections  $l_{max} = 3.5m$

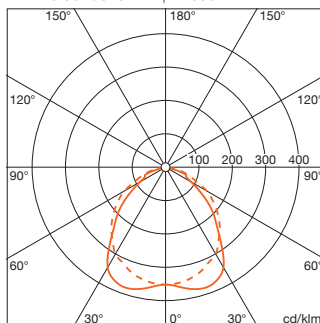


T16  
G5



4050737095424  
5LJ16274QM

4 x T16 80W/840  $\phi$  24600 lm



$\eta_{LB}$  94%  $\phi_d$  100%  $\phi_r$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1024	7548
L <sub>70</sub>	9294	11272
L <sub>65</sub>	8199	12275

UGR 22.5 25

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

### Modario® IP20 | highbay luminaire 4-lamp | direct wide or extremely wide distribution | with transparent cover

T16 highbay luminaire for mounting to trunking rail; can be positioned in system size 299mm

- with highly reflective aluminum reflector (MIRO®), matt, wide or extremely wide distribution via adjustment of socket
- with OSRAM industrial ECG Multiwatt, for one or two circuits
- sheet steel housing, galvanized, end caps of PBT, housing and end caps pure white (similar to RAL 9010)

- protection rating: IP20
- insulation class: I
- impact resistance: IK08
- service life (ECG): up to 100,000h depending on ambient temperature
- OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps: for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

- system size: 1 system unit (1x SE): 299mm

#### Electrics

Highbay luminaire wired ready for connection, with one or two circuits depending on version:

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for 2 circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail

- phase pre-selection not possible

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	6.0	8.0	6.0	8.0	6.0
200 m <sup>2</sup>	1.4	1.6	2.8	3.3	7.0	8.2
300 m <sup>2</sup>	1.9	2.2	3.9	4.4	9.7	11
500 m <sup>2</sup>	3.0	3.3	6.0	6.7	15	17
750 m <sup>2</sup>	4.3	4.7	8.6	9.4	22	23
1000 m <sup>2</sup>	5.6	6.0	11	12	28	30
1500 m <sup>2</sup>	8.1	8.6	16	17	40	43
2000 m <sup>2</sup>	11	11	21	22	53	56

Maintenance factor 0.8

Rh = Lh



Light source	System size	l [mm]	kg	ECG LLLCG	Order no. OSRAM	Order no. Siteco
4x T16 35/49/80 W	G5 5x SE	1495	11.5	Multi	4050737095424	5LJ16274QM
4x T16 35/49/80 W	G5 5x SE	1495	10.2	Multi DALI	4050737095462	5LJ162D4QM
4x T16 35/49/80 W	G5 5x SE	1495	10.2	Multi 1...10V	4050737095981	5LJ16264QM

- please order lamps separately (OSRAM system guarantee in combination with selected lamps: OSRAM LUMILUX T5)
- please order Modario® trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections  $l_{max} = 3.5m$

# Modario<sup>®</sup> sensor modules

The Modario<sup>®</sup> sensor modules are system components of the Modario<sup>®</sup> trunking system. They enable the simple integration of daylight control and presence detection into a Modario<sup>®</sup> trunking system with DALI luminaire inserts. The resulting intelligent lighting control operates as an isolated solution and is not connected to a higher-level system. The system can be easily started via infrared remote control.

Because of their ranges and diverse detection areas, the sensor modules exhibit a wide flexibility for possible applications. Versions are available for mounting heights of 3 to 5 meters or for heights of 6 to 10 meters, yielding various ranges of detection. High energy savings of up to 80% can be achieved with the combination of daylight control and presence detection.

## Features

- simple and quick installation of independent lighting control as isolated solution in Modario<sup>®</sup> trunking system
- no additional on-site installation for sensors; overall installation ready for operation in trunking system
- can be retrofitted in existing systems
- simple planning; commissioning and parameterization via remote control on site, without software, without PC
- variable delay period and orientation light possible
- up to 80% energy savings via constant light control with luminous flux tracking and motion detection

## Function

**Master sensor module** with integrated multi-sensor and control unit | multi-sensor consisting of PIR sensor, light sensor and IR receiver (for parameterization) | control unit with DALI broadcast addressing for operation of max. 50 ECG DALI | push-button for manual control of lighting system | selection of delay period or orientation light | system parameterization via IR remote control

**Slave sensor module** with integrated PIR sensor for expansion of motion detection | pulse output for communication from slave to master sensor module

## Commissioning remote control

Pre-setting of brightness reference value for constant light control and setting of delay periods | switching between operation with/without orientation light (dimming level: 20%/0%) | switching between fully automatic and semi-automatic operation

**Fully automatic operation:** automatic ON/OFF depending on presence and brightness

**Semi-automatic operation:** manual ON/automatic or manual OFF | range: max. 5m (with unobstructed view)

## Installation/commissioning





Simple connection to a Modario<sup>®</sup> trunking system with 10-pole trunking rail and luminaire inserts with ECG DALI | no additional on-site wiring required | mounting and electrical connection of insert in trunking rail without tools, in one work step

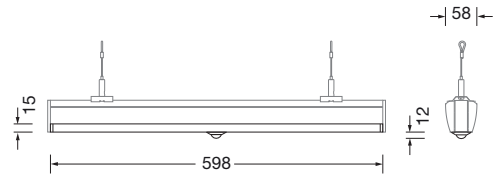
## Housing

Sensor insert of sheet steel, white aluminum (RAL 9006) or pure white (similar to RAL 9010); plastic sensor housing, white or graphite; twist-lock catch for trunking rail quick mounting with metal clip | mechanical locking with easy-to-use twist-lock catch with metal clip for secure fastening of sensor insert in the trunking rail

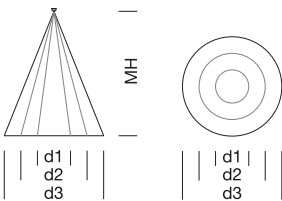
## Applications

Isolated solution (without connection to higher-level building management system) for one room with high daylight component and building areas not continuously occupied: production areas, workshops, atria, car parks, warehouse areas, ancillary rooms, corridors

	Sensor module				
	Type 1		Type 2		Type 3
	Master	Slave	Master	Slave	Slave
	■	■	■	■	■
	■		■		
	■		■		
	■		■		
<b>Detection</b>	circular		circular		elliptical
<b>Mounting height</b>	3–5m		6–10m		6–10m



Detection range for movement



MH	d1 seated	d2 frontal	d3 traverse
3	ø3	ø3.7	ø6
4	-	ø4.3	ø7
5	-	ø6	ø10

**Modario® IP20 | sensor module type 1,**  
**L<sub>PH</sub> = 3...5m | circular detection**

Sensor module for quick mounting to trunking rail; can be positioned in system size 299mm, mounting height h = 3...5m

- master sensor module with integrated multi-sensor for brightness control and for switching of luminaire inserts with ECG DALI
- housing of extruded aluminum, white aluminum (RAL 9006) or pure white (similar to RAL 9010); plastic sensor

housing, white or graphite; twist-lock catch for trunking rail quick mounting with metal clip

- protection rating: IP20
- insulation class: I
- control range: E = 50...1500lx
- mounting height: h = 3...5m
- detection: circular (can be limited with shield)

- system size: 1 system unit (1x SE): 299mm

**Electrics**

- System consisting of one master sensor module or one master sensor module and several slave sensor modules in one room; master sensor module ready for connection with 7-pole connection system; suitable for 10-core wired trunking rail
- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- control unit with DALI broadcast addressing for operation of max. 50 luminaire inserts with ECG DALI, 1-lamp or 2-lamp (max. 25 power modules)
- master, slave and push-button input must have same phase angle
- combination with insert for auxiliary power supply or single battery not permissible

Detailed information: see data sheet

**Function**

- Master sensor module with integrated multi-sensor (consisting of PIR sensor, light sensor and IR receiver) for remote control and control unit
- IR remote control for parameterization
- push-button input for manual control of lighting system
- expansion of motion detection via additional slave sensor modules with integrated PIR sensor
- daylight control and motion detection cannot be deactivated



**Designation**

**System size**



**Order no. OSRAM**

**Order no. Siteco**

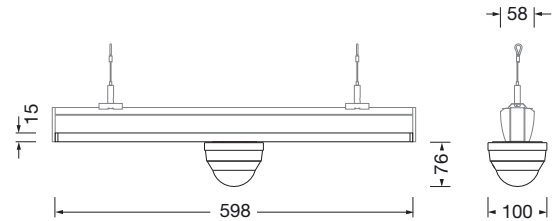
Pure white

Sensor module type 1, master, mounting height 3m<h<5m	2x SE	598	0.5	4050737056784	5TR305DMBL
Sensor module type 1, slave, mounting height 3m<h<5m	2x SE	598	0.5	4050737056746	5TR305SBL

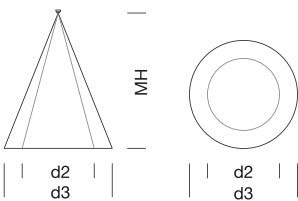
White aluminum (RAL 9006)

Sensor module type 1, master, mounting height 3m<h<5m	2x SE	598	0.4	4050737056807	5TR365DMBL
Sensor module type 1, slave, mounting height 3m<h<5m	2x SE	598	0.4	4050737054186	5TR365SBL
Commissioning remote control	-	-	0.1	4039806909565	5LZ91292094

- please order IR remote control separately



Detection range for movement



MH	d2 frontal	d3 traverse
6	ø8	ø24
7	ø8	ø24
8	ø8	ø24
9	ø8	ø24

**Modario® IP20 | sensor module type 2**  
**L<sub>PH</sub> = 6...10m | circular detection**

Sensor module for quick mounting to trunking rail; can be positioned in system size 299mm, mounting height h = 6...10m

- master sensor module with integrated multi-sensor for brightness control and for switching of luminaire inserts with ECG DALI
- housing of sheet steel, pure white (similar to RAL 9010); plastic sensor housing,

- white or graphite; twist-lock catch for trunking rail quick mounting with metal clip
- protection rating: IP20
- insulation class: I
- control range: E = 50...1500lx
- mounting height: h = 6...10m
- detection: circular (can be limited with shield)

- system size: 1 system unit (1x SE): 299mm

**Electrics**

System consisting of one master sensor module or one master sensor module and several slave sensor modules in one room; master sensor module ready for connection with 7-pole connection system; suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- control unit with DALI broadcast addressing for operation of max. 50 luminaire inserts with ECG DALI, 1-lamp or 2-lamp (max. 25 power modules)
- master, slave and push-button input must have same phase angle
- combination with insert for auxiliary power supply or single battery not permissible

Detailed information: see data sheet

**Function**

Master sensor module with integrated multi-sensor (consisting of PIR sensor, light sensor and IR receiver) for remote control and control unit

- IR remote control for parameterization
- push-button input for manual control of lighting system
- expansion of motion detection via additional slave sensor modules with integrated PIR sensor
- daylight control and motion detection cannot be deactivated; daylight control less exact at mounting height h ≥ 6m



**Designation**

System size



Order no.  
OSRAM

Order no.  
Siteco

Pure white

Sensor module type 2, master, mounting height 6m<h<10m	2x SE	598	0.9	4050737056760	5TR305DMBH
Sensor module type 2, slave, mounting height 6m<h<10m	2x SE	598	0.9	4050737056333	5TR3050SBH
Commissioning remote control			0.1	4039806909565	5LZ91292094

— please order IR remote control separately

**Accessories**

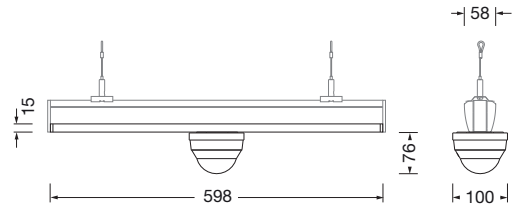
**Designation**

Wt. (kg)

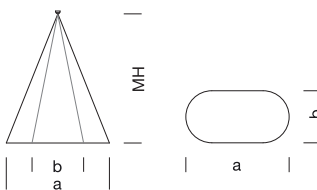
Order no.  
OSRAM

Order no.  
Siteco

Sensor module type 3, slave	1.1	4050737056722	5TR3050SBHR
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Detection range for movement



MH	a x b
6	37 x 20
7	37 x 20
8	44 x 24
9	44 x 24
10	44 x 24

**Modario® IP20 | sensor module type 3**  
**L<sub>PH</sub> = 6...10m | elliptical detection**

Sensor module for quick mounting to trunking rail; can be positioned in system size 299mm, mounting height h = 6...10m

- slave sensor module with integrated PIR sensor for expansion of motion detection e.g. in highbay racking
- housing of sheet steel, pure white (similar to RAL 9010); plastic sensor housing,

white or graphite; twist-lock catch for trunking rail quick mounting with metal clip

- protection rating: IP20
- insulation class: I
- mounting height: h= 6...10m
- detection: elliptical (can be limited with shield)

- system size: 1 system unit (1x SE): 299mm

**Electrics**

System consisting of one master sensor module and several slave sensor modules in one room: slave insert ready for connection with 4-pole connection system, suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- communication of several slave sensor modules via common pulse output on one master sensor module
- master, slave and push-button input must have same phase angle

Detailed information: see data sheet



Designation	System size			Order no. OSRAM	Order no. Siteco
Pure white					
Sensor module type 3, slave, mounting height 6m<h<10m	2x SE	598	1.1	4050737056722	5TR3050SBHR

**Mandatory accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Sensor module type 2, master, mounting height 6m<h<10m	0.9	4050737056760	5TR305DMBH

# Modario® LED | highbay adapter



Light management systems in the indoor luminaire field make a considerable contribution to the energy-efficient operation of lighting installations. In addition, such systems ensure that the requirements concerning the quality of light and the flexibility of the lighting with regard to the utilization of the space are optimized at all times.

The DALI Pro 9047 is suited to complex applications in area and building floor management, daylight-dependent control and dynamic light management systems. Daylight-dependent lighting control is realized using the multi-sensors for presence, motion and daylight dependence, which switch the lighting on in the case of absence and keep it at the set level. The DALI Pro 9047 control unit can control four lines, each having 16 groups and 16 scenes. Each line can accommodate up to 64 DALI-compatible end units so that one controller can contact a total of up to 256 addresses. The input units are available as a variety of glass operating panels and an LCD touch panel.

Incorporation of customer-specific switches, push-buttons or sensors creates a push-button interface with four floating inputs. Configuration and commissioning of the controller is particularly easy using Windows-based PC software. Plug & Play setting is preconfigured for immediate deployment without any commissioning requirement, for example on the building site.

### Functions

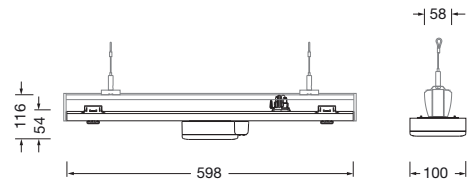
- presence and motion sensing
- daylight-dependent lighting control
- manual control of the lighting installation using a touch panel
- flexibility as a result of individual and group addressing

### Areas of application

Higher-level DALI control systems for complex control tasks:

- industrial halls
- open-plan offices
- workshops





**Modario® LED | highbay adapter with integrated light sensor |  $L_{PH} = 4...12m$  | circular detection**

Highbay adapter for mounting to trunking rail; can be positioned in system size 299mm

- Highbay adapter for connection of a Modario® trunking system to light management systems DALI Pro 9047 or WAGO I/O and KNX
- with integrated light sensor; potentiometer to set sensitivity
- select button for initialization during commissioning; with status LED
- motion sensor accessory: vision sensor or highbay sensor for installation without tools
- housing of sheet steel, pure white (similar to RAL 9010); plastic sensor housing, white or graphite; twist-lock catch for trunking rail quick mounting with metal clip
- protection rating: IP20
- insulation class: I
- light sensor detection: circular, 40°
- mounting height:  $h = 4...12m$

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

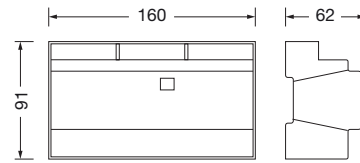
- highbay adapter ready for connection with 5-pole connection system, suitable for 10-core wired trunking rail
- with 3-phase pre-selection\* via moving of contact pin prior to installation in trunking rail
- \* power supply on wire >1< to >3<, >N<, >PE<; DALI output on wire >5< and >7<
- push-button input on wire >6<
- sensor module and push-button input must have same phase angle
- combination with insert for auxiliary power supply or single battery not permissible
- light management systems: see [www.siteco.com](http://www.siteco.com) for detailed information



Designation	System size	I [mm]	kg	Order no. OSRAM	Order no. Siteco
Pure white					
Modario highbay adapter, mounting height 4...12m	2x SE	598	0.9	4050737523316	5TR3050AY
White aluminum (RAL 9006)					
Modario highbay adapter, mounting height 4...12m	2x SE	598	0.9	4050737619743	5TR3650AY

- please order controller separately
- please order motion sensor separately if required
- suitable for 10-core wired Modario® trunking rail
- for mandatory accessories (controller) and optional motion sensor, see page 31 ff.

Additional information about intelligent lighting control with DALI Pro 9047 can be found in **chapter 13**



**Modario® LED | accessories for highbay adapter DALI Pro 9047 controller**

Controller for setting up a DALI light management system with up to 4 DALI lines


- parameterization of groups, scenes and sequences with software
- 4 relay contacts, floating

$I_{max} = 5A/230V$  (Ohm); number of ECG units manufacturer/type-dependent

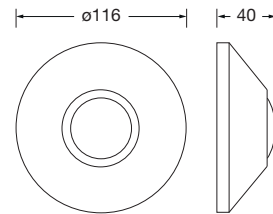
- for installation in distribution box
- plastic casing, gray
- protection rating: IP20
- insulation class: I
- line voltage:  $U_N = 100...240V$  AC 50...60Hz

4 DALI lines;  
Software "DALI Professional" can be downloaded free of charge at [www.osram.com](http://www.osram.com)



Designation	Part units		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Controller	9	0.4	4050737056302	5LZ904711


Additional information about intelligent lighting control with DALI Pro 9047 can be found in **chapter 13**



### Modario® LED | accessories for highbay adapter motion sensor

- for detecting persons or vehicles
  - floating relay contact
  - plastic casing, white
  - for ceiling surface mounting
  - protection rating: IP20
  - switching output: number of ECG units manufacturer/type-dependent; delay period adjustable (0.5/2.5/5.0/7.5/.../20min)
  - line voltage:  $U_N = 120...277VAC$  50/60Hz
- Motion detection Vision:
- PIR sensor
  - sensor range circular
  - mounting height:  $H \leq 4.5m$
  - opening angle: approx.  $130^\circ$
  - motion detection tangential:  $d = \text{approx. } 21m$
- Motion detection Highbay:
- PIR sensor
  - sensor range circular
  - Mounting height:  $6m \leq H \leq 10m$
  - opening angle: approx.  $60^\circ$
  - motion detection tangential:  $d = \text{approx. } 12m$



Designation	Version		Order no. OSRAM	Order no. Siteco
Sensor	Vision	1.0	4050737623948	5LZ904004
Sensor	Highbay	1.0	4050737619774	5LZ904005

### Accessories

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
High bay adapter	1.0	4050737619767	5LZ904722
Modario highbay adapter, mounting height 4...12m	0.9	4050737523316	5TR3050AY
Modario highbay adapter, mounting height 4...12m	5.3	4050737619743	5TR3650AY
Timer module	0.1	4050737468648	5LZ916001

Additional information about intelligent lighting control with DALI Pro 9047 can be found in **chapter 13**

## Modario® IP20/IP40 – mounting accessories for trunking rail



### Ceiling mounting

made of spring steel V2A, glossy | installation by snap-on | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806505668	5LS91101EA



### Ceiling mounting with caddy clip

made of spring steel V2A, glossy | installation by snap-on | load capacity: 16kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806558206	5TR90142



### Wire suspension with loop

with height adjustment | mounting bracket of spring steel V2A, glossy | installation by snap-on | wire: D = 1.5mm | load capacity: 20kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	H ≤ 2m	4039806505354	5TR901302

— without ceiling-side attachment (ceiling hook on site)



### Wire suspension with caddy clip

with height adjustment | mounting bracket of spring steel V2A, glossy; caddy clip galvanized | installation by snap-on | wire: D = 1.5mm | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	H ≤ 2m	4039806505378	5TR901322



### Wire suspension with canopy

with height adjustment | mounting bracket of spring steel V2A, glossy | installation by snap-on | wire length l = 2m | wire: D = 1.2mm | load capacity: 12kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
with white canopy			
without terminal	H ≤ 2m	4039806505361	5TR901312
with terminal <sup>1)</sup>	H ≤ 2m	4039806545855	5TR901332

with silver canopy

without terminal	H ≤ 2m	4039806558244	5TR961312
with terminal <sup>1)</sup>	H ≤ 2m	4039806558251	5TR961332

1) with 5 terminals, 1-pole, max. 2.5mm<sup>2</sup>



### Wire suspension with ceiling sheath

with height adjustment (luminaire side) | with cylindrical ceiling attachment element, nickel-plated | mounting bracket of spring steel V2A; installation via snap-on | wire:  $D = 1.5\text{mm}$  | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	$H \leq 2\text{m}$	4050737029030	5TR901342



### Chain suspension for trunking rail

rail side | safety hooks with height compensation | installation via snap-on | mounting bracket of spring steel V2A, glossy | steel safety hooks, galvanized | load capacity: 30kg

Designation	Order no. OSRAM	Order no. Siteco
Chain suspension	4039806505347	5TR9012

— without chain



### Knotted-link chain

link<sub>inside</sub> 5.6 x 31mm | load capacity: 40kg

Designation	Order no. OSRAM	Order no. Siteco
Knotted-link chain, galvanized	4039806184290	5LY9001
Knotted-link chain, V2A	4039806184313	5LY9002

— Chain: per meter



### Safety link

link<sub>inside</sub> 5 x 15mm | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Safety link, V2A	4039806184368	5LY9004

The weight of the continuous row (depending on design and configuration) and the load capacity of the suspensions determine the number of attachment points.

If there are additional loads (such as spotlights), additional suspensions are needed. In this case, the maximum permissible distance between two attachment points and the maximum permissible length of the self-supporting rail end must not be exceeded.

- maximum permissible distance between two attachment points:  $l_{\text{max}} = 3.5\text{m}$
- maximum permissible length of self-supporting rail end:  $l_{\text{a,max}} = 0.8\text{m}$

#### With power modules (5TR775... | 5TR776... | 5TR778...)

#### with highbay luminaires T16 (5LJ161... | 5LJ162...):

- at least one attachment point per luminaire:  $l_{\text{max}} = 1.5\text{m}$
- maximum distance in unequipped rail:  $l_{\text{max}} = 3.5\text{m}$

#### In rotating rail connectors:

- 1 suspension required in the range of the rotating connector:  $l_{\text{a,max}} = 0.75\text{m}$

# Modario® IP64 trunking system



The Modario® trunking system with its fully compatible modular construction can be customized to complex photometric requirements. The Modario® IP64 consists of two basic elements: the 5-core or 10-core wired trunking rail and the open distribution luminaire insert, with or without protection tube, for energy-efficient T16 fluorescent lamps. All elements are matched to the 299mm system module size and can be used in combination.

An extremely narrow distribution and an extremely wide distribution aluminum reflector are available as optical components. A cross-blade louver is also available for the wide distribution reflector. A 2-lamp complete luminaire and a 4-lamp highbay luminaire, each with various light distributions, are also available.

## Features

- modular construction system
- variable lamp wattages via T16 multiwatt technology
- high IP64 protection
- high flexibility with 299mm system module size: all elements within the Modario® product family have been constructed for this system module size and can be combined and positioned within this system as desired
- arrangements as individual luminaires or trunking lines

## Luminaire insert

- luminaire insert with ECG Multiwatt as standard for varying lamp configurations
- circuit partitioning into two independent 3-phase supply networks possible
- phase selection possible as standard
- electrical and mechanical connection of inserts within rails without tools in one step
- easy-to-use twist-lock catches with metal clips for quick mounting of inserts and reflectors in the trunking rail

## Trunking rail

- trunking rail as standard with 5-core or 10-core through-wiring with 2.5mm<sup>2</sup> cable cross-section
- electrical feed possible in central area of a trunking rail arrangement via special trunking rail element
- large distances between suspension points of up to 3.5m with self-supporting trunking rail connectors
- simple installation of trunking rail elements with pre-assembled connectors with integrated plug-in system (electrical and mechanical connection)



### Lighting technology

Modario® luminaire insert open distribution | the optics can be determined with supplementary elements of light-output-ratio-optimized aluminum (MIRO®):

- direct extremely narrow distribution reflector
- direct extremely wide distribution reflector

Modario® trunking luminaire with highly reflective aluminum reflector (MIRO®), depending on version with glare reduction via HDP® technology for very good vertical illuminance levels or with transparent cover:

- symmetric wide distribution
- asymmetric wide distribution

T16 high bay luminaire with reflector of highly reflective aluminum (MIRO®):

- narrow distribution
- wide distribution
- extremely wide distribution

### Electrics

Trunking rail and luminaire insert wired ready for connection **Trunking rail** with connection terminal, max. 2.5mm<sup>2</sup> and through-wiring 5x or 10x 2.5mm<sup>2</sup> (additional electrical feed in central area of a trunking rail arrangement is possible via special trunking rail element) | through-wiring to next trunking rail with pre-installed electrical and mechanical plug and socket connection | connection for all inserts at distances of 299mm

**Luminaire insert** for operation on normal power supply | with 3-pole connection system, suitable for 5-core or 10-core wired trunking rail | 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Highbay luminaire** for operation on normal power supply, with one or two circuits depending on version:

- version for one circuit (with ECG DALI or ECG 1...10V) with 5-pole connection system (3-pole + 2-pole for control signal), suitable for 10-core wired trunking rail | with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail
- version for 2 circuits (with ECG): with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail | phase pre-selection not possible

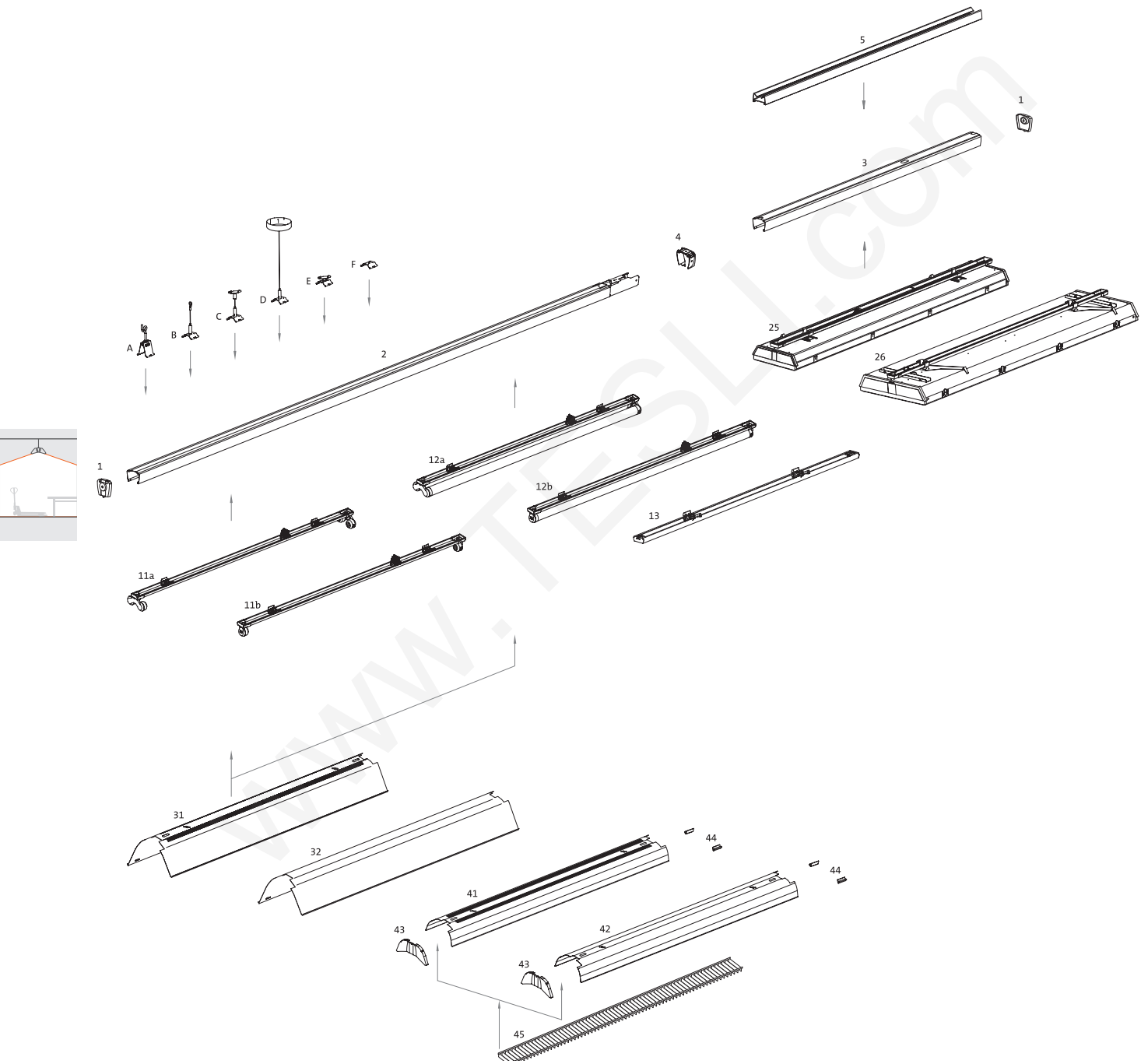
### Housing

Robust trunking rail, luminaire insert and gear tray of galvanized sheet steel, pure white (similar to RAL 9010); protection rating IP64 due to comprehensive sealing system | reflector and cross-blade louver of aluminum | mounting of luminaire insert and reflector and electrical connection of insert in trunking rail without tools, in one work step | mechanical locking via easy-to-use twist-lock catch with metal clip for secure fastening of insert and reflector in the trunking rail | trunking rail with pre-mounted, self-supporting connector | large mounting distances of up to 3.5m with robust connection elements





# System overview Modario® IP64



**Suspensions**

		<b>Page</b>
A	Chain suspension	8.120
B	Wire suspension	with loop 8.119
C	Wire suspension	with caddy clip 8.119
D	Wire suspension	with canopy, white or silver 8.119
E	Ceiling mounting	with caddy clip 8.119
F	Ceiling mounting	for screw fastening 8.119

**Trunking rails and accessories**

1	End cap for trunking rail	8.106
2	Trunking rail	5-core or 10-core   5x SE (1495mm)...15x SE (4485mm) 8.105
3	Trunking rail for central feed	module length: 5x SE (1495mm) 8.106
4	Joint cover for trunking rail	8.106
5	Cable duct for trunking rail	8.107

**Luminaire inserts/accessories**

11	Luminaire insert, 1-lamp/2-lamp	module length: 5x SE (1495mm) 8.108
12	Luminaire insert, 1-lamp/2-lamp, with protection tube	module length: 5x SE (1495mm) 8.109
13	Fixed insert, sheet steel	module length: 1x SE/2x SE/5x SE (299/598/1495mm) 8.107

**Trunking luminaires**

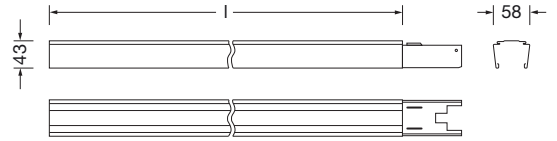
25	Trunking luminaire, 1-lamp/2-lamp	wide distribution 8.115
		asymmetric distribution 8.115
26	Highbay luminaire, 4-lamp	narrow distribution 8.117
		wide or extremely wide distribution 8.118

**Reflectors/accessories**

31	Reflector, aluminum; with self-cleaning effect	extremely narrow distribution (1-lamp) 8.113
32	Reflector, aluminum	extremely narrow distribution (1-lamp) 8.114
41	Reflector, aluminum; with self-cleaning effect	extremely wide distribution (1-lamp or 2-lamp) 8.110
42	Reflector, aluminum	extremely wide distribution (1-lamp or 2-lamp) 8.111
43	End cap	for reflector extremely wide distribution 8.112
44	Connector	for reflector extremely wide distribution 8.112
45	Cross-blade louver, white	for reflector extremely wide distribution 8.112

System size: 1 system unit (1x SE): 299mm





**Modario® IP64  
trunking rail**

Trunking rail for ceiling surface or suspended mounting

- with pre-installed trunking rail connector with electrical plug and socket connection
- 5-core or 10-core wired, with connection for luminaire inserts and modules at distance of 299mm
- sheet steel trunking rail, galvanized, pure white (similar to RAL 9010)
- protection rating: IP64 (with suitable accessories)
- insulation class: I

• system size: 1 system unit (1x SE) = 299mm

**Electrics**

- Trunking rail ready for connection, with terminal at the start of the rail, 5x max. 2.5mm<sup>2</sup> or 10x max. 2.5mm<sup>2</sup>
- cable entry at start of rail arrangement via end cap or via special trunking rail for central feed
  - with 5x 2.5mm<sup>2</sup> or 10x 2.5mm<sup>2</sup> through-wiring (full load rating up to 16A)
  - through-wiring to next trunking rail via serial plug and socket connection
  - connection for luminaire inserts and modules at distance of 299mm
  - cable routing for additional on-site installation (e.g. for multiple circuits) on or in the trunking rail



System size	l (mm)	Kg	with 5x 2.5mm <sup>2</sup> through-wiring		with 10x 2.5mm <sup>2</sup> through-wiring	
			Order no. OSRAM	Order no. Siteco	Order no. OSRAM	Order no. Siteco
5x SE	1495	2.4	4039806857767	5TS10150Q	4039806907042	5TS101A0Q
10x SE	2990	4.4	4039806857804	5TS10250Q	4039806907066	5TS102A0Q
15x SE	4485	6.4	4039806858245	5TS10350Q	4039806907080	5TS103A0Q

- please order end-cap sets separately
- please order joint covers separately

**For end-cap sets and further trunking rail accessories, see page 8.106 ff.  
For trunking rail mounting accessories, see page 8.119 ff.**

## Modario® IP64 – trunking rail accessories



### End cap for trunking rail

PC, signal white (RAL 9003) | for clipping to trunking rail, with lock screws | with cable entry, gray, for cable or pipe  $D = 8.5 \dots 13.5 \text{ mm}$  | incl. terminal max.  $10 \times 2.5 \text{ mm}^2$  for feed | for protection rating: IP64

Designation	PU	Order no. OSRAM	Order no. Siteco
for trunking rail	1 set = 2 pieces	4039806858542	5TS9016



### Twin cable entry

for 2 sheathed cables  $\varnothing 8.4 \dots 12 \text{ mm}$ , (e.g. NYM 5x 1.5mm<sup>2</sup>)

Designation	Order no. OSRAM	Order no. Siteco
twin cable entry	4039806166180	5LS32200XV



### Joint cover for trunking rail

bracket, V2A, with foam rubber underneath | for clipping to trunking rail on the rail joint | for protection rating: IP64

Designation	Order no. OSRAM	Order no. Siteco
Joint cover for trunking rail	4039806861573	5TS9017

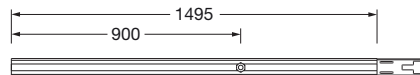


### Trunking rail for central feed

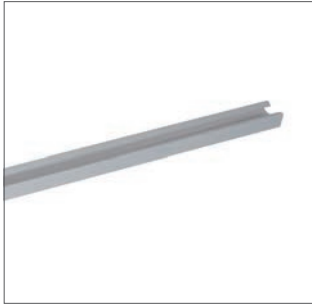
for supplementary electrical feed in central area of a trunking rail arrangement | 10-core wired, with connection for luminaire insert | M20 cable entry for cable or pipe  $D = 6 \dots 12 \text{ mm}$  | trunking rail of galvanized sheet steel, painted pure white | with pre-installed connector | protection rating: IP64 (with suitable accessories) | insulation class: I

Designation	System size	l (mm)	x (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pure white	5x SE	1495	900	2.5	4039806858191	5TS9092AQ

system size: 1 system unit (1x SE) = 299mm  
feed at distance 900mm



## Modario® IP64 – electrical accessories



### Cable duct

for concealed guidance of additional cables on the topside of trunking rail | suitable for 2 lines,  $D \leq 15\text{mm}$  (e. g. NYM 7x 2.5mm<sup>2</sup>) | cable duct of ABS

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
Pure white	5x SE	1495	4039806589873	5TR90912
White aluminum	5x SE	1495	4039806589897	5TR96912

— system size: 1 system unit (1x SE) = 299mm



### Cable retainer

for attachment of additional cables in the trunking rail | suitable for single-core cable

Designation	PU	Order no. OSRAM	Order no. Siteco
Cable retainer	1 set = 10 pieces	4039806810458	5TR90911

— recommended distance for retainers: 0.3m

## Modario® IP64 – functionality accessories



### Modario® IP64 fixed insert, sheet steel, with twist-lock catch

for trunking rail quick mounting | twist-lock catch with metal clips\* | sheet steel housing | protection rating: IP64 | insulation class: I

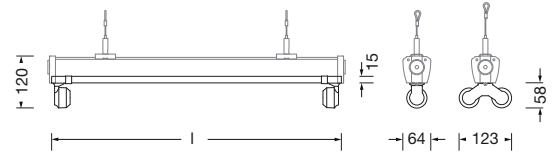
Designation	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pure white	1x SE	299	0.1	4050737067216	5TS30000A
Pure white	2x SE	598	0.3	4050737067230	5TS30000B
Pure white	5x SE	1495	0.6	4039806859235	5TS30000Q

— system size: 1 system unit (1x SE) = 299mm

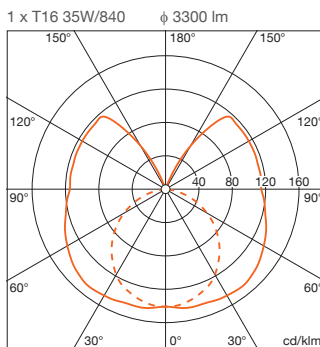
\* suitable for optically uninterrupted appearance for installation of optical accessories



T16  
G5



4039806860361  
5TS30171Q



$\eta_{LB}$  100.3%  $\phi_{\downarrow}$  64%  $\phi_{\uparrow}$  36%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	12463	4076
L <sub>70</sub>	10464	5804
L <sub>65</sub>	9860	6331

UGR 26 20.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.7	2.8	3.3	5.7	8.3	14
30 m <sup>2</sup>	2.1	3.4	4.3	6.7	11	17
40 m <sup>2</sup>	2.7	4.1	5.5	8.2	14	21
50 m <sup>2</sup>	3.2	4.7	6.4	9.4	16	23
75 m <sup>2</sup>	4.3	5.9	8.6	12	22	30
100 m <sup>2</sup>	5.6	7.5	11	15	28	37
500 m <sup>2</sup>	23	26	46	53	114	132

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP64 | luminaire insert for T16 lamps  
open distribution**

Luminaire insert for quick mounting to trunking rail; can be positioned in system size 299mm  
 — open distribution, wide range of optical accessories available  
 — with ECG Multiwatt

- sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP64
- insulation class: I

• system size: 1 system unit (1x SE) = 299mm

**Electrics**

Luminaire insert with ECG for operation on normal power supply; ready for connection with 3-pole connection system (3-pole + 2-pole for control signal); suitable for 5-core or 10-core wired trunking rail or luminaire insert with ECG DALI or ECG 1...10V with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired rail  
 • with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no.  
OSRAM**

**Order no.  
Siteco**

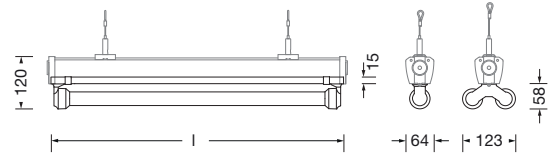
Pure white

Light source	System size	Weight [kg]	Order no. OSRAM	Order no. Siteco
1x T16 35/49/80 W	G5 5x SE	1495	4039806860361	5TS30171Q
2x T16 35/49/80 W	G5 5x SE	1495	4039806860385	5TS30172Q

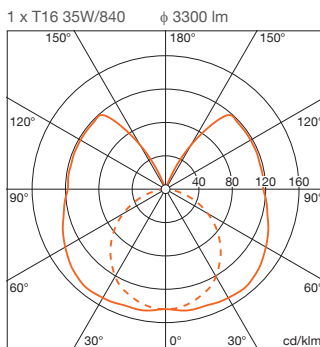
- please order Modario® trunking rail separately
- please order additional optical accessories separately



T16  
G5



4039806861900  
5TS40171Q



$\eta_{LB}$  102.4%  $\phi_d$  64%  $\phi_t$  36%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	12977	4244
L <sub>70</sub>	10896	6044
L <sub>65</sub>	10267	6592

UGR 26.2 20.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		100		200		500	
	Em(lx)							
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.6	2.8	3.3	5.6	8.1	14		
30 m <sup>2</sup>	2.1	3.3	4.2	6.6	11	16		
40 m <sup>2</sup>	2.7	4.0	5.4	8.0	13	20		
50 m <sup>2</sup>	3.1	4.6	6.3	9.2	16	23		
75 m <sup>2</sup>	4.2	5.8	8.4	12	21	29		
100 m <sup>2</sup>	5.5	7.3	11	15	27	37		
500 m <sup>2</sup>	22	26	45	52	112	130		

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Modario® IP64 | luminaire insert for T16 lamps with protection tube | open distribution**

Luminaire insert for quick mounting to trunking rail; can be positioned in system size 299mm  
 — open distribution, wide range of optical accessories available  
 — with ECG Multiwatt

- sheet steel housing, galvanized, pure white (similar to RAL 9010); protection tube of PC, twist-lock catch for trunking rail quick mounting with metal clips
- protection rating: IP64
- insulation class: I

• system size: 1 system unit (1x SE) = 299mm

**Electrics**

Luminaire insert with ECG for operation on normal power supply; ready for connection with 3-pole connection system (3-pole + 2-pole for control signal); suitable for 5-core or 10-core wired trunking rail or luminaire insert with ECG DALI or ECG 1...10V with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired rail  
 • with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no. OSRAM**

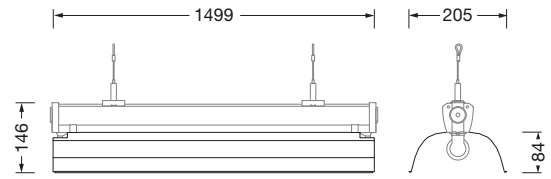
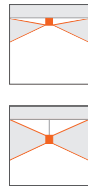
**Order no. Siteco**

Pure white

Light source	System size	Weight [kg]	ECG LLCG	Order no. OSRAM	Order no. Siteco
1x T16 35/49/80 W	G5 5x SE	1.2	Multi	4039806861900	5TS40171Q
2x T16 35/49/80 W	G5 5x SE	1.7	Multi	4039806861917	5TS40172Q

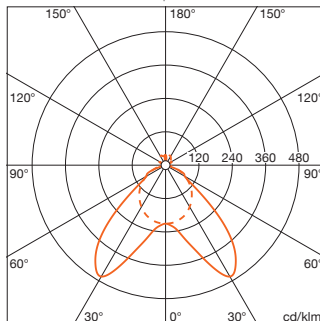
- please order Modario® trunking rail separately
- please order additional optical accessories separately





4039806860385 + 4050737017303  
5TS30172Q + 5TS58320Q

2 x T16 49W/840  $\phi$  8600 lm



$\eta_{LB}$  98.4%  $\phi_{\downarrow}$  95%  $\phi_{\uparrow}$  5%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	662	2875
L <sub>70</sub>	3822	4076
L <sub>65</sub>	5070	4507

UGR 20.9 23.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.4	0.8	0.8	1.7	2.0	4.2
30 m <sup>2</sup>	0.6	1.0	1.3	2.0	3.2	5.1
40 m <sup>2</sup>	0.8	1.2	1.6	2.4	3.9	5.9
50 m <sup>2</sup>	0.9	1.4	1.9	2.7	4.6	6.8
75 m <sup>2</sup>	1.3	1.8	2.7	3.6	6.7	8.9
100 m <sup>2</sup>	1.7	2.2	3.4	4.4	8.4	11
500 m <sup>2</sup>	7.4	8.3	15	17	37	41

Maintenance factor 0.8

Rh = Lh

**Modario® IP64 | highly reflective reflector (MIRO®)**  
direct extremely wide distribution with self-cleaning effect

Reflector for quick mounting to luminaire insert

— highly reflective reflector (MIRO®), matt, direct extremely wide distribution; with self-cleaning effect

- aluminum reflector, satin matt outside, high-gloss inside
- attachment to twist-lock catch of luminaire insert

with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	$\frac{l}{[mm]}$	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
1/2x T16 35/49/80 W	5x SE	1495	0.7	4050737017303	5TS58320Q

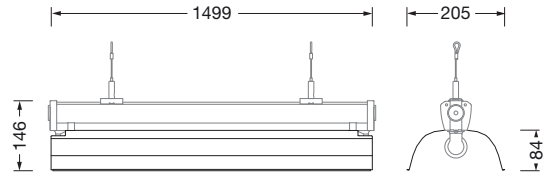
— please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

**Mandatory accessories (for details see page 8.112)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, white	1 set = 2 pieces	0.1	4039806858573	5TS90562
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907103	5TS90572

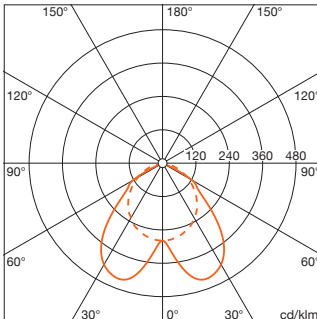
**Accessories (for details see page 8.112)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver, white, for 1/2x T16 35/49/80W	0.2	4039806861559	5TS50082Q



4039806860361 + 4050737015996  
5TS30171Q + 5TS58120Q

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  102.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	21	1310
L <sub>70</sub>	93	1915
L <sub>65</sub>	1050	2137

UGR 16.9 20.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.0	1.7	2.0	3.5	4.9	8.7
30 m <sup>2</sup>	1.4	2.2	2.7	4.4	6.8	11
40 m <sup>2</sup>	1.8	2.6	3.5	5.3	8.9	13
50 m <sup>2</sup>	2.1	3.0	4.2	6.1	11	15
75 m <sup>2</sup>	2.9	4.1	5.9	8.1	15	20
100 m <sup>2</sup>	3.9	5.0	7.8	10	19	25
500 m <sup>2</sup>	17	19	35	39	87	97

Maintenance factor 0.8

Rh = Lh

**Modario® IP64 | highly reflective reflector (MIRO®)  
direct extremely wide distribution**

Reflector for quick mounting to luminaire insert

— highly reflective reflector (MIRO®), matt, direct extremely wide distribution

- aluminum reflector, satin matt outside, high-gloss inside
- attachment to twist-lock catch of luminaire insert

with trunking layout, overlapping occurs at joints, attachment with reflector connector

Light source	System size	$\frac{l}{d}$ (mm)	kg	Order no. OSRAM	Order no. Siteco
1/2x T16 35/49/80 W	5x SE	1495	0.7	4050737015996	5TS58120Q

— please order end-cap sets or connector for reflector separately (end cap: 1 set = 2 pieces; reflector connector: 1 set = 10 pieces, 2 connectors required per reflector joint)

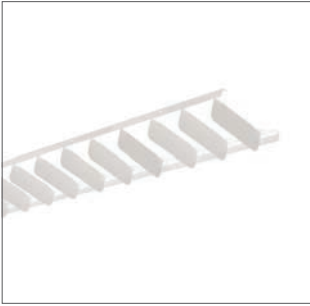
**Mandatory accessories (for details see page 8.112)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, white	1 set = 2 pieces	0.1	4039806858573	5TS90562
Reflector connector, transparent	1 set = 10 pieces	0.1	4039806907103	5TS90572

**Mandatory accessories (for details see page 8.112)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver, white, for 1/2x T16 35/49/80W	0.2	4039806861559	5TS50082Q

### Modario® IP64 optical accessories



#### Cross-blade louver, white

for insertion in the reflector | direct extremely wide distribution | aluminum, pure white

Color	System size	l (mm)	Order no. OSRAM	Order no. Siteco
White	5x SE	1495	4039806861559	5TS50082Q



#### End cap for reflector, direct extremely wide distribution

PC, signal white (RAL 9003) | installation via clipping

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	4039806858573	5TS90562



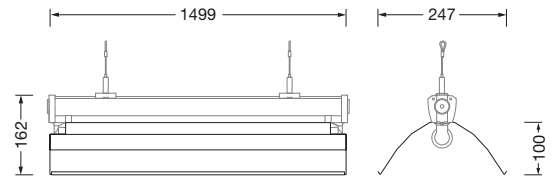
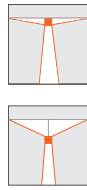
#### Connector for reflector, extremely wide distribution

plastic, transparent

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	1 set = 10 pieces	4039806907103	5TS90572

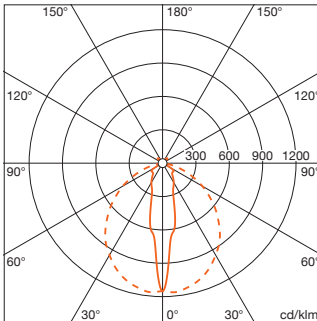
— 2 pieces required per reflector joint





4039806860361 + 4050737017327  
5TS30171Q + 5TS58330Q

1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  109.5%  $\phi_{\downarrow}$  93%  $\phi_{\uparrow}$  7%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3	5905
L <sub>70</sub>	0	10895
L <sub>65</sub>	26	12703

UGR 14.8 23.7  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.4	0.7	0.8	1.3	1.9	3.3
30 m <sup>2</sup>	0.7	1.0	1.5	2.0	3.7	5.0
40 m <sup>2</sup>	0.9	1.2	1.8	2.4	4.5	5.9
50 m <sup>2</sup>	1.1	1.4	2.2	2.8	5.4	6.9
75 m <sup>2</sup>	1.7	2.0	3.3	3.9	8.3	9.8
100 m <sup>2</sup>	1.9	2.4	3.9	4.8	9.7	12
500 m <sup>2</sup>	8.8	9.7	18	19	44	48

Maintenance factor 0.8 Rh = Lh + 0.5 m

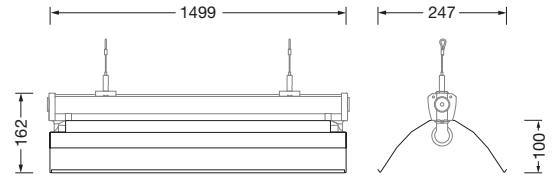
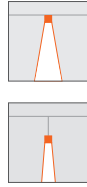
**Modario® IP64 | highly reflective reflector (MIRO®)**  
**direct extremely narrow distribution with self-cleaning effect**

Reflector for quick mounting to luminaire insert  
— highly reflective reflector (MIRO®), high-gloss, direct extremely narrow distribution; with self-cleaning effect; optimized for highbay racking

- aluminum reflector, satin matt outside, high-gloss inside
- attachment to twist-lock catch of luminaire insert

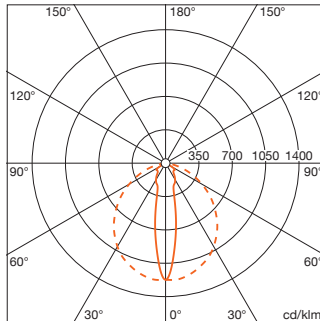
with trunking arrangements, overlapping occurs at joints

Light source	System size	$\frac{l}{[mm]}$	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
1x T16 35/49/80 W	5x SE	1495	0.6	4050737017327	5TS58330Q



4039806860361 + 4050737019277  
5TS30171Q + 5TS58130Q

1 x T16 80W/840  $\phi$  6150 lm



$\eta_{LB}$  104%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1	6892
L <sub>70</sub>	0	12072
L <sub>65</sub>	18	13777

UGR 14.3 24.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.4	0.7	0.7	1.3	1.8	3.3
30 m <sup>2</sup>	0.8	0.9	1.7	1.9	4.2	4.6
40 m <sup>2</sup>	0.9	1.2	1.7	2.3	4.3	5.8
50 m <sup>2</sup>	1.1	1.4	2.1	2.7	5.3	6.8
75 m <sup>2</sup>	1.9	1.9	3.7	3.7	9.3	9.4
100 m <sup>2</sup>	1.9	2.4	3.9	4.7	9.7	12
500 m <sup>2</sup>	9.0	9.8	18	20	45	49

Maintenance factor 0.8

Rh = Lh

**Modario® IP64 | highly reflective reflector (MIRO®)**  
**direct extremely narrow distribution**

Reflector for quick mounting to luminaire insert  
 — highly reflective reflector (MIRO®), high-gloss, direct extremely narrow distribution; optimized for highbay racking

- aluminum reflector, satin matt outside, high-gloss inside
- attachment to twist-lock catch of luminaire insert

with trunking arrangements, overlapping occurs at joints

**Light source**

1x T16 35/49/80 W

**System size**

5x SE



1495



0.7

**Order no.**

**OSRAM**

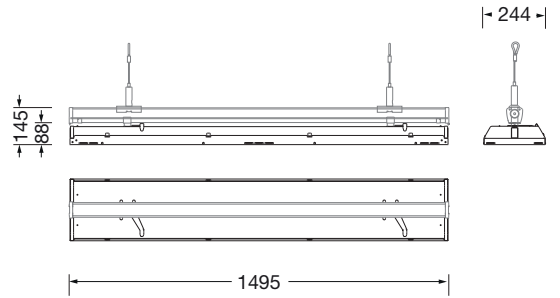
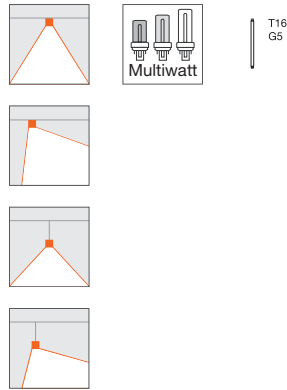
4050737019277

**Order no.**

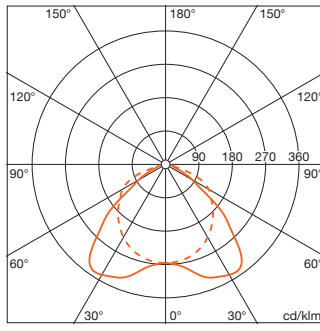
**Siteco**

5TS58130Q





4050737073118  
5TS48271Q  
1 x T16-I 80W/840 (Amalgam)  
φ 6800 lm



η<sub>LB</sub> 86.5%   φ<sub>d</sub> 100%   φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2383	1365
L <sub>70</sub>	1958	5263
L <sub>65</sub>	2937	6030

UGR 19.9   21  
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		100		200		500	
	Lh(m)	Em(lx)	Lh(m)	Em(lx)	Lh(m)	Em(lx)	Lh(m)	Em(lx)
20 m <sup>2</sup>	3.0	0.6	5.0	1.0	3.0	1.1	5.0	2.8
30 m <sup>2</sup>	3.0	0.8	5.0	1.3	3.0	1.7	5.0	4.1
40 m <sup>2</sup>	3.0	1.0	5.0	1.6	3.0	2.1	5.0	5.2
50 m <sup>2</sup>	3.0	1.2	5.0	1.8	3.0	2.5	5.0	6.2
75 m <sup>2</sup>	3.0	1.8	5.0	2.4	3.0	3.6	5.0	8.9
100 m <sup>2</sup>	3.0	2.3	5.0	2.9	3.0	4.6	5.0	11
500 m <sup>2</sup>	10	10	11	11	20	20	23	51

Maintenance factor 0.8   Rh = Lh

**Modario® IP64 | trunking luminaire**  
**direct wide or asymmetric distribution | with HDP® cover**

Trunking luminaire for quick mounting to trunking rail; can be positioned in system size 299mm  
 — with aluminum highly reflective reflector (MIRO®), direct wide or direct asymmetric distribution; cover with HDP® technology for glare reduction and for very good vertical illuminance levels

- with ECG Multiwatt
- sheet steel housing, galvanized, plastic end caps, housing and end caps pure white (similar to RAL 9010); galvanized steel cover frame; HDP® cover of PMMA
- protection rating: IP64
- insulation class: I

• system size: 1 system unit (1x SE) = 299mm

**Electrics**

Trunking luminaire for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail  
 • with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**System size**



**Order no. OSRAM**

**Order no. Siteco**

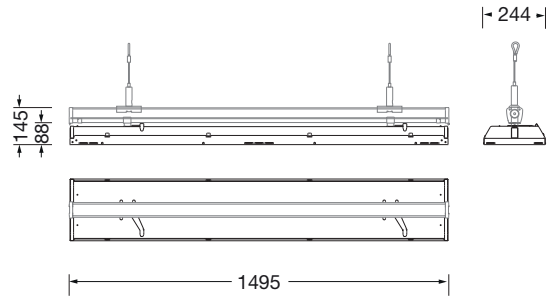
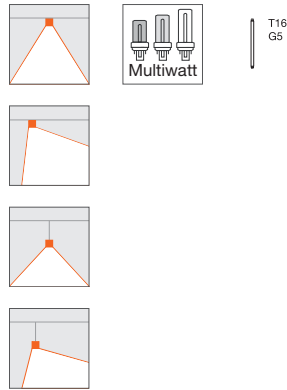
asymmetric distribution

1x T16 35/49/80 W	G5	5x SE	1495	7.6	Multi	4050737073163	5TS48471Q
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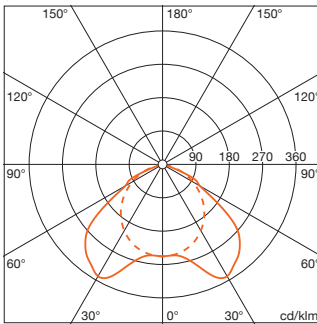
symmetric distribution

1x T16 35/49/80 W	G5	5x SE	1495	7.6	Multi	4050737073118	5TS48271Q
2x T16 35/49/80 W	G5	5x SE	1495	7.8	Multi	4050737073125	5TS48272Q

- please order Modario® trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections l<sub>max</sub> = 3.5m



4050737072647  
5TS30271Q  
1 x T16-I 80W/840 (Amalgam)  
φ 6800 lm



η<sub>LB</sub> 90.1%   φ<sub>d</sub> 100%   φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	836	1596
L <sub>70</sub>	2613	3346
L <sub>65</sub>	5193	3913

UGR 21.1   22.2  
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20				500	
	100		200		500	
Em(lx)	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.6	1.1	1.1	2.2	2.8	5.4
30 m <sup>2</sup>	0.8	1.3	1.7	2.7	4.2	6.7
40 m <sup>2</sup>	1.0	1.6	2.1	3.2	5.2	8.0
50 m <sup>2</sup>	1.2	1.8	2.5	3.6	6.2	9.1
75 m <sup>2</sup>	1.8	2.4	3.6	4.8	8.9	12
100 m <sup>2</sup>	2.2	2.9	4.5	5.9	11	15
500 m <sup>2</sup>	9.8	11	20	22	49	55

Maintenance factor 0.8   Rh = Lh

**Modario® IP64 | trunking luminaire**  
**direct wide or asymmetric distribution | with transparent cover**

Trunking luminaire for quick mounting to trunking rail; can be positioned in system size 299mm  
 — with highly reflective aluminum reflector (MIRO®), high-gloss for very good vertical illuminance levels, direct wide or direct asymmetric distribution; with transparent cover

- with ECG Multiwatt
- sheet steel housing, galvanized, plastic end caps, housing and end caps pure white (similar to RAL 9010); galvanized steel cover frame; cover of toughened safety glass or PMMA
- protection rating: IP64
- insulation class: I
- protection symbol: D

• system size: 1 system unit (1x SE) = 299mm

**Electrics**

Trunking luminaire for operation on normal power supply; ready for connection with 3-pole connection system; suitable for 5-core or 10-core wired trunking rail  
 • with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**

System size I [mm] kg

Order no. OSRAM   Order no. Siteco

cover panel, PMMA, asymmetric distribution

1x T16 35/49/80 W	G5	5x SE	1495	7.7	Multi	4050737073064	5TS40471Q
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cover panel, toughened safety glass, asymmetric distribution

1x T16 35/49/80 W	G5	5x SE	1495	9.0	Multi	4050737073026	5TS30471Q
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cover panel, PMMA, symmetric distribution

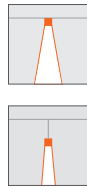
1x T16 35/49/80 W	G5	5x SE	1495	7.6	Multi	4050737072159	5TS40271Q
2x T16 35/49/80 W	G5	5x SE	1495	7.6	Multi	4050737073057	5TS40272Q

cover panel, toughened safety glass, symmetric distribution

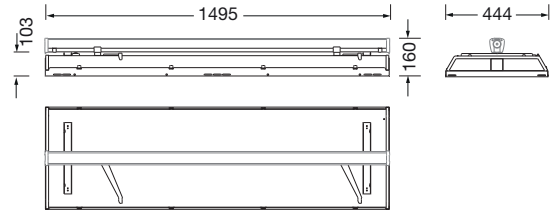
1x T16 35/49/80 W	G5	5x SE	1495	8.9	Multi	4050737072647	5TS30271Q
2x T16 35/49/80 W	G5	5x SE	1495	8.9	Multi	4050737072678	5TS30272Q

- please order Modario® trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections l<sub>max</sub> = 3.5m

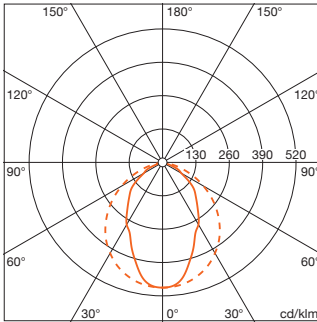




T16  
G5



4050737096049  
5LS16174QM  
4 x T16-I 80W/840 (Amalgam)  
φ 27200 lm



η<sub>LB</sub> 93%   φ<sub>d</sub> 100%   φ<sub>t</sub> 0%

Luminance values (cd/m²)		
	C 0/180	C 90/270
L <sub>80</sub>	1200	5938
L <sub>70</sub>	4737	13087
L <sub>65</sub>	7579	15499

UGR 21   24.5  
X 4H Y 8H ρ 70/50/20 S 0.25H

**Modario® IP64 | highbay luminaire**  
**4-lamp | direct narrow distribution | with transparent cover**

T16 highbay luminaire for mounting to trunking rail; can be positioned in system size 299mm

- with highly reflective aluminum reflector (MIRO®), matt, narrow distribution; with transparent cover
- with OSRAM industrial ECG Multiwatt, for one or two circuits
- sheet steel housing, galvanized, end caps of PBT, housing and end caps pure white (similar to RAL 9010); galvanized steel cover frame; cover of PMMA

- protection rating: IP64
- insulation class: I
- impact resistance: IK08
- service life (ECG): up to 100,000h depending on ambient temperature
- OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps: for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

Highbay luminaire wired ready for connection, with one or two circuits depending on version:

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for two circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail

- phase pre-selection not possible



**No. of luminaires in room**

Reflection factors 70/50/20

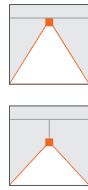
Em(lx)	100				200				500				
	Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0
200 m²	1.2	1.4	2.5	2.9	6.2	7.2							
300 m²	1.7	2.0	3.5	3.9	8.7	9.9							
500 m²	2.7	3.0	5.4	6.0	14	15							
750 m²	3.9	4.2	7.7	8.4	19	21							
1000 m²	5.0	5.4	10	11	25	27							
1500 m²	7.3	7.7	15	15	37	39							
2000 m²	9.5	10	19	20	48	50							

Maintenance factor 0.8

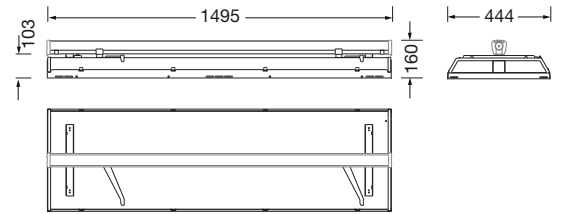
R<sub>h</sub> = L<sub>h</sub>

Light source	System size	Order no. OSRAM	Order no. Siteco
cover panel, PMMA			
4x T16 35/49/80 W	G5 5x SE	4050737096049	5LS16174QM
4x T16 35/49/80 W	G5 5x SE	4050737095608	5LS161D4QM
4x T16 35/49/80 W	G5 5x SE	4050737096025	5LS16164QM

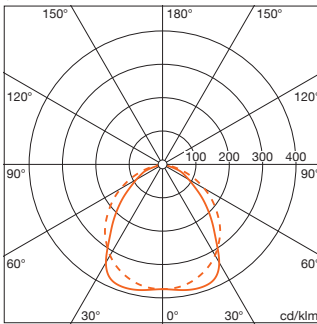
- please order lamps separately (OSRAM system guarantee in combination with selected lamps: OSRAM LUMILUX T5)
- please order Modario® trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections l<sub>max</sub> = 3.5m



T16  
G5



4050737095646  
5LS16274QM  
4 x T16-I 80W/840 (Amalgam)  
φ 27200 lm



η<sub>LB</sub> 93.1%   φ<sub>d</sub> 100%   φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1168	5147
L <sub>70</sub>	6897	10561
L <sub>65</sub>	7806	12275

UGR 21.6   24.3  
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20					
	100		200		500	
Em(lx)	6.0	8.0	6.0	8.0	6.0	8.0
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.3	1.5	2.5	3.0	6.3	7.4
300 m <sup>2</sup>	1.8	2.0	3.5	4.0	8.8	10
500 m <sup>2</sup>	2.7	3.0	5.5	6.0	14	15
750 m <sup>2</sup>	3.9	4.2	7.8	8.5	20	21
1000 m <sup>2</sup>	5.1	5.4	10	11	25	27
1500 m <sup>2</sup>	7.3	7.8	15	16	37	39
2000 m <sup>2</sup>	9.6	10	19	20	48	50

Maintenance factor 0.8   Rh = Lh

**Modario® IP64 | highbay luminaire**  
**4-lamp | direct wide or extremely wide distribution | with transparent cover**

T16 highbay luminaire for mounting to trunking rail; can be positioned in system size 299mm

- with highly reflective aluminum reflector (MIRO®), matt, wide or extremely wide distribution via adjustment of socket; with transparent cover
- with OSRAM industrial ECG Multiwatt, for one or two circuits
- sheet steel housing, galvanized, end caps of PBT, housing and end caps pure white (similar to RAL 9010); galvanized steel cover frame; cover of PMMA

- protection rating: IP64
- insulation class: I
- impact resistance: IK08
- service life (ECG): up to 100,000h depending on ambient temperature
- OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps: for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

- system size: 1 system unit (1x SE) = 299mm

**Electrics**

Highbay luminaire wired ready for connection, with one or two circuits depending on version:

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system (3-pole + 2-pole for control signal); suitable for 10-core wired trunking rail

- with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for two circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 10-core wired trunking rail

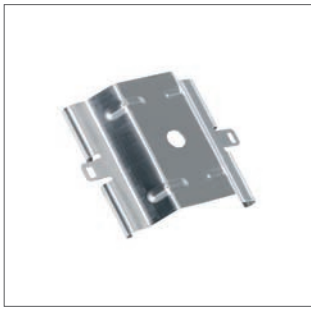
- phase pre-selection not possible



Light source	System size	Order no. OSRAM	Order no. Siteco
cover panel, PMMA			
4x T16 35/49/80 W	G5 5x SE 1495 14.7 Multi	4050737095646	5LS16274QM
4x T16 35/49/80 W	G5 5x SE 1495 14.7 Multi DALI	4050737095684	5LS162D4QM
4x T16 35/49/80 W	G5 5x SE 1495 14.7 Multi 1...10V	4050737096087	5LS16264QM

- please order lamps separately (OSRAM system guarantee in combination with selected lamps: OSRAM LUMILUX T5)
- please order Modario® trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail sections l<sub>max</sub> = 3.5m

## Modario® IP64 – mounting accessories for trunking rail



### Ceiling mounting

made of spring steel V2A, glossy | installation by snap-on | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806505668	5LS91101EA



### Ceiling mounting with caddy clip

made of spring steel V2A, glossy | installation by snap-on | load capacity: 16kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806558206	5TR90142



### Wire suspension with loop

with height adjustment | mounting bracket of spring steel V2A, glossy | installation by snap-on | wire: D = 1.5mm | load capacity: 20kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	H ≤ 2m	4039806505354	5TR901302

— without ceiling-side attachment (ceiling hook on site)



### Wire suspension with caddy clip

with height adjustment | mounting bracket of spring steel V2A, glossy; caddy clip galvanized | installation by snap-on | wire: D = 1.5mm | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	H ≤ 2m	4039806505378	5TR901322



### Wire suspension with canopy

with height adjustment | mounting bracket of spring steel V2A, glossy | installation by snap-on | wire length l = 2m | wire: D = 1.2mm | load capacity: 12kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
with white canopy			
without terminal	H ≤ 2m	4039806505361	5TR901312
with terminal <sup>1)</sup>	H ≤ 2m	4039806545855	5TR901332

with silver canopy			
without terminal	H ≤ 2m	4039806558244	5TR961312
with terminal <sup>1)</sup>	H ≤ 2m	4039806558251	5TR961332

1) with 5 terminals, 1-pole, max. 2.5mm<sup>2</sup>



### Wire suspension with ceiling sheath

with height adjustment (luminaire side) | with cylindrical ceiling attachment element, nickel-plated | mounting bracket of spring steel V2A; installation by snap-on | wire: D = 1.5mm | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	$H \leq 2m$	4050737029030	5TR901342



### Chain suspension for trunking rail

rail side | safety hooks with height compensation | installation by snap-on | mounting bracket of spring steel V2A, glossy | steel safety hooks, galvanized | load capacity: 30kg

Designation	Order no. OSRAM	Order no. Siteco
Chain suspension	4039806505347	5TR9012

— without chain

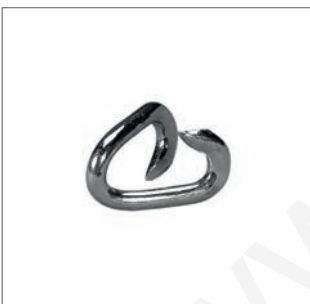


### Knotted-link chain

link<sub>inside</sub> 5.6 x 31mm | load capacity: 40kg

Designation	Order no. OSRAM	Order no. Siteco
Knotted-link chain, galvanized	4039806184290	5LY9001
Knotted-link chain, V2A	4039806184313	5LY9002

— Chain: per meter



### Safety link

link<sub>inside</sub> 5 x 15mm | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Safety link, V2A	4039806184368	5LY9004

The weight of the continuous row (depending on design and configuration) and the load capacity of the suspensions determine the number of attachment points.

If there are additional loads (such as spotlights), additional suspensions are needed. In this case, the maximum permissible distance between two attachment points and the maximum permissible length of the self-supporting rail end must not be exceeded.

- maximum permissible distance between two attachment points:  $l_{max} = 3.5m$
- maximum permissible length of self-supporting rail end:  $l_{a,max} = 0.8m$

**In trunking luminaire (5TS302... | 5TS304... | 5TS402... | 5TS404... | 5TS482... | 5TS484...)** |

**in highbay luminaire (5LS161... | 5LS162)**

- at least one attachment point per luminaire:  $l_{max} = 1.5m$
- maximum distance in unequipped rail:  $l_{max} = 3.5m$

## DUS<sup>®</sup> IP20/IP40 trunking system



The DUS<sup>®</sup> IP20 trunking system is based upon a variable modular system principle that is able to adapt flexibly to complex lighting tasks. It consists of two basic elements: a 5-core or 7-core wired trunking rail and the open distribution light inserts for T26 or T16 fluorescent lamps. This basis can be extended with further system elements such as socket outlet modules, tracks and fixed inserts. All components have been designed for 307mm system dimensions and can therefore be combined according to needs with IP20.

Various light effects are created with different optical components such as specular reflectors and louver inserts. A high-output power module for especially ergonomic lighting with four T16 lamps and brilliant HDP<sup>®</sup> prismatic optics is also available. All system components can be combined without the use of tools. X, T and L connectors expand the system's application range.

Rapid advances in LED technology lead to permanent improvements in energy efficiency. We utilize this with these luminaires to reduce power consumption with constant luminous flux. The latest specific values can be found in the photometric report of each product and in the current download files of the lighting planning data.



### Housing

Robust trunking rail, luminaire insert and gear tray of sheet steel, pure white (similar to RAL 9010) | reflector of sheet steel or aluminum | mounting of luminaire insert and reflector and electrical connection of insert in trunking rail without tools, in one work step | mechanical locking with simple, easy-to-use twist-lock catches | twist-lock catches entirely of metal with color-accentuated plastic cladding, for secure fastening of insert and reflector in the trunking rail | large mounting distances of up to 3.5m with robust metal connection elements

### Electrics

Trunking rail and luminaire insert wired ready for connection  
**Trunking rail** with terminal, max. 2.5mm<sup>2</sup>, and 5x 2.5mm<sup>2</sup> or 7x 2.5mm<sup>2</sup> through-wiring sockets at intervals of 307mm for connection of inserts in the trunking rail

**Luminaire insert** with 3-pole connection system, suitable for 5-core or 7-core wired trunking rail (ECG DALI and ECG 1...10V: 3-pole + 2-pole for control signal, suitable for 7-core wired trunking rail) | 3-phase pre-selection via moving of contact pin prior to installation in rail

**3-phase track adapter insert** with 5-pole connection system (without phase selection), suitable for 5-core or 7-core wired trunking rail | for equipping with 1 or 2 conventional spotlights with universal track adapter

### Luminaire inserts with special function with ECG, optionally

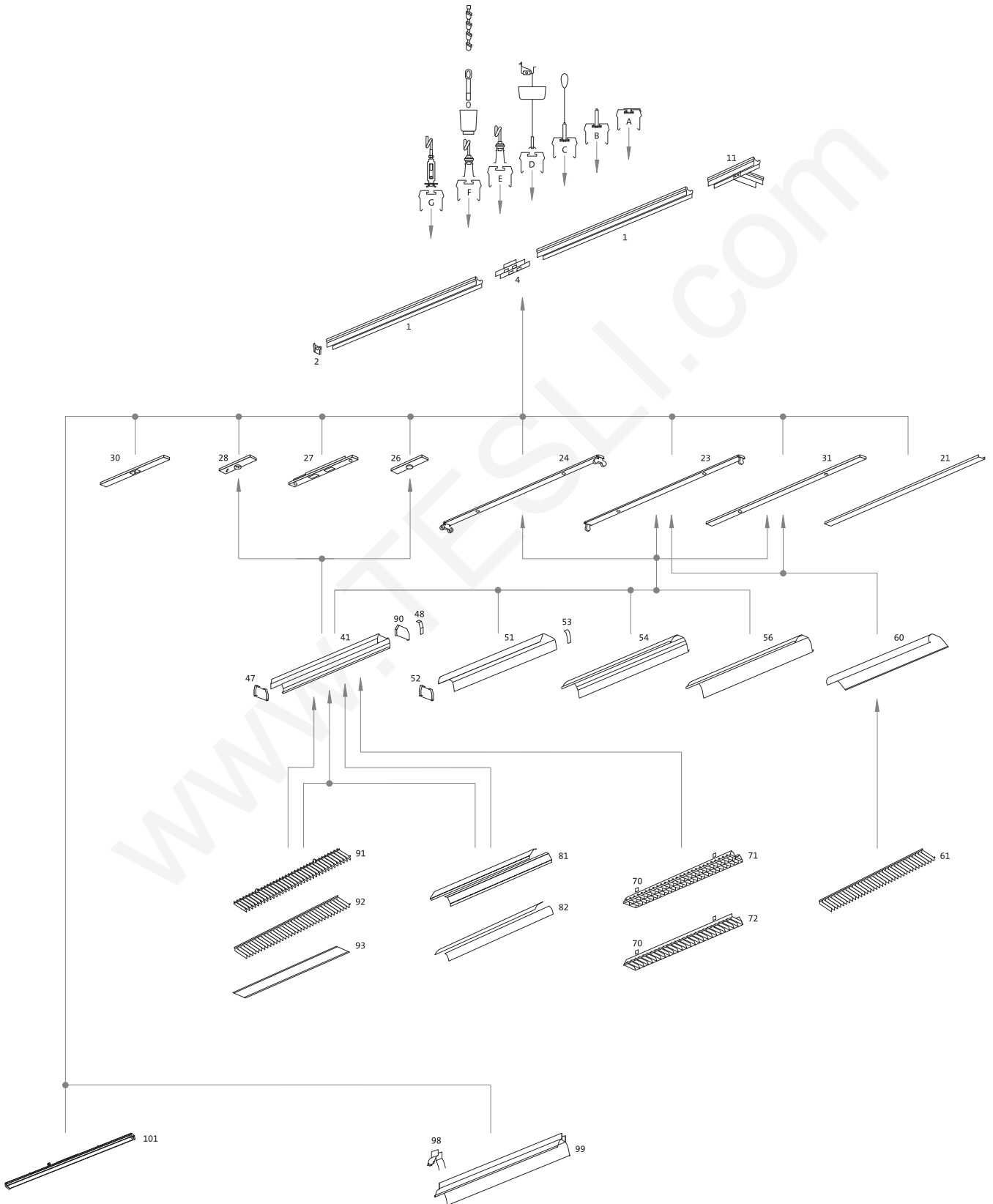
- with separate battery supply for operation on “normal mains” or via the integral separate battery supply
- with changeover relay for operation on “normal mains” or via a second, external power supply
- without changeover relay for permanent operation on a second, external power supply
- with E27 socket for operation with a second, external power supply

### Lighting technology

Luminaire inserts with open distribution | lighting technology can be supplemented by additional elements such as reflectors or louvers



# System overview DUS<sup>®</sup> T26





<b>Suspensions</b>			<b>Page</b>
A	Ceiling mounting		8.162
B	Wire suspension	without wire	8.162
C	Wire suspension	incl. wire 1m or 2m, with loop at top	8.162
D	Wire suspension	incl. wire 2m, canopy and connection terminal	8.163
E	Chain suspension	on rail; without chain	8.163
F	Chain suspension	on ceiling side with canopy; without chain	8.164
G	Chain suspension	on rail, flat; without chain	8.164
	Chain		8.164

**Trunking rails and accessories**

1	Trunking rail	5-core or 7-core   4x SE (1228mm)...15x SE (4605mm)	8.127
2	End cap for trunking rail, IP20		8.128
4	Connector for Trunking rail		8.128
11	X, T, L connector elements, steel	for right-angled latticed trunking arrangements	8.128

**Luminaire inserts and trunking rail covers**

21	Fixed cover, plastic	module length: 5x SE (1535mm), can be cut to suit	8.130
31	Fixed insert, metal	module length: 5x SE (1535mm), suitable for installation of reflectors	8.130
23	Luminaire insert, IP20, 1-lamp	module length: 4x SE (1228mm)   5x SE (1535mm)	8.132
24	Luminaire insert, IP20, 2-lamp	module length: 4x SE (1228mm)   5x SE (1535mm)	8.132
26	Luminaire insert E27	module length: 1x SE (307mm)	8.136
27	Track adapter insert	for 2 spotlights with univ. adapter   module length: 2x SE (614mm)	8.129
28	Socket insert	with internal micro-fuse   module length: 1x SE (307mm)	8.130
98	Refurbishing and mounting set	Hexal®-a in DUS® trunking rail	8.200
99	Hexal®-a luminaire module		8.185

**LED luminaire inserts**

101	LED refurbishment kit	module length: 5x SE (1535mm)   wide distribution	8.131
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**Light sensor insert/constant light control**

30	Light sensor insert	module length: 2x SE (614mm)	8.161
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**Reflectors, aluminum | Accessories**

51	Specular batwing reflector, aluminum	wide distr. (batwing light distribution)   for 1-lamp and 2-lamp light source	8.138
52	End cap for batwing reflector		8.139
53	Connector for batwing reflector		8.139
60	Specular reflector (wallwasher), aluminum	direct asym. distribution (incl. end cap) for 1-lamp light source	8.141
61	Cross-blade louver, silver or white, for wallwasher		8.142
54	Specular reflector (single reflector), aluminum	direct wide distribution   for 1-lamp and 2-lamp light source	8.137
		direct extremely wide distribution   for 1-lamp and 2-lamp light source	8.137
		direct asymmetric distribution   for 1-lamp light source	8.137
56	Specular reflector (highbay racking), aluminum	extremely narrow distribution   for 1-lamp and 2-lamp light source	8.143

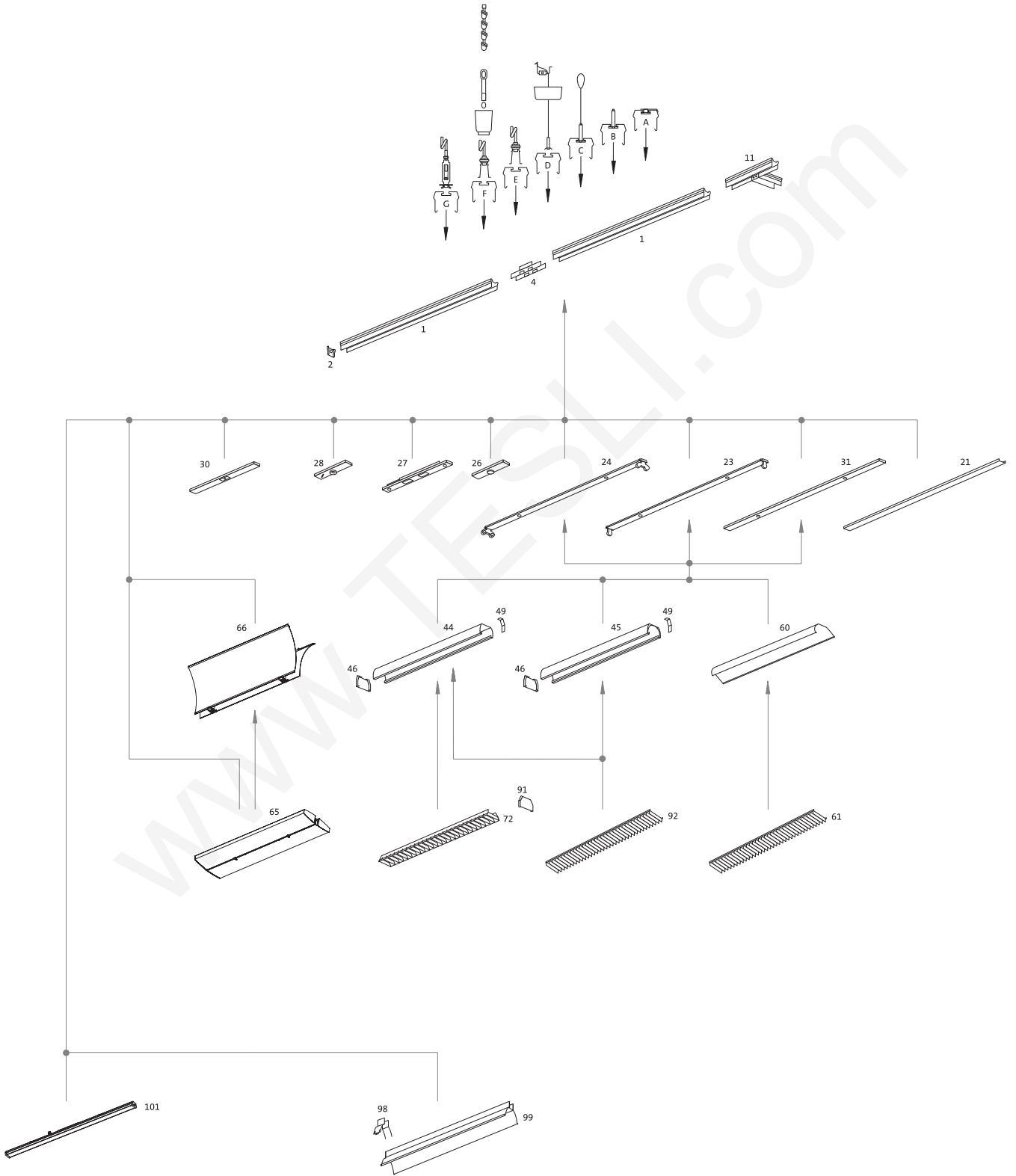
**Reflectors | Louvers, reflectors | Accessories**

41	Reflector, sheet steel	direct extremely wide distribution   direct/indirect extremely wide distribution	8.144
47	End cap for reflector		8.148
90	Intermediate reflector cap for reflector		8.148
48	Connector for reflector		8.148
71	BAP65 specular louver, high-gloss	for 1-lamp and 2-lamp light source	8.145
72	Ribbed aluminum louver, matt	for 1-lamp and 2-lamp light source	8.145
70	Louver catch		8.145
81	Reflector, high-gloss	medium distribution, for 1-lamp and 2-lamp light source	8.146
82	Reflector, high-gloss	wide distribution, for 1-lamp and 2-lamp light source	8.146
91	Ribbed aluminum louver, matt	for 1-lamp and 2-lamp light source	8.146
92	Cross-blade louver, white	for 1-lamp and 2-lamp light source	8.147
93	Prismatic cover	for 1-lamp and 2-lamp light source	8.147

System size: 1 system unit (1x SE): 307mm



# System overview DUS<sup>®</sup> T16



<b>Suspensions</b>			<b>Page</b>
A	Ceiling mounting		8.162
B	Wire suspension	without wire	8.162
C	Wire suspension	incl. wire 1m or 2m, with loop at top	8.162
D	Wire suspension	incl. wire 2m, canopy and terminals	8.163
E	Chain suspension	on rail; without chain	8.163
F	Chain suspension	on ceiling side with canopy; without chain	8.164
G	Chain suspension	on rail, flat; without chain	8.164
	Chain		8.164

### Trunking rails and accessories

1	Trunking rail	5-core or 7-core   4x SE (1228mm)...15x SE (4605mm)	8.127
2	End cap for trunking rail, IP20		8.128
4	Connector for trunking rail		8.128
11	X, T, L connector elements, steel	for right-angled latticed trunking rail arrangements	8.128

### Luminaire inserts and trunking rail covers

21	Fixed cover, plastic	module length: 5x SE (1535mm), can be cut to suit	8.130
31	Fixed insert, metal	module length: 5x SE (1535mm), suitable for installation of reflectors	8.130
23	Luminaire insert, IP20, 1-lamp	module length: 4x SE (1228mm)   5x SE (1535mm)	8.149
24	Luminaire insert, IP20, 2-lamp	module length: 4x SE (1228mm)   5x SE (1535mm)	8.149
26	Luminaire insert E27	module length: 1x SE (307mm)	8.136
27	Track adapter insert	for 2 spotlights with univ. adapter   module length: 2x SE (614mm)	8.129
28	Socket insert	with internal micro-fuse   module length: 1x SE (307mm)	8.130
98	Refurbishing and mounting set	Hexal®-a in DUS® trunking rail	8.200
99	Hexal®-a luminaire module		8.185

### LED luminaire inserts

101	LED refurbishment kit	module length: 5x SE (1535mm)   wide distribution	8.131
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### Power module

21	Power module, 4-lamp	open distribution   direct distribution   direct/indirect distribution	8.155
22	Light sail, white	for power module direct/indirect distribution	8.160

### Light sensor insert/constant light control

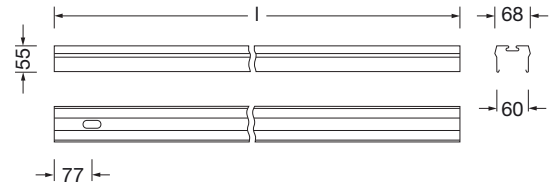
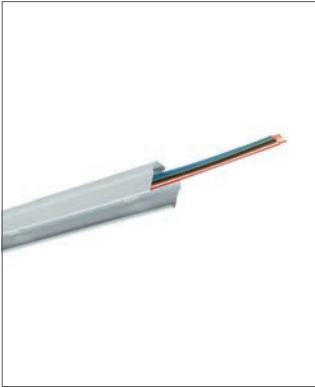
30	Light sensor insert	module length: 2x SE (614mm)	8.161
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### Reflectors | Accessories

60	Specular reflector (wallwasher), aluminum	dir. asym. distribution (incl. end cap) for 1-lamp light source	8.154
61	Cross-blade louver, silver or white, for wallwasher		8.154
45	Reflector, sheet steel; with reflector, aluminum	direct medium distribution   for 1-lamp and 2-lamp light source	8.150
		direct wide distribution   for 1-lamp and 2-lamp light source	8.150
		direct asymmetric distribution   for 1-lamp light source	8.150
44	Reflector, sheet steel, white inside	direct extremely wide distribution   for 1-lamp and 2-lamp light source	8.151
46	End cap for reflector		8.153
91	Intermediate cap for reflector		8.152
49	Connector for reflector		8.153
72	BAP65 specular louver, high-gloss	for 1-lamp and 2-lamp light source	8.152
92	Cross-blade louver	for 1-lamp and 2-lamp light source	8.152

System size: 1 system unit (1x SE): 307mm





**DUS® IP20  
trunking rail**

Trunking rail for ceiling surface or suspended mounting

- 5-core or 7-core wired, with connection for luminaire inserts and modules at distances of 307mm

- trunking rail of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP20 (with suitable accessories)
- insulation class: I



- system size: 1 system unit (1x SE) = 307mm

**Electrics**

Trunking rail wired ready for connection, with connection terminal at start of rail, 5x max. 2.5mm<sup>2</sup> or 7x max. 2.5mm<sup>2</sup>

- cable entry through top of rail of any rail element or via end cap
- with through-wiring, 5x2.5mm<sup>2</sup> or 7x 2.5mm<sup>2</sup>
- through-wiring to next trunking rail via serial plug-in terminals
- connection for luminaire inserts and modules at distances of 307mm
- cable routing for additional on-site installation (e.g. for multiple circuits) or in the trunking rail



System size			Order no. OSRAM	Order no. Siteco
with 5x 2.5mm <sup>2</sup> through-wiring				
4x SE	2.0	1228	4039806211774	5LJ90910U
8x SE	3.8	2456	4039806211811	5LJ90920U
12x SE	5.9	3684	4039806211859	5LJ90930U
5x SE	2.5	1535	4039806106087	5LJ90910E
10x SE	4.9	3070	4039806106155	5LJ90920E
15x SE	7.1	4605	4039806106261	5LJ90930E
with 7x 2.5mm <sup>2</sup> through-wiring				
4x SE	2.0	1228	4039806211798	5LJ90910U1
8x SE	3.8	2456	4039806211835	5LJ90920U1
12x SE	5.9	3684	4039806211873	5LJ90930U1
5x SE	2.5	1535	4039806137913	5LJ90910E1
10x SE	4.9	3070	4039806137937	5LJ90920E1
15x SE	7.1	4605	4039806137951	5LJ90930E1

— please order end-cap sets or connection elements separately

**For end-cap sets and other trunking rail accessories, see page 8.128 ff.  
For mounting accessories for trunking rail, see page 8.162 ff.**

## DUS® IP20 trunking rail accessories

### X, T, L trunking rail elements

for right-angled latticed trunking arrangements | sheet steel with plastic cover, pure white | with integrated connectors for mounting to rail | cable entry from above | including 7 x 2.5mm<sup>2</sup> through-wiring set and terminals for continuation of rail through-wiring | for suspended mounting | with height adjustment | load capacity of chain suspension: 20kg | protection rating: IP20

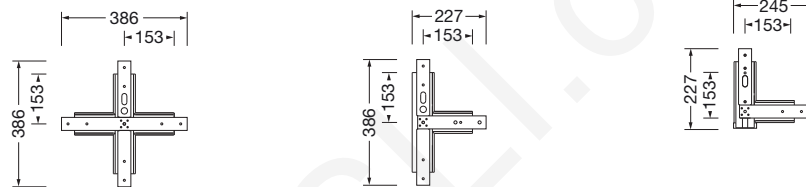
Designation	System size	Order no. OSRAM	Order no. Siteco
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X connector element	1x SE / 1x SE	4039806106032	5LJ90900XV
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T connector element	1x SE / 0.5x SE	4039806106193	5LJ90920XV
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L connector element	0.5x SE / 0.5x SE	4039806106322	5LJ90930XV
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- system size: 1x SE = 307mm
- without chain, please order suspension accessories separately
- with X and T elements, luminaire inserts can be installed in one direction away from the element



### End cap for trunking rail

for clipping to mounting rail | plastic, white | with push-out for cable entry | incl. cap for insulated termination of through-wiring | protection rating: IP20

Designation	PU	Order no. OSRAM	Order no. Siteco
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End cap	set of 2	4039806106100	5LJ90910XD
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- further cable entries available on upper rail side

### Connector for DUS® trunking rail

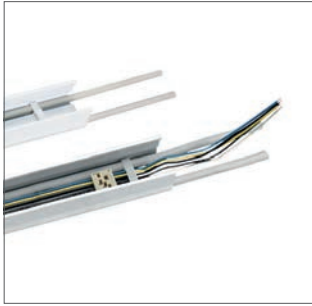
steel, galvanized | double screw connection ensures firm, flush-fit connection | self-supporting

Designation	Order no. OSRAM	Order no. Siteco
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Straight connector	4039806168108	5LJ90910XV
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- self-supporting connection, suspension in area of joint not necessary

## DUS® IP20 electrical accessories



### Cable retainer

for attachment of additional cables on or in the trunking rail | suitable for sheathed cable  $D \leq 13.5\text{mm}$  (e.g. NYM 5x 2.5mm<sup>2</sup>) or single-core cable

Designation	PU	Order no. OSRAM	Order no. Siteco
for one sheathed cable on the rail	set of 10	4039806000446	5LJ90810XY
for two sheathed cables or single-core cables in the rail	set of 10	4039806000378	5LJ90800XY

— recommended distance between retainers: 0.3m



### Supplementary terminal

for connecting additional cables | at start of rail elements (e.g. for multiple circuits)

### Terminal clip

required each time a terminal is clipped into the rail

Designation		Order no. OSRAM	Order no. Siteco
Terminal	5x max. 2.5mm <sup>2</sup> (L1, L2, L3, N, PE)	4039806271990	5LJ80005XK
Terminal	3x max. 2.5mm <sup>2</sup> (L1, N, PE)	4039806271983	5LJ80003XK
Terminal	2x max. 2.5mm <sup>2</sup> (L2, L3)	4039806271976	5LJ80002XK
Terminal clip		4039806270924	5LJ90900XY

## DUS® IP20 insert



### Track insert with 3-phase spot outlet

for mounting to trunking rail | can be positioned in module size 307mm | with 3-phase spot outlet for spotlights with universal track adapter\* | housing of sheet steel, pure white; twist-lock catches with metal clips for rapid fixing to trunking rail  
protection rating: IP20 | insulation class: I

Designation	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Track insert	2x SE	614	0.9	4039806000316	5LJ90800XB

— system size: 1 system unit (1x SE) = 307mm

\* for 2 spots, max. 2x 3A, weight max. 2x 5kg  
interval between mid-point of both spot outlets: a = 157mm



### Socket insert\*

for mounting to trunking rail | can be positioned in module size 307mm | safety socket | housing of sheet steel, pure white; twist-lock catches with metal clips for rapid fixing to trunking rail | protection rating: IP20 | insulation class: I

Designation	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Socket insert	1x SE	307	0.3	4039806000569	5LJ90812XK

— system size: 1 system unit (1x SE) = 307mm  
\* with internal micro-fuse (G6A/250V)



### Fixed insert, sheet steel, with twist-lock catches

for mounting to trunking rail | can be positioned in module size 307mm | housing of sheet steel, pure white; twist-lock catches\* with metal clips | protection rating: IP60 | insulation class: I

Designation	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Fixed insert	5x SE	1535	0.8	4039806166531	5LS90800ED

— system size: 1 system unit (1x SE) = 307mm  
\* with twist-lock catches (suitable for trunking with optically uninterrupted appearance, for installation of reflectors)



### Fixed cover, plastic

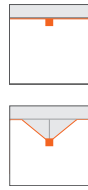
for mounting to rail | plastic\*, pure white

Designation	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Fixed cover	5x SE	1535	0.2	4039806000330	5LJ90830ED

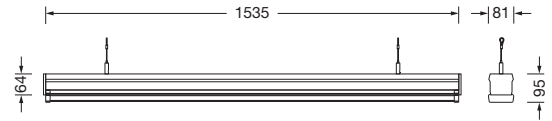
— system size: 1 system unit (1x SE) = 307mm  
\* can be cut to suit | for covering rail sections in which no insert has been installed



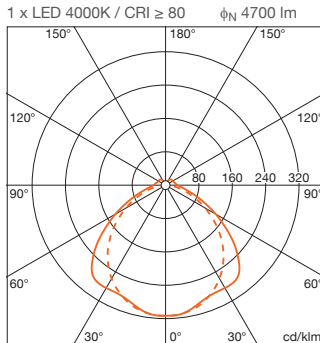




LED



4050737619132  
2LJ20271V



Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3541	5105
L <sub>70</sub>	4883	6730
L <sub>65</sub>	5846	7517

UGR 23 22.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	3.0	5.0	3.0	5.0	3.0
20 m <sup>2</sup>	0.8	1.4	1.6	2.8	4.0	7.1
30 m <sup>2</sup>	1.2	1.8	2.3	3.6	5.8	9.1
40 m <sup>2</sup>	1.5	2.2	2.9	4.3	7.3	11
50 m <sup>2</sup>	1.7	2.5	3.5	5.0	8.7	12
75 m <sup>2</sup>	2.5	3.3	4.9	6.6	12	16
100 m <sup>2</sup>	3.1	4.1	6.3	8.1	16	20
500 m <sup>2</sup>	14	15	27	30	68	76

Maintenance factor 0.8 Rh = Lh + 0.5 m

**DUS® IP20/40 | LED refurbishment kit wide distribution**

Luminaire insert LED refurbishment kit for mounting to trunking rail; can be positioned in module size 307mm  
 — with prismatic cover, direct wide distribution with ceiling illumination  
 — with ECG

- housing of aluminum, anodized; twist-lock catches with metal clips for rapid fixing to trunking rail; PMMA cover
- protection rating: IP20 (LED lamp compartment: IP40)
- insulation class: I
- temperature range: T<sub>a</sub> = -30...+40°C
- service life: up to 50,000h (L80 | B50)

- system size: 1 system unit (1x SE) = 307mm

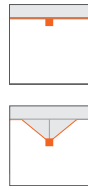
**Electrics**

Luminaire insert wired ready for connection, with 3-pole connection system  
 • suitable for 5-core or 7-core wired trunking rail  
 • 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

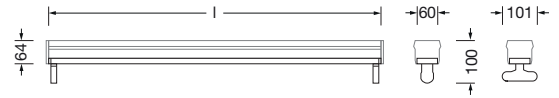


Light source	K	R <sub>a</sub>	lm	W SYSTEM	System size	l [mm]	kg	ECG LLOG	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	4700	36	5x SE	1535	2.0	ECG	4050737619132	2LJ20271V

— please order trunking rail separately

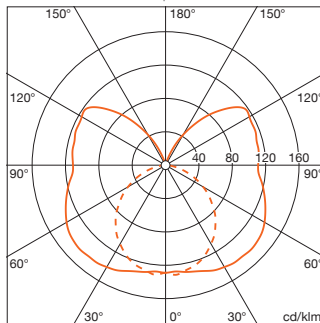


T26  
G13



4039806000033  
5LJ90871E

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  94.6%  $\phi_{\downarrow}$  65%  $\phi_{\uparrow}$  35%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	48024	4515
L <sub>70</sub>	26466	6252
L <sub>65</sub>	22262	6915

UGR 30.3 21.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	100	200	100	200	100	200
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.2	2.0	2.3	4.0	5.8	9.9
30 m <sup>2</sup>	1.5	2.4	3.0	4.7	7.6	12
40 m <sup>2</sup>	1.9	2.9	3.8	5.7	9.5	14
50 m <sup>2</sup>	2.2	3.3	4.5	6.5	11	16
75 m <sup>2</sup>	3.0	4.2	6.1	8.4	15	21
100 m <sup>2</sup>	3.9	5.2	7.8	10	20	26
500 m <sup>2</sup>	16	18	32	37	80	92

Maintenance factor 0.8 Rh = Lh + 0.5 m

### DUS® IP20 | luminaire insert for T26 lamp open distribution

Luminaire insert for quick mounting to trunking rail; can be positioned in module size 307mm  
 — open distribution; diverse optical accessories available  
 — with ECG

- sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catches with metal clips for rapid fixing to rail
- protection rating: IP20
- insulation class: I

• system size: 1 system unit (1x SE) = 307mm

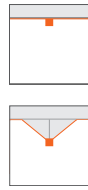
#### Electrics

Luminaire insert wired ready for connection, with 3-pole connection system  
 • suitable for 5-core or 7-core wired trunking rail (ECG 1...10V: 3-pole + 2-pole for control signal, suitable for 7-core wired trunking rail)  
 • 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

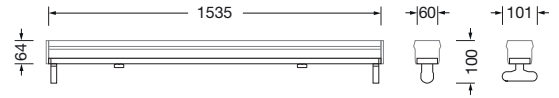


Light source	System size					Order no. OSRAM	Order no. Siteco
1x T26 36 W	4x SE	G13	1228	0.8	ECG	4039806000019	5LJ90871C
1x T26 36 W	4x SE	G13	1228	0.8	1...10V	4039806246523	5LJ90861C1
1x T26 58 W	5x SE	G13	1535	1.1	ECG	4039806000033	5LJ90871E
1x T26 58 W	5x SE	G13	1535	1.1	1...10V	4039806246547	5LJ90861E1
2x T26 36 W	4x SE	G13	1228	1.1	ECG	4039806000149	5LJ90872C
2x T26 36 W	4x SE	G13	1228	1.1	1...10V	4039806246660	5LJ90862C1
2x T26 58 W	5x SE	G13	1535	1.3	ECG	4039806000163	5LJ90872E
2x T26 58 W	5x SE	G13	1535	1.3	1...10V	4039806246684	5LJ90862E1

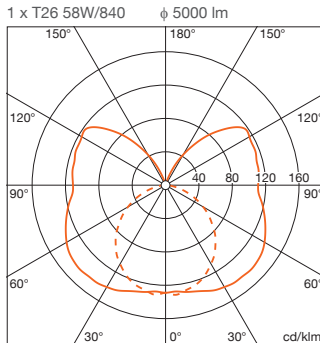
- please order trunking rail separately
- please order supplementary optics separately if required



T26  
G13



4039806373472  
5LJ90871ED3



Luminaire values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	48024	4515
L <sub>70</sub>	26466	6252
L <sub>65</sub>	22262	6915

UGR 30.3 21.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**DUS® IP20 | luminaire insert for T26 lamp  
open distribution | for operation on equivalent power supply  
(without changeover relay)**

Luminaire insert for quick mounting to trunking rail; can be positioned in module size 307mm  
 — open distribution; diverse optical accessories available  
 — with ECG, for permanent operation via equivalent power supply

- sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catches with metal clips for rapid fixing to rail
- protection rating: IP20
- insulation class: I

- system size: 1 system unit (1x SE) = 307mm

**Electrics**

Luminaire insert for permanent operation directly on external "equivalent power supply"  
 • wired ready for connection with 3-pole connection system; suitable for 7-core wired trunking rail  
 • "equivalent power supply" on cores >4< and >5< of rail wiring (without phase selection)

**Function**

The "equivalent power supply" is constantly in operation; the luminaire insert remains operative when mains power is disconnected

Detailed information: see data sheet



**No. of luminaires in room**

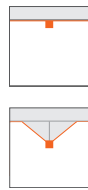
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.2	2.0	2.3	4.0	5.8	9.9
30 m <sup>2</sup>	1.5	2.4	3.0	4.7	7.6	12
40 m <sup>2</sup>	1.9	2.9	3.8	5.7	9.5	14
50 m <sup>2</sup>	2.2	3.3	4.5	6.5	11	16
75 m <sup>2</sup>	3.0	4.2	6.1	8.4	15	21
100 m <sup>2</sup>	3.9	5.2	7.8	10	20	26
500 m <sup>2</sup>	16	18	32	37	80	92

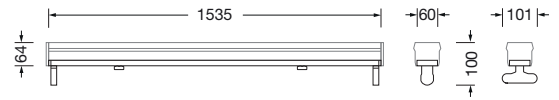
Maintenance factor 0.8 Rh = Lh + 0.5 m

Light source		System size	l [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	5x SE	1535	1.1	ECG	4039806373472	5LJ90871ED3
2x T26 58 W	G13	5x SE	1535	1.3	ECG	4039806373519	5LJ90872ED3

- please order trunking rail separately
- please order supplementary optics separately if required

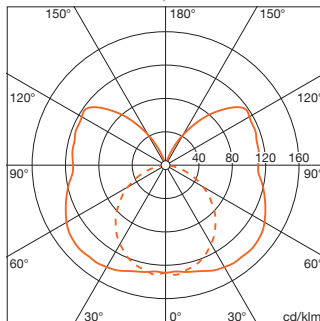


T26  
G13



4039806266149  
5LJ90871ED2

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  94.6%  $\phi_{\downarrow}$  65%  $\phi_{\uparrow}$  35%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	48024	4515
L <sub>70</sub>	26466	6252
L <sub>65</sub>	22262	6915

UGR 30.3 21.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	1.2	2.0	2.3	4.0	5.8	9.9
30 m <sup>2</sup>	1.5	2.4	3.0	4.7	7.6	12
40 m <sup>2</sup>	1.9	2.9	3.8	5.7	9.5	14
50 m <sup>2</sup>	2.2	3.3	4.5	6.5	11	16
75 m <sup>2</sup>	3.0	4.2	6.1	8.4	15	21
100 m <sup>2</sup>	3.9	5.2	7.8	10	20	26
500 m <sup>2</sup>	16	18	32	37	80	92

Maintenance factor 0.8 Rh = Lh + 0.5 m

### DUS® IP20 | luminaire insert for T26 lamp open distribution | with switching relay for supplementary supply via equivalent power supply

Luminaire insert for quick mounting to trunking rail; can be positioned in module size 307mm

- open distribution; diverse optical accessories available
- with ECG Multiwatt, for operation via “mains supply” or “equivalent power supply” via integrated changeover relay

- sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catches with metal clips for rapid fixing to rail
- protection rating: IP20
- insulation class: I

- system size: 1 system unit (1x SE) = 307mm

#### Electrics

Luminaire with integrated changeover relay for operation via mains supply or via a second, external power supply (equivalent supply)

- wired ready for connection, with 5-pole connection system (3-pole for mains supply + 2-pole for equivalent supply); suitable for 7-core wired trunking rail
- “equivalent power supply” on cores >4< and >5< of rail wiring
- with 3-phase pre-selection for mains supply via moving of contact pin prior to installation in trunking rail

#### Function

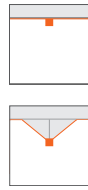
With disconnection of mains power, the changeover relay switches to the additional contacts for equivalent power supply; when this has been activated, the fluorescent lamp resumes operation

Detailed information: see data sheet

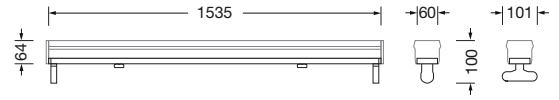


Light source		System size	I [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	5x SE	1535	1.3	ECG	4039806266149	5LJ90871ED2
2x T26 58 W	G13	5x SE	1535	1.3	ECG	4039806434333	5LJ90872ED2

- please order trunking rail separately
- please order supplementary optics separately if required

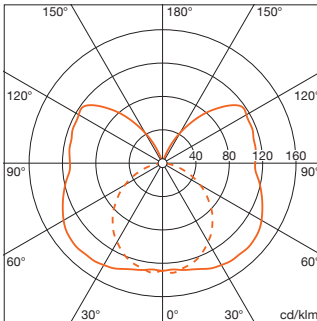


T26  
G13



4039806388056  
5LJ90871ED01

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  94.6%  $\phi_{\downarrow}$  65%  $\phi_{\uparrow}$  35%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	48024	4515
L <sub>70</sub>	26466	6252
L <sub>65</sub>	22262	6915

UGR 30.3 21.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**DUS® IP20 | luminaire insert for T26 lamp  
open distribution | with single battery**

Luminaire insert for quick mounting to trunking rail; can be positioned in module size 307mm

- open distribution; diverse optical accessories available
- with ECG, additionally with single battery

- sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catches with metal clips for rapid fixing to rail
- protection rating: IP20
- insulation class: I

- system size: 1 system unit (1x SE) = 307mm

**Electrics**

Luminaire insert for operation on normal mains or via the integral separate battery supply

- luminaire wired ready for connection, with 4-pole connection (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase)
- switched phase and unswitched phase must have same phase angle
- single battery for 1h operating duration with reduced luminous flux
- with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500		
	Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.2	2.0	2.3	4.0	5.8	9.9	
30 m <sup>2</sup>	1.5	2.4	3.0	4.7	7.6	12	
40 m <sup>2</sup>	1.9	2.9	3.8	5.7	9.5	14	
50 m <sup>2</sup>	2.2	3.3	4.5	6.5	11	16	
75 m <sup>2</sup>	3.0	4.2	6.1	8.4	15	21	
100 m <sup>2</sup>	3.9	5.2	7.8	10	20	26	
500 m <sup>2</sup>	16	18	32	37	80	92	

Maintenance factor 0.8

Rh = Lh + 0.5 m

Light source



Operating duration

System size



Order no. OSRAM

Order no. Siteco

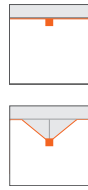
with single battery

Light source	Operating duration	System size	Weight [kg]	ECG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13 1h	5x SE	1535 1.5	ECG	4039806388056	5LJ90871ED01
2x T26 58 W	G13 1h	5x SE	1535 1.6	ECG	4039806388070	5LJ90872ED01

with single battery, for 7x 2.5mm<sup>2</sup> through-wiring

Light source	Operating duration	System size	Weight [kg]	ECG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13 1h	5x SE	1535 1.7	ECG	4039806414359	5LJ90871ED41
2x T26 58 W	G13 1h	5x SE	1535 1.8	ECG	4039806414373	5LJ90872ED41

- please order trunking rail separately
- please order supplementary optics separately if required



### DUS® IP20 | E27 insert open distribution

- E27 insert for quick mounting to trunking rail; can be positioned in module size 307mm
- open distribution; direct distribution reflector as accessory
  - with connection terminal
  - sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catches with metal clips for rapid fixing to rail
  - protection rating: IP20
  - insulation class: I



- system size: 1 system unit (1x SE) = 307mm

#### Electrics

- E27 insert for operation on a second, external power supply
- wired ready for connection with 3x max. 2.5mm<sup>2</sup> terminal
  - operation via additional wiring within trunking rail
  - wiring sets in correct length and required connection distance with single-core or sheathed cable (e.g. NYM) easily configured on site (for additional wiring, cable retainers, terminals and terminal clips are available as accessories)

Detailed information: see data sheet

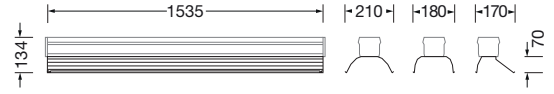
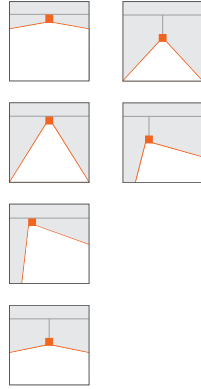


Light source		System size		Order no. OSRAM	Order no. Siteco
1x A60 max. 60 W	E27	1x SE	0.2	4039806000354	5LJ90800XK

- please order trunking rail separately
- please order components for additional wiring separately

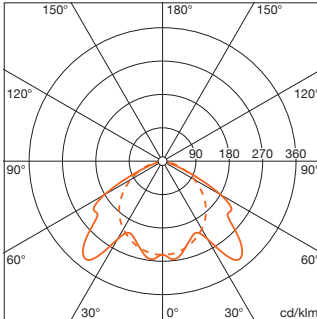
### Mandatory accessories (for details see page 8.129)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connection terminal, 3-pole, max. 2.5mm <sup>2</sup>		0.1	4039806271983	5LJ80003XK
Connection terminal, 5-pole, max. 2.5mm <sup>2</sup>		0.1	4039806271990	5LJ80005XK
Terminal clip		0.1	4039806270924	5LJ90900XY
Cable retainer, mounting on DUS trunking rail	set of 10	0.1	4039806000446	5LJ90810XY
Cable retainer, mounting in DUS trunking rail	set of 10	0.1	4039806000378	5LJ90800XY



4039806000033 + 4039806211712  
5LJ90871E + 5LJ14001ES1

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  85.4%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	117	2030
L <sub>70</sub>	2380	3148
L <sub>65</sub>	4478	3504

UGR 21.4 22.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.9	1.6	1.8	3.1	4.4	7.9
30 m <sup>2</sup>	1.2	2.0	2.4	3.9	6.1	9.8
40 m <sup>2</sup>	1.6	2.3	3.1	4.7	7.8	12
50 m <sup>2</sup>	1.8	2.7	3.6	5.3	9.1	13
75 m <sup>2</sup>	2.5	3.5	5.1	7.0	13	18
100 m <sup>2</sup>	3.3	4.3	6.6	8.6	16	22
500 m <sup>2</sup>	14	16	28	32	71	80

Maintenance factor 0.8

Rh = Lh

**DUS® IP20 | aluminum reflector for T26 lamps**  
**highly specular aluminum | direct wide, extremely wide or asymmetric distribution**

Specular aluminum reflector for quick mounting to luminaire insert  
— highly specular reflector, either direct wide, extremely wide or direct asymmetric distribution

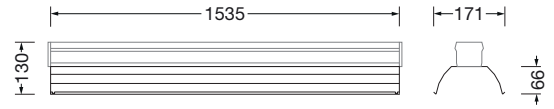
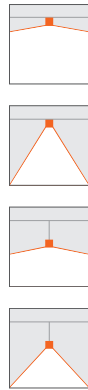
- reflector of aluminum, highly specular
- mounting via twist-lock catches of luminaire insert

- with trunking arrangements, overlapping occurs at joints



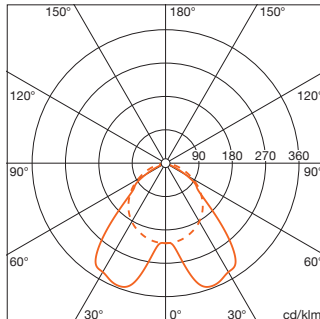
Light source	System size	$\frac{l}{h}$ [mm]	$\frac{W}{H}$ [kg]	Order no. OSRAM	Order no. Siteco
Reflector, direct wide distribution					
1/2x T26 58 W	5x SE	1535	0.9	4039806211736	5LJ14011ES1
Reflector, extremely wide distribution					
1/2x T26 58 W	5x SE	1535	0.8	4039806211712	5LJ14001ES1
Reflector, asymmetric distribution					
1x T26 58 W	5x SE	1535	0.8	4039806211750	5LJ14021ES1





4039806000033 + 4039806096579  
5LJ90871E + 5LJ14051EB0

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  80.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	0	1888
L <sub>70</sub>	60	2876
L <sub>65</sub>	1358	3200

UGR 17.1 21.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20			
	100		200	
Em(lx)	100	200	500	
Lh(m)	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.8	1.4	1.6	2.9
30 m <sup>2</sup>	1.1	1.9	2.3	3.7
40 m <sup>2</sup>	1.5	2.2	3.0	4.4
50 m <sup>2</sup>	1.8	2.5	3.5	5.1
75 m <sup>2</sup>	2.4	3.4	4.9	6.8
100 m <sup>2</sup>	3.3	4.2	6.5	8.4
500 m <sup>2</sup>	15	16	29	33

Maintenance factor 0.8 Rh = Lh

**DUS® IP20 | specular batwing reflector for T26 lamps  
aluminum, matt | direct wide distribution**

Specular aluminum reflector for quick mounting to luminaire insert  
 — semi-specular reflector, direct wide distribution with reduced luminance below the luminaire (batwing)

- reflector of aluminum, matt
- mounting via twist-lock catches of luminaire insert



Light source	System size	$\frac{l}{L}$ (mm)	$\frac{m}{kg}$	Order no. OSRAM	Order no. Siteco
Reflector	1/2x T26 58 W	5x SE	1535	0.5	4039806096579 5LJ14051EB0

— please order end caps and reflectors separately

**Mandatory accessories (for details see page 8.139)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap for specular batwing reflector	set of 2	0.1	4039806175014	5LJ14052XD
Connector for specular batwing reflector	set of 2	0.1	4039806175038	5LJ14055XD

**DUS® IP20 optical accessories**



**End cap for specular batwing reflector, wide distribution**

for clipping to reflector | plastic, white

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	set of 2	4039806175014	5LJ14052XD

— for batwing reflector 5LJ1405...

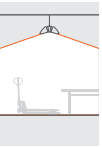


**Connector for specular batwing reflector, wide distribution**

for clipping to reflector joint | as covering and for alignment of reflectors with trunking arrangements | plastic, white

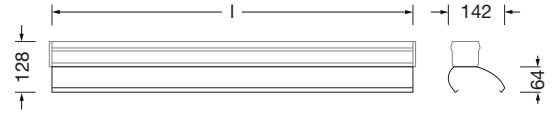
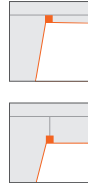
Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	set of 2	4039806175038	5LJ14055XD

— for batwing reflector 5LJ1405...  
 — 2 pieces required per joint

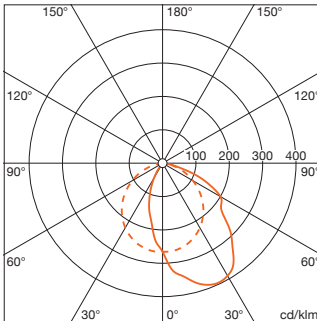


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4039806000033 + 4039806201959  
5LJ90871E + 5LJ14912R  
1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  68.7%  
 $I_{max}$  396 cd/klm at  $\gamma$  25°

**DUS® IP20 | wallwasher reflector for T26 lamps  
aluminum, matt | direct asymmetric distribution**

Specular aluminum reflector for quick mounting to luminaire insert  
— semi-specular wallwasher, asymmetric distribution; suitable for use with cross-blade louver

- reflector of aluminum, matt outside, semi-specular inside; plastic end caps, silver-colored
- mounting via twist-lock catches of luminaire insert
- incl. end caps



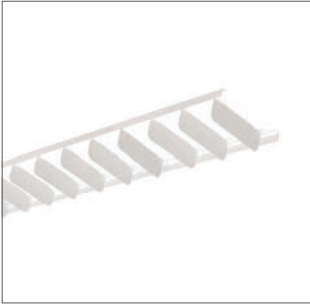
Light source	System size	 [mm]	 [kg]	Order no. OSRAM	Order no. Siteco
Wallwasher					
1x T26 36 W	4x SE	1228	0.8	4039806197252	5LJ14912U
1x T26 58 W	5x SE	1535	0.9	4039806201959	5LJ14912R

— please order supplementary optics (cross-blade louver) separately if required

**Accessories (for details see page 8.142)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Insert louver, aluminum, silver, for 1x T26 36W and 1/2x T16 28/54W	0.6	4039806203359	5LE14601UR1
Insert louver, aluminum, silver, for 1x T26 58W and 1/2x T16 35/49/80W	0.6	4039806203373	5LE14601RR1
Insert louver, aluminum, white, for 1x T26 36W and 1/2x T16 28/54W	0.5	4039806203397	5LE14601UR2
Insert louver, aluminum, white, for 1x T26 58W and 1/2x T16 35/49/80W	0.6	4039806203410	5LE14601RR2

## DUS® IP20 optical accessories



### Cross-blade louver

for laying in\* wallwasher reflector | aluminum

for light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
------------------	--------	----------	-----------------	------------------

Cross-blade louver, silver

1x T26 36W or 1/2x T16 28/54W	1218	0.6	4039806203359	5LE14601UR1
1x T26 58W or 1/2x T16 35/49/80W	1525	0.7	4039806203373	5LE14601RR1

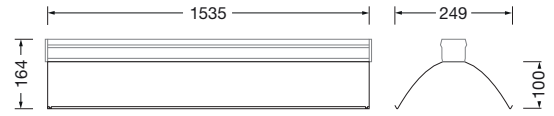
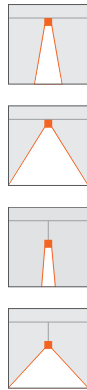
Cross-blade louver, white

1x T26 36W or 1/2x T16 28/54W	1218	0.6	4039806203397	5LE14601UR2
1x T26 58W or 1/2x T16 35/49/80W	1525	0.7	4039806203410	5LE14601RR2

— for wallwasher reflector 5LJ149...

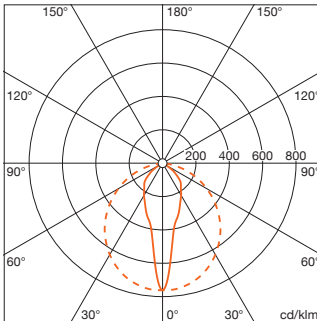
\* lay-in mounting, no louver catch required





4039806000033 + 4039806509505  
5LJ90871E + 5LJ17031ES1

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  84.6%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	17	4724
L <sub>70</sub>	9	7631
L <sub>65</sub>	7	8314

UGR 12.8 22.8

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.6	1.1	1.2	2.1	3.0	5.3
30 m <sup>2</sup>	1.2	1.6	2.3	3.2	5.8	7.9
40 m <sup>2</sup>	1.4	1.9	2.7	3.7	6.8	9.3
50 m <sup>2</sup>	1.7	2.2	3.3	4.3	8.3	11
75 m <sup>2</sup>	2.6	3.0	5.2	6.1	13	15
100 m <sup>2</sup>	3.0	3.7	6.0	7.4	15	19
500 m <sup>2</sup>	14	15	27	30	69	75

Maintenance factor 0.8

Rh = Lh

**DUS® IP20 | highbay reflector for T26 lamps  
aluminum, highly specular | direct narrow distribution**

Specular aluminum reflector for quick mounting to luminaire insert  
— highly specular reflector, direct narrow distribution, optimized for highbay racking

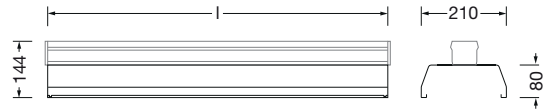
- reflector of aluminum, matt outside, highly specular inside
- mounting via twist-lock catches of luminaire insert

• with trunking arrangements, overlapping occurs at joints



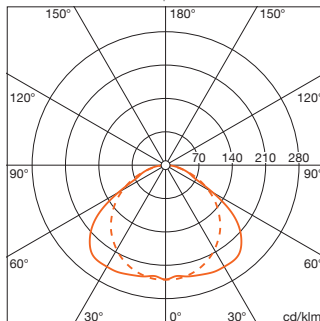
Light source	System size	$\frac{l}{[mm]}$	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
1/2x T26 58 W	5x SE	1535	0.7	4039806509505	5LJ17031ES1





4039806000033 + 4039806096418  
5LJ90871E + 5LJ14012EBO

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  80%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2771	2258
L <sub>70</sub>	2865	3178
L <sub>65</sub>	2994	3457

UGR 21 21.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(lx)	Lh(m)	Em(lx)	Lh(m)	Em(lx)	Lh(m)
20 m <sup>2</sup>	0.9	3.0	1.6	5.0	1.8	3.0
30 m <sup>2</sup>	1.3	3.0	2.1	5.0	2.6	3.0
40 m <sup>2</sup>	1.6	3.0	2.5	5.0	3.2	3.0
50 m <sup>2</sup>	1.9	3.0	2.8	5.0	3.9	3.0
75 m <sup>2</sup>	2.7	3.0	3.7	5.0	5.5	3.0
100 m <sup>2</sup>	3.5	3.0	4.6	5.0	7.0	3.0
500 m <sup>2</sup>	15	3.0	17	5.0	30	3.0

Maintenance factor 0.8

Rh = Lh

**DUS® IP20 | white reflector for T26 lamps**  
**extremely wide distribution; with or without ceiling illumination**

Reflector for quick mounting to luminaire insert

- direct extremely wide distribution or direct extremely wide distribution with ceiling illumination; suitable for use with louvers, specular reflectors or prismatic diffusers

- sheet steel reflector, pure white (similar to RAL 9010)
- mounting via twist-lock catches of luminaire insert



Light source	System size	$\frac{l}{d}$ [mm]	$\frac{kg}{m}$	Order no. OSRAM	Order no. Siteco
Reflector with ceiling illumination					
1/2x T26 36 W	4x SE	1228	1.7	4039806096456	5LJ14022CB0
1/2x T26 58 W	5x SE	1535	2.1	4039806096470	5LJ14022EBO
Reflector, direct distribution					
1/2x T26 36 W	4x SE	1228	1.8	4039806096388	5LJ14012CB0
1/2x T26 58 W	5x SE	1535	2.2	4039806096418	5LJ14012EBO

- please order end caps and reflectors separately
- please order supplementary optics separately if required

**Mandatory accessories (for details see page 8.148 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap	set of 2	0.1	4039806174956	5LJ14012XD
Reflector connector		0.1	4039806174987	5LJ14020XD

**For supplementary lighting technology (CAT2 specular louver, reflector insert, cross-blade louver, prismatic cover), see page 145 ff.**



**DUS® IP20 optical accessories**



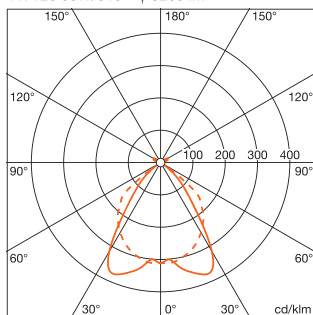
**DUS® CAT2 specular louver | for T26**

for mounting in DUS® reflector | aluminum, highly specular CAT2 ( $L \leq 200\text{cd/m}^2$ )

for light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
CAT2 specular louver					
1x T26 36W	4x SE	1228	0.7	4039806131768	5LJ65701CS
1x T26 58W	5x SE	1535	0.9	4039806131782	5LJ65701ES
2x T26 36W	4x SE	1228	0.7	4039806131720	5LJ65702CS
2x T26 58W	5x SE	1535	0.9	4039806131744	5LJ65702ES
Louver catch				4039806096197	5LJ14000XC

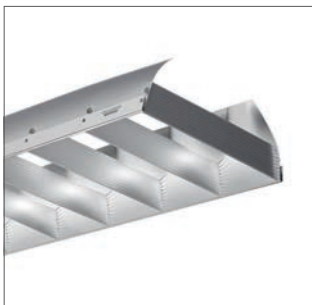
4039806246523 + 4039806131768  
+ 4039806096456  
5LJ90861C1 + 5LJ65701CS +  
5LJ14022CB0

1 x T26 36W/840  $\phi$  3200 lm



$\eta_{LB}$  61.9%  $\phi_{\downarrow}$  94%  $\phi_{\uparrow}$  6%

- system size: 1 system unit (1x SE) = 307mm
- for reflector 5LJ1401... | 5LJ1402...
- please order louver catch separately (set of 4), 4 units required per louver



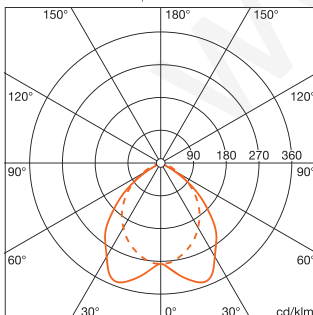
**DUS® ribbed aluminum louver | for T26**

for mounting in reflector | aluminum, matt, with ribbed cross blades

for light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ribbed aluminum louver					
1/2x T26 58W	5x SE	1528	0.9	4039806131805	5LJ61201ER
Louver catch				4039806096197	5LJ14000XC

4039806000033 + 4039806131805  
+ 4039806096418  
5LJ90871E + 5LJ61201ER +  
5LJ14012EB0

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  65.7%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

- system size: 1 system unit (1x SE) = 307mm
- for reflector 5LJ1401... | 5LJ1402...
- please order louver catch separately (set of 4), 4 units required per louver



### DUS® reflector insert, direct medium or wide distribution\* | for T26

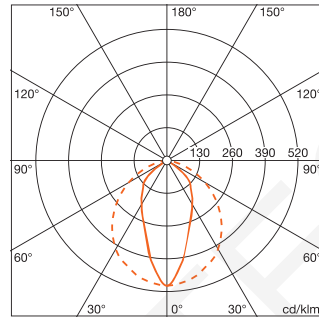
for mounting in reflector | highly specular aluminum | snap fits to reflector

for light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Specular reflector, medium distribution					
1/2x T26 36W	4x SE	1228	0.7	4039806096326	5LJ14011CS
1/2x T26 58W	5x SE	1528	0.5	4039806096340	5LJ14011ES
Specular reflector, wide distribution					
1/2x T26 36W	4x SE	1228	0.7	4039806096227	5LJ14001CS
1/2x T26 58W	5x SE	1528	0.5	4039806096241	5LJ14001ES

- system size: 1 system unit (1x SE) = 307mm
- combination possible with aluminum ribbed cross-blade louver or white cross-blade louver
- for reflector 5LJ1401... | 5LJ1402...
- \* asymmetric light distribution (similar to wallwasher) with combination of medium and wide distribution reflector segments

4039806000033 + 4039806096418  
+ 4039806096340  
5LJ90871E + 5LJ14012EB0 +  
5LJ14011ES

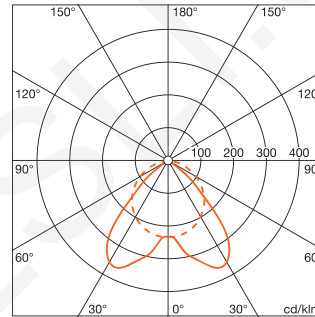
1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  76.6%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

4039806000033 + 4039806096418  
+ 4039806096241  
5LJ90871E + 5LJ14012EB0 +  
5LJ14001ES

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  72.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%



### Aluminum ribbed cross-blade louver | for T26

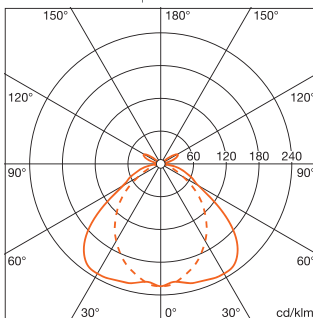
for laying in\* reflector | aluminum, matt anodized

for light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ribbed cross-blade louver					
1/2x T26 58W	5x SE	1528	0.9	4039806095275	5LE78512ER

- system size: 1 system unit (1x SE) = 307mm
- can be combined with medium or wide distribution reflector
- for reflector 5LJ1401... | 5LJ1402...
- \* lay-in mounting, no louver catch required

4039806000033 + 4039806095275  
+ 4039806096470  
5LJ90871E + 5LE78512ER +  
5LJ14022EB0

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  61.4%  $\phi_{\downarrow}$  92%  $\phi_{\uparrow}$  8%



**DUS® IP20 optical accessories**



**Cross-blade louver, white | for T26**

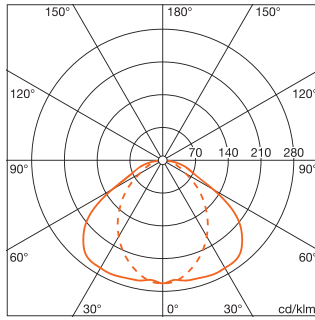
for laying in\* reflector | sheet steel, pure white

for light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver					
1/2x T26 36W	4x SE	1228	1.0	4039806094537	5LE78012CR
1/2x T26 58W	5x SE	1528	1.3	4039806094551	5LE78012ER

- system size: 1 system unit (1x SE) = 307mm
- can be combined with medium or wide distribution reflector
- for reflector 5LJ1401... | 5LJ1402...
- \* lay-in mounting, no louver catch required

4039806000033 + 4039806094551  
 + 4039806096418  
 5LJ90871E + 5LE78012ER +  
 5LJ14012EB0

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  70.7%  $\phi_{d}$  99%  $\phi_{t}$  1%



**Prismatic cover | for T26**

for laying into\* reflector | prismatic cover of PMMA | with longitudinal plastic profiles

for light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cover panel					
1/2x T26 58W	5x SE	1528	1.0	4039806094735	5LE78032EGO

- system size: 1 system unit (1x SE) = 307mm
- for complete concealing of lamps, an additional intermediate reflector cap can be fitted per reflector joint
- prismatic cover easily cut to suit for 36W
- for reflector 5LJ1401... | 5LJ1402...
- \* lay-in mounting, no louver catch required



### End cap for reflector

for clipping to reflector | plastic, white

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	set of 2	4039806174956	5LJ14012XD

— for reflector 5LJ1401... | 5LJ1402...



### Intermediate cap for reflector

for clipping to reflector at the joint between two reflectors | plastic, white

Designation	Order no. OSRAM	Order no. Siteco
Intermediate cap	4039806096289	5LJ14002XD

— as "intermediate end cap" between reflectors with seamless trunking or for complete concealment of lamps in combination with prismatic cover  
 — for reflector 5LJ1401... | 5LJ1402...



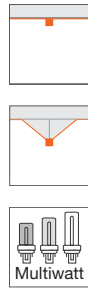
### Connector for reflector

for clipping to reflector joint | as covering and for alignment of reflectors with trunking arrangements | plastic, white

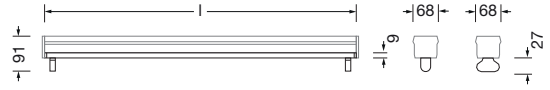
Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	set of 2	4039806174987	5LJ14020XD

— 2 pieces required per joint  
 — for clipping to reflector joint as covering and for alignment of reflectors with trunking arrangements  
 — for reflector 5LJ1401... | 5LJ1402...

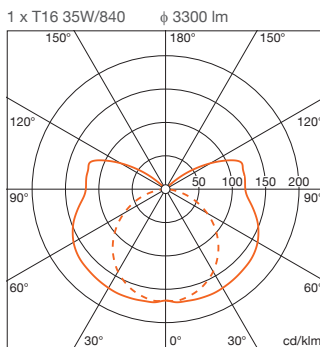




T16  
G5



4039806537515  
5LJ90871Q



$\eta_{LB}$  95.6%  $\phi_{\downarrow}$  78%  $\phi_{\uparrow}$  22%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	27977	3635
L <sub>70</sub>	16023	4793
L <sub>65</sub>	13558	5112

UGR 29.1 22.4  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500		
	Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.6	2.7	3.1	5.3	7.8	13	
30 m <sup>2</sup>	2.2	3.5	4.4	6.9	11	17	
40 m <sup>2</sup>	2.7	4.1	5.4	8.1	14	20	
50 m <sup>2</sup>	3.2	4.7	6.4	9.3	16	23	
75 m <sup>2</sup>	4.4	6.1	8.9	12	22	31	
100 m <sup>2</sup>	5.6	7.5	11	15	28	37	
500 m <sup>2</sup>	23	26	45	53	114	132	

Maintenance factor 0.8 Rh = Lh + 0.5 m

**DUS® IP20 | luminaire insert for T16 lamp open distribution**

- Luminaire insert for quick mounting to trunking rail; can be positioned in module size 307mm
- open distribution; diverse optical accessories available
- with ECG Multiwatt

- sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catches with metal clips for rapid fixing to rail
- protection rating: IP20
- insulation class: I

• system size: 1 system unit (1x SE): 307 mm

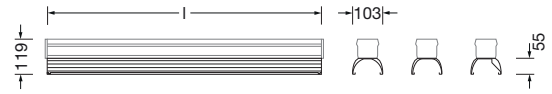
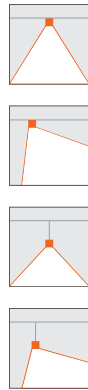
**Electrics**

- Luminaire insert wired ready for connection, with 3-pole connection system
- suitable for 5-core or 7-core wired trunking rail (with ECG DALI and ECG 1...10V: 3-pole + 2-pole for control signal; suitable for 7-core wired trunking rail)
- 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



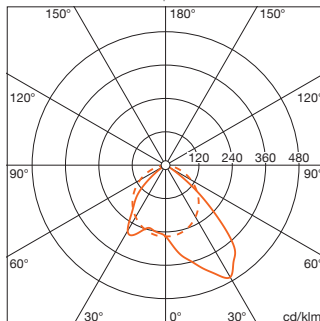
Light source	System size	Order no. OSRAM	Order no. Siteco
1x T16 28/54 W G5	4x SE 1228 1.0 Multi	4039806855831	5LJ90871H
1x T16 28/54 W G5	4x SE 1228 1.0 Multi DALI	4050737001999	5LJ908D1H1
1x T16 28/54 W G5	4x SE 1228 1.0 Multi 1...10V	4050737004914	5LJ90861H1
1x T16 35/49/80 W G5	5x SE 1535 1.2 Multi	4039806537515	5LJ90871Q
1x T16 35/49/80 W G5	5x SE 1535 1.2 Multi DALI	4039806579713	5LJ908D1Q1
1x T16 35/49/80 W G5	5x SE 1535 1.2 Multi 1...10V	4050737004938	5LJ90861Q1
2x T16 28/54 W G5	4x SE 1228 1.1 Multi	4050737015705	5LJ90872H
2x T16 28/54 W G5	4x SE 1228 1.1 Multi DALI	4050737005218	5LJ908D2H1
2x T16 28/54 W G5	4x SE 1228 1.1 Multi 1...10V	4050737004952	5LJ90862H1
2x T16 35/49 W G5	5x SE 1535 1.2 Multi	4050737020655	5LJ90872W
2x T16 35/49 W G5	5x SE 1535 1.2 Multi DALI	4039806885753	5LJ908D2W1
2x T16 35/49/80 W G5	5x SE 1535 1.3 Multi	4039806567420	5LJ90872Q
2x T16 35/49/80 W G5	5x SE 1535 1.3 Multi DALI	4039806808356	5LJ908D2Q1
2x T16 35/49/80 W G5	5x SE 1535 1.3 Multi 1...10V	4039806999542	5LJ90862Q1

- please order trunking rail separately
- please order additional optical accessories separately



4039806537515 + 4039806139047  
5LJ90871Q + 5LJ14531R

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  78.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1218	3277
L <sub>70</sub>	744	4645
L <sub>65</sub>	720	5085

UGR 19.1 22.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20					
	100		200		500	
Em(lx)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.2	2.3	2.3	4.6	5.9	11
30 m <sup>2</sup>	1.9	2.8	3.7	5.7	9.3	14
40 m <sup>2</sup>	2.3	3.4	4.6	6.8	12	17
50 m <sup>2</sup>	2.8	3.9	5.5	7.8	14	19
75 m <sup>2</sup>	4.0	5.2	8.0	10	20	26
100 m <sup>2</sup>	5.1	6.5	10	13	25	32
500 m <sup>2</sup>	23	25	46	51	115	126

Maintenance factor 0.8

Rh = Lh

**DUS® IP20 | white reflector for T16 lamps with highly specular reflector | direct medium, wide or asymmetric distribution**

Specular reflector for quick mounting to luminaire insert  
 — highly specular reflector, direct medium, direct wide or direct asymmetric distribution; suitable for use with cross-blade louver

- sheet steel housing, pure white (similar to RAL 9010)
- mounting via twist-lock catches of luminaire insert



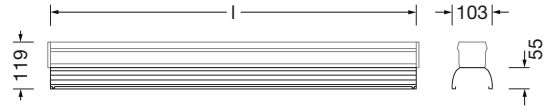
Light source	System size	$\frac{l}{d}$ [mm]	$\frac{kg}{m}$	Order no. OSRAM	Order no. Siteco
<b>narrow distribution</b>					
1/2x T16 28/54 W	4x SE	1228	1.3	4039806138941	5LJ14511U
1/2x T16 35/49/80 W	5x SE	1535	1.7	4039806139009	5LJ14511R
<b>wide distribution</b>					
1/2x T16 28/54 W	4x SE	1228	1.5	4039806138965	5LJ14521U
1/2x T16 35/49/80 W	5x SE	1535	1.8	4039806139023	5LJ14521R
<b>asymmetric distribution</b>					
1x T16 28/54 W	4x SE	1228	1.3	4039806138989	5LJ14531U
1x T16 35/49/80 W	5x SE	1535	1.6	4039806139047	5LJ14531R

- please order supplementary optics separately if required
- please order end caps and reflectors separately

**Mandatory accessories (for details see page 8.152)**

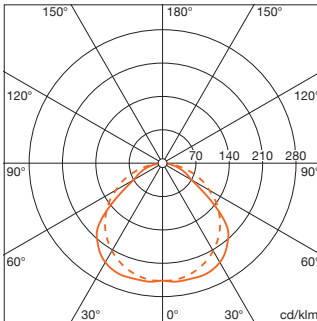
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap for 1/2-lamp version	set of 2	0.1	4039806193964	5LJ14510XD
Reflector connector	set of 2	0.1	4039806193995	5LJ14511XD

For supplementary lighting technology (cross-blade louver), see page 8.152



4039806537515 + 4039806137838  
5LJ90871Q + 5LJ14512X

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  72.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2750	4393
L <sub>70</sub>	3307	5550
L <sub>65</sub>	3430	5773

UGR 20.5 23.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**DUS® IP20 | white reflector for T16 lamps  
direct extremely wide distribution**

Reflector for quick mounting  
to luminaire insert

- direct extremely wide distribution; suitable for use with CAT louvers, specular reflectors or cross-blade louvers

- sheet steel reflector, pure white (similar to RAL 9010)
- mounting via twist-lock catches of luminaire insert



Light source	System size	$\frac{l}{L}$ (mm)	$\frac{kg}{kg}$	Order no. OSRAM	Order no. Siteco
Reflector					
1/2x T16 28/54 W	4x SE	1228	1.1	4039806137814	5LJ14512U
1/2x T16 35/49/80 W	5x SE	1535	1.3	4039806137838	5LJ14512X

- please order supplementary optics separately if required
- please order end caps and reflectors separately

**Mandatory accessories (for details see page 8.152 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap	set of 2	0.1	4039806193964	5LJ14510XD
Reflector connector	set of 2	0.1	4039806193995	5LJ14511XD

**For supplementary lighting technology (CAT2 specular louver, cross-blade louver), see page 152 ff.**

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Em(lx)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.4	2.5	2.8	5.0	7.1	13
30 m <sup>2</sup>	2.1	3.3	4.2	6.5	10	16
40 m <sup>2</sup>	2.6	3.9	5.2	7.8	13	19
50 m <sup>2</sup>	3.1	4.5	6.2	8.9	16	22
75 m <sup>2</sup>	4.5	6.0	8.9	12	22	30
100 m <sup>2</sup>	5.7	7.4	11	15	28	37
500 m <sup>2</sup>	25	28	50	56	125	140

Maintenance factor 0.8 Rh = Lh



**DUS® IP20 optical accessories**



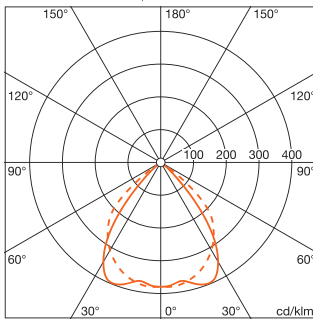
**CAT2 specular louver | for T16**

for mounting in reflector | aluminum, highly specular CAT2 ( $L \leq 1000\text{cd/m}^2$ )

for light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
CAT2 specular louver					
1x T16 28/54W	4x SE	1228	0.5	4039806138460	5LE14501UR
1x T16 35/49/80W	5x SE	1535	0.7	4039806138484	5LE14501RR
2x T16 28/54W	4x SE	1228	0.6	4039806138507	5LE14502UR
2x T16 35/49/80W	5x SE	1535	0.7	4039806138521	5LE14502RR
Intermediate end cap for reflector				4039806194022	5LJ14512XD

4039806537515 + 4039806137838  
 + 4039806138484  
 5LJ90871Q + 5LJ14512X +  
 5LE14501RR

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  64.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

- system size: 1 system unit (1x SE) = 307mm
- for reflector 5LJ14512...
- 2 intermediate reflector end caps per reflector joint are required with trunking arrangements (set of 2)



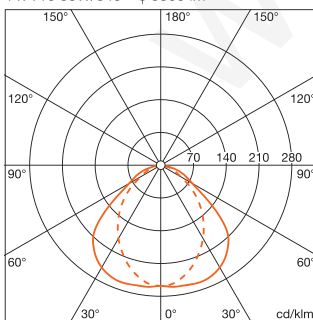
**Cross-blade louver, white | for T16**

for laying in\* reflector | sheet steel, pure white

for light source	System size	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver					
1/2x T16 28/54W	4x SE	1228	0.5	4039806137852	5LE14601UR
1/2x T16 35/49/80W	5x SE	1535	0.6	4039806137876	5LE14601RR

4039806537515 + 4039806137838  
 + 4039806137876  
 5LJ90871Q + 5LJ14512X +  
 5LE14601RR

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  63.6%  $\phi_{\downarrow}$  99%  $\phi_{\uparrow}$  1%

- system size: 1 system unit (1x SE) = 307mm
- for reflector 5LJ145... (with or without reflector insert)
- \* lay-in mounting, no louver catch required





### End cap for reflector

for clipping to reflector | plastic, white

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	set of 2	4039806193964	5LJ14510XD

— for reflector 5LJ145...



### Connector for reflector

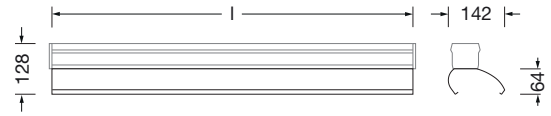
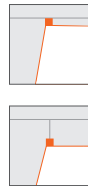
for clipping to reflector joint | as covering and for alignment of reflectors with trunking arrangements | plastic, white

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector	set of 2	4039806193995	5LJ14511XD

— for reflector 5LJ145...  
 — 2 pieces required per joint

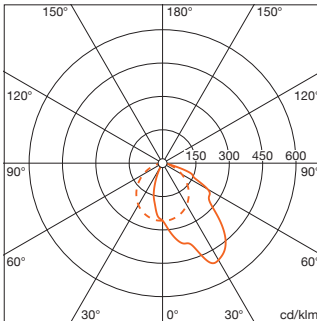


www.TESLI.com



4039806537515 + 4039806201959  
5LJ90871Q + 5LJ14912R

1 x T16 35W/840  $\phi$  3300 lm



$\eta_{LB}$  76.5%  
 $I_{max}$  503 cd/klm at  $\gamma$  30°

**DUS® IP20 | wallwasher reflector for T16 lamps  
aluminum, matt | direct asymmetric distribution**

Specular aluminum reflector for quick mounting to luminaire insert  
 — semi-specular wallwasher, asymmetric distribution; suitable for use with cross-blade louver

- reflector of aluminum, matt outside, semi-specular inside; plastic end caps, silver-colored
- mounting via twist-lock catches of luminaire insert
- incl. end caps



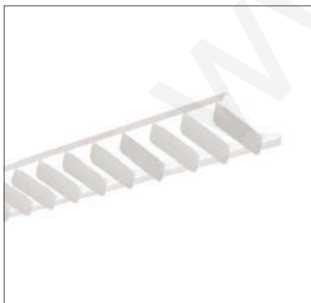
Light source	System size	$l$ [mm]	$K_g$	Order no. OSRAM	Order no. Siteco
Wallwasher					
1/2x T16 28/54 W	4x SE	1228	0.8	4039806197252	5LJ14912U
1/2x T16 35/49/80W	5x SE	1535	0.8	4039806201959	5LJ14912R

— please order supplementary optics (cross-blade louver) separately if required

**DUS® IP20 optical accessories**

**Cross-blade louver**

for laying in\* wallwasher reflector | aluminum



for light source	System size	$l$ (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver, silver					
1x T26 36W or 1/2x T16 28/54W	4x SE	1218	0.6	4039806203359	5LE14601UR1
1x T26 58W or 1/2x T16 35/49/80W	5x SE	1525	0.7	4039806203373	5LE14601RR1
Cross-blade louver, white					
1x T26 36W or 1/2x T16 28/54W	4x SE	1218	0.6	4039806203397	5LE14601UR2
1x T26 58W or 1/2x T16 35/49/80W	5x SE	1525	0.7	4039806203410	5LE14601RR2

— system size: 1 system unit (1x SE) = 307mm  
 — for wallwasher reflector 5LJ149...  
 \* lay-in mounting, no louver catch required

# DUS<sup>®</sup> power module



The DUS<sup>®</sup> power module is a system component of the DUS<sup>®</sup> trunking system. With its 4-lamp configuration of up to 80W and brilliant HDP<sup>®</sup> luminaire enclosure, it emits balanced, glare-free light. The high vertical luminance of the power module achieves optimal visual comfort and is particularly suitable for industrial workstations with night duty, positively influencing well-being and the ability to concentrate.



## Features

- variable lamp wattages via T16 multiwatt technology
- good glare reduction via HDP<sup>®</sup> technology
- lateral prismatic structure enables use for surface inspection work
- can be used for mounting heights of up to 8 meters
- high level of operational safety with four lamps and two ECG
- can be used for high illuminance levels of 2000 lux and more
- direct distribution or direct/indirect distribution with up to 58% indirect light
- light sail can be retrofitted for poor ceiling reflection factors
- direct and indirect components can be switched and dimmed separately with various light colors
- multiple circuits and phase selection possible as standard
- electrical and mechanical connection of insert within rails without tools in one step
- easy-to-use twist-lock catches for secure fixing of luminaire insert and reflector of metal; this gives increased safety in case of fire

### Lighting technology

#### **DUS® power module, direct/indirect distribution**

With HDP® cover and specular elements for directed direct and indirect light (44:56) | light sail as supplementary optics for halls with high or dark ceilings, available as accessory |

**DUS® power module with open distribution** open distribution with 360° all-round light distribution (42:58) |

**DUS® power module with direct distribution** direct distribution with integrated all-round indirect component via lateral prismatic optics

### Electrics

Power module wired ready for connection | for operation with normal mains, for one or two circuits | 3-phase pre-selection via moving of contact pin prior to installation in rail

version for one circuit with 3-pole connection system, suitable for 5-core or 7-core wired trunking rail

version for two circuits with 4-pole connection system, suitable for 7-core wired trunking rail

version with ECG DALI or ECG dimmable with 5-pole connection system (3-pole + 2-pole for control signal), suitable for 7-core wired trunking rail

Version with ECG Singlewatt with manufacturer-fitted lamps.

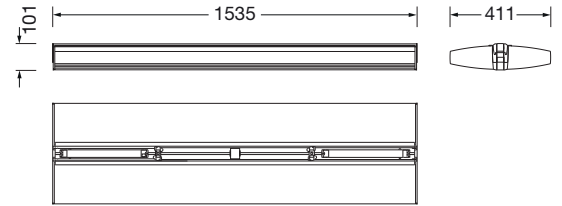
### Housing

Power module of extruded aluminum, anodized | innovative High Definition Prismatic reflectors (HDP®) of PMMA with prismatic structure | sail surfaces of light sail of matt aluminum | easy-to-use metal catches for secure fastening of power module in rail | mounting of power module and electrical connection in the rail carried out in one step | version with ECG Singlewatt with manufacturer-fitted lamps

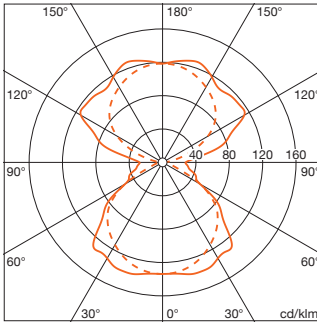




T16  
G5



4039806999160  
5LJ77574X  
4 x T16-I 80W/840 (Amalgam)  
φ 27200 lm



η<sub>LB</sub> 87.6% φ<sub>d</sub> 46% φ<sub>f</sub> 54%

	Luminance values (cd/m <sup>2</sup> )	
	C 0/180	C 90/270
L <sub>80</sub>	3242	1320
L <sub>70</sub>	3105	1687
L <sub>65</sub>	2970	2635

UGR 17.5 14.3  
X 4H Y 8H ρ 70/50/20 S 0.25H

**DUS® IP40 | power module for T16 lamps  
4-lamp | open distribution**

Power module for quick mounting to trunking rail; can be positioned in module size 307mm  
 — open distribution with 360° all-round light distribution (42:58)  
 — with ECG, for one or two circuits  
 — housing of aluminum, anodized; HDP® cover of PMMA, transparent; metal clips for rapid fixing to trunking rail

- protection rating: IP40
- insulation class: I
- version with ECG Singlewatt: with fitted lamps, light color 840
- version with ECG Multiwatt: without lamps

• system size: 1 system unit (1x SE) = 307mm

**Electrics**

Power module wired ready for connection, for one or two circuits depending on version:

**Version for one circuit (with ECG):** with 3-pole connection system, suitable for 5-score or 7-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system (3-pole + 2-pole for control signal), suitable for 7-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for two circuits (with ECG):** with 4-pole connection system, suitable for 5-score or 7-core wired trunking rail

• circuit 1 with 2-phase pre-selection, circuit 2 without phase pre-selection



No. of luminaires in room	Reflection factors 70/50/20					
	Em(lx) 100		200		500	
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.8	2.1	3.6	4.3	9.0	11
300 m <sup>2</sup>	2.5	2.9	5.0	5.7	12	14
500 m <sup>2</sup>	3.9	4.4	7.8	8.8	20	22
750 m <sup>2</sup>	5.3	5.9	11	12	27	29
1000 m <sup>2</sup>	6.9	7.5	14	15	34	37
1500 m <sup>2</sup>	9.1	9.8	18	20	46	49
2000 m <sup>2</sup>	13	14	26	27	64	68

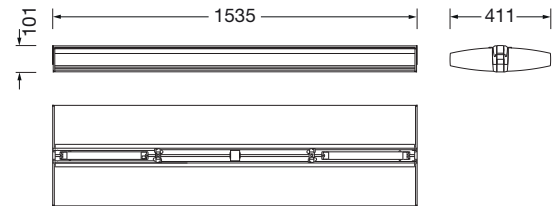
Maintenance factor 0.8 Rh = Lh + 0.5 m

Light source	System size	l (mm)	h (mm)	ECG LLoG	Order no. OSRAM	Order no. Siteco
one circuit						
4x T16 35/49 W	G5	5x SE	1535	8.8	Multi	4039806999122 5LJ77574W
4x T16 35/49/80 W	G5	5x SE	1535	8.8	Multi DALI	4039806999221 5LJ775D4Q
4x T16 35/49/80 W	G5	5x SE	1535	8.8	Multi 1...10V	4039806999108 5LJ77564Q
4x T16 80 W	G5	5x SE	1535	8.8	ECG	4039806999160 5LJ77574X
two circuits						
4x T16 80 W	G5	5x SE	1535	8.8	ECG	4039806999207 5LJ77574X2

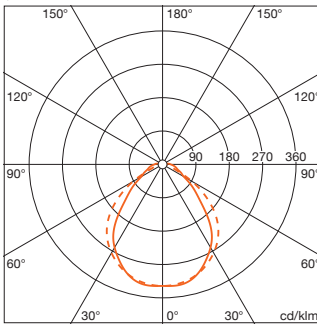
- please order trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail parts l<sub>max</sub>= 3.5m



T16  
G5



4039806999443  
5LJ77874X  
4 x T16-I 80W/840 (Amalgam)  
φ 27200 lm



η<sub>LB</sub> 78.3% φ<sub>d</sub> 94% φ<sub>f</sub> 6%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3508	2417
L <sub>70</sub>	3403	3228
L <sub>65</sub>	3733	4601

UGR 21.1 20.6  
X 4H Y 8H ρ 70/50/20 S 0.25H

### DUS® IP40 | power module for T16 lamps 4-lamp | direct distribution

Power module for quick mounting to trunking rail; can be positioned in module size 307mm

- direct distribution with HDP® cover and specular elements for directed light with integrated all-round indirect component via lateral prismatic optics
- with ECG, for one or two circuits

- housing of aluminum, anodized; HDP® cover of PMMA, transparent; metal clips for rapid fixing to trunking rail
- protection rating: IP40
- insulation class: I
- version with ECG Singlewatt: with fitted lamps, light color 840
- version with ECG Multiwatt: without lamps

• system size: 1 system unit (1x SE) = 307mm

#### Electrics

Power module wired ready for connection, for one or two circuits depending on version:

**Version for one circuit (with ECG):** with 3-pole connection system, suitable for 5-core or 7-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system (3-pole + 2-pole for control signal), suitable for 7-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for two circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 7-core wired trunking rail

• circuit 1 with 2-phase pre-selection, circuit 2 without phase pre-selection



#### No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Em(lx)	Lh(m)	Em(lx)	Lh(m)	Em(lx)
200 m <sup>2</sup>	6.0	1.6	8.0	3.1	6.0	7.8
300 m <sup>2</sup>	6.0	1.8	8.0	3.6	6.0	9.1
500 m <sup>2</sup>	2.2	2.5	4.4	5.0	11	12
750 m <sup>2</sup>	3.4	3.7	6.8	7.5	17	19
1000 m <sup>2</sup>	4.8	5.3	9.7	11	24	26
1500 m <sup>2</sup>	6.3	6.7	13	13	31	34
2000 m <sup>2</sup>	9.1	9.6	18	19	45	48
	12	12	24	25	59	62

Maintenance factor 0.8 Rh = Lh + 0.5 m

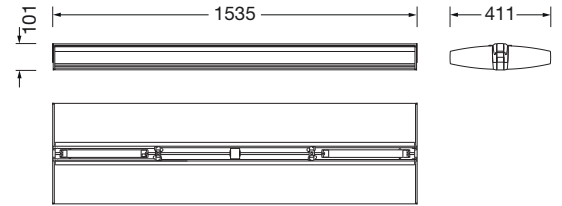
Light source	System size	Order no. OSRAM	Order no. Siteco
one circuit			
4x T16 35/49 W G5	5x SE 1535 9.4 Multi	4039806999405	5LJ77874W
4x T16 35/49/80 W G5	5x SE 1535 9.4 Multi DALI	4039806999511	5LJ778D4Q
4x T16 35/49/80 W G5	5x SE 1535 9.4 Multi 1...10V	4039806999382	5LJ77864Q
4x T16 80 W G5	5x SE 1535 9.4 ECG	4039806999443	5LJ77874X
two circuits			
4x T16 80 W G5	5x SE 1535 9.4 ECG	4039806999481	5LJ77874X2

- please order trunking rail separately
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail parts l<sub>max</sub> = 3.5m



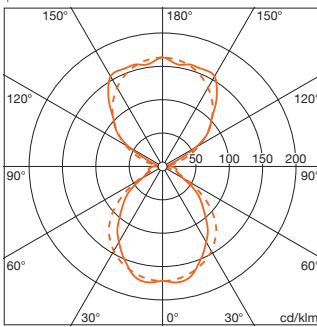


T16  
G5



4039806999306  
5LJ77674X

2xT16-I 80W/840 (Amalgam) +  
2xT16-I 80W/865 (Amalgam)  
φ 26500 lm



η<sub>LB</sub> 82.9% φ<sub>d</sub> 47% φ<sub>f</sub> 53%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2124	1285
L <sub>70</sub>	1637	1654
L <sub>65</sub>	1779	2352

UGR 14.9 14  
X 4H Y 8H ρ 70/50/20 S 0.25H

### DUS® IP40 | power module for T16 lamps 4-lamp | direct/indirect distribution

Power module for quick mounting to trunking rail; can be positioned in module size 307mm

- direct/indirect distribution with HDP® cover and specular elements for direct and indirect light (44:56); supplementary optics (light sail) for halls with high or dark ceilings available as accessory
- with ECG, for one or two circuits

- housing of aluminum, anodized; HDP® cover of PMMA, transparent; metal clips for rapid fixing to trunking rail
- protection rating: IP40
- insulation class: I
- version with ECG Singlewatt: with fitted lamps, light color 840
- version with ECG Multiwatt: without lamps

• system size: 1 system unit (1x SE) = 307mm

#### Electrics

Power module wired ready for connection, for one or two circuits depending on version:

**Version for one circuit (with ECG):** with 3-pole connection system, suitable for 5-core or 7-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection system (3-pole + 2-pole for control signal), suitable for 7-core wired trunking rail

• with 3-phase pre-selection via moving of contact pin prior to installation in trunking rail

**Version for two circuits (with ECG):** with 4-pole connection system, suitable for 5-core or 7-core wired trunking rail

• circuit 1 with 2-phase pre-selection, circuit 2 without phase pre-selection



#### No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	6.0	8.0	6.0	8.0	6.0
200 m <sup>2</sup>	1.9	2.2	3.7	4.4	9.4	11
300 m <sup>2</sup>	2.6	3.0	5.2	5.9	13	15
500 m <sup>2</sup>	4.2	4.6	8.3	9.3	21	23
750 m <sup>2</sup>	5.7	6.2	11	12	28	31
1000 m <sup>2</sup>	7.3	7.8	15	16	36	39
1500 m <sup>2</sup>	9.3	9.9	19	20	46	49
2000 m <sup>2</sup>	14	14	27	29	68	72

Maintenance factor 0.8

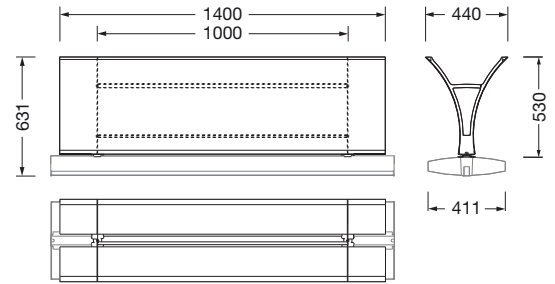
R<sub>h</sub> = L<sub>h</sub> + 0.5 m

Light source	System size	l (mm)	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
one circuit						
4x T16 35/49 W	G5 5x SE	1535	9.4	Multi	4039806999269	5LJ77674W
4x T16 35/49/80 W	G5 5x SE	1535	9.4	Multi DALI	4039806999368	5LJ776D4Q
4x T16 35/49/80 W	G5 5x SE	1535	9.4	Multi 1...10V	4039806999252	5LJ77664Q
4x T16 80 W	G5 5x SE	1535	9.4	ECG	4039806999306	5LJ77674X
two circuits						
4x T16 80 W	G5 5x SE	1535	9.4	ECG	4039806999344	5LJ77674X2

- please order trunking rail separately
- please order light sail separately if required
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail parts l<sub>max</sub> = 3.5m



QT-DE-  
11/12  
R7s

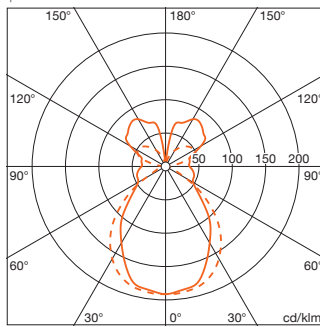


4039806999306 + 4039806584090

5LJ77674X + 5LJ76000Q

2xT16-I 80W/840 (Amalgam) +  
2xT16-I 80W/865 (Amalgam)

φ 26500 lm



η<sub>LB</sub> 74.7%   φ<sub>↓</sub> 59%   φ<sub>↑</sub> 41%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1036	950
L <sub>70</sub>	1050	1329
L <sub>65</sub>	1037	1577

UGR 15.2   13.2  
X 4H   Y 8H   ρ 70/50/20   S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Rh(m)	Lh(m)	Rh(m)	Lh(m)	Rh(m)
200 m <sup>2</sup>	2.1	2.4	4.1	4.8	10	12
300 m <sup>2</sup>	2.8	3.2	5.6	6.4	14	16
500 m <sup>2</sup>	4.4	4.9	8.8	9.8	22	24
750 m <sup>2</sup>	6.2	6.7	12	13	31	34
1000 m <sup>2</sup>	7.8	8.5	16	17	39	42
1500 m <sup>2</sup>	12	13	25	26	62	66
2000 m <sup>2</sup>	15	16	29	31	73	78

Maintenance factor 0.8   Rh = Lh + 0.5 m

**DUS® IP40 | power module for T16 lamps  
light sail | secondary distribution**

Light sail for quick mounting to trunking rail

- sheet steel supporting system, silver (similar to RAL 9006); white aluminum sail surfaces



**System size**

light sail

5x SE



1.5

**Order no.  
OSRAM**

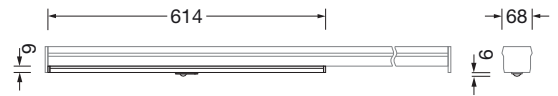
4039806584090

**Order no.  
Siteco**

5LJ76000Q

- please order trunking rail separately
- please order direct/indirect power module separately





**DUS® IP20 | light sensor insert for constant light control**

Light sensor insert for quick mounting to trunking rail; can be positioned in system size 307mm

- light sensor for brightness control of luminaire inserts with ECG 1...10V
- sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catches with metal clips for rapid fixing to rail

- protection rating: IP20
- insulation class: I
- control range: E = approx. 500lx
- mounting height: h = 2.5...3m


- system size: 1 system unit (1x SE) = 307mm

**Electrics**

Light sensor insert wired ready for connection, suitable for 7-core wired trunking rail

- for brightness control of max. 20 luminaire inserts, single or twin-lamp, or of max. 10 power modules with ECG 1...10V
- reference value setting by using screwdriver at light sensor



Designation	System size	 kg	Order no. OSRAM	Order no. Siteco
Light sensor	2x SE	0.4	4050737054131	5LJ9056HPL

## DUS® IP20 mounting accessories

The number of mounting points results from the weight of the trunking system (depending on configuration and lamps) and the load capacity of the suspension. With additional loads (e.g. sports), supplementary suspension may be required. The maximum permissible distance between two mounting points and the maximum permissible length of the unsupported rail end must not be exceeded.

- max. permissible distance between two mounting points:  $l_{\max} = 3.5\text{m}$
- maximum permissible length of the unsupported rail:  $l_{a,\max} = 0.8\text{m}$

### With power module (5LJ775... | 5LJ776... | 5LJ778...)

- at least one mounting point per luminaire:  $l_{\max} = 1.5\text{m}$
- max. distance with empty rail:  $l_{\max} = 3.5\text{m}$



### Ceiling mounting "A"

galvanized steel | incl. spacer | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806106308	5LJ90930XC



### Wire suspension "B"

with height adjustment | without wire (for wire:  $D = 1.5\text{mm}$ ) | load capacity: 16kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension	4039806106216	5LJ90921XC



### Wire suspension "C"

with height adjustment | with loop at top | wire:  $D = 1.5\text{mm}$  | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	$H \leq 1\text{m}$	4039806106001	5LJ90900
Wire suspension	$H \leq 2\text{m}$	4039806106056	5LJ90901

- without ceiling-sided mounting (ceiling hooks on site)





### Wire suspension "D"

with height adjustment | incl. wire, ceiling fixing element and white canopy | wire: l = 2m, D = 1.2mm | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension with canopy		
without terminal	4039806848017	5LJ909001
with terminal <sup>1)</sup>	4039806106247	5LJ90921XC2
Supplementary wire	l = 6m <sup>2)</sup>	4039806144386
		5LK91300

1) with 5 terminals, 1-pole, max. 2.5mm<sup>2</sup>  
 2) for 2 part lengths ≤ 3m or for 1 suspension ≤ 6m



### Wire suspension "J"

supplementary suspension with wallwasher | white baseplate | wire: l = 0.5m, D = 1.5mm and clamp for mounting to wire suspension

Designation	Order no. OSRAM	Order no. Siteco
Supplementary suspension for wallwasher	4039806203304	5LJ96902

— required with wallwasher reflector (5LJ149...) in addition to wire suspension "D"



### Wire suspension for joint hub

with height adjustment to 1.2m | incl. ceiling fixing element and white canopy | steel wire: D = 2.5mm | load capacity: 50kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension for joint hub		
without terminals	4039806045850	5LP91202X
with terminals <sup>1)</sup>	4039806045997	5LP91212X

1) incl. six 1-pole terminals, max. 2.5mm<sup>2</sup> (without cable)  
 — wire suspension with gray canopy on request



### Chain suspension "E"

on rail | safety hook with height adjustment | galvanized steel | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Chain suspension	4039806089359	5LJ90910XC

— without chain, without ceiling-sided mounting (ceiling hooks on site)



### Chain suspension "F"

safety hook with height adjustment | galvanized steel, partly with diecast aluminum | incl. suspension bracket, quick-release link and white canopy | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
-------------	-----------------	------------------

Chain suspension	4039806106124	5LJ90912XC
------------------	---------------	------------

— without chain



### Chain suspension "G"

on rail | safety hook with height adjustment | galvanized steel, partly with diecast aluminum | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
-------------	-----------------	------------------

Chain suspension	4039806133403	5LJ90911XC
------------------	---------------	------------

— without chain, without ceiling-sided mounting (ceiling hooks on site)



### Chain, galvanized

inner link size 7 x 40mm | load capacity: 56kg

#### Quick-release link (not shown)

inner link size 7 x 20mm | load capacity: 50kg

Designation	Order no. OSRAM	Order no. Siteco
-------------	-----------------	------------------

Chain	galvanized	4039806999856	5LY9005
-------	------------	---------------	---------

Quick-release link	galvanized	4039806176011	5LY9113
--------------------	------------	---------------	---------

— chain: per meter



# DUS<sup>®</sup> IP60 trunking system



The DUS<sup>®</sup> IP60 trunking system is based upon a variable modular system principle that is able to adapt flexibly to complex lighting tasks. It consists of two basic elements: a 5-core or 7-core wired trunking rail and the light insert for T26 fluorescent lamps. Various light effects are created with different optical components such as specular reflectors and louver inserts. All system components can be combined without the use of tools.

## Features

- modular construction system
- high flexibility with 307mm system dimensions: all elements within the DUS<sup>®</sup> product family have been constructed for the 307mm system module length and can thus be combined as desired, and with IP20 can be positioned in the module dimensions
- arrangements possible as individual luminaires or trunking lines

## Lighting technology

- various lighting methods from open lamp distribution to trunking luminaires with toughened safety glass for industrial applications

## Trunking system luminaire

- trunking luminaire as a complete unit, consisting of the following system elements: luminaire insert, reflector, specular reflector and cover
- attachment to DUS<sup>®</sup> trunking rail via 2 rotary toggles (externally accessible) | with fall arresting mechanism

- internal reflector and cross-blade louver, protected from dirt and damage with cover panel of toughened safety glass (D = 5mm)
- cover panel can be folded down and removed without tools via hinges and fasteners

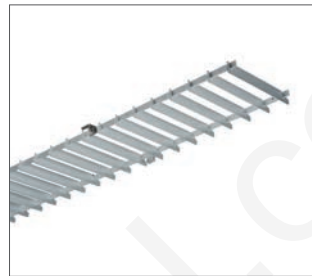
## Luminaire insert

- inserts possible as dimmable variation
- multiple circuits and phase selection possible as standard
- electrical and mechanical connection of inserts in rails without tools in one step
- tool-free rapid mounting via easy-to-use twist-lock catches for secure fixing of luminaire inserts and reflectors
- twist-lock catches for locking luminaire inserts and reflectors, of plastic-coated metal; for increased safety in case of fire
- tool-free relamping

## Trunking rail

- wiring variations up to 7x2.5mm<sup>2</sup>
- large distances between suspension points of up to 3.5m with self-supporting trunking rail connectors





### Lighting technology

**DUS® trunking luminaire with specular aluminum reflector, direct wide distribution, for excellent vertical illuminance levels**

- with symmetric light distribution
- with asymmetric light distribution
- white cross-blade louver for glare control (accessory)

**DUS® luminaire insert with open distribution**

optics can be defined with supplementary elements

### Electrics

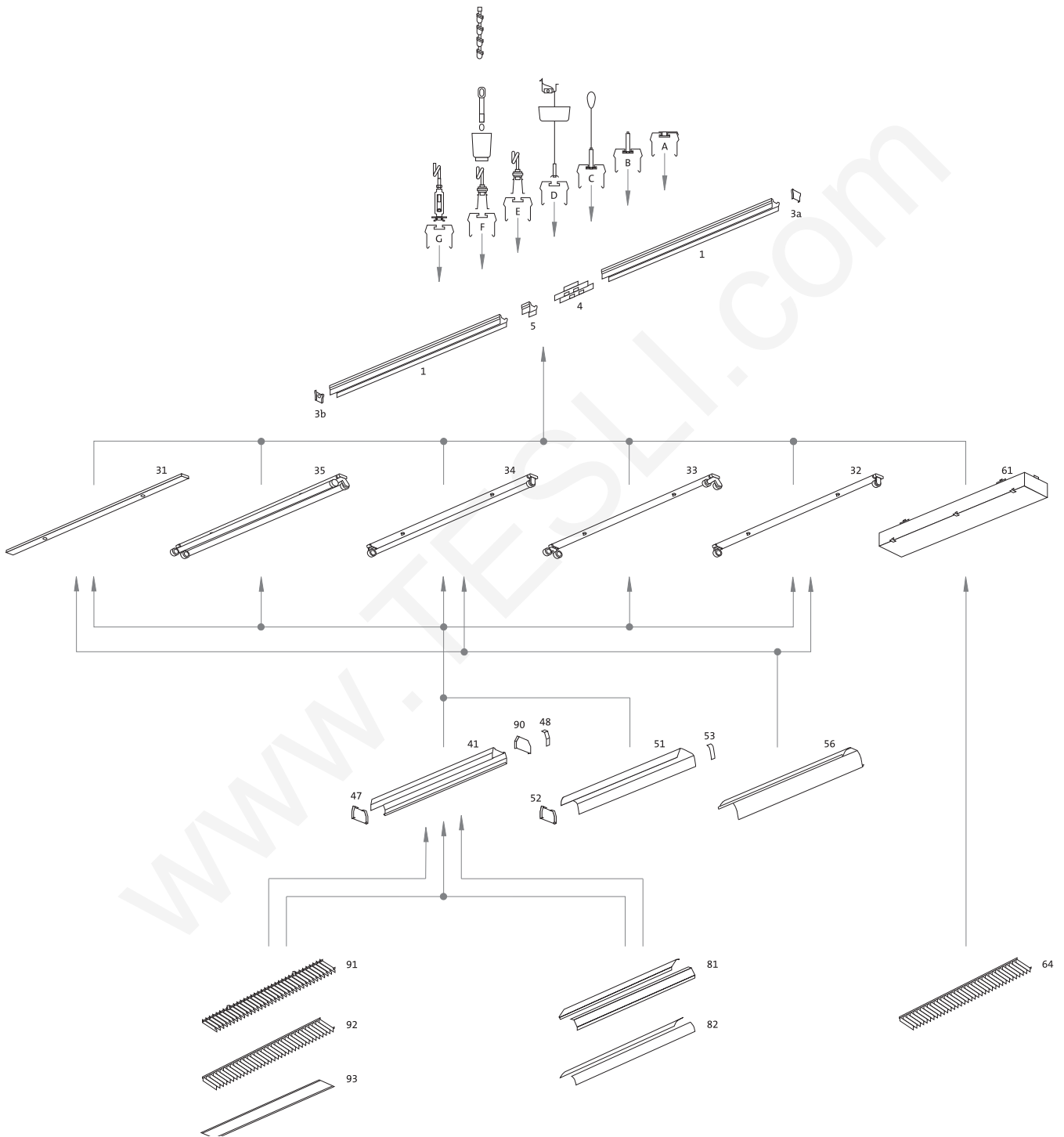
Trunking rail and luminaire insert wired ready for connection | **trunking rail** with terminal, max. 2.5mm<sup>2</sup>, and 5x 2.5mm<sup>2</sup> through-wiring | with sockets for electrical connection of inserts in rail | **trunking luminaire and luminaire insert** with 3-pole plug connector for electrical contact in trunking rail | 3-phase pre-selection via moving of contact pin prior to installation in rail

### Housing

Robust trunking rail, luminaire insert and gear tray of sheet steel, pure white (similar to RAL 9010) | reflector of sheet steel or aluminum | mounting of luminaire insert and reflector and electrical connection of insert in trunking rail without tools, in one work step | mechanical locking with simple, easy-to-use twist-lock catches | twist-lock catches entirely of metal with color-accentuated plastic cladding for secure fastening of inserts and reflectors in the trunking rail | trunking luminaire of sheet steel, pure white (similar to RAL 9010); with cover of toughened safety glass, transparent, D = 5mm; can be folded down and removed without tools via hinges and fasteners | mounting of trunking luminaire to DUS® trunking rail via 2 rotary toggles (externally accessible) with fall arresting mechanism | large mounting distances of up to 3.5m with robust metal connection elements; mounting distance with trunking luminaire max. 3.0m



# System overview DUS<sup>®</sup> IP60



<b>Suspensions</b>			<b>Page</b>
A	Ceiling mounting		8.183
B	Wire suspension	without wire	8.183
C	Wire suspension	incl. wire 1m or 2m, with loop at top	8.183
D	Wire suspension	incl. wire 2m, canopy and terminals	8.183
E	Chain suspension	on rail; without chain	8.184
F	Chain suspension	on ceiling side with canopy; without chain	8.184
G	Chain suspension	on rail, flat; without chain	8.184
	Chain		8.184

**Trunking rail and accessories**

1	Trunking rail	with through-wiring   1-, 2- or 3-length	8.169
3	End caps for trunking rail, IP60		8.170
4	Connector for trunking rail		8.170
5	Joint cover for trunking rail, IP60		8.170

**Trunking luminaire, luminaire inserts and trunking rail covers**

31	Fixed insert, metal, IP60	suitable for installation of reflectors	8.171
32	Luminaire insert, IP60	1x 58W	8.174
33	Luminaire insert, IP60	2x 58W	8.174
34	Luminaire insert, IP60	1x 58W, with protection tube of PC	8.175
35	Luminaire insert, IP60	2x 58W, with protection tube of PC	8.175
61	Trunking luminaire, IP60/IP63	1x 58W, symmetric distribution, with cover panel	8.172
		2x 58W, symmetric distribution, with cover panel	8.172
		1x 58W, symmetric distribution, with cover panel	8.172
64	Cross-blade louver for trunking luminaire		8.173

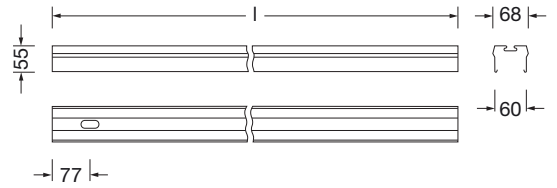
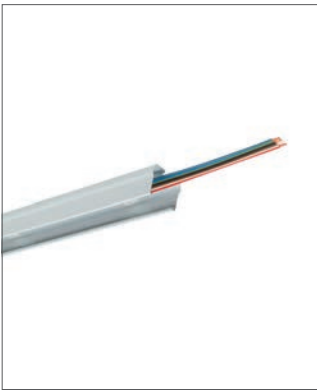
**Reflectors | Louvers, reflectors | Accessories**

41	Reflector	direct extremely wide distribution   dir./indir. extremely wide distribution	8.179
47	End cap for reflector		8.182
48	Connector for reflector		8.182
90	Intermediate cap for reflector		8.182
81	Reflector, high-gloss	medium distribution   for 1-lamp light source (with IP60)	8.181
82	Reflector, high-gloss	wide distribution   for 1-lamp and 2-lamp light source	8.181
91	Ribbed aluminum louver, matt	for 1-lamp and 2-lamp light source	8.180
92	Cross-blade louver	for 1-lamp and 2-lamp light source	8.180
93	Prismatic cover	for 1-lamp and 2-lamp light source	8.181

**Reflectors, aluminum | Accessories**

51	Specular reflector (batwing), aluminum	extremely wide distribution (with batwing light distribution)	8.176
52	End cap for batwing reflector		8.177
53	Connector for batwing reflector		8.177
56	Specular reflector (highbay racking), aluminum	extremely narrow distribution   for 1-lamp light source (with IP60)	8.178





**DUS® IP60**  
**trunking rail**

Trunking rail for ceiling surface or suspended mounting



- 5-core wiring with connection for luminaire inserts

- trunking rail of sheet steel, pure white (similar to RAL 9010)
- protection rating: IP60 (with suitable accessories)
- insulation class: I

**Electrics**

- Trunking rail wired ready for connection, with connection terminal at start of rail, 5x max. 2.5mm<sup>2</sup>
- cable entry through top of rail of any rail element or via end cap
  - with 5x 2.5mm<sup>2</sup> through-wiring
  - through-wiring to next trunking rail via serial plug-in terminals
  - cable routing for additional on-site installation (e.g. for multiple circuits) or in the trunking rail



Length			Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
1-length	1535	2.3	4039806106087	5LJ90910E
2-length	3070	4.5	4039806106155	5LJ90920E
3-length	4605	7.1	4039806106261	5LJ90930E

- please order end-cap sets separately
- please order rail connectors and joint covers separately if required

**Mandatory accessories (for details see page 8.170 ff.)**

Designation	PU	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
End cap, pure white	set of 2	0.1	4039806166692	5LS90910XD
Connector, steel, galvanized		0.5	4039806168108	5LJ90910XV
Joint cover, pure white		0.1	4039806166678	5LS90900XD

**For end-cap sets and other trunking rail accessories, see page 8.170 ff.**  
**For mounting accessories for trunking rail, see page 8.183 ff.**

### DUS® IP60 trunking rail accessories



#### End cap for DUS® IP60 trunking rail

for clipping to mounting rail, with safety screw | plastic, white | with push-out for cable entry | incl. cap for insulated termination of through-wiring | protection rating: IP60

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	set of 2	4039806166692	5LS90910XD

— further cable entries available on upper rail side



#### Connector for DUS® trunking rail

steel, galvanized | double screw connection ensures firm, flush-fit connection | self-supporting

Designation	Order no. OSRAM	Order no. Siteco
Straight connector	4039806168108	5LJ90910XV

— self-supporting connection, suspension in area of joint not necessary



#### Joint cover for DUS® IP60 trunking rail

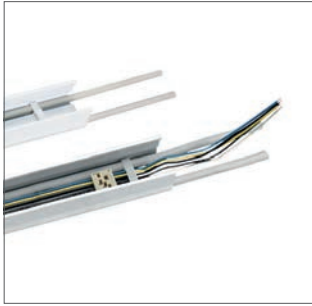
for clipping to rail | plastic, white | protection rating: IP60

Designation	Order no. OSRAM	Order no. Siteco
Joint cover	4039806166678	5LS90900XD

— 1 piece required per joint



### DUS® IP60 electrical accessories



#### Cable retainer

for additional power supply (e.g. multiple circuits...) | suitable for sheathed cable  $D \leq 13.5\text{mm}$  (e.g. NYM 5x 2.5mm<sup>2</sup>) or single-core cable

Designation	PU	Order no. OSRAM	Order no. Siteco
for one sheathed cable on the rail	set of 10	4039806000446	5LJ90810XY
for two sheathed cables or single-core cables in the rail	set of 10	4039806000378	5LJ90800XY

— recommended distance between retainers: 0.3m



#### Supplementary terminal

for connecting additional cables | max. 2.5mm<sup>2</sup> | at start of rail elements (e.g. for multiple circuits)

#### Terminal clip

required for each terminal clipped into the DUS® rail

Designation		Order no. OSRAM	Order no. Siteco
Terminal	5x max. 2.5mm <sup>2</sup> (L1, L2, L3, N, PE)	4039806271990	5LJ80005XK
Terminal	3x max. 2.5mm <sup>2</sup> (L1, N, PE)	4039806271983	5LJ80003XK
Terminal	2x max. 2.5mm <sup>2</sup> (L2, L3)	4039806271976	5LJ80002XK
Terminal clip		4039806270924	5LJ90900XY

### DUS® IP60 fixed insert

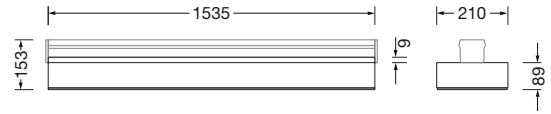
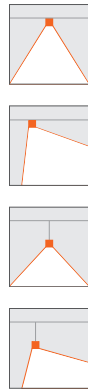


#### Fixed insert with twist-lock catches

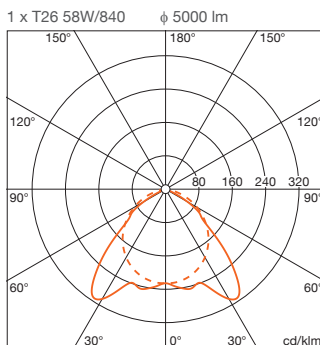
for mounting to DUS® trunking rail | housing of sheet steel, pure white | twist-lock catches\* with metal clips | protection rating: IP60 | insulation class: I

Designation	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Fixed insert	1535	0.8	4039806166531	5LS90800ED

\* with twist-lock catches (suitable for trunking with optically uninterrupted appearance, for installation of reflectors)



4039806509536  
5LS17571EB0



$\eta_{LB}$  68.6%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	210	1181
L <sub>70</sub>	224	2480
L <sub>65</sub>	1005	2852

UGR 17 20.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.9	1.8	1.8	3.5	4.6	8.9
30 m <sup>2</sup>	1.4	2.2	2.8	4.4	7.0	11
40 m <sup>2</sup>	1.8	2.6	3.6	5.2	8.9	13
50 m <sup>2</sup>	2.1	3.0	4.2	6.0	11	15
75 m <sup>2</sup>	3.0	4.0	6.0	8.0	15	20
100 m <sup>2</sup>	3.9	4.9	7.8	9.9	19	25
500 m <sup>2</sup>	17	19	35	38	87	96

Maintenance factor 0.8 Rh = Lh

**DUS® IP60 | trunking luminaire**  
**direct wide or asymmetric distribution | with transparent cover**

Trunking luminaire for quick mounting to trunking rail  
 — with highly specular aluminum reflector for very good vertical illuminance levels, direct wide or direct asymmetric distribution; suitable for use with cross-blade louver; with transparent cover

- with ECG
- housing of sheet steel, pure white (similar to RAL 9010); cover panel of toughened safety glass
- protection rating: IP60 (lamp compartment: IP63)
- insulation class: I
- incl. lamp, light color 840

**Electrics**

Trunking luminaire wired ready for connection, with 3-pole connection system  
 • suitable for 5-core or 7-core wired trunking rail (with ECG DALI: 3-pole + 2-pole for control signal, suitable for 7-core wired trunking rail)  
 • 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



**Light source**



**Order no.**  
**OSRAM**

**Order no.**  
**Siteco**

asymmetric distribution

1x T26 58 W	G13	11.0	ECG	4039806509550	5LS17671EB0
-------------	-----	------	-----	---------------	-------------

symmetric distribution

1x T26 58 W	G13	11.0	ECG	4039806509536	5LS17571EB0
2x T26 58 W	G13	11.5	ECG	4039806509543	5LS17572EB0

- please order trunking rail separately
- please order supplementary optics separately if required
- permissible distance between two mounting points of system rail: at least one mounting point per luminaire; max. mounting distance with empty rail parts  $l_{max} = 3.5m$

**Accessories (for details see page 8.173)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver, aluminum, white	0.6	4039806509451	5LE17501ER



**DUS® IP60 trunking luminaire – optical accessories**



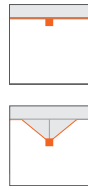
**DUS® IP60 cross-blade louver, white | for trunking luminaire**

for glare control | for laying into DUS® IP60 trunking luminaire | sheet steel, pure white

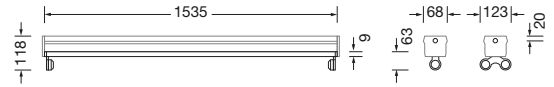
Designation	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver, white	1535	0.6	4039806509451	5LE17501ER

— for DUS® IP60 trunking luminaire (5LS175... | 5LS176...)



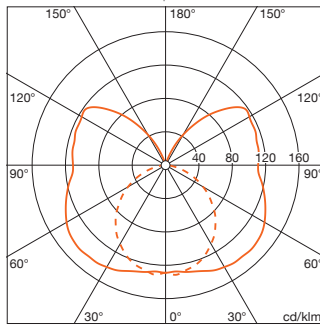


T26  
G13



4039806166593  
5LS90871E

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  94.6%  $\phi_{\downarrow}$  65%  $\phi_{\uparrow}$  35%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	48024	4515
L <sub>70</sub>	26466	6252
L <sub>65</sub>	22262	6915

UGR 30.3 21.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.2	2.0	2.3	4.0	5.8	9.9
30 m <sup>2</sup>	1.5	2.4	3.0	4.7	7.6	12
40 m <sup>2</sup>	1.9	2.9	3.8	5.7	9.5	14
50 m <sup>2</sup>	2.2	3.3	4.5	6.5	11	16
75 m <sup>2</sup>	3.0	4.2	6.1	8.4	15	21
100 m <sup>2</sup>	3.9	5.2	7.8	10	20	26
500 m <sup>2</sup>	16	18	32	37	80	92

Maintenance factor 0.8 Rh = Lh + 0.5 m

### DUS® IP60 | luminaire insert for T26 lamps open distribution

- Luminaire insert for quick mounting to trunking rail
- open distribution; diverse optical accessories available
- with ECG

- sheet steel housing, galvanized, pure white (similar to RAL 9010); twist-lock catches with metal clips for rapid fixing to rail
- protection rating: IP60
- insulation class: I

#### Electrics

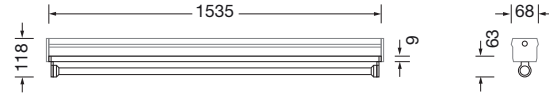
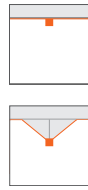
- Luminaire insert wired ready for connection, with 3-pole connection system
- suitable for 5-core or 7-core wired trunking rail
- 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



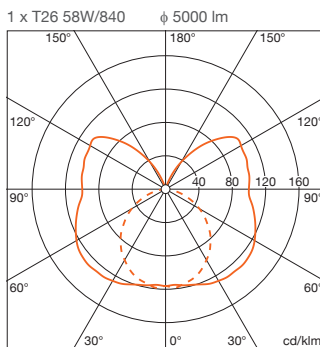
#### Light source

				Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	1.2	ECG	4039806166593	5LS90871E
2x T26 58 W	G13	1.4	ECG	4039806166630	5LS90872E

- please order trunking rail separately
- please order supplementary optics separately if required



4039806445803  
5LS90871EF0



$\eta_{LB}$  85.2%  $\phi_{\downarrow}$  65%  $\phi_{\uparrow}$  35%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	43222	4064
L <sub>70</sub>	23820	5627
L <sub>65</sub>	20036	6223

UGR 29.9 21.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.3	2.2	2.6	4.4	6.4	11
30 m <sup>2</sup>	1.7	2.6	3.4	5.3	8.4	13
40 m <sup>2</sup>	2.1	3.2	4.2	6.3	11	16
50 m <sup>2</sup>	2.5	3.6	5.0	7.3	12	18
75 m <sup>2</sup>	3.4	4.6	6.8	9.3	17	23
100 m <sup>2</sup>	4.4	5.8	8.7	12	22	29
500 m <sup>2</sup>	18	21	35	41	88	103

Maintenance factor 0.8 Rh = Lh + 0.5 m

**DUS® IP60 | luminaire insert for T26 lamps with lamp protection tube | open distribution | D**

Luminaire insert for quick mounting to trunking rail  
 — open distribution; with lamp protection tube; optical accessories available  
 — with ECG  
 — sheet steel housing, pure white (similar to RAL 9010); lamp protection tube of PC;

twist-lock catches with metal clips for rapid fixing to rail  
 — protection rating: IP60  
 — insulation class: I  
 — protection symbol: D

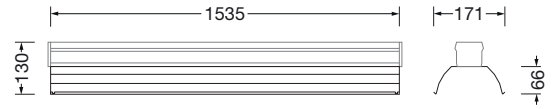
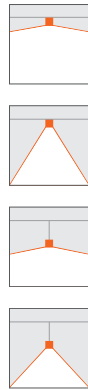
**Electrics**

- Luminaire insert wired ready for connection, with 3-pole connection system
- suitable for 5-core or 7-core wired trunking rail
  - 3-phase pre-selection via moving of contact pin prior to installation in trunking rail



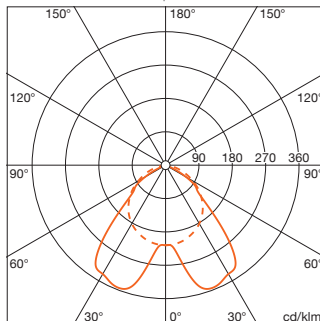
Light source				Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	1.4	ECG	4039806445803	5LS90871EF0
2x T26 58 W	G13	1.9	ECG	4039806445810	5LS90872EF0

- please order trunking rail separately
- please order supplementary optics separately if required



4039806166593 + 4039806096579  
5LS90871E + 5LJ14051EB0

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  80.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	0	1888
L <sub>70</sub>	60	2876
L <sub>65</sub>	1358	3200

UGR 17.1 21.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.8	1.4	1.6	2.9	4.1	7.2
30 m <sup>2</sup>	1.1	1.9	2.3	3.7	5.7	9.3
40 m <sup>2</sup>	1.5	2.2	3.0	4.4	7.5	11
50 m <sup>2</sup>	1.8	2.5	3.5	5.1	8.8	13
75 m <sup>2</sup>	2.4	3.4	4.9	6.8	12	17
100 m <sup>2</sup>	3.3	4.2	6.5	8.4	16	21
500 m <sup>2</sup>	15	16	29	33	74	82

Maintenance factor 0.8 Rh = Lh

**DUS® IP60 | specular batwing reflector  
aluminum, matt | direct extremely wide distribution**

Specular aluminum reflector for quick mounting to luminaire insert  
 — semi-specular reflector, direct wide distribution with reduced luminance below the luminaire (batwing)

- reflector of aluminum, matt
- mounting via twist-lock catches of luminaire insert



**Light source**

Light source	Weight (kg)	Order no. OSRAM	Order no. Siteco
Reflector 1/2x T26 58 W	0.5	4039806096579	5LJ14051EB0

— please order end caps and reflectors separately

**Mandatory accessories (for details see page 8.177)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, white	set of 2	0.1	4039806175014	5LJ14052XD
Reflector connector, white	set of 2	0.1	4039806175038	5LJ14055XD

**DUS® IP60 optical accessories**



**End cap for specular batwing reflector, wide distribution**

for clipping to reflector | plastic, white

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap, white	set of 2	4039806175014	5LJ14052XD

— for batwing reflector 5LJ1405...



**Connector for specular batwing reflector, wide distribution**

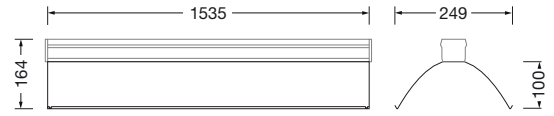
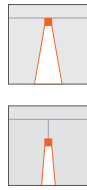
for clipping to reflector joint | as covering and for alignment of reflectors with trunking arrangements | plastic, white

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector, white	set of 2	4039806175038	5LJ14055XD

— for batwing reflector 5LJ1405...  
 — 2 pieces required per joint

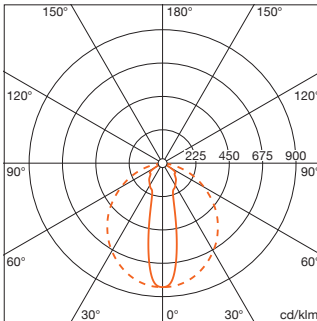


www.TESLI.com



4039806166593 + 4039806509505  
5LS90871E + 5LJ17031ES1

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  86.2%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2	4806
L <sub>70</sub>	1	7673
L <sub>65</sub>	190	8385

UGR 13.4 22.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(lx)		Em(lx)		Em(lx)	
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.6	1.1	1.2	2.1	3.0	5.3
30 m <sup>2</sup>	1.2	1.4	2.3	2.8	5.8	7.0
40 m <sup>2</sup>	1.3	1.7	2.6	3.5	6.5	8.7
50 m <sup>2</sup>	1.6	2.0	3.1	4.1	7.8	10
75 m <sup>2</sup>	2.6	2.8	5.2	5.6	13	14
100 m <sup>2</sup>	3.0	3.6	5.9	7.1	15	18
500 m <sup>2</sup>	13	15	27	29	67	73

Maintenance factor 0.8 Rh = Lh

**DUS® IP60 | highbay reflector**  
**aluminum, highly specular | direct narrow distribution**

Specular aluminum reflector for quick mounting to luminaire insert  
 — highly specular reflector, direct narrow distribution, optimized for highbay racking

- reflector of aluminum, matt outside, highly specular inside
- mounting via twist-lock catches of luminaire insert

• with trunking arrangements, overlapping occurs at joints



**Light source**

Reflector  
1x T26 58 W



0.7

**Order no.**  
**OSRAM**

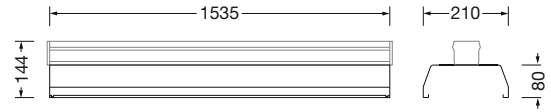
4039806509505

**Order no.**  
**Siteco**

5LJ17031ES1

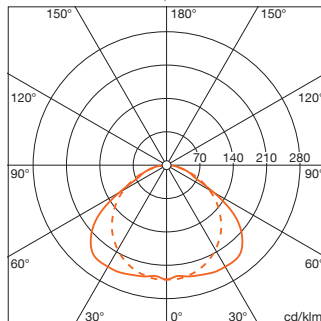






4039806166593 + 4039806096418  
5LS90871E + 5LJ14012EB0

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  80%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2771	2258
L <sub>70</sub>	2865	3178
L <sub>65</sub>	2994	3457

UGR 21 21.9

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.9	1.6	1.8	3.2	4.5	8.0
30 m <sup>2</sup>	1.3	2.1	2.6	4.1	6.5	10
40 m <sup>2</sup>	1.6	2.5	3.2	4.9	8.1	12
50 m <sup>2</sup>	1.9	2.8	3.9	5.6	9.6	14
75 m <sup>2</sup>	2.7	3.7	5.5	7.4	14	19
100 m <sup>2</sup>	3.5	4.6	7.0	9.1	17	23
500 m <sup>2</sup>	15	17	30	34	76	86

Maintenance factor 0.8

Rh = Lh

**DUS® IP60 | reflector**

**extremely wide distribution; with or without ceiling illumination**

Reflector for quick mounting to luminaire insert

— direct extremely wide distribution or direct extremely wide distribution with ceiling illumination; suitable for use with louvers, specular reflectors or prismatic diffusers

— sheet steel reflector, pure white (similar to RAL 9010)

— mounting via twist-lock catches of luminaire insert



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

Reflector with ceiling illumination

1/2x T26 58 W	2.1	4039806096470	5LJ14022EB0
---------------	-----	---------------	-------------

Reflector, direct distribution

1/2x T26 58 W	2.2	4039806096418	5LJ14012EB0
---------------	-----	---------------	-------------

- please order end caps and reflectors separately
- please order supplementary optics separately if required

**Mandatory accessories (for details see page 8.182)**

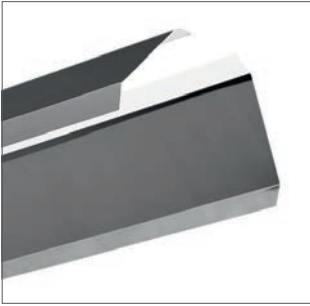
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
End cap, white	set of 2	0.1	4039806174956	5LJ14012XD
Reflector connector, white		0.1	4039806174987	5LJ14020XD

**Accessories (for details see page 8.180 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, highly specular, narrow distribution, for 1/2x T26 58W	set of 2	0.4	4039806096340	5LJ14011ES
Reflector, aluminum, highly specular, wide distribution, for 1/2x T26 58W	set of 2	0.4	4039806096241	5LJ14001ES
Ribbed cross-blade louver, aluminum, for 1/2x T26 58W		0.9	4039806095275	5LE78512ER
Cross-blade louver, sheet steel, white, for 1/2x T26 58W		0.6	4039806094551	5LE78012ER
Prismatic panel, for 1/2x T26 58W		0.9	4039806094735	5LE78032EGO
Intermediate reflector cap, white	set of 2	0.1	4039806096289	5LJ14002XD



**DUS® IP60 optical accessories**



**DUS® reflector insert | direct medium or wide distribution\***

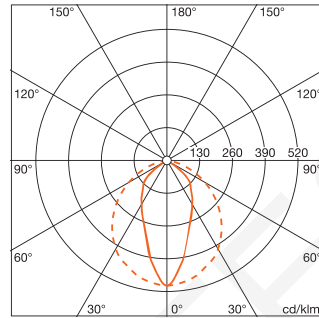
for mounting in DUS® reflector | highly specular aluminum | snap fits to reflector

for light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Specular reflector, medium distribution				
1/2x T26 58W	1528	0.5	4039806096340	5LJ14011ES
Specular reflector, wide distribution				
1/2x T26 58W	1528	0.5	4039806096241	5LJ14001ES

— for DUS® reflector 5LJ1401... | 5LJ1402...  
 \* asymmetric light distribution (similar to wallwasher) with combination of medium and wide distribution reflector segments; combination possible with aluminum ribbed cross-blade louver or white cross-blade louver

4039806166593 + 4039806096418  
 + 4039806096340  
 5LS90871E + 5LJ14012EB0 +  
 5LJ14011ES

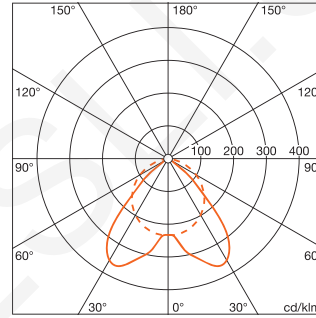
1 x T26 58W/840  $\phi$  5000 lm



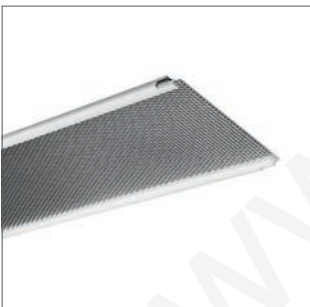
$\eta_{LB}$  76.6%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

4039806166593 + 4039806096418  
 + 4039806096241  
 5LS90871E + 5LJ14012EB0 +  
 5LJ14001ES

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  72.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%



**DUS® prismatic cover**

for laying into\* DUS® reflector | prismatic cover of PMMA | with longitudinal plastic profiles

for light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cover panel				
1/2x T26 58W	1528	1.0	4039806094735	5LE78032EGO

— for complete concealing of lamps, an additional intermediate reflector cap can be fitted per reflector joint

— for DUS® reflector 5LJ1401... | 5LJ1402...

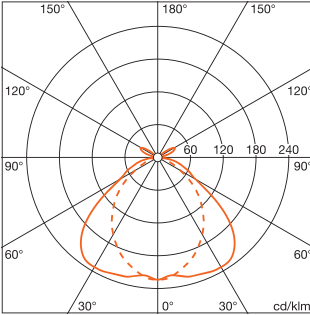
\* lay-in mounting, no louver catch required





4039806166593 + 4039806095275  
 + 4039806096470  
 5LS90871E + 5LE78512ER +  
 5LJ14022EB0

1 x T26 58W/840  $\phi$  5000 lm

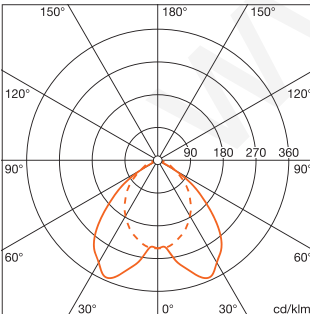


$\eta_{LB}$  61.4%  $\phi_{\downarrow}$  92%  $\phi_{\uparrow}$  8%



4039806166593 + 4039806094551  
 + 4039806096418 +  
 4039806096241  
 5LS90871E + 5LE78012ER +  
 5LJ14012EB0 + 5LJ14001ES

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  70.1%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

### DUS® aluminum ribbed cross-blade louver, matt

for laying in\* DUS® reflector | aluminum, matt anodized

for light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ribbed cross-blade louver				
1/2x T26 58W	1528	0.9	4039806095275	5LE78512ER

— can be combined with medium or wide distribution reflector

— for DUS® reflector 5LJ1401... | 5LJ1402...

\* lay-in mounting, no louver catch required

### DUS® cross-blade louver, white

for laying in\* DUS® reflector | sheet steel, pure white

for light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cross-blade louver				
1/2x T26 58W	1528	1.3	4039806094551	5LE78012ER

— can be combined with medium or wide distribution reflector

— for DUS® reflector 5LJ1401... | 5LJ1402...

\* lay-in mounting, no louver catch required



### End cap for reflector

for clipping to reflector | plastic, white

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap, white	set of 2	4039806174956	5LJ14012XD

— for DUS® reflector 5LJ1401... | 5LJ1402...

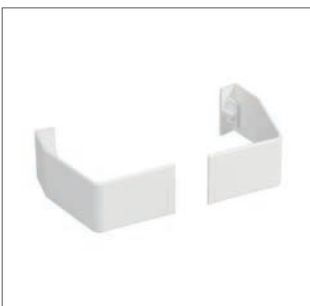


### Intermediate cap for reflector

for clipping to reflector at the joint between two reflectors | plastic, white

Designation	Order no. OSRAM	Order no. Siteco
Intermediate cap, white	4039806096289	5LJ14002XD

— as "intermediate end cap" between reflectors with seamless trunking or for complete concealment of lamps in combination with prismatic cover  
 — for DUS® reflector 5LJ1401... | 5LJ1402...



### Connector for reflector

plastic, white

Designation	PU	Order no. OSRAM	Order no. Siteco
Connector, white	set of 2	4039806174987	5LJ14020XD

— 2 pieces required per joint  
 — for clipping to reflector joint as covering and for alignment of reflectors with trunking arrangements  
 — for DUS® reflector 5LJ1401... | 5LJ1402...



## DUS® IP60 mounting accessories



### Ceiling mounting "A"

galvanized steel, incl. spacer | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806106308	5LJ90930XC



### Wire suspension "B"

with height adjustment | without wire (for wire: D = 1.5mm) | load capacity: 16kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension	4039806106216	5LJ90921XC



### Wire suspension "C"

with height adjustment | with loop at top, wire: D = 1.5mm | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	$H \leq 1\text{m}$	4039806106001	5LJ90900
Wire suspension	$H \leq 2\text{m}$	4039806106056	5LJ90901

— without ceiling-sided mounting (ceiling hooks on site)



### Wire suspension "D"

with height adjustment | incl. wire, ceiling fixing element and white canopy | wire: l = 2m, D = 1.2mm | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension without terminal	4039806848017	5LJ909001
Wire suspension with terminal <sup>1)</sup>	4039806106247	5LJ90921XC2
Supplementary wire	l = 6m <sup>2)</sup>	4039806144386

1) with 5 terminals, 1-pole, max. 2.5mm<sup>2</sup>

2) for 2 part lengths  $\leq 3\text{m}$  or for 1 suspension  $\leq 6\text{m}$



### Chain suspension "E"

on rail | safety hook with height adjustment | galvanized steel | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
-------------	-----------------	------------------

Chain suspension	4039806089359	5LJ90910XC
------------------	---------------	------------

— without chain, without ceiling-sided mounting (ceiling hooks on site)



### Chain suspension "F"

safety hook with height adjustment | galvanized steel, partly with diecast aluminum | incl. suspension bracket, quick-release link and white canopy | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
-------------	-----------------	------------------

Chain suspension	4039806106124	5LJ90912XC
------------------	---------------	------------

— without chain



### Chain suspension "G"

on rail | safety hook with height adjustment | galvanized steel, partly with diecast aluminum | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
-------------	-----------------	------------------

Chain suspension	4039806133403	5LJ90911XC
------------------	---------------	------------

— without chain, without ceiling-sided mounting (ceiling hooks on site)



### Chain, galvanized

inner link size 7 x 40mm | load capacity: 56kg

#### Quick-release link (not shown)

inner link size 7 x 20mm | load capacity: 50kg

Designation	Order no. OSRAM	Order no. Siteco
-------------	-----------------	------------------

Chain	galvanized	4039806999856	5LY9005
-------	------------	---------------	---------

Quick-release link	galvanized	4039806176011	5LY9113
--------------------	------------	---------------	---------

— without chain, without ceiling-sided mounting (ceiling hooks on site)

The number of mounting points results from the weight of the trunking system (depending on configuration and lamps) and the load capacity of the suspension. With additional loads, supplementary suspension may be required. The maximum permissible distance between two mounting points and the maximum permissible length of the unsupported rail end must not be exceeded.

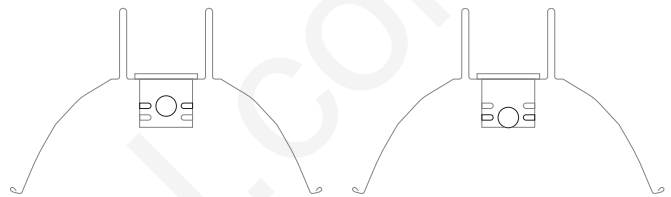
— max. permissible distance between two mounting points:  $l_{\max} = 3.5\text{m}$

— maximum permissible length of the unsupported rail:  $l_{a\max} = 0.8\text{m}$

#### For DUS® trunking luminaire (5LS175... | 5LS176...)

— max. permissible distance between two mounting points:  $l_{\max} = 3.0\text{m}$

# Hexal<sup>®</sup>-a trunking system



The Hexal<sup>®</sup>-a trunking system is based on a variable modular system that is able to adapt flexibly to complex lighting tasks. It is characterized by a very low weight and an unusual appearance. Both come from the special construction and material of the compact luminaire module: The housing is constructed of extremely thin aluminum and also fulfills the function of a reflector. The material features a visually attractive, highly functional, robust and form-stable hexagonal structure of three-dimensional hexagons. The structure creates optimal, glare-free light point resolution and saves up to 80% in weight. This means that mounting distances of up to 4 meters can be achieved with a 1 to 4-length Hexal<sup>®</sup>-a trunking arrangement. Different light distribution patterns can be created with the various optical components. In addition to CAT2 specular louvers, ribbed cross-blade louvers and lamellae, a brilliant prismatic enclosure, an opal diffuser and a wallwasher insert for asymmetric distribution are available.

## Features

- reflector of highly specular anodized aluminum lends luminaire a high-quality appearance
- special hexagonal structure for high inherent stability with minimal material thickness
- ultra-light luminaire: approx. 80% weight reduction compared to conventional trunking systems and approx. 50% weight reduction compared to conventional single luminaires
- single unit technology: short installation time thanks to integration of trunking rail, reflector and luminaire insert to a 1 to 4-length unit
- extremely easy installation (only approx. 40% mounting time compared to conventional systems)
- wide distances between suspension points up to 4m
- mounting almost entirely without tools
- dirt-resistant
- simple refurbishing of existing trunking with fixing clip for already existing trunking rail systems



### Lighting technology

Luminaire module of highly specular anodized aluminum

- direct distribution or direct distribution with ceiling illumination via perforated reflector
- narrow or wide distribution via adjustment of socket

Additional lighting technology as accessories:

- highly specular anodized louver, CAT2 ( $L \leq 1000\text{cd/m}^2$ )
- wallwasher, matt anodized, asymmetric distribution
- aluminum ribbed cross-blade louver, matt anodized
- cross-blade louver coated in white aluminum
- prismatic diffuser
- lamp diffuser, opal, for clipping to lamp

### Electrics

Luminaire module wired ready for connection

Module without through-wiring and with 3-pole connection terminal (ECG DALI or ECG 1...10V: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

Multi-length module with through-wiring with 5-pole connection terminal (ECG DALI or ECG 1...10V: 5-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | with through-wiring 5x or 7x 1.5mm<sup>2</sup>

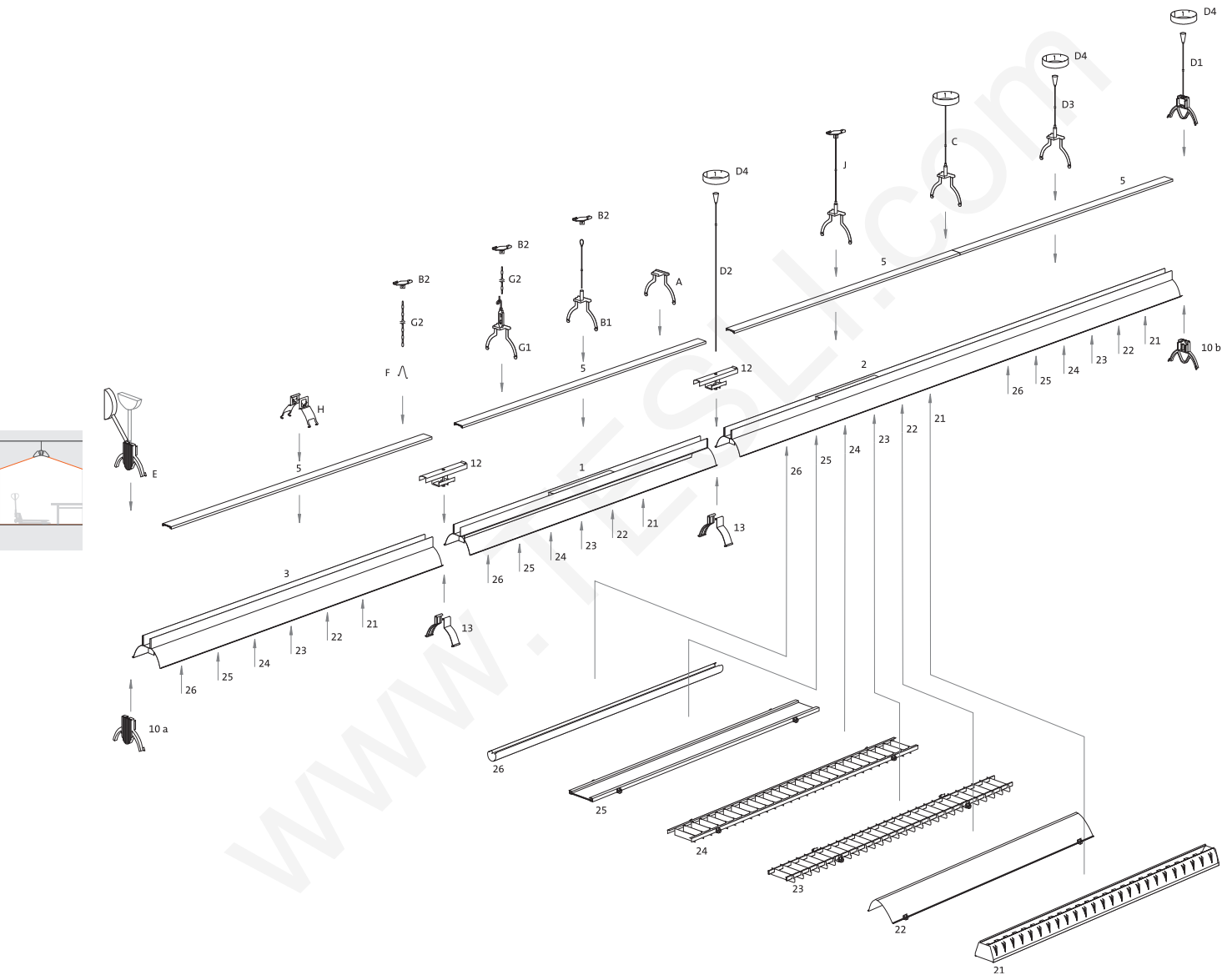
### Housing

Luminaire module of highly specular anodized aluminum | high inherent stability with very low weight via hexagonal structured surface | large distances between suspension points of up to 4m with robust connection elements





# System overview Hexal<sup>®</sup>-a



**Suspensions**

A...J Wire and chain suspension

**Page**

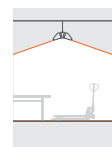
8.197

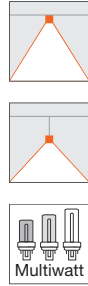
**Hexal®-a, aluminum – direct distribution or direct distribution with ceiling illumination**

1	Luminaire module 1-length		8.189
2	Luminaire module 2-length		8.189
	Luminaire module 3-length		8.190
	Luminaire module 4-length		8.190
3	1-length empty module	length same as T16 28/54W luminaire module	8.193
5	Top cover	aluminum	8.196
		plastic, silver gray	8.196
10	Design end cap	aluminum, silver gray	8.196
12	Connector for modules	steel, galvanized	8.196
13	Lamination for module joint	plastic, silver gray	8.196

**Supplementary lighting technology for T16 lamps**

21	BAP65 reflector louver		8.193
22	Wallwasher, direct asymmetric distribution		8.193
23	Ribbed aluminum louver, matt		8.194
24	Cross-blade louver, silver		8.194
25	Prismatic cover		8.195
26	Lamp diffuser, opal		8.195

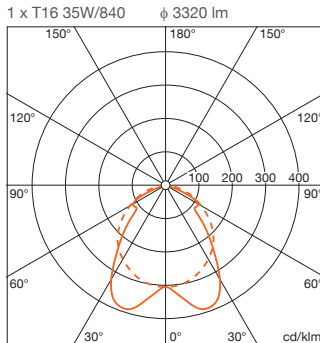




T16  
G5



4039806575777  
5LJ91371Q



$\eta_{LB}$  86.5%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	71	2777
L <sub>70</sub>	1810	3689
L <sub>65</sub>	3513	3958

UGR 18.2 21.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	1.1	1.9	2.3	3.8	5.6	9.6
30 m <sup>2</sup>	1.6	2.5	3.3	5.1	8.1	13
40 m <sup>2</sup>	2.1	3.1	4.2	6.1	10	15
50 m <sup>2</sup>	2.5	3.5	5.0	7.1	12	18
75 m <sup>2</sup>	3.5	4.8	7.0	9.5	18	24
100 m <sup>2</sup>	4.6	5.9	9.2	12	23	30
500 m <sup>2</sup>	21	23	41	46	103	115

Maintenance factor 0.8

Rh = Lh

**Hexal®-a**  
**direct distribution**

Trunking system in modular form for mounting close to ceiling or for suspended mounting  
 — direct distribution with variable lighting characteristics via socket adjustment;  
 CAT specular louver, wallwasher reflector and additional light control elements as accessories

- with ECG Multiwatt
- housing of aluminum, highly specular anodized, with hexagonal structure
- protection rating: IP20
- insulation class: I
- without end caps
- without connectors



**Light source**



**1-length**


					Order no. OSRAM	Order no. Siteco
1x T16 28/54W	G5	1197	1.0	Multi	4039806852526	5LJ91371H
1x T16 28/54W	G5	1197	1.0	Multi DALI	4039806852595	5LJ913D1H
1x T16 28/54W	G5	1197	1.0	Multi 1...10V	4039806852403	5LJ91361H
1x T16 35/49/80W	G5	1497	1.1	Multi	4039806575777	5LJ91371Q
1x T16 35/49/80W	G5	1497	1.1	Multi DALI	4039806852649	5LJ913D1Q
1x T16 35/49/80W	G5	1497	1.1	Multi 1...10V	4039806852458	5LJ91361Q
2x T16 28/54W	G5	1197	1.0	Multi	4039806852571	5LJ91372H
2x T16 28/54W	G5	1197	1.0	Multi DALI	4039806852694	5LJ913D2H
2x T16 28/54W	G5	1197	1.0	Multi 1...10V	4039806852502	5LJ91362H
2x T16 35/49/80W	G5	1497	1.1	Multi	4039806852588	5LJ91372Q
2x T16 35/49/80W	G5	1497	1.1	Multi DALI	4039806852700	5LJ913D2Q
2x T16 35/49/80W	G5	1497	1.1	Multi 1...10V	4039806852519	5LJ91362Q

**2-length**

2x 1x T16 28/54W	G5	2388	1.4	Multi	4039806852533	5LJ91371HM
2x 1x T16 28/54W	G5	2388	1.4	Multi DALI	4039806852601	5LJ913D1HM
2x 1x T16 28/54W	G5	2388	1.4	Multi 1...10V	4039806852410	5LJ91361HM
2x 1x T16 35/49/80W	G5	2984	1.4	Multi	4039806852564	5LJ91371QM
2x 1x T16 35/49/80W	G5	2984	1.4	Multi DALI	4039806852656	5LJ913D1QM
2x 1x T16 35/49/80W	G5	2984	1.4	Multi 1...10V	4039806852465	5LJ91361QM

**1-length empty module**

		1197	1.0		4039806133243	5LJ91301UB
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Light source						Order no.	Order no.
						OSRAM	Siteco
2-length with through-wiring							
2x 1x T16 28/54W	G5	2388	1.6	Multi		4039806809469	5LJ91371HMD
2x 1x T16 28/54W	G5	2388	1.6	Multi DALI		4039806852618	5LJ913D1HMD
2x 1x T16 28/54W	G5	2388	1.6	Multi 1...10V		4039806852427	5LJ91361HMD
2x 1x T16 35/49/80W	G5	2984	1.9	Multi		4039806572363	5LJ91371QMD
2x 1x T16 35/49/80W	G5	2984	1.9	Multi DALI		4039806852663	5LJ913D1QMD
2x 1x T16 35/49/80W	G5	2984	1.9	Multi 1...10V		4039806852472	5LJ91361QMD
3-length with through-wiring							
3x 1x T16 28/54W	G5	3571	2.8	Multi		4039806852540	5LJ91371HX03D
3x 1x T16 28/54W	G5	3571	2.8	Multi DALI		4039806852625	5LJ913D1HX03D
3x 1x T16 28/54W	G5	3571	2.8	Multi 1...10V		4039806852434	5LJ91361HX03D
3x 1x T16 35/49/80W	G5	4470	2.8	Multi		4039806572387	5LJ91371QX03D
3x 1x T16 35/49/80W	G5	4470	2.8	Multi DALI		4039806852670	5LJ913D1QX03D
3x 1x T16 35/49/80W	G5	4470	2.8	Multi 1...10V		4039806852489	5LJ91361QX03D
4-length with through-wiring							
4x 1x T16 28/54W	G5	4762	3.6	Multi		4039806852557	5LJ91371HX04D
4x 1x T16 28/54W	G5	4762	3.6	Multi DALI		4039806852632	5LJ913D1HX04D
4x 1x T16 28/54W	G5	4762	3.6	Multi 1...10V		4039806852441	5LJ91361HX04D
4x 1x T16 35/49/80W	G5	5961	6.9	Multi		4039806596253	5LJ91371QX04D
4x 1x T16 35/49/80W	G5	5961	6.9	Multi DALI		4039806852687	5LJ913D1QX04D
4x 1x T16 35/49/80W	G5	5961	6.9	Multi 1...10V		4039806852496	5LJ91361QX04D

- modules with through-wiring: DV = 5x 1.5mm<sup>2</sup> with ECG, DV = 7x 1.5mm<sup>2</sup> with ECG DALI and ECG 1...10V
- please order end-cap sets, connectors and covers separately
- please order supplementary optics separately if required

**For accessories (suspension, end cap, connector and supplementary lighting technology), see page 8.193 ff.**



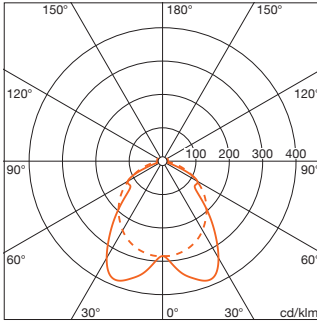


T16  
G5



4039806852793  
5LJ93371H

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  92.7%  $\phi_{\downarrow}$  96%  $\phi_{\uparrow}$  4%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2745	4581
L <sub>70</sub>	3331	5876
L <sub>65</sub>	6172	6388

UGR 20.8 23

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(x)	100		200		500	
	3.0	5.0	3.0	5.0	3.0	5.0
20 m <sup>2</sup>	0.8	1.4	1.7	2.9	4.2	7.2
30 m <sup>2</sup>	1.2	1.9	2.4	3.8	6.0	9.4
40 m <sup>2</sup>	1.5	2.3	3.1	4.5	7.6	11
50 m <sup>2</sup>	1.8	2.6	3.6	5.2	9.1	13
75 m <sup>2</sup>	2.6	3.5	5.2	7.0	13	17
100 m <sup>2</sup>	3.4	4.4	6.7	8.7	17	22
500 m <sup>2</sup>	15	17	30	34	75	84

Maintenance factor 0.8

Rh = Lh

### Hexal®-a direct distribution with ceiling illumination

- Trunking system in modular form for mounting close to ceiling or for suspended mounting
- direct distribution with decorative ceiling illumination, variable lighting characteristics via socket adjustment; CAT specular light-guiding elements as accessories
- with ECG Multiwatt
- housing of aluminum, highly specular anodized, with hexagonal structure
- protection rating: IP20
- insulation class: I
- without end caps
- without connectors



#### Light source



#### 1-length





Light source	Order no. OSRAM	Order no. Siteco
1x T16 28/54W G5 1197 0.9 Multi	4039806852793	5LJ93371H
1x T16 28/54W G5 1197 0.9 Multi DALI	4039806852854	5LJ933D1H
1x T16 28/54W G5 1197 0.9 Multi 1...10V	4039806852205	5LJ93361H
1x T16 35/49/80W G5 1497 1.1 Multi	4039806539311	5LJ93371Q
1x T16 35/49/80W G5 1497 1.1 Multi DALI	4039806852908	5LJ933D1Q
1x T16 35/49/80W G5 1497 1.1 Multi 1...10V	4039806852748	5LJ93361Q

#### 2-length

Light source	Order no. OSRAM	Order no. Siteco
2x 1x T16 28/54W G5 2388 2.1 Multi	4039806852809	5LJ93371HM
2x 1x T16 28/54W G5 2388 2.1 Multi DALI	4039806852861	5LJ933D1HM
2x 1x T16 28/54W G5 2388 2.1 Multi 1...10V	4039806852717	5LJ93361HM
2x 1x T16 35/49/80W G5 2984 2.3 Multi	4039806852847	5LJ93371QM
2x 1x T16 35/49/80W G5 2984 2.3 Multi DALI	4039806852915	5LJ933D1QM
2x 1x T16 35/49/80W G5 2984 2.3 Multi 1...10V	4039806852755	5LJ93361QM

#### 1-length empty module

Light source	Order no. OSRAM	Order no. Siteco
1-length empty module	1197 0.6	4039806133281 5LJ93301UB

Light source						Order no.	Order no.
						OSRAM	Siteco
2-length with through-wiring							
2x 1x T16 28/54W	G5	2388	1.6	Multi		4039806852816	5LJ93371HMD
2x 1x T16 28/54W	G5	2388	1.6	Multi DALI		4039806852878	5LJ933D1HMD
2x 1x T16 28/54W	G5	2388	1.6	Multi 1...10V		4039806852229	5LJ93361HMD
2x 1x T16 35/49/80W	G5	2984	1.6	Multi		4039806513137	5LJ93371QMD
2x 1x T16 35/49/80W	G5	2984	1.6	Multi DALI		4039806852922	5LJ933D1QMD
2x 1x T16 35/49/80W	G5	2984	1.6	Multi 1...10V		4039806852762	5LJ93361QMD
3-length with through-wiring							
3x 1x T16 28/54W	G5	3571	2.8	Multi		4039806852823	5LJ93371HX03D
3x 1x T16 28/54W	G5	3571	2.8	Multi DALI		4039806852885	5LJ933D1HX03D
3x 1x T16 28/54W	G5	3571	2.8	Multi 1...10V		4039806852724	5LJ93361HX03D
3x 1x T16 35/49/80W	G5	4470	2.8	Multi		4039806513151	5LJ93371QX03D
3x 1x T16 35/49/80W	G5	4470	2.8	Multi DALI		4039806852939	5LJ933D1QX03D
3x 1x T16 35/49/80W	G5	4470	2.8	Multi 1...10V		4039806852779	5LJ93361QX03D
4-length with through-wiring							
4x 1x T16 28/54W	G5	4762	3.6	Multi		4039806852830	5LJ93371HX04D
4x 1x T16 28/54W	G5	4762	3.6	Multi DALI		4039806852892	5LJ933D1HX04D
4x 1x T16 28/54W	G5	4762	3.6	Multi 1...10V		4039806852731	5LJ93361HX04D
4x 1x T16 35/49/80W	G5	5961	3.6	Multi		4039806596383	5LJ93371QX04D
4x 1x T16 35/49/80W	G5	5961	3.6	Multi DALI		4039806852946	5LJ933D1QX04D
4x 1x T16 35/49/80W	G5	5961	3.6	Multi 1...10V		4039806852786	5LJ93361QX04D

- modules with through-wiring: DV = 5x 1.5mm<sup>2</sup> with ECG, DV = 7x 1.5mm<sup>2</sup> with ECG DALI and ECG 1...10V
- please order end-cap sets, connectors and covers separately
- please order supplementary optics separately if required

**For accessories (suspension, end cap, connector and supplementary lighting technology), see page 8.193 ff.**



### Hexal<sup>®</sup>-a optical accessories

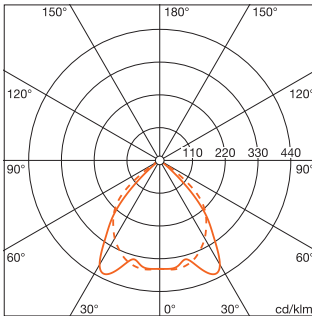
#### Hexal<sup>®</sup>-a CAT2 specular louvers

for installation in the light module | aluminum, CAT2 ( $L \leq 1000 \text{cd/m}^2$ )



4039806852526 + 4039806231833  
5LJ91371H + 5LE98211UR2

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  69.6%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Light source	Wt. (kg)	Order no. OSRAM	Order no. Siteco
High-gloss specular louver			
1x T16 28/54W	0.5	4039806231833	5LE98211UR2
1x T16 35/49/80W	0.5	4039806231819	5LE98211RR2
Matt specular louver			
1x T16 28/54W	0.5	4039806235022	5LE98411UR2
1x T16 35/49/80W	0.5	4039806395979	5LE98411RR2

— with spring catches for tool-free snap mounting

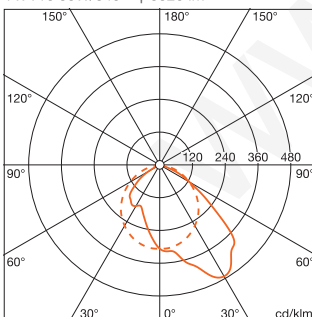
#### Hexal<sup>®</sup>-a wallwasher specular reflectors

for installation in the light module | matt aluminum, direct asymmetric distribution



4039806575777 + 4039806232724  
5LJ91371Q + 5LE98111RA

1 x T16 35W/840  $\phi$  3320 lm



$\eta_{LB}$  85.4%  
 $I_{max}$  471 cd/klm at  $\gamma$  30°

Light source	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wallwasher			
1x T16 28/54W	0.6	4039806231796	5LE98111UA
1x T16 35/49/80W	0.7	4039806232724	5LE98111RA

— with spring catches for tool-free snap mounting





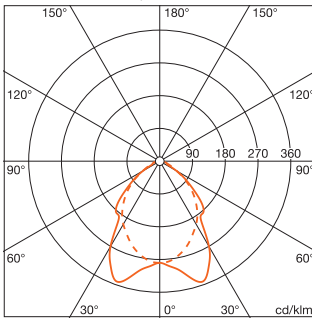
### Hexal<sup>®</sup>-a aluminum ribbed cross-blade louver, matt

for installation in the light module | matt aluminum

Light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Aluminum ribbed cross-blade louver				
1/2x T16 28/54W	1188	0.7	4039806132628	5LE98011UR
1/2x T16 35/49/80W	1488	0.9	4039806110237	5LE98011RR

— with spring catches for tool-free snap mounting

4039806852526 + 4039806132628  
5LJ91371H + 5LE98011UR  
1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  61.2%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%



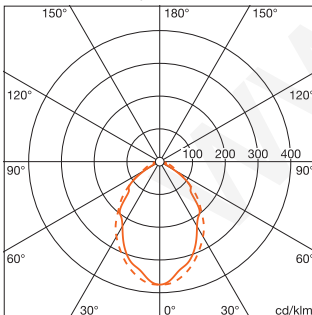
### Hexal<sup>®</sup>-a cross-blade louver

for installation in the light module | sheet steel, with impact-resistant plastic coating, white aluminum (RAL 9006)

Light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Silver cross-blade louver				
1/2x T16 28/54W	1188	0.9	4039806094759	5LE98311UR
1/2x T16 35/49/80W	1488	1.1	4039806138705	5LE98311RR

— with spring catches for tool-free snap mounting

4039806852526 + 4039806094759  
5LJ91371H + 5LE98311UR  
1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  66.3%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%





### Hexal<sup>®</sup>-a prismatic diffuser

for installation in the light module | PMMA prismatic diffuser with longitudinal matt aluminum profiles

Light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
prismatic diffuser				
1x T16 28/54W	1188	0.6	4039806110114	5LE98111UG
1x T16 35/49/80W	1488	0.7	4039806110138	5LE98111RG

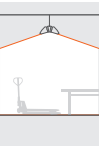
— with spring catches for tool-free snap mounting



### Hexal<sup>®</sup>-a lamp diffuser, opal

for clipping to the lamp | PMMA

Light source	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
lamp diffuser				
1x T16 28/54W	1188	0.5	4039806184702	5LE98111UH
1x T16 35/49/80W	1488	0.6	4039806184726	5LE98111RH



## Hexal®-a housing accessories



### Designer end cap

with ribbed structure | diecast aluminum | can be installed without tools

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	1 set = 2 pieces	4039806133199	5LJ90010ED

— ribbed end cap structure also suited for the flush-fit mounting of individual light modules in row arrangements (not firm, not self-supporting)



### Connector for modules

galvanized steel sheet | self-supporting connection of the light modules via screw mounting

Designation	Order no. OSRAM	Order no. Siteco
Connector	4039806120939	5LJ90010XV1

— 1 piece required for each joint  
 — at least 1 suspension of no more than 1.5m required along with the joint (suspension directly next to the joint not required)



### Cover for module joint

plastic with foam sealing | for clipping to the reflector joint | as covering and for aligning the reflectors for continuous row mounting

Designation	PU	Order no. OSRAM	Order no. Siteco
Silver-gray joint cover	1 set = 2 pieces	4039806139351	5LJ90040ED1

— 2 piece required for each joint



### Top cover for modules

for areas with dust ingress or for visual enhancement of the modules (when viewed from above) | can be mounted without tools

Designation	l (mm)	Order no. OSRAM	Order no. Siteco
Top cover			
Silver-gray plastic	1197	4039806184405	5LJ90030UD1
Silver-gray plastic	1555	4039806187079	5LJ90030ED1
Anodized aluminum	1197	4039806187055	5LJ90030EDA1
Anodized aluminum	2385	4039806187116	5LJ90030EDA2

— plastic cover can be easily cut to suit



## Hexal®-a mounting accessories

The number of fixing points is based on the weight of the entire arrangement, the load capacity of the suspension and the number of joints. The maximum allowable distance between two fixing points, the maximum length of the self-supporting rail end and the maximum allowable distance to the joint of the light modules, however, must not be exceeded.

- length of the self-supporting rail end:  $l_{\min} = 0.2\text{m}^1$ ,  $l_{\max} = 0.5\text{m}^1$
- maximum allowable distance between two fixing points:  $l_{\max} = 4.0\text{m}$
- at least one suspension is required in the area of the joint:  $l_{\max} = 1.5\text{m}$

<sup>1)</sup> does not apply to end-cap suspensions and end-cap pendant suspensions; the suspension for these is located directly on the end cap



### Ceiling mount "A"

galvanized steel | for mounting near the ceiling | the bracket on the light module can be mounted without tools and positioned as desired | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco
Galvanized ceiling mount	4039806197108	5LJ90030XC2



### End-cap wire suspension "D1"

with nickel-plated conical ceiling mounting element, for height adjustment (on ceiling side) | designer end cap with ribbed structure, die cast aluminum | can be mounted on the light module without tools | wire:  $D = 1.5\text{mm}$ ;  $l = 2\text{m}$  | load capacity: 12kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Wire suspension	1 set = 2 pieces	4039806132277	5LJ90050ED
Additional wire	$l = 6\text{m}^1$	4039806144386	5LK91300

<sup>1)</sup> for 2 sections  $\leq 3\text{m}$  or 1 suspension  $\leq 6\text{m}$

- ribbed end cap structure also suited for the flush-fit mounting of individual light modules in row arrangements (not firm, not self-supporting)



### Wire suspension for connectors "D2"

with nickel-plated conical ceiling mounting element, for height adjustment (on ceiling side) | can be mounted on the module connector without tools | wire:  $D = 1.5\text{mm}$ ;  $l = 2\text{m}$  | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension	4039806510341	5LJ90060XC2

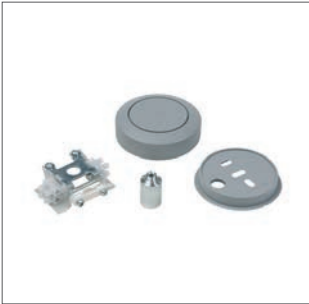
- without module connector, please order the connector separately



### Wire suspension "D3"

with nickel-plated conical ceiling mounting element, for height adjustment (on ceiling side) | galvanized steel bracket | can be mounted on the light module without tools and positioned as desired | wire:  $D = 1.5\text{mm}$ ;  $l = 2\text{m}$  | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension	4039806510334	5LJ90060XC1S



### Additional canopy "D4"

for wire suspensions with conical ceiling mount element (D1 | D2 | D3) | plastic silver-gray canopy; with 5-pole connection terminal, max. 2.5mm<sup>2</sup> | including ceiling mount element with height adjustment | without wire

Designation	Order no. OSRAM	Order no. Siteco
Additional canopy	4039806132086	5LJ90090XC

— wire with ceiling mount element; the original wire suspension must be replaced



### Wire suspension "C"

with plastic silver-gray canopy | with height adjustment on the luminaire side | steel bracket | can be mounted on the light module without tools and positioned as desired | wire: D = 1.5mm; l = 2m | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension without clamps	4039806510365	5LJ90070XC1S
Wire suspension with clamps <sup>1)</sup>	4039806510389	5LJ90080XC1S

1) with 5 terminals, 1-pole, max. 2,5mm<sup>2</sup>



### Wire suspension with caddy clip "J"

with caddy clip, pure white (RAL 9010) | with height adjustment (on the luminaire side) | steel bracket | can be mounted on the light module without tools and positioned as desired | wire: D = 1.5mm; l = 30 cm | load capacity: 12kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Suspension bracket	H ≤ 0.3m	4039806194404	5LJ90020XCL

— caddy clip for hooking into the support profile (b = 24mm) of a suspended system ceiling



### Wire suspension "B1"

with height adjustment (on the luminaire side) | steel bracket | can be mounted on the light module without tools and positioned as desired; including loop at the top; wire: D = 1.5mm | load capacity: 12kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	H ≤ 2m	4039806094650	5LJ90020XC1
Wire suspension	H ≤ 3m	4039806094681	5LJ90020XC2



### Caddy clip "B2"

with galvanized safety link | load capacity: 140kg

Designation	Order no. OSRAM	Order no. Siteco
Caddy clip	4039806111746	5LJ90020XCT

— caddy clip for hooking into the support profile (b = 24mm) of a suspended system ceiling



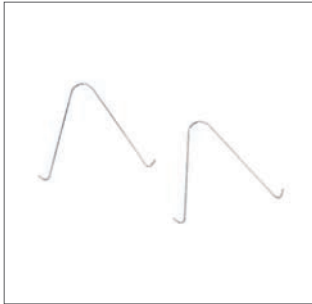


### End-cap pendant suspension "E"

for wall or ceiling mounting, with designer end cap, pendant and element for ceiling or wall mounting (can be adjusted to 90° and 45°) | l = 150mm | load capacity: 12kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Pendant suspension	1 set = 2 pieces	4039806132246	5LJ90000ED

— ribbed end cap structure also suited for the flush mounting of individual light modules in row arrangements (not force-fitting, not self-supporting)



### Suspension bracket, V2A "F"

for suspended mounting or mounting near the ceiling, e.g. for chain | for suspending in the light modules at the specified fixing points

Designation	PU	Order no. OSRAM	Order no. Siteco
Suspension bracket	1 set = 50 pieces	4039806132192	5LJ90060XC

— 2 pieces required for each light module  
— without chain



### Chain suspension "G1"

on the rail side | safety hooks with height compensation | galvanized steel bracket | can be mounted on the light module without tools and positioned as desired | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco
Chain suspension	4039806133106	5LJ90010XC

— without chain

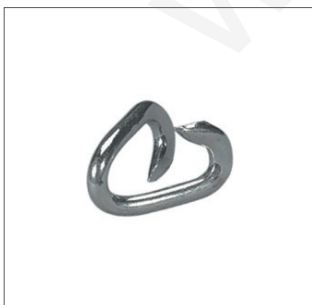


### Node chain "G2"

link size<sub>inside</sub> 5.6 x 31mm | load capacity: 40kg

Designation	Order no. OSRAM	Order no. Siteco	
Chain	galvanized	4039806184290	5LY9001
Chain	V2A	4039806184313	5LY9002

— chain: per meter



### Safety link

link size<sub>inside</sub> 5 x 15mm | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco	
Safety link	V2A	4039806184368	5LY9004



### Refurbishing and mounting set "H"

for the use of Hexal<sup>®</sup>-a modules in (existing) DUS<sup>®</sup> trunking rails; fixing clips, V2A, including connection cable and plug for connection to the rail wiring

Set 1: Hexal<sup>®</sup>-a in current DUS<sup>®</sup> trunking rail 5LJ909...

Set 2: Hexal<sup>®</sup>-a in DUS<sup>®</sup> "classic" trunking rail 5LJ809...

Designation		Order no. OSRAM	Order no. Siteco
Set 1	for current DUS trunking rail 5LJ909...	4039806132307	5LJ90040XC
Set 2	for DUS "classic" trunking rail 5LJ809...	4039806132215	5LJ90050XC

- 1 set required for each light module
- fixing clips, V2A, can be mounted without tools and positioned as desired







BERGUNGSANSTALT

ANDESSTADT LINZ

ANDESSTADT LINZ  
WIRTSCHAFTSUNIVERSITÄT  
WIRTSCHAFTSUNIVERSITÄT

**Damp-proof luminaires with LED**



Monsun® 2 LED  
Single luminaire  
Page 9.5



Monsun® 2 LED  
for Modario®  
trunking rail  
Page 9.5



Monsun® LED  
with Siteco®  
LED tube  
Page 9.19



NEPTUNE® LED  
Page 9.27

**Damp-proof luminaires**



FR200  
Page 9.29



FR100  
Page 9.39



Monsun®  
Page 9.51



NEPTUNE®  
POLY  
Page 9.67



LUMILUX BRIK® EL  
Page 9.69



Panel ceiling  
luminaire  
Page 9.71

**Open distribution damp-proof luminaires**



AQUALINE® T5  
Page 9.75

**Luminaires for special applications**



FR200 with  
vibration testing  
Page 9.29



FR100 with  
vibration testing  
Page 9.39



FR100 for low  
temperatures  
Page 9.79



FR100 for high  
temperatures  
Page 9.81



FR-Ex for  
explosion-  
hazard zones  
Page 9.83

**Mounting rails for linear luminaires**







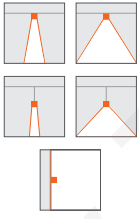
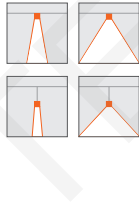
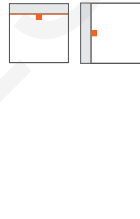
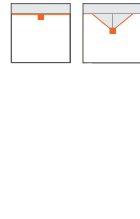
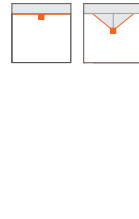
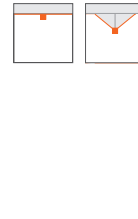




DUS® mounting  
rails  
Page 9.87



GRP mounting  
rails  
Page 9.87



							
<b>Light source</b>	LED	■	■	■	■		
	T16						
	T26					■	■
	TC-LEL						
<b>Protection rating</b>	IP54						
	IP64		■				
	IP65			■	■	■	■
	IP66	■					
<b>Insulation class</b>		I	I	II	I	I/II	I/II
<b>Impact resistance</b>		IK03/IK08	IK03/IK08	IK08	IK02	IK02/IK07	IK02/IK07
<b>Light distribution</b>							
<b>Versions for special applications</b>							
	with vibration testing for earthquake resistance					■	■
	for ex-zone 2/ex-zone 22						
	for special amb. temperatures						-40°C/+70°C
	for "equivalent power supply"						Single battery E14 – external

					
FR-Ex for explosion-hazard zones	Monsun®	NEPTUNE®	LUMILUX BRIK® EL	Panel ceiling luminaire	AQUALINE® T5
	■	■	■	■	■
■	■			■	
	■				
			■	■	
■	■	■			■
I/II	I/II	I	II	I	II
IK07	IK02/IK07	IK08	IK03	IK02	IK02/IK08
					
■					
-20°C/+40°C					
Single battery					





# Monsun<sup>®</sup> 2 LED



The damp-proof luminaires of the Monsun<sup>®</sup> 2 LED family were developed specifically for challenging environments with difficult dust and moisture conditions as well as temperature ranges. This is a completely closed system (“sealed for life”) with protection rating IP66. The robust housing consists of glass-fiber-reinforced polyester and is combined with an impact-resistant PC cover (IK08) or an anti-yellowing PMMA cover (IK03).

The contours of the smooth surface finish prevent any dirt deposits. The lighting technology with longitudinal prisms ensure an even, glare-minimized light distribution.

The luminaires of the Monsun<sup>®</sup> 2 LED family are suitable for ceiling, wall and suspended mounting. Individual luminaires with through-wiring and the integration into the Siteco<sup>®</sup> trunking system Modario<sup>®</sup> enable easy trunking system installation. Versions with ECG or ECG DALI are available.

## Features

- damp-proof diffuser luminaire with high-quality material
- consistently designed for LED technology with a lifespan of up to 50,000 hours
- closed system (“sealed for life”, IP66)
- for use under difficult environmental conditions due to moisture or dust
- for temperature ranges from -25°C to +40°C (versions with changeover relay: -15°C to +40°C)
- impact-resistant housing and polycarbonate enclosure (IK08) or anti-discoloration PMMA enclosure
- good glare reduction due to longitudinal prisms
- multiple versions with DALI and through-wiring
- proven Monsun<sup>®</sup> clip system for quick installation
- integration in Modario<sup>®</sup> trunking system possible
- individual luminaires suitable for vertical and horizontal mounting on the wall

## Lighting technology

Luminaires with cast prismatic enclosure; direct narrow or direct wide beam with unobtrusive ceiling illumination

## Electrics

Ready-to-use luminaire pre-wired with plug/socket connection for connection to the infeed on the front part of the housing; plug consisting of pre-installed plug and socket provided with cable infeed for cables D = 7...12mm

Rapid advances in LED technology lead to permanent improvements in energy efficiency. We use this in these luminaires to limit the consumption and maintain even light emission. The latest specific values can be found in the photometric report of each product and in the current download files of the lighting planning data.



**Single luminaire:** version with ECG: with 3-pole plug, max. 2.5mm<sup>2</sup>

version with ECG DALI: with 5-pole plug (3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup>

version with through-wiring: with second plug on opposite side of the luminaire

**Versions with changeover relay** (for changeover operation on “mains power supply” or on building-side “equivalent power supply”): with second plug 2-pole for “equivalent power supply” on opposite side of luminaire; through-wiring not available

Mains power supply:  $U_N = 220 \dots 240 \text{VAC } 50 \dots 60 \text{Hz}$

“Equivalent power supply”:  $U_N = 220 \dots 240 \text{VAC } 50 \dots 60 \text{Hz/DC}$

**Luminaires for Modario® trunking rail:** version with ECG: with 3-pole plug for Modario® insert suitable for 5 or 10-core pre-wired trunking rail | with 3-phase pre-selection by sliding a contact pin before insertion into the support rail; version with ECG DALI: with 5-pole plug connection (3-pole + 2-pole for control signal), suitable for 10-core pre-wired support rail | with 3-phase pre-selection by sliding a contact pint before insertion into the support rail

**Versions for exclusive use on the “equivalent power supply”** (luminaire is operating when the customer-side “equivalent power supply” is switched on; ON/OFF is performed by the local installation): version with ECG: with 3-pole plug to the Modario® insert; version with ECG DALI: with 5-pole plug (3-pole + 2-pole for control signal), Modario® insert suitable for 10-core pre-wired support rail | for ECG: “Equivalent power supply” on cores >5< and >7< of rail wiring; for ECG DALI: Brightness control on cores >5< and >7<, “equivalent power supply” on cores >4< and >6<; phase selection not possible

**Versions with changeover relay** (for switched operation on “mains supply” or on the local “equivalent power supply” through changeover relay in the Modario® insert): version with ECG: with 3-pole plug to the Modario® insert; version with ECG DALI: with 5-pole plug (3-pole + 2-pole for control signal), Modario® insert suitable for 10-core pre-wired support rail | for ECG: “equivalent power supply” on cores >5< and >7< of rail wiring; for ECG DALI: Brightness control on cores >5< and >7<, equivalent power network on cores >4< and >6< | with 3-phase pre-selection for mains supply by sliding a contact pin before insertion into the support rail “Mains power supply”:  $U_N = 220 \dots 240 \text{VAC } 50 \dots 60 \text{Hz}$  “Equivalent power supply”:  $U_N = 220 \dots 240 \text{VAC } 50 \dots 60 \text{Hz/DC}$

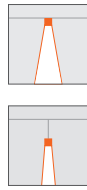
**Direct current operation** Luminous flux reduction to about 15% with operation on direct current (220...240V)

**Dimmer mode** Safe and uninterrupted dimmer mode is guaranteed at ambient temperatures up to -20°C | common brightness control of multiple luminaires, independently of switch position of individual luminaires

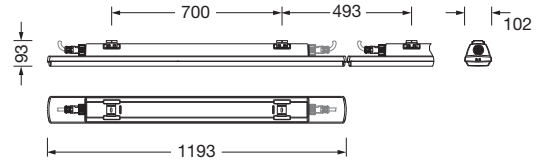
### Housing

Housing of glass-fiber-reinforced polyester resin | cover of PMMA or impact-resistant PC (IK08); housing and cover are permanently sealed (“sealed for life”) | V2A cover/wall mount and chain suspension of the individual luminaires | Modario® insert of sheet steel, luminaire white (similar to RAL 9010); catch for trunking rail quick mounting and luminaire mount of V2A | polyamide plug connection



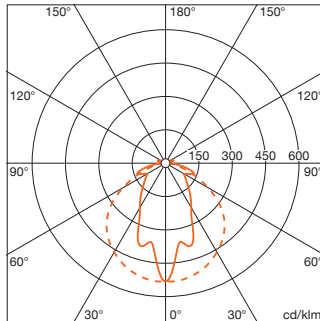


LED



4050737599120  
2LS51271TAN

1 x LED 4000K / CRI ≥ 80    φ<sub>N</sub> 4100 lm



φ<sub>d</sub> 94%    φ<sub>r</sub> 6%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	6900	6612
L <sub>70</sub>	8657	10519
L <sub>65</sub>	6474	12565

UGR 24.8    23  
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Em(lx)	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.5	4.1
30 m <sup>2</sup>	1.1	1.3	2.2	2.5	5.6	6.3
40 m <sup>2</sup>	1.5	1.6	3.0	3.2	7.4	8.0
50 m <sup>2</sup>	1.8	1.9	3.6	3.9	9.0	9.6
75 m <sup>2</sup>	2.5	2.7	5.0	5.5	13	14
100 m <sup>2</sup>	3.3	3.5	6.6	7.0	16	17
500 m <sup>2</sup>	15	15	29	30	74	76

Maintenance factor 0.8    Rh = Lh + 0.5 m

**Monsun® 2 LED single luminaire narrow distribution**

Damp-proof diffuser luminaire for ceiling mounting, wall surface mounting or suspended mounting

- direct narrow distribution with ceiling illumination; with injection-molded prismatic cover
- with ECG or ECG DALI; luminaire connection via external plug connection
- housing of polyester, glass-fiber-reinforced, gray; cover of PMMA or PC; housing and cover permanently connected ("sealed for life"); mounting elements of V2A; plug connection of polyamide
- protection rating: IP66

- insulation class: I
- protection symbol: D
- impact resistance: IK08 (PC) | IK03 (PMMA)
- temperature range: T<sub>a</sub> = -25°C...+40°C
- service life (40°C): up to 50,000h (L80 | B50)
- service life (25°C): up to 50,000h (L90 | B50)
- including ceiling/wall mount element and chain suspension of V2A
- including plug connection, consisting of pre-installed plug and supplied socket; version for through-wiring including second plug connection

• for operation with DC voltage (220...240V): luminous flux reduction to approx. 15%



**Light source**



Through-wiring



Order no. OSRAM

Order no. Siteco

**PMMA enclosure**

	4000	> 80	4100	36		IK03	2.5	ECG	4050737599120	2LS51271TAN
LED	4000	> 80	4100	36		IK03	2.5	ECG	4050737599540	2LS512D1TCN

**Cover, PMMA with through-wiring**

	4000	> 80	4100	36	3x 1.5mm <sup>2</sup>	IK03	2.6	ECG	4050737599144	2LS51271TAN003
LED	4000 <td>&gt; 80 <td>4100 <td>37.3 <td>5x 1.5mm<sup>2</sup> <td>IK03 <td>2.8 <td>DALI <td>4050737599564 <td>2LS512D1TCN005</td> </td></td></td></td></td></td></td></td>	> 80 <td>4100 <td>37.3 <td>5x 1.5mm<sup>2</sup> <td>IK03 <td>2.8 <td>DALI <td>4050737599564 <td>2LS512D1TCN005</td> </td></td></td></td></td></td></td>	4100 <td>37.3 <td>5x 1.5mm<sup>2</sup> <td>IK03 <td>2.8 <td>DALI <td>4050737599564 <td>2LS512D1TCN005</td> </td></td></td></td></td></td>	37.3 <td>5x 1.5mm<sup>2</sup> <td>IK03 <td>2.8 <td>DALI <td>4050737599564 <td>2LS512D1TCN005</td> </td></td></td></td></td>	5x 1.5mm <sup>2</sup> <td>IK03 <td>2.8 <td>DALI <td>4050737599564 <td>2LS512D1TCN005</td> </td></td></td></td>	IK03 <td>2.8 <td>DALI <td>4050737599564 <td>2LS512D1TCN005</td> </td></td></td>	2.8 <td>DALI <td>4050737599564 <td>2LS512D1TCN005</td> </td></td>	DALI <td>4050737599564 <td>2LS512D1TCN005</td> </td>	4050737599564 <td>2LS512D1TCN005</td>	2LS512D1TCN005

**Cover, PC, UV-stabilized**

	4000	> 80	4000	36		IK08	2.5	ECG	4050737599663	2LS52271TAN
LED	4000 <td>&gt; 80 <td>4000 <td>37.3</td> <td></td> <td>IK08 <td>2.7 <td>DALI <td>4050737599786 <td>2LS522D1TCN</td> </td></td></td></td></td></td>	> 80 <td>4000 <td>37.3</td> <td></td> <td>IK08 <td>2.7 <td>DALI <td>4050737599786 <td>2LS522D1TCN</td> </td></td></td></td></td>	4000 <td>37.3</td> <td></td> <td>IK08 <td>2.7 <td>DALI <td>4050737599786 <td>2LS522D1TCN</td> </td></td></td></td>	37.3		IK08 <td>2.7 <td>DALI <td>4050737599786 <td>2LS522D1TCN</td> </td></td></td>	2.7 <td>DALI <td>4050737599786 <td>2LS522D1TCN</td> </td></td>	DALI <td>4050737599786 <td>2LS522D1TCN</td> </td>	4050737599786 <td>2LS522D1TCN</td>	2LS522D1TCN

**Cover, PC, UV-stabilized, with through-wiring**

	4000	> 80	4000	36	3x 1.5mm <sup>2</sup>	IK08	2.6	ECG	4050737599687	2LS52271TAN003
LED	4000 <td>&gt; 80 <td>4000 <td>37.3 <td>5x 1.5mm<sup>2</sup> <td>IK08 <td>2.8 <td>DALI <td>4050737599809 <td>2LS522D1TCN005</td> </td></td></td></td></td></td></td></td>	> 80 <td>4000 <td>37.3 <td>5x 1.5mm<sup>2</sup> <td>IK08 <td>2.8 <td>DALI <td>4050737599809 <td>2LS522D1TCN005</td> </td></td></td></td></td></td></td>	4000 <td>37.3 <td>5x 1.5mm<sup>2</sup> <td>IK08 <td>2.8 <td>DALI <td>4050737599809 <td>2LS522D1TCN005</td> </td></td></td></td></td></td>	37.3 <td>5x 1.5mm<sup>2</sup> <td>IK08 <td>2.8 <td>DALI <td>4050737599809 <td>2LS522D1TCN005</td> </td></td></td></td></td>	5x 1.5mm <sup>2</sup> <td>IK08 <td>2.8 <td>DALI <td>4050737599809 <td>2LS522D1TCN005</td> </td></td></td></td>	IK08 <td>2.8 <td>DALI <td>4050737599809 <td>2LS522D1TCN005</td> </td></td></td>	2.8 <td>DALI <td>4050737599809 <td>2LS522D1TCN005</td> </td></td>	DALI <td>4050737599809 <td>2LS522D1TCN005</td> </td>	4050737599809 <td>2LS522D1TCN005</td>	2LS522D1TCN005

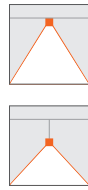
- please order further theft/wall mounting protection separately if required

**Accessories (for details see page 9.17)**

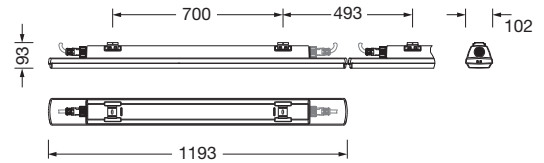
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Theft protection	set of 40	0.1	4050737623276	5LS59201

- 4 pieces required per luminaire



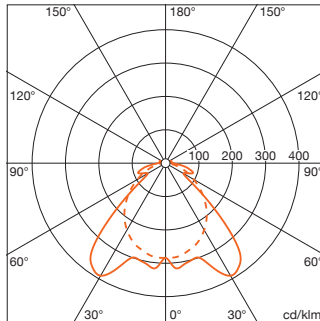


LED



4050737599182  
2LS51271TAW

1 x LED 4000K / CRI ≥ 80  $\phi_N$  4210 lm



$\phi_d$  96%  $\phi_r$  4%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5510	4182
L <sub>70</sub>	5717	5534
L <sub>65</sub>	4042	6076

UGR 23.1 23.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.5	4.1
30 m <sup>2</sup>	1.2	1.3	2.3	2.5	5.8	6.4
40 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.0	7.9
50 m <sup>2</sup>	1.7	1.9	3.3	3.8	8.3	9.4
75 m <sup>2</sup>	2.6	2.7	5.1	5.4	13	14
100 m <sup>2</sup>	3.2	3.4	6.3	6.9	16	17
500 m <sup>2</sup>	15	15	29	30	73	75

Maintenance factor 0.8 Rh = Lh

**Monsun® 2 LED single luminaire wide distribution**

Damp-proof diffuser luminaire for ceiling mounting, wall surface mounting or suspended mounting

- direct wide distribution with ceiling illumination; with injection-molded prismatic cover
- with ECG or ECG DALI; luminaire connection via external plug connection
- housing of polyester, glass-fiber-reinforced, gray; cover of PMMA or PC; housing and cover permanently connected ("sealed for life"); mounting elements of V2A; plug connection of polyamide
- protection rating: IP66

- insulation class: I
- protection symbol: D
- impact resistance: IK08 (PC) | IK03 (PMMA)
- temperature range: T<sub>a</sub> = -25°C...+40°C
- service life (40°C): up to 50,000h (L80 | B50)
- service life (25°C): up to 50,000h (L90 | B50)
- incl. ceiling mounting element and V2A chain suspension
- including plug connection, consisting of pre-installed plug and supplied socket; version for through-wiring including second plug connection

• for operation with DC voltage (220...240V): luminous flux reduction to approx. 15%



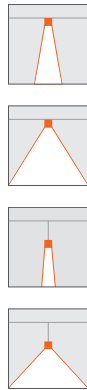
Light source	K	R <sub>a</sub>	lm	W	Through-wiring	IK	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
PMMA enclosure										
LED	4000	> 80	4210	36		IK03	2.5	ECG	4050737599182	2LS51271TAW
LED	4000	> 80	4210	37.3		IK03	2.7	DALI	4050737599601	2LS512D1TCW
Cover, PMMA with through-wiring										
LED	4000	> 80	4210	36	3x 1.5mm <sup>2</sup>	IK03	2.6	ECG	4050737599502	2LS51271TAW003
LED	4000	> 80	4210	37.3	5x 1.5mm <sup>2</sup>	IK03	2.8	DALI	4050737599625	2LS512D1TCW005
Cover, PC, UV-stabilized										
LED	4000	> 80	4070	36		IK08	2.5	ECG	4050737599724	2LS52271TAW
LED	4000	> 80	4070	37.3		IK08	2.7	DALI	4050737599847	2LS522D1TCW
Cover, PC, UV-stabilized, with through-wiring										
LED	4000	> 80	4070	36	3x 1.5mm <sup>2</sup>	IK08	2.6	ECG	4050737599748	2LS52271TAW003
LED	4000	> 80	4070	37.3	5x 1.5mm <sup>2</sup>	IK08	2.8	DALI	4050737599861	2LS522D1TCW005

- please order further theft/wall mounting protection separately if required

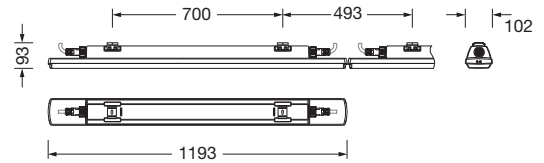
**Accessories (for details see page 9.17)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Theft protection	set of 40	0.1	4050737623276	5LS59201

- 4 pieces required per luminaire



LED



**Monsun® 2 LED individual luminaires | narrow or wide beam with switching relay for supplementary supply via “equivalent power supply”**

Damp-proof diffuser luminaire for ceiling mounting, wall surface mounting or suspended mounting

- direct narrow or wide distribution with ceiling illumination; with injection-molded prismatic cover
- with ECG or ECG DALI, for operation on “normal supply” or on “equivalent power supply” via integrated switching relay;
- housing of polyester, glass-fiber-reinforced, gray; cover of PMMA or PC; housing and cover permanently connected (“sealed for life”); mounting elements of V2A; plug connection of polyamide
- protection rating: IP66
- insulation class: I
- protection symbol: D
- impact resistance: IK08 (PC) | IK03 (PMMA)
- temperature range:  $T_a = -15^{\circ}\text{C} \dots +40^{\circ}\text{C}$
- service life (40°C): up to 50,000h (L80 | B50)
- service life (25°C): up to 50,000h (L90 | B50)
- incl. ceiling mounting element and V2A chain suspension
- incl. plug connections, consisting of pre-assembled plugs and included sockets

**Electrics**

Luminaire with integrated changeover relay for operation via mains supply or via a second, external power supply (“equivalent power supply”)

- ready-for-connection, for ECG with 3-pole plug connection for “mains power supply” (for ECG DALI: 3-pole + 2-pole for control signal) + second plug connection 2-pole for “equivalent power supply”

**Function**

When power is cut from the “mains power supply”, the changeover relay switches to the additional contact for the “equivalent power supply”. If this is activated, the luminaire starts up again.

- common brightness control for several luminaires, independent of switched status of individual luminaires
- for operation with DC voltage (220...240V): luminous flux reduction to approx. 15%

Detailed information: see data sheet



Light source	K	R <sub>a</sub>	lm	W	IK	IKG	ECG LLCG	Order no. OSRAM	Order no. Siteco
	Narrow beam, cover, PMMA								
LED	4000	> 80	4100	36	IK03	2.9	ECG	4050737599168	2LS51271TANR
LED	4000	> 80	4100	37.3	IK03	3.0	DALI	4050737599588	2LS512D1TCNR
Narrow beam, cover, PC, UV-stabilized									
LED	4000	> 80	4000	36	IK08	2.9	ECG	4050737599700	2LS52271TANR
LED	4000	> 80	4000	37.3	IK08	3.0	DALI	4050737599823	2LS522D1TCNR
Wide beam, cover, PMMA									
LED	4000	> 80	4210	36	IK03	2.9	ECG	4050737599533	2LS51271TAWR
LED	4000	> 80	4210	37.3	IK03	3.0	DALI	4050737599656	2LS512D1TCWR
Wide beam, cover, PC, UV-stabilized									
LED	4000	> 80	4070	36	IK08	2.9	ECG	4050737599779	2LS52271TAWR
LED	4000	> 80	4070	37.3	IK08	3.0	DALI	4050737599885	2LS522D1TCWR

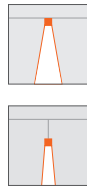
— please order further theft/wall mounting protection separately if required

### Accessories

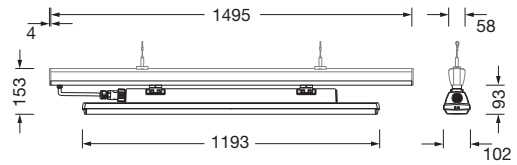
Designation	PU	Wt. (kg)	Order no.	Order no.
			OSRAM	Siteco
Theft protection	set of 40	0.1	4050737623276	5LS59201

— 4 pieces required per luminaire



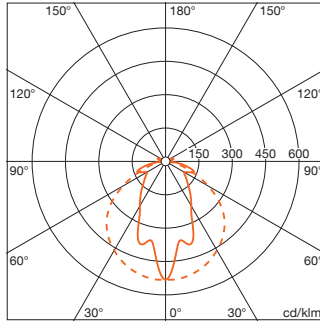


LED



4050737599120  
2LS51271TAN

1 x LED 4000K / CRI ≥ 80  $\phi_N$  4100 lm



$\phi_{\downarrow}$  94%  $\phi_{\uparrow}$  6%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	6900	6612
L <sub>70</sub>	8657	10519
L <sub>65</sub>	6474	12565

UGR 24.8 23  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.5	4.1
30 m <sup>2</sup>	1.1	1.3	2.2	2.5	5.6	6.3
40 m <sup>2</sup>	1.5	1.6	3.0	3.2	7.4	8.0
50 m <sup>2</sup>	1.8	1.9	3.6	3.9	9.0	9.6
75 m <sup>2</sup>	2.5	2.7	5.0	5.5	13	14
100 m <sup>2</sup>	3.3	3.5	6.6	7.0	16	17
500 m <sup>2</sup>	15	15	29	30	74	76

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Monsun® 2 LED for Modario® trunking rail narrow distribution**

Damp-proof diffuser luminaire for mounting to Modario® trunking rail

- direct narrow distribution with ceiling illumination; with injection-molded prismatic cover
- with ECG or ECG DALI; luminaire connection via external plug connection
- housing of polyester, glass-fiber-reinforced, gray; cover of PMMA or PC; housing and cover permanently connected ("sealed for life"); Modario® mounting elements of sheet steel, luminaire white (similar to RAL 9010); catch for trunking rail quick mounting and luminaire mount of V2A; polyamide plug connection

- protection rating: IP66 (luminaire)
- protection rating: IP64 (Modario® insert)
- insulation class: I
- protection symbol: D
- impact resistance: IK08 (PC) | IK03 (PMMA)
- temperature range: T<sub>a</sub> = -25°C...+40°C
- service life (40°C): up to 50,000h (L80 | B50)
- service life (25°C): up to 50,000h (L90 | B50)
- luminaire incl. plug connection, consisting of pre-assembled plug and included socket

• for operation with DC voltage (220...240V): luminous flux reduction to approx. 15%

**Electrics**

Luminaire for operation on "mains power supply" | with ECG with 3-pole plug connection to Modario® insert, suitable for 5 or 10-core pre-wired trunking rail; for ECG DALI 5-pole plug connection (3-pole + 2-pole for control signal), suitable for 10-core pre-wired trunking rail | with 3-phase pre-selection by sliding a contact pin before insertion into the trunking rail



**Light source**

K	R <sub>a</sub>	Im	W	IK	KG	ECG LCG
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Order no. OSRAM

Order no. Siteco

PMMA enclosure

	K	R <sub>a</sub>	Im	W	IK	KG	ECG LCG	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	4100	36	IK03	2.5	ECG	4050737599120	2LS51271TAN
LED	4000	> 80	4100	37.3	IK03	2.7	DALI	4050737599540	2LS512D1TCN

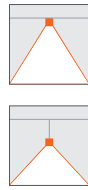
Cover, PC, UV-stabilized

	K	R <sub>a</sub>	Im	W	IK	KG	ECG LCG	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	4000	36	IK08	2.5	ECG	4050737599663	2LS52271TAN
LED	4000	> 80	4000	37.3	IK08	2.7	DALI	4050737599786	2LS522D1TCN

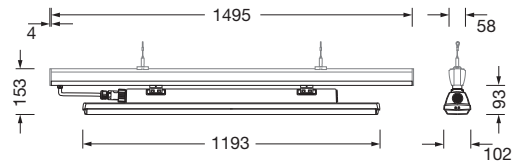
- please order luminaire mounting insert for Modario® trunking rail separately

**Required accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Monsun 2 LED luminaire mounting insert, ECG, mounting in the Modario trunking rail, 5x SE, l = 1495mm	0.7	4050737600338	5LS59000A
Monsun 2 LED luminaire mounting insert, DALI, mounting in the Modario trunking rail, 5x SE, l = 1495mm	0.7	4050737600352	5LS59000C

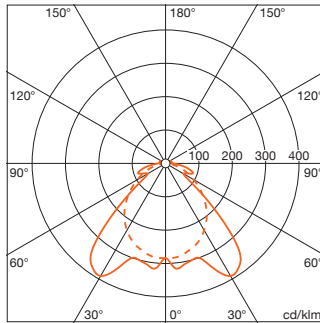


LED



4050737599182  
2LS51271TAW

1 x LED 4000K / CRI ≥ 80  $\phi_N$  4210 lm



$\phi_{\downarrow}$  96%  $\phi_{\uparrow}$  4%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5510	4182
L <sub>70</sub>	5717	5534
L <sub>65</sub>	4042	6076

UGR 23.1 23.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	0.7	0.8	1.4	1.6	3.5	4.1						
30 m <sup>2</sup>	1.2	1.3	2.3	2.5	5.8	6.4						
40 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.0	7.9						
50 m <sup>2</sup>	1.7	1.9	3.3	3.8	8.3	9.4						
75 m <sup>2</sup>	2.6	2.7	5.1	5.4	13	14						
100 m <sup>2</sup>	3.2	3.4	6.3	6.9	16	17						
500 m <sup>2</sup>	15	15	29	30	73	75						

Maintenance factor 0.8

Rh = Lh

### Monsun<sup>®</sup> 2 LED for Modario<sup>®</sup> trunking rail wide distribution

Damp-proof diffuser luminaire for mounting to Modario<sup>®</sup> trunking rail

- direct wide distribution with ceiling illumination; with injection-molded prismatic cover
- with ECG or ECG DALI; luminaire connection via external plug connection
- housing of polyester, glass-fiber-reinforced, gray; cover of PMMA or PC; housing and cover permanently connected ("sealed for life"); Modario<sup>®</sup> mounting elements of sheet steel, luminaire white (similar to RAL 9010); catch for trunking rail quick mounting and luminaire mount of V2A; polyamide plug connection

- protection rating: IP66 (luminaire)
- protection rating: IP64 (Modario<sup>®</sup> insert)
- insulation class: I
- protection symbol: D
- impact resistance: IK08 (PC) | IK03 (PMMA)
- temperature range: T<sub>a</sub> = -25°C...+40°C
- service life (40°C): up to 50,000h (L80 | B50)
- service life (25°C): up to 50,000h (L90 | B50)
- luminaire incl. plug connection, consisting of pre-assembled plug and included socket

• for operation with DC voltage (220...240V): luminous flux reduction to approx. 15%

#### Electrics

Luminaire for operation on "mains power supply" | with ECG with 3-pole plug connection to Modario<sup>®</sup> insert, suitable for 5 or 10-core pre-wired trunking rail; for ECG DALI 5-pole plug connection (3-pole + 2-pole for control signal), suitable for 10-core pre-wired trunking rail | with 3-phase pre-selection by sliding a contact pin before insertion into the trunking rail



#### Light source

K	R <sub>a</sub>	lm	W	IK	KG	ECG-LLGG
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Order no.  
**OSRAM**

Order no.  
**Siteco**

PMMA enclosure

	K	R <sub>a</sub>	lm	W	IK	KG	ECG-LLGG	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	4210	36	IK03	2.5	ECG	4050737599182	2LS51271TAW
LED	4000	> 80	4210	37.3	IK03	2.7	DALI	4050737599601	2LS512D1TCW

Cover, PC, UV-stabilized

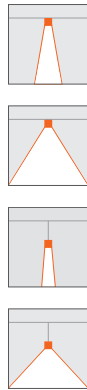
	K	R <sub>a</sub>	lm	W	IK	KG	ECG-LLGG	Order no. OSRAM	Order no. Siteco
LED	4000	> 80	4070	36	IK08	2.5	ECG	4050737599724	2LS52271TAW
LED	4000	> 80	4070	37.3	IK08	2.7	DALI	4050737599847	2LS522D1TCW

— please order luminaire mounting insert for Modario<sup>®</sup> trunking rail separately

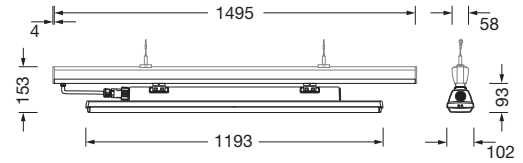
### Required accessories

#### Designation

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Monsun 2 LED luminaire mounting insert, ECG, mounting in the Modario trunking rail, 5x SE, l = 1495mm	0.7	4050737600338	5LS59000A
Monsun 2 LED luminaire mounting insert, DALI, mounting in the Modario trunking rail, 5x SE, l = 1495mm	0.7	4050737600352	5LS59000C



LED



**Monsun® 2 LED for Modario® trunking rails | wide or narrow beam for operation on “equivalent power supply” (without switching relay)**

Damp-proof diffuser luminaire for mounting to Modario® trunking rail

- direct narrow or wide distribution with ceiling illumination; with injection-molded prismatic cover
- with ECG or ECG DALI; luminaire connection via external plug connection
- housing of polyester, glass-fiber-reinforced, gray; cover of PMMA or PC; housing and cover permanently connected (“sealed for life”); Modario® mounting elements of sheet steel, luminaire white (similar to RAL 9010); catch for trunking rail quick mounting and luminaire mount of V2A; polyamide plug connection
- protection rating: IP66 (luminaire)
- protection rating: IP64 (Modario® insert)
- insulation class: I
- protection symbol: D
- impact resistance: IK08 (PC) | IK03 (PMMA)
- temperature range:  $T_a = -25^{\circ}\text{C} \dots +40^{\circ}\text{C}$
- service life (40°C): up to 50,000h (L80 | B50)
- service life (25°C): up to 50,000h (L90 | B50)
- luminaire incl. plug connection, consisting of pre-assembled plug and included socket

**Electrics**

Luminaire for continuous operation directly via external emergency power source

- with ECG with 3-pole plug connection for the Modario® insert; with ECG DALI with 5-pole plug connection (3-pole + 2-pole for control signal)
- Modario® insert suitable for 10-core wired trunking rail
- without phase selection

**Function**

The “equivalent power supply” is constantly in operation. When mains power is disconnected, the luminaire insert remains operative

- common brightness control for several luminaires, independent of switched status of individual luminaires
- for operation with DC voltage (220...240V): luminous flux reduction to approx. 15%

Detailed information: see data sheet



Light source	K	R <sub>a</sub>	lm	W	IK	IKG	ECG LLCG	Order no. OSRAM	Order no. Siteco
	Narrow beam, cover, PMMA								
LED	4000	> 80	4100	36	IK03	2.5	ECG	4050737599120	2LS51271TAN
LED	4000	> 80	4100	37.3	IK03	2.7	DALI	4050737599540	2LS512D1TCN
Narrow beam, cover, PC, UV-stabilized									
LED	4000	> 80	4000	36	IK08	2.5	ECG	4050737599663	2LS52271TAN
LED	4000	> 80	4000	37.3	IK08	2.7	DALI	4050737599786	2LS522D1TCN
Wide beam, cover, PMMA									
LED	4000	> 80	4210	36	IK03	2.5	ECG	4050737599182	2LS51271TAW
LED	4000	> 80	4210	37.3	IK03	2.7	DALI	4050737599601	2LS512D1TCW
Wide beam, cover, PC, UV-stabilized									
LED	4000	> 80	4070	36	IK08	2.5	ECG	4050737599724	2LS52271TAW
LED	4000	> 80	4070	37.3	IK08	2.7	DALI	4050737599847	2LS522D1TCW

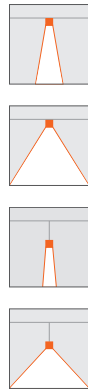
— please order luminaire mounting insert for Modario® trunking rail separately

### Required accessories

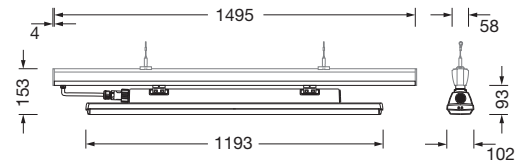
Designation	Wt. (kg)	Order no.	Order no.
		OSRAM	Siteco
Monsun 2 LED luminaire mounting insert, ECG, mounting in the Modario trunking rail, 5x SE, l = 1495mm	0.7	4050737600383	5LS5900EA
Monsun 2 LED luminaire mounting insert, DALI, mounting in the Modario trunking rail, 5x SE, l = 1495mm	0.7	4050737600390	5LS5900EC







LED



**Monsun® 2 LED for Modario® trunking rails | wide or narrow beam with switching relay for supplementary supply via “equivalent power supply”**

Damp-proof diffuser luminaire for mounting to Modario® trunking rail

- direct narrow or wide distribution with ceiling illumination; with injection-molded prismatic cover
- with ECG or ECG DALI, for operation on either “normal supply” or “equivalent power supply” via switching relay on the Modario® insert; luminaire connection via external plug connection
- housing of polyester, glass-fiber-reinforced, gray; cover of PMMA or PC; housing and cover permanently connected (“sealed for life”); Modario® mounting elements of sheet steel, luminaire white (similar to RAL 9010); catch for trunking rail quick mounting and luminaire mount of V2A; polyamide plug connection
- protection rating: IP66 (luminaire)
- protection rating: IP64 (Modario® insert)
- insulation class: I
- protection symbol: D
- impact resistance: IK08 (PC) | IK03 (PMMA)
- temperature range:  $T_a = -15^{\circ}\text{C} \dots +40^{\circ}\text{C}$
- service life (40°C): up to 50,000h (L80 | B50)
- service life (25°C): up to 50,000h (L90 | B50)
- luminaire incl. plug connection, consisting of pre-assembled plug and included socket

**Electrics**

Luminaire in combination with changeover relay in the Modario® insert for operation via mains supply or via a second, external power supply (emergency supply)

- with ECG with 3-pole plug connection for the Modario® insert; with ECG DALI with 5-pole plug connection (3-pole + 2-pole for control signal)
- Modario® insert with integrated changeover relay, ready-for-connection with 5-pole contact system (3-pole for “mains power supply” + 2-pole for “equivalent power supply”) or with 7-pole contact system for ECG DALI (5-pole + 2-pole for control signal); suitable for 10-core pre-wired trunking rail
- with 3-phase pre-selection for mains supply via slide of contact pin prior to installation in trunking rail

**Function**

When power is cut from the “mains power supply”, the changeover relay switches to the additional contact for the “equivalent power supply”. If this is activated, the luminaire starts up again.

- common brightness control for several luminaires, independent of switched status of individual luminaires
- for operation with DC voltage (220...240V): luminous flux reduction to approx. 15%

Detailed information: see data sheet



Light source	K	R <sub>a</sub>	lm	W	IK	IKG	ECG LLCG	Order no. OSRAM	Order no. Siteco
	Narrow beam, cover, PMMA								
LED	4000	> 80	4100	36	IK03	2.5	ECG	4050737599120	2LS51271TAN
LED	4000	> 80	4100	37.3	IK03	2.7	DALI	4050737599540	2LS512D1TCN
Narrow beam, cover, PC, UV-stabilized									
LED	4000	> 80	4000	36	IK08	2.5	ECG	4050737599663	2LS52271TAN
LED	4000	> 80	4000	37.3	IK08	2.7	DALI	4050737599786	2LS522D1TCN
Wide beam, cover, PMMA									
LED	4000	> 80	4210	36	IK03	2.5	ECG	4050737599182	2LS51271TAW
LED	4000	> 80	4210	37.3	IK03	2.7	DALI	4050737599601	2LS512D1TCW
Wide beam, cover, PC, UV-stabilized									
LED	4000	> 80	4070	36	IK08	2.5	ECG	4050737599724	2LS52271TAW
LED	4000	> 80	4070	37.3	IK08	2.7	DALI	4050737599847	2LS522D1TCW

— please order luminaire mounting insert for Modario® trunking rail separately (luminaire mounting insert with CE mark)

### Required accessories

Designation	Wt. (kg)	Order no.	Order no.
		OSRAM	Siteco
Monsun 2 LED luminaire mounting insert, ECG, mounting in the Modario trunking rail, 5x SE, l = 1495mm	0.9	4050737600413	5LS5900RA
Monsun 2 LED luminaire mounting insert, DALI, mounting in the Modario trunking rail, 5x SE, l = 1495mm	0.9	4050737600437	5LS5900RC



### Monsun® 2 LED mounting accessories



#### Chain

inner link size 5.6 x 31mm | load capacity: 40kg

Designation	Order no. OSRAM	Order no. Siteco
Knotted link chain, galvanized	4039806184290	5LY9001
knotted link chain V2A	4039806184313	5LY9002

— chain: per meter



#### Safety link

inner link size 5 x 15mm | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Safety link, V2A	4039806184368	5LY9004

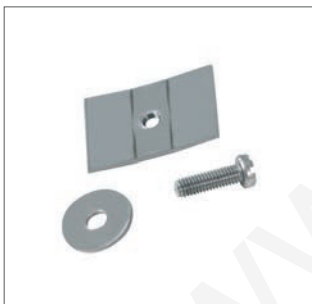


#### Theft protection

Monsun® 2 LED | theft protection | spring clip | of stainless steel (V2A)

Designation	PU	Order no. OSRAM	Order no. Siteco
Theft protection	set of 40	4050737600444	5LS59201

— 4 pieces required per luminaire



#### Mounting element

for luminaire mounting to GRP mounting rail | consisting of threaded plate, V2A; screw fixation

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting element	set of 1	4039806171696	5LS91120EC

— 2 pieces required per luminaire

— screw plates are included in the scope of delivery of the plastic trunking rails (each 2 units, 4 units, 6 units for 1-, 2-, 3-length rails)

For GRP mounting rails (for single luminaires) and accessories, see **page 9.87 ff.**

For Modario® trunking rails and accessories, see **chapter 8**





## Monsun<sup>®</sup> LED



The damp-proof diffuser luminaires in the Monsun<sup>®</sup> LED family were specifically developed for the special environmental conditions in industrial locations. A robust housing of glass-fiber-reinforced polyester, an impact-resistant cover of PMMA with high-quality prismatic technology and a special seal system keep temperature deviations, critical humidity conditions and difficult environmental conditions at bay. High-quality cover catches and mounting elements of stainless steel give the luminaire high durability.

The Monsun<sup>®</sup> LED luminaires in styles for Siteco<sup>®</sup> LED tubes feature IP65 protection rating. Well engineered lighting technology creates an even distribution and reduced glare light distribution on the working plane.

With comprehensive and easy-to-install accessories, the Monsun<sup>®</sup> LED luminaires are perfect for ceiling installation, for suspended installation or for mounting on mounting rails, with individual alignment as needed.

Rapid advances in LED technology lead to permanent improvements in energy efficiency. We use this in these luminaires to limit the consumption and maintain even light emission. The latest specific values can be found in the photometric report of each product and in the current download files of the lighting planning data.

### Features

- damp-proof diffuser luminaire with high-grade materials and high protection rating
- suitable for use under difficult ambient conditions with moisture or dust in interior and semi-exterior applications (covered areas)
- for ambient temperatures of  $-20^{\circ}\text{C}$  to  $+25^{\circ}\text{C}$
- service life of up to 40,000 operating hours (with maximum permissible ambient temperature)
- service life independent of switching frequency
- light distribution with prismatic technology for good, homogeneous illumination
- for innovative, Siteco®-specific LED tube
- universal mounting system by use of individual fixation or mounting elements
- luminaires easily installed via standard clips
- prepared for rapid installation to mounting rails
- LED tube replaced without tools
- mercury-free technology

### Lighting technology

Injection-molded prismatic cover with inner prisms for direct wide light distribution with ceiling illumination

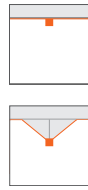
### Electrics

Luminaire wired ready-for-connection | with 3-pole connection terminal, max.  $2.5\text{mm}^2$  | cable infeed for cable  $D = 8.5\dots 13.5\text{mm}$  | with electronic ballast for Siteco® LED tube

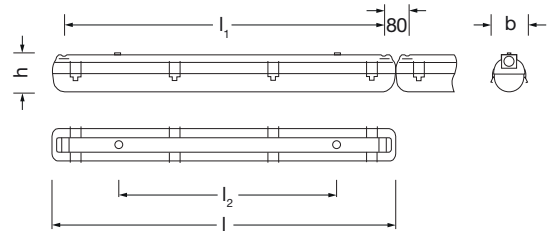
### Housing

Housing made of glass-fiber-reinforced polyester resin, largely resistant to many aggressive conditions | cover of PMMA | catches for cover and fixation elements of V2A | interior reflector is also the device support for all electrics and is held in the housing using snap technology | housing and cover are completely recyclable



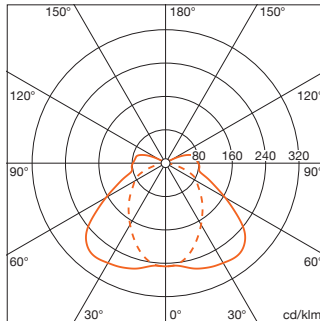


LED



4050737038032  
5LS41272T65

2 x LED-Tube 5000K  $\phi$  3460 lm



$\eta_{LB}$  100%  $\phi_1$  89%  $\phi_2$  11%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3806	1859
L <sub>70</sub>	3787	3353
L <sub>65</sub>	4185	3724

UGR 22.6 19.4

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Monsun® LED complete luminaire with Siteco® LED tube with prismatic PMMA cover | insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- direct extremely wide distribution with ceiling illumination; direct symmetric or asymmetric distribution via accessories
- with injection-molded prismatic cover
- with electronic ballast for Siteco® LED tube
- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA

- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- protection symbol: D
- temperature range: T<sub>a</sub> = -20°C...+25°C
- service life: up to 40,000 hours (L70 | B10)
- including ceiling mounting element and chain suspension of V2A
- luminaire including lamp: Siteco® LED tube

• Monsun® LED not suitable for through-wiring



**Light source**

K	R <sub>a</sub>	lm	$\frac{l}{l_1}$ [mm]	$\frac{l_1}{l_2}$ [mm]	$\frac{l_2}{b}$ [mm]	$\frac{b}{h}$ [mm]	$\frac{h}{l}$ [mm]	
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Order no.  
**OSRAM**

Order no.  
**Siteco**

Damp-proof luminaire, with lamp

	K	R <sub>a</sub>	lm	$\frac{l}{l_1}$ [mm]	$\frac{l_1}{l_2}$ [mm]	$\frac{l_2}{b}$ [mm]	$\frac{b}{h}$ [mm]	$\frac{h}{l}$ [mm]	kg	Order no. OSRAM	Order no. Siteco
1x LED tube 24 W	5000	> 80	1880	1277	1194	800	84	102	2.7	4050737038018	5LS41271T65
1x LED tube 24 W	5000	> 80	1860	1577	1494	1100	84	102	3.1	4050737038025	5LS41271V65
2x LED tube 24 W	5000	> 80	3460	1277	1194	800	130	110	3.7	4050737038032	5LS41272T65
2x LED tube 24 W	5000	> 80	3560	1577	1494	1100	130	110	4.6	4050737038049	5LS41272V65

- complete luminaire incl. lamps (complete package consisting of luminaire 5LS4127 . T and 1 or 2 lamps 5LS4L650T220 or luminaire 5LS4127 . V and 1 or 2 lamps 5LS4L650V220

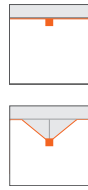
No. of luminaires in room

Reflection factors 70/50/20

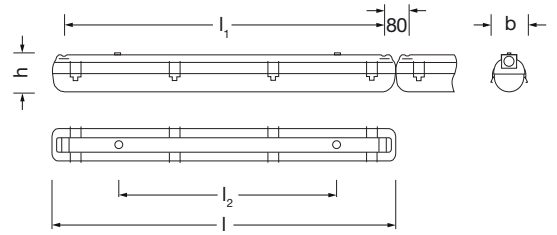
Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	1.0	1.2	2.0	2.4	5.1	6.0
30 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.4	8.5
40 m <sup>2</sup>	1.9	2.1	3.8	4.3	9.5	11
50 m <sup>2</sup>	2.3	2.5	4.5	5.0	11	13
75 m <sup>2</sup>	3.2	3.5	6.4	7.1	16	18
100 m <sup>2</sup>	4.2	4.5	8.3	9.0	21	22
500 m <sup>2</sup>	18	19	37	38	92	95

Maintenance factor 0.8 Rh = Lh + 0.5 m



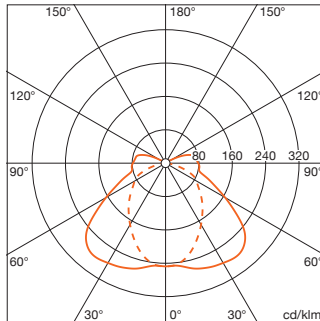


LED



4050737033334  
5LS41272T

2 x LED-Tube 5000K  $\phi$  3460 lm



$\eta_{LB}$  100%  $\phi_{\downarrow}$  89%  $\phi_{\uparrow}$  11%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3806	1859
L <sub>70</sub>	3787	3353
L <sub>65</sub>	4185	3724

UGR 22.6 19.4

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	1.0	1.2	2.0	2.4	5.1	6.0
30 m <sup>2</sup>	1.5	1.7	3.0	3.4	7.4	8.5
40 m <sup>2</sup>	1.9	2.1	3.8	4.3	9.5	11
50 m <sup>2</sup>	2.3	2.5	4.5	5.0	11	13
75 m <sup>2</sup>	3.2	3.5	6.4	7.1	16	18
100 m <sup>2</sup>	4.2	4.5	8.3	9.0	21	22
500 m <sup>2</sup>	18	19	37	38	92	95

Maintenance factor 0.8

Rh = Lh + 0.5 m

**Monsun® LED complete luminaire without Siteco® LED tube with prismatic PMMA cover | insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- direct extremely wide distribution with ceiling illumination; direct symmetric or asymmetric distribution via accessories
- with injection-molded prismatic cover
- with electronic ballast for Siteco® LED tube
- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA

- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- protection symbol: D
- temperature range: T<sub>a</sub> = -20°C...+25°C
- service life: up to 40,000 hours (L70 | B10)
- including ceiling mounting element and chain suspension of V2A

• Monsun® LED not suitable for through-wiring



**Light source**

$\frac{l}{[mm]}$	$\frac{l_1}{[mm]}$	$\frac{l_2}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$	$\frac{kg}{[kg]}$
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Order no. OSRAM

Order no. Siteco

Damp-proof luminaire, without lamp

	$\frac{l}{[mm]}$	$\frac{l_1}{[mm]}$	$\frac{l_2}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
1x LED tube 24 W	1277	1194	800	84	102	2.2	4050737032993	5LS41271T
1x LED tube 24 W	1577	1494	1100	84	102	2.5	4050737033310	5LS41271V
2x LED tube 24 W	1277	1194	800	130	110	2.7	4050737033334	5LS41272T
2x LED tube 24 W	1577	1494	1100	130	110	3.3	4050737033365	5LS41272V

**Light source**

$\frac{l}{[mm]}$	K	R <sub>a</sub>
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Order no. OSRAM

Order no. Siteco

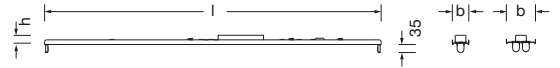
Lamp

	$\frac{l}{[mm]}$	5000	> 80	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
LED tube	1200	5000	> 80	0,5	4050737040691	5LS4L650T220
LED tube	1200	5000	> 80	7,2	4050737041346	5LS4L650T220P2
LED tube	1500	5000	> 80	0,6	4050737040714	5LS4L650V220
LED tube	1500	5000	> 80	10,4	4050737041360	5LS4L650V220P2

- order light sources (Siteco® LED tube) in required quantity separately (delivery quantity if not otherwise specified: 1 piece per order number)



LED



**Monsun® LED refurbishment kit for T16/T26 luminaires insulation class I**

LED device support for retrofitting of present Monsun® luminaires using the most modern and economical LED technology

- open distribution
- with electronic ballast for Siteco® LED tube
- gear tray of sheet steel, white

- protection rating (inserted into luminaire): IP65
- insulation class: I
- protection symbol (inserted into luminaire): D
- temperature range (of the luminaire):  $T_a = -20^{\circ}\text{C} \dots +25^{\circ}\text{C}$
- service life: up to 40,000 hours (L70 | B10)

• Monsun® LED not suitable for through-wiring

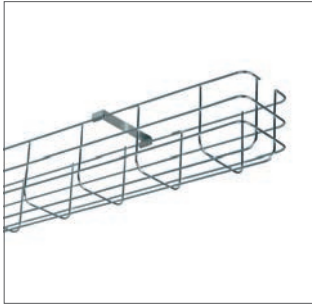


Light source	$\frac{l}{\text{[mm]}}$	$\frac{b}{\text{[mm]}}$	$\frac{h}{\text{[mm]}}$	$\frac{Kg}{\text{[kg]}}$	Order no. OSRAM	Order no. Siteco
Electrical assembly, without light source						
1x LED tube 24 W	1225	60	29	0.9	4050737040615	5LS44971T
1x LED tube 24 W	1531	60	29	1.0	4050737040639	5LS44971V
2x LED tube 24 W	1225	106	26	1.4	4050737040660	5LS44972T
2x LED tube 24 W	1531	106	26	1.4	4050737040677	5LS44972V

Light source	$\frac{l}{\text{[mm]}}$	K	$R_a$	$\frac{Kg}{\text{[kg]}}$	Order no. OSRAM	Order no. Siteco
Lamp						
LED tube	1200	5000	> 80	0.5	4050737040691	5LS4L650T220
LED tube	1200	5000	> 80	7.2	4050737041346	5LS4L650T220P2
LED tube	1500	5000	> 80	0.6	4050737040714	5LS4L650V220
LED tube	1500	5000	> 80	10.4	4050737041360	5LS4L650V220P2

- order light sources (Siteco® LED tube) in required quantity separately (delivery quantity if not otherwise specified: 1 piece per order number)
- please order luminaire cover of PMMA separately if required

### Monsun® LED housing accessories



#### Wire protection basket\*

galvanized steel wire |  $\varnothing = 4\text{mm}$  | incl. mounting bracket

Designation	for luminaires	Order no. OSRAM	Order no. Siteco
Wire protection basket	5LS4 . . . . 1T...	4039806251985	5LS31301CD
Wire protection basket	5LS4 . . . . 1V...	4039806251992	5LS31301ED
Wire protection basket	5LS4 . . . . 2T...	4039806252012	5LS31302CD
Wire protection basket	5LS4 . . . . 2V...	4039806252029	5LS31302ED

\* only for ceiling installation



#### Theft prevention

prevents opening of the luminaire without a tool | steel band of V2A; with safety screw

Designation	PU	Order no. OSRAM	Order no. Siteco
Theft prevention			
For housing width B = 84mm	set of 2	4039806168542	5LS44101
For housing width B = 130mm	set of 2	4039806168566	5LS44102

— 2 pieces required per luminaire

### Monsun® LED electrical accessories



#### Twin-core cable infeed

for 2 insulated cables  $\varnothing 8.4\text{...}12\text{mm}$ , (such as NYM 5x 1.5mm<sup>2</sup>)

Designation	Order no. OSRAM	Order no. Siteco
Twin-core cable infeed	4039806166180	5LS32200XV



**Monsun® LED mounting accessories**



**Chain**

inner link size 5.6 x 31mm | load capacity: 40kg

Designation		Order no. OSRAM	Order no. Siteco
Chain	galvanized	4039806184290	5LY9001
Chain	V2A	4039806184313	5LY9002

— chain: per meter



**Quick-release link**

inner link size 5 x 16mm | load capacity: 20kg

Designation		Order no. OSRAM	Order no. Siteco
Quick-release link	V2A	4039806184368	5LY9004

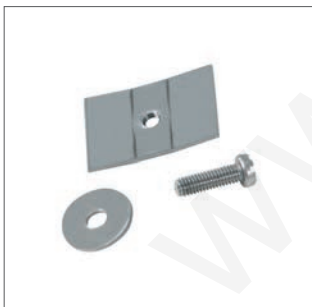


**Mounting element**

for luminaire mounting to DUS® mounting rail | V2A; tool-less installation

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting element	set of 6	4039806171559	5LS44002

- 2 pieces required per luminaire
- a rail clip is required at the end of each rail



**Mounting element**

for luminaire mounting to GRP mounting rail | consisting of threaded plate, V2A; screw fixation

Designation	Order no. OSRAM	Order no. Siteco
Mounting element	4039806171696	5LS91120EC

- 2 pieces required per luminaire
- screw plates are included in the scope of delivery of the plastic trunking rails (each 2 units, 4 units, 6 units for 1-, 2-, 3-length rails)

For DUS® mounting rails (without through-wiring) and accessories, see **page 9.87 ff.**

For GRP mounting rails (for single luminaires) and accessories, see **page 9.87 ff.**

## Monsun® LED replacement parts



### Optical enclosure, prismatic

PMMA oder UV-stabilized PC

Designation	for luminaires	l (mm)	b (mm)	Order no. OSRAM	Order no. Siteco
Optical enclosure, PC	5LS4 . . . . 1T...	1277	84	4039806440730	5LS44911CW
Optical enclosure, PC	5LS4 . . . . 1V...	1577	84	4039806440754	5LS44911EW
Optical enclosure, PC	5LS4 . . . . 2T...	1277	130	4039806440792	5LS44912CW
Optical enclosure, PC	5LS4 . . . . 2V...	1577	130	4039806440815	5LS44912EW
Optical enclosure, PMMA	5LS4 . . . . 1T...	1277	84	4039806440617	5LS44901CW
Optical enclosure, PMMA	5LS4 . . . . 1V...	1577	84	4039806440631	5LS44901EW
Optical enclosure, PMMA	5LS4 . . . . 2T...	1277	130	4039806440679	5LS44902CW
Optical enclosure, PMMA	5LS4 . . . . 2V...	1577	130	4039806440693	5LS44902EW

### Fastener for optical enclosure (not shown)

V2A

Designation	for lamps	Order no. OSRAM	Order no. Siteco
Fastener	set of 10	4039806568564	5LS44004

- for housing length l = 667mm: 6 units required
- l = 1277mm: 8 units required
- l = 1577mm: 10 units required



### V2A suspension bracket

for mounting near ceiling or hanging mount such as for chain | to hook into the mounting element Monsun® LED

Designation	PU	Order no. OSRAM	Order no. Siteco
Suspension bracket	set of 50	4039806171535	5LS44001

- 2 pieces required per luminaire



# NEPTUNE® LED



The damp-proof luminaire family NEPTUNE® LED was specially developed for challenging environmental conditions with critical humidity and particle-loaded ambient air. A robust and extremely rigid torsion, anodized aluminum housing in combination with an impact-resistant cover of PC (IK08) are features of these luminaires.

The longitudinal prisms integrated into the PC cover ensure even and extremely wide light distribution. The luminaires of the NEPTUNE® LED are extremely easy-to-install thanks to the freely positionable mounting clips and thus offer the option of attaching them to existing mounting points. In this way, this family of luminaires is suitable not only for new installations, but also for simple and energy-efficient refitting of conventional systems. All installation material, including the included theft prevention system are made of robust V2A. Horizontal and vertical wall mounting as well as suspended mounting can be achieved with the mounting set.

## Features

- damp-proof luminaire with high-grade materials and high protection rating IP65
- designed for a service life of up to 50,000h
- suitable for use under difficult ambient conditions with moisture or dust in interior and semi-exterior applications (covered areas)
- high impact resistance (IK08)
- light distribution with prismatic technology for good, homogeneous illumination
- suitable for ambient temperatures of -20°C to +40°C
- universal mounting system for ceiling installation, horizontal and vertical wall installation as well as hanging installation
- easy-to-install luminaires through freely positionable mounting clips
- increased security through theft protection of solid and resistant V2A
- excellent price-performance ratio

## Lighting technology

Prismatic cover with interior prisms, direct extremely wide distribution

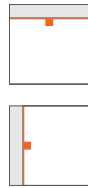
## Electrics

Luminaire pre-wired ready-to-use with plug/socket connection for connection to the port on the front of the housing | protected plug connection consisting of pre-installed plug and socket with cable infeed for cables  $D = 7 \dots 12\text{mm}$ ; approved for flexible cable H05RN-F 2x max.  $1.5\text{mm}^2$ , H07RN-F 2x  $1\text{mm}^2$  or insulated cable such as NYM 2x max.  $1.5\text{mm}^2$

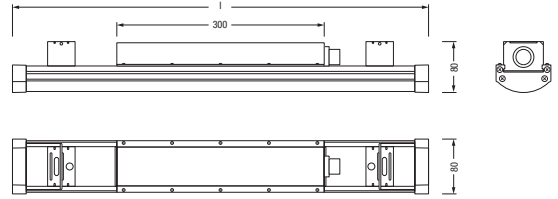
## Housing

Aluminum housing, clear anodizing; front section of PC, silver painted; cover of PC (IK08) | installation elements of V2A | flexible installation system using various movable fixation elements | additional theft protection prevents de-installation without tools | housing and cover are completely recyclable

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This means that luminous flux and power consumption can also change. The latest specific values can be found in the electronic catalog for each product.

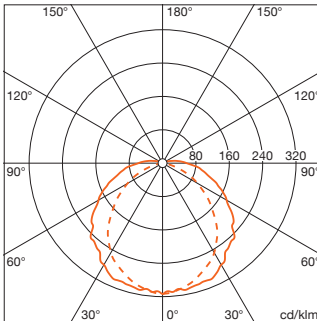


LED



4052899910560  
OLS1277L25840

1 x LED nw  $\phi$ N 2012 lm



**NEPTUNE® LED single luminaire**  
**extremely wide distribution**

Damp-proof luminaire for ceiling mounting, wall surface mounting or suspended mounting

- direct extremely wide distribution with ceiling illumination
- with prismatic cover
- with ECG

- plastic housing, gray
- cover of PC
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: II
- impact resistance: IK08



Designation	K	R <sub>a</sub>	l <sub>m</sub>	W SYSTEM	I [mm]	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
LED SMALL C 25W	4000	> 80	2000	25	600	1.3	ECG	4052899910560	OLS1277L25840
LED MEDIUM C 50W	4000	> 80	4000	50	1200	2.2	ECG	4052899910577	OLS1277L50840
LED LARGE C 60W	4000	> 80	5800	60	1500	2.7	ECG	4052899921962	OLS1277L60840

- instructions pursuant to the Energy Consumption Labeling Ordinance (EU) 874/2012 on page 15.25





# FR200



The damp-proof diffuser luminaires in the FR200 family were specifically developed for the special environmental conditions in industrial locations. A robust housing of glass-fiber-reinforced plastic, an impact-resistant cover of PMMA with high-quality prismatic technology and a special seal system keep temperature deviations, critical humidity conditions and aggressive dust incursion at bay. The precise finish and the high-quality materials qualify the luminaire for protection rating IP65. The luminaires are optimized for use of T26 light tubes. Their lighting technology, with an internal prismatic structure reduces the light density of the horizontal direct ratio. At the same time, the cover provides the illuminatory indirect ratio for a good room coverage. With comprehensive and easy-to-install accessories, the FR200 luminaires are perfect for ceiling installation, for suspended installation or for mounting on trunking rails.

## Features

- damp-proof diffuser luminaire with high-grade materials and high protection rating
- suitable for use under difficult ambient conditions with moisture or dust in interior and semi-exterior applications (covered areas)
- selected versions with certification for earthquake resistance, therefore suitable for e.g. nuclear power plants
- high-quality prismatic technology for optimal room illumination
- reduced luminance in horizontal beam direction (70°...95°) for reduction of direct glare
- cavern effect in low rooms is reduced by the high indirect light distribution component
- high luminaire light output ratio
- housing impact-resistant according to VDE 0711

## Lighting technology

- prismatic diffuser with inner prisms, for direct/indirect light distribution with reduced luminance in horizontal beam direction (70°...95°) for reduction of direct glare
- direct distribution via supplementary reflector (accessory)

## Electrics

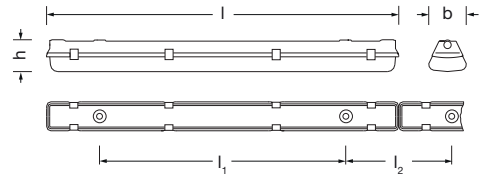
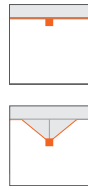
Luminaires ready-for-connection, pre-wired | for insulation class I with 3-pole terminal; for insulation class II with 2-pole terminal (ECG DALI or ECG dimmable: + 2-pole for control signal), max. 2.5mm<sup>2</sup> | cable infeed for cables or conduit D = 8,5...13.5mm | for through-wiring (with special wiring sets) suitable for within the luminaire (insulation class I) or including through-wiring 4x 1.5mm<sup>2</sup> (insulation class II)

## Dimming mode

Safe and trouble-free dimming of T26 fluorescent lamps is guaranteed with ambient temperatures up to -20°C.

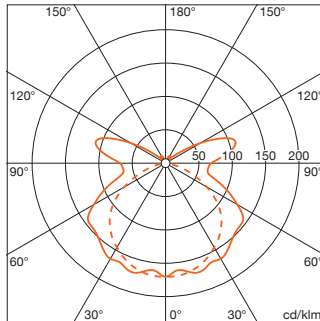
## Housing

Housing made of glass-fiber-reinforced polyester resin, largely resistant to many aggressive conditions | cover of PMMA | interior reflector is also the device support for all electrics and is held in the housing using snap technology | housing and cover are completely recyclable



4039806608604  
2LS32271E

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  79.6%  $\phi_{\downarrow}$  76%  $\phi_{\uparrow}$  24%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2664	1243
L <sub>70</sub>	2857	2383
L <sub>65</sub>	3231	2898

UGR 20.8 17.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.1	1.9	2.2	4.8	5.6
30 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.0	8.0
40 m <sup>2</sup>	1.8	2.0	3.5	3.9	8.8	9.8
50 m <sup>2</sup>	2.1	2.3	4.2	4.7	11	12
75 m <sup>2</sup>	3.0	3.3	6.0	6.5	15	16
100 m <sup>2</sup>	3.8	4.1	7.7	8.3	19	21
500 m <sup>2</sup>	17	17	33	35	84	87

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR200 with prismatic cover of PMMA insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail  
 — direct extremely wide distribution with ceiling illumination; direct distribution via accessory  
 — with prismatic cover

- with ECG
- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- protection rating: IP65
- insulation class: I
- protection symbol: D



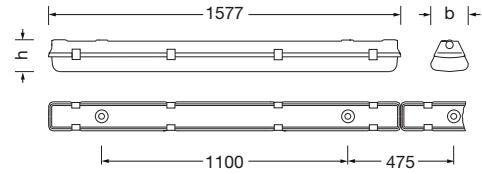
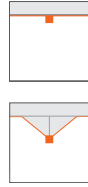
**Light source**

		$l$ [mm]	$h$ [mm]	$l_2$ [mm]	$b$ [mm]	$h$ [mm]	$K_g$	ECG	Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	667	330	335	127	108	1.9	ECG	4039806608581	2LS32271A
1x T26 36 W	G13	1277	800	475	127	108	2.8	ECG	4039806608598	2LS32271C
1x T26 58 W	G13	1577	1100	475	127	108	3.4	ECG	4039806608604	2LS32271E
1x T26 58 W	G13	1577	1100	475	127	108	3.4	DALI	4039806512970	2LS322D1E
1x T26 58 W	G13	1577	1100	475	127	108	3.4	1...10V	4039806609755	2LS32261E
2x T26 36 W	G13	1277	800	475	160	125	3.7	ECG	4039806608611	2LS32272C
2x T26 58 W	G13	1577	1100	475	160	125	4.4	ECG	4039806608628	2LS32272E
2x T26 58 W	G13	1577	1100	475	160	125	4.4	DALI	4039806514660	2LS322D2E
2x T26 58 W	G13	1577	1100	475	160	125	4.4	1...10V	4039806616371	2LS32262E

— please order direct beam mirror separately if needed

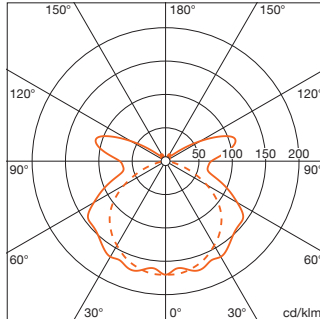
**Accessories (for details see page 9.35 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1 X T26 36W	0.1	4039806166203	5LS32201CS
Mirror reflector, direct symmetric beam, for 1 X T26 58W	0.2	4039806166227	5LS32201ES
Mirror reflector, direct symmetric beam, for 2x T26 36W	0.1	4039806166241	5LS32202CS
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES



4039806608703  
2LS32171E

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  79.6%  $\phi_{\downarrow}$  76%  $\phi_{\uparrow}$  24%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2664	1243
L <sub>70</sub>	2857	2383
L <sub>65</sub>	3231	2898

UGR 20.8 17.5

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.1	1.9	2.2	4.8	5.6
30 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.0	8.0
40 m <sup>2</sup>	1.8	2.0	3.5	3.9	8.8	9.8
50 m <sup>2</sup>	2.1	2.3	4.2	4.7	11	12
75 m <sup>2</sup>	3.0	3.3	6.0	6.5	15	16
100 m <sup>2</sup>	3.8	4.1	7.7	8.3	19	21
500 m <sup>2</sup>	17	17	33	35	84	87

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

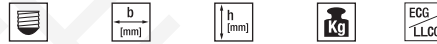
**FR200 with prismatic cover of PMMA insulation class II**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail  
 — direct extremely wide distribution with ceiling illumination; direct distribution via accessory  
 — with prismatic cover

- with ECG
- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- protection rating: IP65
- insulation class: II
- protection symbol: D



**Light source**



PMMA enclosure

	G13	b [mm]	h [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	127	108	3.8	ECG	4039806608680	2LS32371E
2x T26 58 W	G13	160	125	4.3	ECG	4039806608697	2LS32372E

PMMA enclosure, with through-wiring 4x 1.5mm<sup>2</sup>

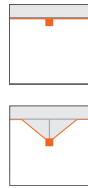
	G13	b [mm]	h [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	127	108	3.4	ECG	4039806608703	2LS32171E
2x T26 58 W	G13	160	125	4.0	ECG	4039806608710	2LS32172E

— please order direct beam mirror separately if needed

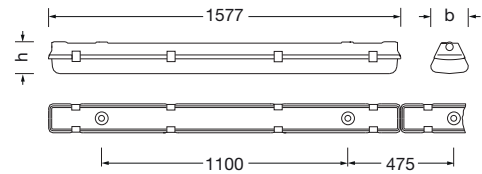
**Accessories (for details see page 9.35 ff.)**

**Designation**

	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1 X T26 58W	0.2	4039806166227	5LS32201ES
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES

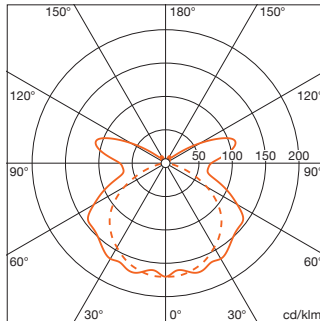


T26  
G13



4039806614957  
2LS32271EA04

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  79.6%  $\phi_{\downarrow}$  76%  $\phi_{\uparrow}$  24%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2664	1243
L <sub>70</sub>	2857	2383
L <sub>65</sub>	3231	2898

UGR 20.8 17.5

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room	Reflection factors			
	70	50	20	500
Em(lx)	100	200	500	
Lh(m)	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.1	1.9	2.2
30 m <sup>2</sup>	1.4	1.6	2.8	3.2
40 m <sup>2</sup>	1.8	2.0	3.5	3.9
50 m <sup>2</sup>	2.1	2.3	4.2	4.7
75 m <sup>2</sup>	3.0	3.3	6.0	6.5
100 m <sup>2</sup>	3.8	4.1	7.7	8.3
500 m <sup>2</sup>	17	17	33	35

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR20 with prismatic cover of PMMA with single battery | insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail  
 — direct extremely wide distribution with ceiling illumination; direct distribution via accessory  
 — with prismatic cover

- with ECG, with additional single battery
- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- protection rating: IP65
- insulation class: I

**Electrics**

- Luminaire for operation on "normal mains" or via the integral self-contained battery supply
- luminaire wired ready-for-connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase)
  - switched phase and unswitched phase must have same phase angle
  - single battery for 1h operating duration with reduced luminous flux
  - with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet

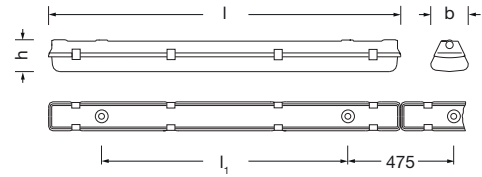


Light source	Operating life	b [mm]	h [mm]	kg	ECG L.L.C.G.	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13 1h	127	108	4.2	ECG	4039806614957	2LS32271EA04
2x T26 58 W	G13 1h	160	125	4.7	ECG	4039806614964	2LS32272EA04

— please order direct beam mirror separately if needed

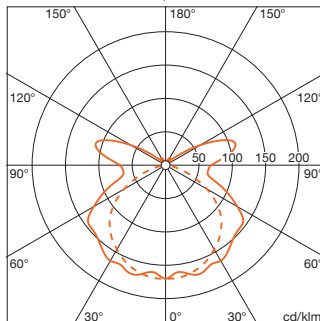
**Accessories (for details see page 9.35 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1 X T26 58W	0.2	4039806166227	5LS32201ES
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES



4039806581648  
5LS32271EY

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  79.6%  $\phi_{\downarrow}$  76%  $\phi_{\uparrow}$  24%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2664	1243
L <sub>70</sub>	2857	2383
L <sub>65</sub>	3231	2898

UGR 20.8 17.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	1.0	1.1	1.9	2.2	4.8	5.6
30 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.0	8.0
40 m <sup>2</sup>	1.8	2.0	3.5	3.9	8.8	9.8
50 m <sup>2</sup>	2.1	2.3	4.2	4.7	11	12
75 m <sup>2</sup>	3.0	3.3	6.0	6.5	15	16
100 m <sup>2</sup>	3.8	4.1	7.7	8.3	19	21
500 m <sup>2</sup>	17	17	33	35	84	87

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR200 with prismatic cover | with vibration test for earthquake security insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting  
 — direct extremely wide distribution with ceiling illumination; with prismatic cover  
 — with ECG  
 — housing of glass-fiber-reinforced polyester, gray; cover of PMMA

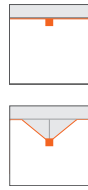
- protection rating: IP65
- insulation class: I
- protection symbol: D
- vibration test: with test certificate for earthquake safety (vibration test according to ZXX001/DD/7080.9/830001 Rev. E of 15.06.2010)



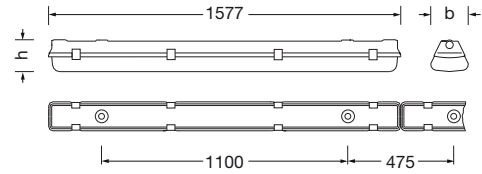
**Light source**

		$l$ [mm]	$l_1$ [mm]	$b$ [mm]	$h$ [mm]			Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	1577	1100	127	108	3.5	ECG	4039806581648	5LS32271EY
2x T26 36 W	G13	1277	800	160	125	4.1	ECG	4039806581662	5LS32272CY

— incl. supplementary brackets (set of 2)

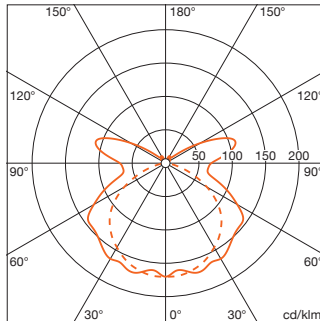


T26  
G13



4039806580665  
5LS32171EY

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  79.6%  $\phi_{\downarrow}$  76%  $\phi_{\uparrow}$  24%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2664	1243
L <sub>70</sub>	2857	2383
L <sub>65</sub>	3231	2898

UGR 20.8 17.5

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Rh(m)	Lh(m)	Rh(m)	Lh(m)	Rh(m)
20 m <sup>2</sup>	1.0	1.1	1.9	2.2	4.8	5.6
30 m <sup>2</sup>	1.4	1.6	2.8	3.2	7.0	8.0
40 m <sup>2</sup>	1.8	2.0	3.5	3.9	8.8	9.8
50 m <sup>2</sup>	2.1	2.3	4.2	4.7	11	12
75 m <sup>2</sup>	3.0	3.3	6.0	6.5	15	16
100 m <sup>2</sup>	3.8	4.1	7.7	8.3	19	21
500 m <sup>2</sup>	17	17	33	35	84	87

Maintenance factor 0.8

Rh = Lh + 0.5 m

**FR200 with prismatic cover | with vibration test for earthquake security insulation class II**

Damp-proof diffuser luminaire for ceiling surface mounting  
 — direct extremely wide distribution with ceiling illumination; with prismatic cover  
 — with ECG  
 — housing of glass-fiber-reinforced polyester, gray; cover of PMMA

- protection rating: IP65
- insulation class: II
- protection symbol: D
- vibration test: with test certificate for earthquake safety (vibration test according to ZXX001/DD/7080.9/830001 Rev. E of 15.06.2010)



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

**PMMA enclosure**

	Light source	b [mm]	h [mm]	Kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	127	108	3.7	ECG	4039806581709	5LS32371EY
2x T26 58 W	G13	160	125	3.8	ECG	4039806581723	5LS32372EY

**PMMA enclosure, with through-wiring 4x 1.5mm<sup>2</sup>**

1x T26 58 W	G13	127	108	4.4	ECG	4039806580665	5LS32171EY
2x T26 58 W	G13	160	125	4.3	ECG	4039806580689	5LS32172EY

— incl. supplementary brackets (set of 2)

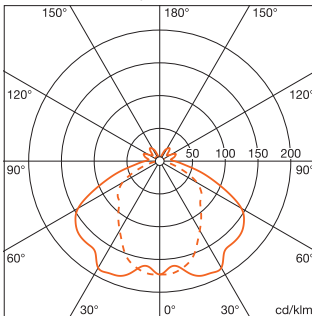
### FR200 optical accessories

#### Additional reflector with direct wide distribution

highly specular aluminum | incl. fixation screws



4039806608604 + 4039806166227  
2LS32271E + 5LS32201ES  
1 x T26 58W/840  $\phi$  5000 lm



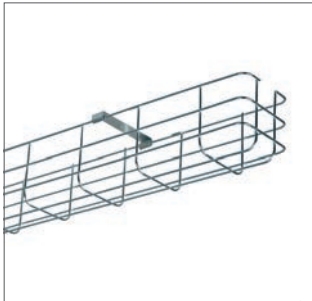
$\eta_{LB}$  70,3%  $\phi_{d}$  88%  $\phi_{t}$  12%

Designation	for lamps	Order no. OSRAM	Order no. Siteco
Reflector	1x T26 36W	4039806166203	5LS32201CS
Reflector	1x T26 58W	4039806166227	5LS32201ES
Reflector	2x T26 36W	4039806166241	5LS32202CS
Reflector	2x T26 58W	4039806166265	5LS32202ES

### FR200 housing accessories

#### Wire protection basket

steel wire,  $\varnothing$ = 4mm, galvanized | incl. mounting bracket



Designation	for lamps	Order no. OSRAM	Order no. Siteco
Wire protection basket	1x T26 18W	4039806252036	5LS32201AD
Wire protection basket	1x T26 36W	4039806252043	5LS32201CD
Wire protection basket	1x T26 58W	4039806252050	5LS32201ED
Wire protection basket	2x T26 36W	4039806252067	5LS32202CD
Wire protection basket	2x T26 58W	4039806252074	5LS32202ED

— only for ceiling installation



## FR200 electrical accessories



### Through-wiring set for interrupted continuous rows

for through-wiring within a luminaire | consisting of heat-resistant single-core cables, terminals and mounting material | wiring from one luminaire to the next with normal cables (such as NYM)

Designation		Order no. OSRAM	Order no. Siteco
Through-wiring	3x 1.5mm <sup>2</sup>	4039806166098	5LS31301EK
Through-wiring	5x 1.5mm <sup>2</sup>	4039806166111	5LS31311EK
Through-wiring	5x 2.5mm <sup>2</sup>	4039806171931	5LS31321EK

- 1 set required per luminaire
- through-wiring with PE, for insulation class I
- suitable for 58W (at 36W: make a loop)



### Through-wiring set for seamless continuous rows

for through-wiring from the terminal of one luminaire to the terminal of the next (luminaires mounted flush against each other) | consisting of a PC conduit to the connection with neighboring luminaires, heat-resistant conductor line, terminals and mounting material

Designation		Order no. OSRAM	Order no. Siteco
Through-wiring	5x 1.5mm <sup>2</sup>	4039806166289	5LS32211EK

- 1 set required per luminaire
- through-wiring with PE, for insulation class I
- suitable for 58W (at 36W: make a loop)



### 5-pole extra terminal

for last luminaire in a seamless continuous row (luminaires mounted flush against each other)

Designation		Order no. OSRAM	Order no. Siteco
5x max. 2.5mm <sup>2</sup>		4039806367778	5LS32200EK

- 1 unit required per continuous row (in last luminaire)



### Twin-core cable infeed

for 2 insulated cables Ø 8.4...12mm, (such as NYM 5x 1.5mm<sup>2</sup>)

Designation		Order no. OSRAM	Order no. Siteco
Twin-core cable infeed		4039806166180	5LS32200XV



## FR200 mounting accessories



### Anti-vibration element

for vibration damping

Designation	Order no. OSRAM	Order no. Siteco
Anti-vibration element	4039806378446	5LY9084

- 2 pieces required per luminaire
- with M6 internal thread



### Universal luminaire mount

for wire ( $\varnothing \leq 4.5\text{mm}$ ) or chain ( $\varnothing_{\text{Interior}} \geq 7\text{mm}$ ) | load capacity: 25kg

Designation	Order no. OSRAM	Order no. Siteco	
Suspension bracket	galvanized, some V2A	4039806167521	5LY9086
Suspension Bracket	V2A	4039806170750	5LY90861

- 2 pieces required per luminaire



### Chain

inner link size 7 x 40mm | load capacity: 56kg

Designation	Order no. OSRAM	Order no. Siteco	
Chain	galvanized	4039806999856	5LY9005
Chain	V2A	4039806175991	5LY9111

- chain: per meter



### Quick-release link, galvanized

inner link size 8 x 20mm | load capacity: 50kg

Designation	Order no. OSRAM	Order no. Siteco	
Quick-release link	galvanized	4039806176011	5LY9113



### Mounting set

for luminaire mounting to un-wired DUS® mounting rail | consisting of a mounting element, galvanized steel; plastic plate, screw connector; cable holder

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting set	set of 2	4039806170774	5LS90900XC1

- 2 pieces required per luminaire



### Mounting element

for luminaire mounting to GRP mounting rail | consisting of threaded plate, V2A; screw fixation

Designation	Order no. OSRAM	Order no. Siteco
Mounting element	4039806171696	5LS91120EC

- 2 pieces required per luminaire
- screw plates are included in the scope of delivery of the plastic trunking rails (each 2 units, 4 units, 6 units for 1-, 2-, 3-length rails)

### FR200 replacement parts



### Optical enclosure, prismatic

PMMA

Designation	for lamps	Order no. OSRAM	Order no. Siteco
Optical enclosure	1x T26 18W	4039806626240	5LS32201AW
Optical enclosure	1x T26 36W	4039806442413	5LS32201CW
Optical enclosure	1x T26 58W	4039806440099	5LS32201EW
Optical enclosure	2x T26 36W	4039806440112	5LS32202CW
Optical enclosure	2x T26 58W	4039806440136	5LS32202EW

For DUS® mounting rails (without through-wiring) and accessories, see **page 9.87 ff.**

For GRP mounting rails (for single luminaires) and accessories, see **page 9.87 ff.**

# FR100



The damp-proof diffuser luminaires in the FR100 family were specifically developed for the special environmental conditions in industrial locations. A robust housing of glass-fiber-reinforced polyester, an impact-resistant pearl diffuser of PMMA or PC with high-quality prismatic technology and a special seal system keep temperature deviations, critical humidity conditions and difficult environmental conditions at bay. The precise finish and high-quality materials qualify the luminaire for protection rating IP65 and guarantee impact resistance of IK07 in connection with the PC cover. The extremely wide distribution luminaires are optimized for use of T26 light tubes. With comprehensive and easy-to-install accessories, they are perfect for ceiling installation, for suspended installation or for mounting on trunking rails.

## Features

- wide choice of damp-proof luminaires for special ambient conditions
- robust damp-proof diffuser luminaire for challenging industrial applications, for interior and semi-exterior use (covered areas)
- for good, homogeneous illumination of working plane
- robust, trapezoid, glass-fiber-reinforced plastic housing
- for use under difficult conditions with high moisture, temperature or dust loads
- simple mounting

## Lighting technology

- pearl cover for extremely wide light distribution with ceiling illumination
- direct distribution via supplementary reflector (accessory)

## Electrics

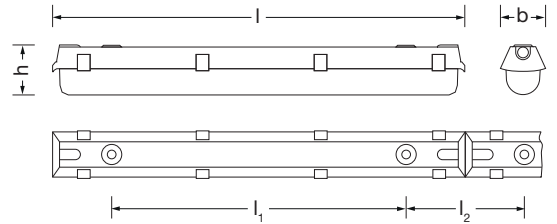
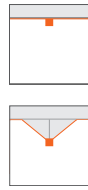
Luminaires ready-for-connection, pre-wired | for insulation class I with 3-pole terminal; for insulation class II with 2-pole terminal (ECG DALI or ECG dimmable: + 2-pole for control signal), max. 2.5mm<sup>2</sup> | Cable infeed for cables or conduit D = 8.5...13.5mm | for through-wiring (with special wiring sets) suitable for within the luminaire (insulation class I) or including through-wiring 4x 1.5mm<sup>2</sup> (insulation class II)

## Dimming mode

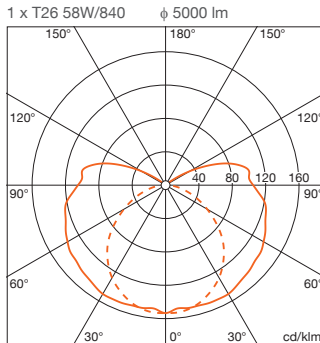
Safe and trouble-free dimming of T26 fluorescent lamps is guaranteed with ambient temperatures up to -20°C.

## Housing

Housing made of glass-fiber-reinforced polyester resin, largely resistant to many aggressive conditions | cover of PMMA or UV-stabilized PC for increased requirements of impact resistance (IK07) | interior reflector is also the device support for all electrics and is held in the housing using snap technology | housing and cover are completely recyclable



4039806608321  
2LS32971EP1



$\eta_{LB}$  80.6%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5856	2994
L <sub>70</sub>	5267	3610
L <sub>65</sub>	5139	3943

UGR 24.9 19.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)						
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.2	2.0	2.4	5.1	5.9
30 m <sup>2</sup>	1.5	1.7	2.9	3.4	7.4	8.4
40 m <sup>2</sup>	1.8	2.1	3.7	4.1	9.2	10
50 m <sup>2</sup>	2.2	2.4	4.4	4.9	11	12
75 m <sup>2</sup>	3.1	3.4	6.2	6.8	16	17
100 m <sup>2</sup>	3.9	4.3	7.9	8.6	20	21
500 m <sup>2</sup>	17	18	34	35	84	88

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR100 with pearl cover of PMMA or PC insulation class I**

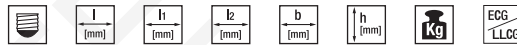
Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- extremely wide distribution; direct distribution via accessory
- with pearl cover
- with ECG

- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA or PC
- protection rating: IP65
- insulation class: I
- impact resistance: IK07 (PC cover)
- protection symbol: D



**Light source**



**PMMA enclosure**

		l [mm]	h [mm]	l <sub>2</sub> [mm]	b [mm]	h <sub>d</sub> [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	667	330	335	105	116	1.6	ECG	4039806608253	2LS32971A
1x T26 36 W	G13	1277	800	475	105	116	2.3	ECG	4039806608260	2LS32971C
1x T26 58 W	G13	1577	1100	475	105	116	2.9	ECG	4039806608277	2LS32971E
2x T26 36 W	G13	1277	800	475	136	132	3.2	ECG	4039806608284	2LS32972C
2x T26 58 W	G13	1577	1100	475	136	132	3.8	ECG	4039806608291	2LS32972E

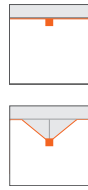
**Cover, PC, UV-stabilized, IK07**

		l [mm]	h [mm]	l <sub>2</sub> [mm]	b [mm]	h <sub>d</sub> [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1277	800	475	105	116	2.4	ECG	4039806608314	2LS32971CP1
1x T26 58 W	G13	1577	1100	475	105	116	2.8	ECG	4039806608321	2LS32971EP1
1x T26 58 W	G13	1577	1100	475	105	116	2.8	1...10V	4039806536808	2LS32961EP1
2x T26 36 W	G13	1277	800	475	136	132	3.2	ECG	4039806608338	2LS32972CP1
2x T26 58 W	G13	1577	1100	475	136	132	3.8	ECG	4039806608345	2LS32972EP1
2x T26 58 W	G13	1577	1100	475	136	132	3.8	1...10V	4039806536815	2LS32962EP1

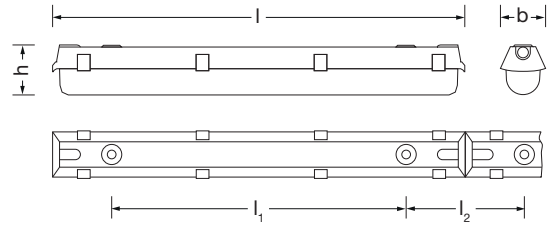
— please order direct beam mirror separately if needed

**Accessories (for details see page 9.47 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1x T26 36W	0.1	4039806166203	5LS32201CS
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806166227	5LS32201ES
Mirror reflector, direct symmetric beam, for 2x T26 36W	0.1	4039806166241	5LS32202CS
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES

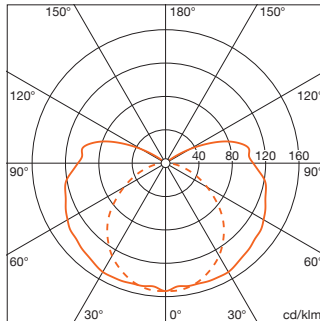


T26  
G13



4039806609311  
2LS32971ES4

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  80.6%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5856	2994
L <sub>70</sub>	5267	3610
L <sub>65</sub>	5139	3943

UGR 24.9 19.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**FR100 with pearl cover of PMMA catches of V2A | insulation class I**

- Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail
- extremely wide distribution; direct distribution via accessory
- with pearl cover
- with ECG

- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- V2A catches
- protection rating: IP65
- insulation class: I
- protection symbol: D



**Light source**

		$l$ [mm]	$h$ [mm]	$l_2$ [mm]	$b$ [mm]	$h$ [mm]			Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	1577	1100	475	105	116	3.3	ECG	4039806609311	2LS32971ES4
2x T26 58 W	G13	1577	1100	475	136	132	4.0	ECG	4039806609328	2LS32972ES4

- please order direct beam mirror separately if needed

**Accessories (for details see page 9.47 ff.)**

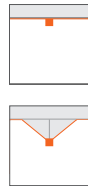
No. of luminaires in room

Reflection factors 70/50/20

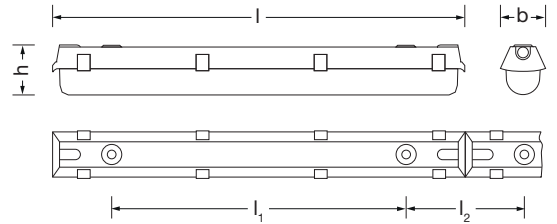
Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.2	2.0	2.4	5.1	5.9
30 m <sup>2</sup>	1.5	1.7	2.9	3.4	7.4	8.4
40 m <sup>2</sup>	1.8	2.1	3.7	4.1	9.2	10
50 m <sup>2</sup>	2.2	2.4	4.4	4.9	11	12
75 m <sup>2</sup>	3.1	3.4	6.2	6.8	16	17
100 m <sup>2</sup>	3.9	4.3	7.9	8.6	20	21
500 m <sup>2</sup>	17	18	34	35	84	88

Maintenance factor 0.8  $R_h = L_h + 0.5 m$

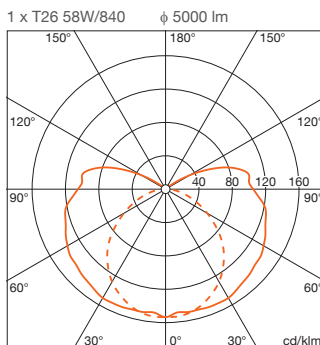
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806166227	5LS32201ES
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES



T26  
G13



4039806608499  
2LS22871E



$\eta_{LB}$  80.6%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5856	2994
L <sub>70</sub>	5267	3610
L <sub>65</sub>	5139	3943

UGR 24.9 19.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.2	2.0	2.4	5.1	5.9
30 m <sup>2</sup>	1.5	1.7	2.9	3.4	7.4	8.4
40 m <sup>2</sup>	1.8	2.1	3.7	4.1	9.2	10
50 m <sup>2</sup>	2.2	2.4	4.4	4.9	11	12
75 m <sup>2</sup>	3.1	3.4	6.2	6.8	16	17
100 m <sup>2</sup>	3.9	4.3	7.9	8.6	20	21
500 m <sup>2</sup>	17	18	34	35	84	88

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR100 with pearl cover of PC insulation class II**

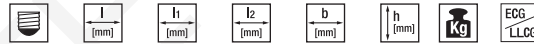
Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- extremely wide distribution; direct distribution via accessory
- with pearl cover
- with ECG

- housing of glass-fiber-reinforced polyester, gray
- cover of PC
- protection rating: IP65
- insulation class: II
- impact resistance: IK07 (PC cover)
- protection symbol: D



**Light source**



Order no. OSRAM Order no. Siteco

Cover, PC, UV-stabilized

	G13	l	l <sub>1</sub>	l <sub>2</sub>	b	h	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1277	800	475	105	116	2.8	ECG	4039806608482	2LS22871C
1x T26 58 W	G13	1577	1100	475	105	116	3.4	ECG	4039806608499	2LS22871E
2x T26 58 W	G13	1577	1100	475	136	132	4.0	ECG	4039806608543	2LS22872E

Cover, PC, UV-stabilized, with through-wiring 5x 1.5 mm<sup>2</sup>

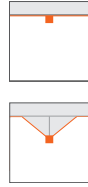
	G13	l	l <sub>1</sub>	l <sub>2</sub>	b	h	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1277	800	475	105	116	2.8	ECG	4039806608505	2LS22971C
1x T26 58 W	G13	1577	1100	475	105	116	3.5	ECG	4039806608512	2LS22971E
2x T26 58 W	G13	1577	1100	475	136	132	4.1	ECG	4039806608567	2LS22972E

— please order direct beam mirror separately if needed

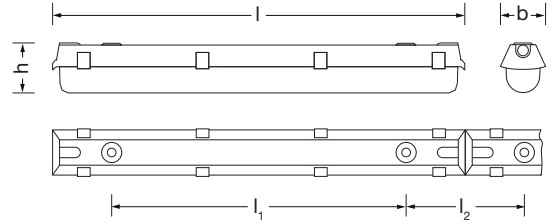
**Accessories (for details see page 9.47 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1x T26 36W	0.1	4039806166203	5LS32201CS
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806166227	5LS32201ES
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES



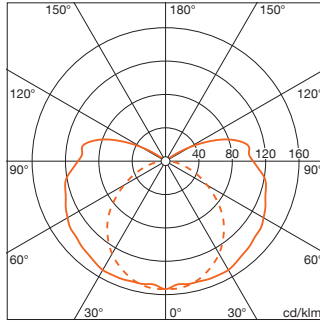


T26  
G13



4039806614988  
2LS32971EA04

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  80.6%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5856	2994
L <sub>70</sub>	5267	3610
L <sub>65</sub>	5139	3943

UGR 24.9 19.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**FR100 with pearl cover of PMMA with single battery | insulation class I**

- Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail
- extremely wide distribution; direct distribution via accessory
- with pearl cover
- with ECG, additionally with single battery

- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- protection rating: IP65
- insulation class: I

**Electrics**

- Luminaire for operation on "normal mains" or via the integral self-contained battery supply
- luminaire wired ready-for-connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase)
- switched phase and unswitched phase must have same phase angle
- single battery operation for 3-hour or 1-hour emergency operation with reduced luminous flux
- with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



**No. of luminaires in room**

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Em(lx)	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.2	2.0	2.4	5.1	5.9
30 m <sup>2</sup>	1.5	1.7	2.9	3.4	7.4	8.4
40 m <sup>2</sup>	1.8	2.1	3.7	4.1	9.2	10
50 m <sup>2</sup>	2.2	2.4	4.4	4.9	11	12
75 m <sup>2</sup>	3.1	3.4	6.2	6.8	16	17
100 m <sup>2</sup>	3.9	4.3	7.9	8.6	20	21
500 m <sup>2</sup>	17	18	34	35	84	88

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Light source**



**Operational duration**



**Order no. OSRAM**

**Order no. Siteco**

With single battery

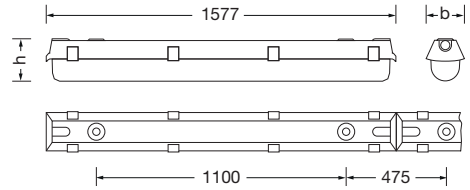
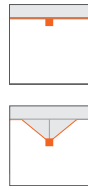
Light source	Operational duration	l (mm)	l1 (mm)	l2 (mm)	b (mm)	h (mm)	Kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13	1h	1577	1100	475	105	116	3.4	ECG	4039806614988 2LS32971EA04
1x T26 58 W	G13	3h	1577	1100	475	105	116	4.2	ECG	4039806614995 2LS32971EA05
2x T26 58 W	G13	1h	1577	1100	475	136	132	4.2	ECG	4039806615015 2LS32972EA04
2x T26 58 W	G13	3h	1577	1100	475	136	132	4.9	ECG	4039806463401 2LS32972EA05

- please order direct beam mirror separately if needed

**Accessories (for details see page 9.47 ff.)**

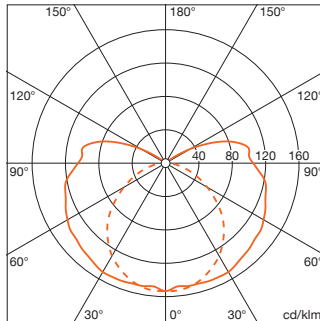
**Designation**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806166227	5LS32201ES
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES



4039806614971  
2LS32971EA01

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  80.6%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5856	2994
L <sub>70</sub>	5267	3610
L <sub>65</sub>	5139	3943

UGR 24.9 19.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Rh(m)	Lh(m)	Rh(m)	Lh(m)	Rh(m)
20 m <sup>2</sup>	1.0	1.2	2.0	2.4	5.1	5.9
30 m <sup>2</sup>	1.5	1.7	2.9	3.4	7.4	8.4
40 m <sup>2</sup>	1.8	2.1	3.7	4.1	9.2	10
50 m <sup>2</sup>	2.2	2.4	4.4	4.9	11	12
75 m <sup>2</sup>	3.1	3.4	6.2	6.8	16	17
100 m <sup>2</sup>	3.9	4.3	7.9	8.6	20	21
500 m <sup>2</sup>	17	18	34	35	84	88

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR100 with pearl cover of PMMA with additional version E14 | insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail  
 — extremely wide distribution  
 — with pearl cover  
 — with ECG; with additional bulb E14

- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- protection rating: IP65
- insulation class: I
- incl. high-voltage halogen lamp IT 40W/ matt

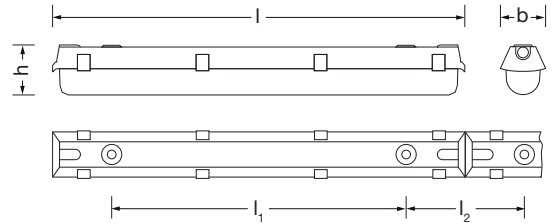
**Electrics**

Luminaire for operation on "normal mains" and with emergency light socket for operation with a second, external power supply  
 • Luminaire wired ready-for-connection, with 6-pole connection terminal (3-pole for normal mains with switched phase + 3-pole for additional bulb)

Detailed information: see data sheet

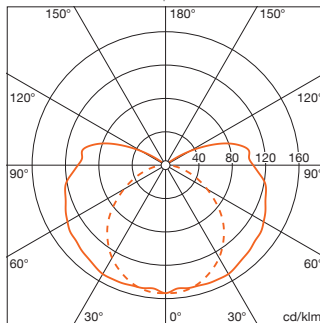


Light source	Additional bulb	b [mm]	h [mm]	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13 1x IT 40 W	E14 105	116	2.0	ECG	4039806614971	2LS32971EA01
2x T26 58 W	G13 1x IT 40 W	E14 136	132	3.9	ECG	4039806615008	2LS32972EA01



4039806581884  
5LS32971EY

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  80.6%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5859	2995
L <sub>70</sub>	5269	3612
L <sub>65</sub>	5142	3945

UGR 24.9 19.8  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.0	1.2	2.0	2.4	5.1	5.9
30 m <sup>2</sup>	1.5	1.7	2.9	3.4	7.4	8.4
40 m <sup>2</sup>	1.8	2.1	3.7	4.1	9.2	10
50 m <sup>2</sup>	2.2	2.4	4.4	4.9	11	12
75 m <sup>2</sup>	3.1	3.4	6.2	6.8	16	17
100 m <sup>2</sup>	3.9	4.3	7.9	8.6	20	21
500 m <sup>2</sup>	17	18	34	35	84	88

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR100 with pearl PMMA cover**  
**with vibration testing for earthquake safety | insulation class I**

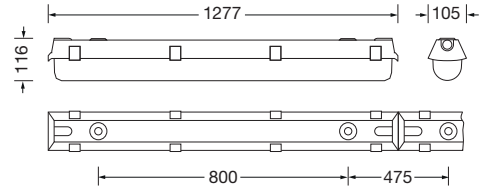
Damp-proof diffuser luminaire for ceiling surface mounting  
 — extremely wide distribution; with pearl cover  
 — with ECG or LLCG  
 — housing of glass-fiber-reinforced polyester, gray; cover of PMMA

- protection rating: IP65
- insulation class: I
- protection symbol: D (versions with ECG)
- vibration test: with test certificate for earthquake safety (vibration test according to ZXX001/DD/7080.9/830001 Rev. E of 15.06.2010)



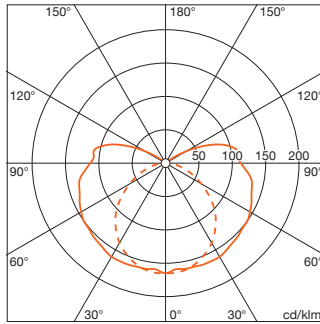
Light source		$l$ [mm]	$l_1$ [mm]	$l_2$ [mm]	$b$ [mm]	$h$ [mm]			Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	667	330	335	105	116	2.0	ECG	4039806581846	5LS32971AY
1x T26 18 W	G13	667	330	335	105	116	2.2	LLCG	4039806581747	5LS32911AY
1x T26 36 W	G13	1277	800	475	105	116	2.7	ECG	4039806581860	5LS32971CY
1x T26 36 W	G13	1277	800	475	105	116	3.1	LLCG	4039806581761	5LS32911CY
1x T26 58 W	G13	1577	1100	475	105	116	3.2	ECG	4039806581884	5LS32971EY
1x T26 58 W	G13	1577	1100	475	105	116	4.3	LLCG	4039806581785	5LS32911EY
2x T26 36 W	G13	1277	800	475	136	132	3.6	ECG	4039806581907	5LS32972CY
2x T26 36 W	G13	1277	800	475	136	132	4.5	LLCG	4039806581808	5LS32912CY
2x T26 58 W	G13	1577	1100	475	136	132	4.3	ECG	4039806581921	5LS32972EY
2x T26 58 W	G13	1577	1100	475	136	132	5.7	LLCG	4039806581822	5LS32912EY

— incl. supplementary brackets (set of 2)



4039806580641  
5LS22871CY

1 x T26 36W/840  $\phi$  3200 lm



$\eta_{LB}$  86.7%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	4997	2459
L <sub>70</sub>	4494	3018
L <sub>65</sub>	4386	3311

UGR 24.3 19.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.5	1.7	2.9	3.4	7.3	8.6
30 m <sup>2</sup>	2.1	2.4	4.3	4.9	11	12
40 m <sup>2</sup>	2.7	3.0	5.3	6.0	13	15
50 m <sup>2</sup>	3.2	3.5	6.3	7.1	16	18
75 m <sup>2</sup>	4.5	5.0	9.1	9.9	23	25
100 m <sup>2</sup>	5.7	6.2	11	12	29	31
500 m <sup>2</sup>	24	25	49	51	122	127

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR100 with pearl cover of PC**  
**with vibration testing for earthquake safety | insulation class II**

- Damp-proof diffuser luminaire for ceiling surface mounting
- extremely wide distribution; with pearl cover
- with ECG
- housing of glass-fiber-reinforced polyester, gray; cover of PC
- protection rating: IP65

- insulation class: II
- impact resistance: IK07
- protection symbol: D
- vibration test: with test certificate for earthquake safety (vibration test according to ZXX001/DD/7080.9/830001 Rev. E of 15.06.2010)



**Light source**

Cover, PC, UV-stabilized

1x T26 36 W



G13



3.2

**Order no.**  
**OSRAM**

4039806580641

**Order no.**  
**Siteco**

5LS22871CY

Cover, PC, UV-stabilized, with through-wiring 5x 1.5mm<sup>2</sup>

1x T26 36 W

G13

3.1

4039806580245

5LS22971CY

- incl. supplementary brackets (set of 2)

### FR100 optical accessories

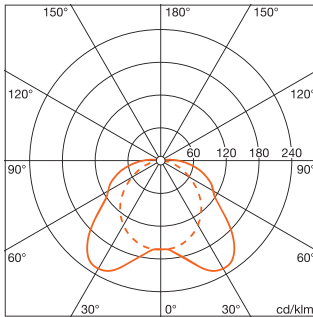
#### Additional reflector with direct symmetric distribution

highly specular aluminum | incl. fixation screws



4039806608321 + 403980616227  
2LS32971EP1 + 5LS32201ES

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  72%  $\phi_{\downarrow}$  96%  $\phi_{\uparrow}$  4%

Designation	for series/light source	Order no. OSRAM	Order no. Siteco
Reflector	1x T26 36W	4039806166203	5LS32201CS
Reflector	1x T26 58W	4039806166227	5LS32201ES
Reflector	2x T26 36W	4039806166241	5LS32202CS
Reflector	2x T26 58W	4039806166265	5LS32202ES

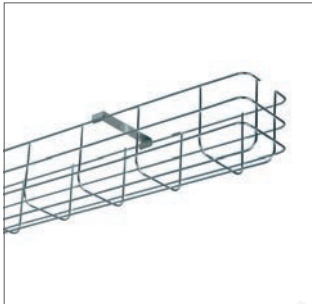
Refrigeration luminaire for temperatures min. -40°C and min. -30°C

Reflector	5LS329 . 1ET1 / 1x T26 58W	4039806259714	5LS32201EST1
Reflector	5LS329 . 2CT1 / 2x T26 36W	4039806166241	5LS32202CS
Reflector	5LS329 . 2ET1 / 2x T26 58W	4039806166265	5LS32202ES

### FR100 housing accessories

#### Wire protection basket\*

steel wire,  $\varnothing$ = 4mm, galvanized | incl. mounting bracket



Designation	for lamps	Order no. OSRAM	Order no. Siteco
Wire protection basket	1x T26 18W	4039806252036	5LS32201AD
Wire protection basket	1x T26 36W	4039806252043	5LS32201CD
Wire protection basket	1x T26 58W	4039806252050	5LS32201ED
Wire protection basket	2x T26 36W	4039806252067	5LS32202CD
Wire protection basket	2x T26 58W	4039806252074	5LS32202ED

\*only for ceiling installation

## FR100 electrical accessories



### Through-wiring set for interrupted for continuous rows

for through-wiring within a luminaire | consisting of heat-resistant single-core cables, terminals and mounting material | wiring from one luminaire to the next with normal cables (such as NYM)

Designation		Order no. OSRAM	Order no. Siteco
Through-wiring	3x 1.5mm <sup>2</sup>	4039806166098	5LS31301EK
Through-wiring	5x 1.5mm <sup>2</sup>	4039806166111	5LS31311EK
Through-wiring	5x 2.5mm <sup>2</sup>	4039806171931	5LS31321EK

- 1 set required per luminaire
- through-wiring with PE, for insulation class I
- suitable for 58W (at 36W: make a loop)



### Through-wiring set for seamless continuous rows

for through-wiring from the terminal of one luminaire to the terminal of the next (luminaires mounted flush against each other) | consisting of a PC conduit to the connection with neighboring luminaires, heat-resistant conductor line, terminals and mounting material

Designation		Order no. OSRAM	Order no. Siteco
Through-wiring	5x 1.5mm <sup>2</sup>	4039806166289	5LS32211EK

- 1 set required per luminaire
- through-wiring with PE, for insulation class I
- suitable for 58W (at 36W: make a loop)



### 5-pole extra terminal

for last luminaire in a seamless continuous row (luminaires mounted flush against each other)

Designation		Order no. OSRAM	Order no. Siteco
5x max. 2.5mm <sup>2</sup>		4039806367778	5LS32200EK

- 1 unit required per continuous row (in last luminaire)



### Twin-core cable infeed

for 2 insulated cables Ø 8.4...12mm, (such as NYM 5x 1.5mm<sup>2</sup>)

Designation		Order no. OSRAM	Order no. Siteco
Twin-core cable infeed		4039806166180	5LS32200XV

## FR100 mounting accessories



### Anti-vibration bell element

for vibration damping

Designation	Order no. OSRAM	Order no. Siteco
Anti-vibration bell element	4039806378446	5LY9084

- 2 pieces required per luminaire
- with M6 internal thread



### Universal luminaire mount

for wire ( $\varnothing \leq 4.5\text{mm}$ ) or chain ( $\varnothing_{\text{interior}} \geq 7\text{mm}$ ) | load capacity: 25kg

Designation		Order no. OSRAM	Order no. Siteco
Suspension bracket	galvanized, some V2A	4039806167521	5LY9086
Suspension bracket	V2A	4039806170750	5LY90861

- 2 pieces required per luminaire



### Chain

inner link size 7 x 40mm | load capacity: 56kg

Designation		Order no. OSRAM	Order no. Siteco
Chain	galvanized	4039806999856	5LY9005
Chain	V2A	4039806175991	5LY9111

- chain: per meter



### Quick-release link, galvanized

inner link size 8 x 20mm | load capacity: 50kg

Designation		Order no. OSRAM	Order no. Siteco
Quick-release link	galvanized	4039806176011	5LY9113



### Mounting set

for luminaire mounting to un-wired DUS® mounting rail | consisting of a mounting element, galvanized steel; plastic plate, screw connector; cable holder

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting set	set of 2	4039806170774	5LS90900XC1

- 2 pieces required per luminaire





### Mounting element

for luminaire mounting to GRP mounting rail | consisting of threaded plate, V2A; screw fixation

Designation	Order no. OSRAM	Order no. Siteco
Mounting element	4039806171696	5LS91120EC

- 2 pieces required per luminaire
- screw plates are included in the scope of delivery of the plastic trunking rails (each 2 units, 4 units, 6 units for 1-, 2-, 3-length rails)

### FR100 replacement parts



### Lighting technology cover for FR100, pearl

PC or PMMA (for luminaires for refrigerated buildings: special LT cover required)

Designation	for lamps	Order no. OSRAM	Order no. Siteco
LT cover, PC	1x T26 18W	4039806440235	5LS32911AW
LT cover, PC	1x T26 36W	4039806440259	5LS32911CW
LT cover, PC	1x T26 58W	4039806440273	5LS32911EW
LT cover, PC	2x T26 36W	4039806440297	5LS32912CW
LT cover, PC	2x T26 58W	4039806440310	5LS32912EW
Optical cover, PMMA	1x T26 18W	4039806413536	5LS32901AW
Optical cover, PMMA	1x T26 36W	4039806413550	5LS32901CW
Optical cover, PMMA	1x T26 58W	4039806413574	5LS32901EW
Optical cover, PMMA	2x T26 36W	4039806440174	5LS32902CW
Optical cover, PMMA	2x T26 58W	4039806440198	5LS32902EW

Refrigeration storage luminaire for temperatures min. -40°C and min. -30°C

Optical cover, PMMA	5LS329 . 1CT1 / 1x T26 36W	4039806850522	5LS32901CWT1
Optical cover, PMMA	5LS329 . 1ET1 / 1x T26 58W	4039806440150	5LS32901EWT1
Optical cover, PMMA	5LS329 . 2CT1 / 2x T26 36W	4039806850553	5LS32902CWT1
Optical cover, PMMA	5LS329 . 2ET1 / 2x T26 58W	4039806440211	5LS32902EWT1

For DUS® mounting rails (without through-wiring) and accessories, see **page 9.87 ff.**

For GRP mounting rails (for single luminaires) and accessories, see **page 9.87 ff.**

# Monsun®



The damp-proof diffuser luminaires in the Monsun® family were specifically developed for the special environmental conditions in industrial locations. A robust housing of glass-fiber-reinforced polyester, an impact-resistant pearl diffuser of PMMA or PC with high-quality prismatic technology and a special seal system keep temperature deviations, critical humidity conditions and difficult environmental conditions at bay. High-quality cover catches and mounting elements of stainless steel give the luminaire high durability. The Monsun® luminaires in versions for T16 or T26 light bulbs feature protection rating IP65 and guarantee impact resistance of IK07 in connection with the PC cover. Well engineered lighting technology creates an even distribution and reduced glare light distribution on the working plane and on the ceiling. With comprehensive and easy-to-install accessories, the Monsun® luminaires are perfect for ceiling installation, for suspended installation or for mounting on trunking rails, with individual alignment as needed.

## Features

- damp-proof diffuser luminaire with high-grade materials and high protection rating
- suitable for use under difficult ambient conditions with moisture or dust in interior and semi-exterior applications (covered areas)
- light distribution with prismatic technology for good, homogeneous illumination
- for innovative T16 light sources and compact fluorescent lamps
- universal mounting system by use of individual fixation or mounting elements
- luminaires easily installed via standard clips
- prepared for rapid installation to trunking rails
- tool-free bulb change

## Lighting technology

- injection-molded prismatic cover with inner prisms for direct wide light distribution with ceiling illumination
- direct symmetric or asymmetric distribution via supplementary reflector (accessory)

## Electrics

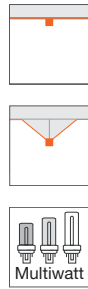
Luminaires ready-for-connection, pre-wired | for insulation class I with 3-pole terminal; for insulation class II with 2-pole terminal (ECG DALI or ECG 1...10V: + 2-pole for control signal), max. 2.5mm<sup>2</sup> | cable infeed for cables or conduit D = 8.5...13.5mm | for through-wiring (with special wiring sets) suitable for within the luminaire (insulation class I) or including through-wiring

## Dimming mode

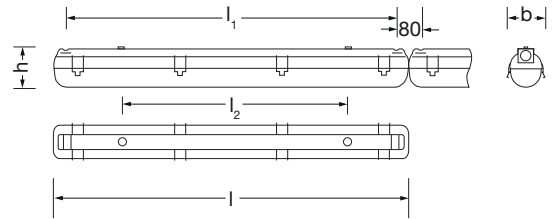
The safe and continual dimming mode of T26 halogen bulbs is guaranteed at environmental temperatures up to -20°C; for T16 halogen bulbs, this is only guaranteed at environmental temperature > 10°C. Use at lower temperatures is possible with limitations (please inquire)

## Housing

Housing made of glass-fiber-reinforced polyester resin, largely resistant to many aggressive conditions | cover of PMMA or UV-stabilized PC for higher requirements for impact resistance (IK07) | catches for cover and fixation elements of V2A | interior reflector is also the device support for all electrics and is held in the housing using snap technology | housing and cover are completely recyclable

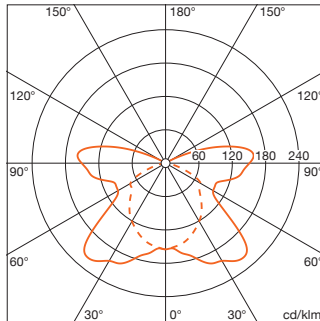


T16  
G5



4039806569509  
5LS41271H

1 x T16 28W/840  $\phi$  2600 lm



$\eta_{LB}$  87.9%  $\phi_{\downarrow}$  80%  $\phi_{\uparrow}$  20%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5455	1201
L <sub>70</sub>	3340	2781
L <sub>65</sub>	3033	3558

UGR 23.2 19.5

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.7	2.1	3.5	4.1	8.7	10
30 m <sup>2</sup>	2.5	2.9	5.0	5.8	13	14
40 m <sup>2</sup>	3.2	3.6	6.4	7.2	16	18
50 m <sup>2</sup>	3.8	4.3	7.6	8.5	19	21
75 m <sup>2</sup>	5.4	5.9	11	12	27	30
100 m <sup>2</sup>	6.9	7.5	14	15	35	38
500 m <sup>2</sup>	30	31	60	62	150	156

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

**Monsun® with prismatic cover of PMMA | for T16 bulb with ECG Multiwatt | insulation class I**

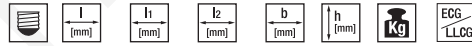
Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- direct extremely wide distribution with ceiling illumination; direct symmetric distribution via accessory
- with injection-molded prismatic cover
- with ECG Multiwatt
- housing of glass-fiber-reinforced polyester, gray

- cover of PMMA
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- protection symbol: D
- incl. V2A chain suspension



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

**PMMA enclosure**

	G5	l1 [mm]	l2 [mm]	b [mm]	h [mm]	Kg	ECG	LLCE	Order no. OSRAM	Order no. Siteco
1x T16 14/24 W	G5	667	584	330	84	102	1.3	Multi	4039806569486	5LS41271B
1x T16 21/39 W	G5	1277	1194	800	84	102	2.3	Multi	4039806569523	5LS41271L
1x T16 28/54 W	G5	1277	1194	800	84	102	2.3	Multi	4039806569509	5LS41271H
1x T16 28/54 W	G5	1277	1194	800	84	102	2.3	Multi DALI	4050737005102	5LS412D1H
1x T16 28/54 W	G5	1277	1194	800	84	102	2.3	Multi 1...10V	4050737004976	5LS41261H
1x T16 35/49/80 W	G5	1577	1494	1100	84	102	2.6	Multi	4039806569547	5LS41271Q
1x T16 35/49/80 W	G5	1577	1494	1100	84	102	2.6	Multi DALI	4050737005119	5LS412D1Q
1x T16 35/49/80 W	G5	1577	1494	1100	84	102	2.6	Multi 1...10V	4039806570963	5LS41261Q
2x T16 14/24 W	G5	667	584	330	130	110	1.8	Multi	4039806569561	5LS41272B
2x T16 21/39 W	G5	1277	1194	800	130	110	3.0	Multi	4039806569585	5LS41272L
2x T16 28/54 W	G5	1577	1494	1100	130	110	3.6	Multi	4039806909787	5LS41272HE
2x T16 28/54 W	G5	1577	1494	1100	130	110	3.6	Multi DALI	4050737010724	5LS412D2HE
2x T16 35/49 W	G5	1577	1494	1100	130	110	3.5	Multi	4039806591364	5LS41272W
2x T16 35/49 W	G5	1577	1494	1100	130	110	3.5	Multi DALI	4039806999740	5LS412D2W
2x T16 35/49 W	G5	1577	1494	1100	130	110	3.5	Multi 1...10V	4039806895424	5LS41262W

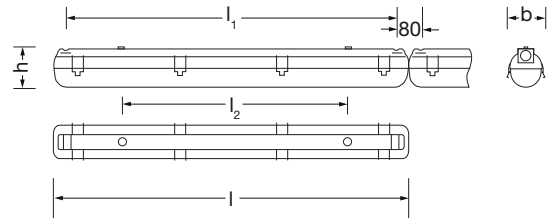
— please order direct symmetric beam mirror separately if needed

**Accessories (for details see page 9.62 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric distribution, for 1x T16 14/24W	0.1	4039806780997	5LS44201MS
Mirror reflector, direct symmetric distribution, for 1x T16 28/54W	0.1	4039806781000	5LS44201PS
Mirror reflector, direct symmetric distribution, for 1x T16 35/49/80W	0.1	4039806781017	5LS44201RS
Mirror reflector, direct symmetric distribution, for 2x T26 14/24W	0.1	4039806781024	5LS44202MS
Mirror reflector, direct symmetric distribution, for 2x T26 28/54W	0.1	4039806781031	5LS44202PS
Mirror reflector, direct symmetric distribution, for 2x T26 35/49W	0.2	4039806781048	5LS44202RS

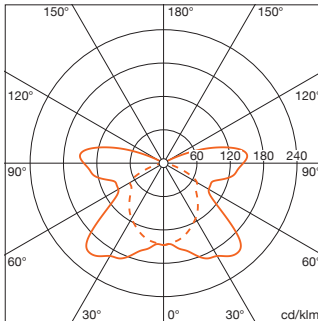


T16  
G5



4039806569646  
5LS42271H

1 x T16 54W/840  $\phi$  4450 lm



$\eta_{LB}$  83.5%  $\phi_{\downarrow}$  80%  $\phi_{\uparrow}$  20%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	8869	1955
L <sub>70</sub>	5430	4523
L <sub>65</sub>	4933	5783

UGR 24.9 21.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.1	2.5	5.3	6.3
30 m <sup>2</sup>	1.6	1.8	3.1	3.6	7.8	8.9
40 m <sup>2</sup>	2.0	2.2	3.9	4.4	9.8	11
50 m <sup>2</sup>	2.3	2.6	4.7	5.2	12	13
75 m <sup>2</sup>	3.3	3.6	6.6	7.3	17	18
100 m <sup>2</sup>	4.3	4.6	8.5	9.3	21	23
500 m <sup>2</sup>	18	19	37	38	92	96

Maintenance factor 0.8  $R_h = L_h + 0.5 m$

**Monsun® with prismatic cover of PC | for T16 bulbs with ECG Multiwatt | insulation class I**

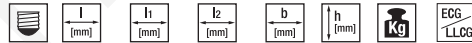
Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- direct extremely wide distribution with ceiling illumination; direct symmetric distribution via accessory
- with injection-molded prismatic cover
- with ECG Multiwatt
- housing of glass-fiber-reinforced polyester, gray

- cover of PC
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- protection symbol: D
- impact resistance: IK07
- incl. V2A chain suspension



**Light source**



**Order no. OSRAM**      **Order no. Siteco**

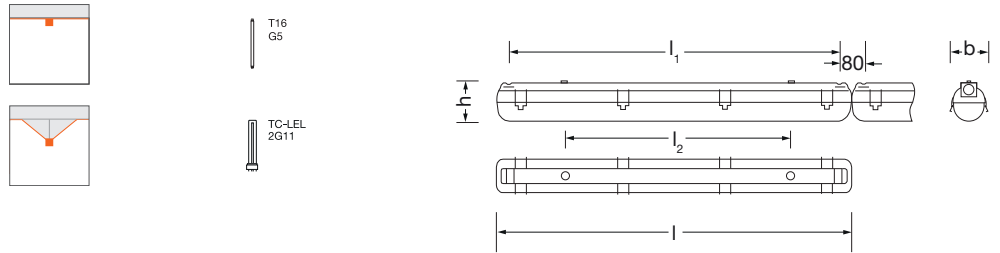
Cover, PC, UV-stabilized

		l	l <sub>1</sub>	l <sub>2</sub>	b	h	Kg	ECG	LLC6		
1x T16 14/24 W	G5	667	584	330	84	102	1.2	Multi		4039806569622	5LS42271B
1x T16 21/39 W	G5	1277	1194	800	84	102	2.2	Multi		4039806569660	5LS42271L
1x T16 28/54 W	G5	1277	1194	800	84	102	2.3	Multi		4039806569646	5LS42271H
1x T16 28/54 W	G5	1277	1194	800	84	102	2.3	Multi DALI		4050737005157	5LS422D1H
1x T16 35/49/80 W	G5	1577	1494	1100	84	102	2.6	Multi		4039806569684	5LS42271Q
1x T16 35/49/80 W	G5	1577	1494	1100	84	102	2.6	Multi DALI		4050737005171	5LS422D1Q
2x T16 14/24 W	G5	667	584	330	130	110	1.6	Multi		4039806569707	5LS42272B
2x T16 21/39 W	G5	1277	1194	800	130	110	3.0	Multi		4039806569721	5LS42272L
2x T16 35/49 W	G5	1577	1494	1100	130	110	3.6	Multi		4039806591388	5LS42272W

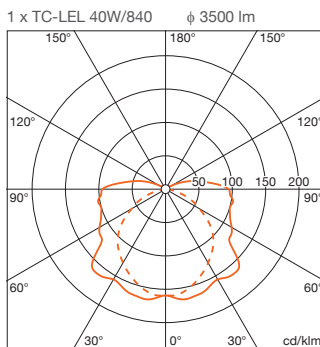
— please order direct symmetric beam mirror separately if needed

**Accessories (for details see page 9.62 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric distribution, for 1x T16 14/24W	0.1	4039806780997	5LS44201MS
Mirror reflector, direct symmetric distribution, for 1x T16 28/54W	0.1	4039806781000	5LS44201PS
Mirror reflector, direct symmetric distribution, for 1x T16 35/49/80W	0.1	4039806781017	5LS44201RS
Mirror reflector, direct symmetric distribution, for 2x T26 14/24W	0.1	4039806781024	5LS44202MS
Mirror reflector, direct symmetric distribution, for 2x T26 28/54W	0.1	4039806781031	5LS44202PS
Mirror reflector, direct symmetric distribution, for 2x T26 35/49W	0.2	4039806781048	5LS44202RS



4039806612380  
5LS41275U



$\eta_{LB}$  72.1%  $\phi_{\downarrow}$  86%  $\phi_{\uparrow}$  14%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	10911	3319
L <sub>70</sub>	8943	6029
L <sub>65</sub>	8638	6944

UGR 26.8 21  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.5	1.8	3.0	3.6	7.6	9.0
30 m <sup>2</sup>	2.2	2.5	4.4	5.0	11	13
40 m <sup>2</sup>	2.8	3.1	5.6	6.3	14	16
50 m <sup>2</sup>	3.3	3.7	6.7	7.4	17	19
75 m <sup>2</sup>	4.8	5.2	9.5	10	24	26
100 m <sup>2</sup>	6.1	6.6	12	13	30	33
500 m <sup>2</sup>	26	27	53	55	131	137

Maintenance factor 0.8 Rh = Lh + 0.5 m

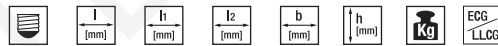
**Monsun® with prismatic cover of PMMA | for T16 bulbs with ECG Singlewatt | insulation class I**

- Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail
- direct extremely wide distribution with ceiling illumination; direct symmetric distribution via accessory
- with injection-molded prismatic cover
- with ECG Singlewatt

- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- protection symbol: D
- versions with ECG incl. V2A chain suspension



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

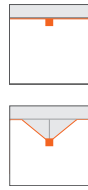
**PMMA enclosure**

	Light source	l [mm]	li [mm]	lz [mm]	b [mm]	h [mm]	ECG	LLCG	Order no. OSRAM	Order no. Siteco
1x T16 14 W	G5	667	584	330	84	102	1.2	ECG	4039806611994	5LS41271M
1x T16 24 W	G5	667	584	330	84	102	1.2	ECG	4039806611772	5LS41271Y
1x T16 28 W	G5	1277	1194	800	84	102	2.2	ECG	4039806611925	5LS41271P
1x T16 54 W	G5	1277	1194	800	84	102	2.3	ECG	4039806610942	5LS41271J
1x T16 35 W	G5	1577	1494	1100	84	102	2.5	ECG	4039806611765	5LS41271R
1x T16 49 W	G5	1577	1494	1100	84	102	2.5	ECG	4039806612045	5LS41271F
1x T16 80 W	G5	1577	1494	1100	84	102	2.6	ECG	4039806611864	5LS41271X
2x T16 14 W	G5	667	584	330	130	110	1.8	ECG	4039806612052	5LS41272M
2x T16 24 W	G5	667	584	330	130	110	1.6	ECG	4039806612069	5LS41272Y
2x T16 28 W	G5	1277	1194	800	130	110	2.8	ECG	4039806612007	5LS41272P
2x T16 28 W	G5	1277	1194	800	130	110	2.9	1...10V	4039806613813	5LS41262P
2x T16 54 W	G5	1577	1494	1100	130	110	3.4	ECG	4039806613790	5LS41272JE
2x T16 35 W	G5	1577	1494	1100	130	110	3.3	ECG	4039806612014	5LS41272R
2x T16 49 W	G5	1577	1494	1100	130	110	3.3	ECG	4039806613462	5LS41272F
1x TC-LEL 40 W	2G11	667	584	330	84	102	1.3	ECG	4039806612380	5LS41275U

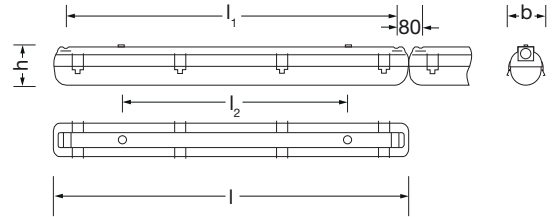
- please order direct symmetric beam mirror separately if needed

**Accessories (for details see page 9.62 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric distribution, for 1x T16 14/24W	0.1	4039806780997	5LS44201MS
Mirror reflector, direct symmetric distribution, for 1x T16 28/54W	0.1	4039806781000	5LS44201PS
Mirror reflector, direct symmetric distribution, for 1x T16 35/49/80W	0.1	4039806781017	5LS44201RS
Mirror reflector, direct symmetric distribution, for 2x T26 14/24W	0.1	4039806781024	5LS44202MS
Mirror reflector, direct symmetric distribution, for 2x T26 28/54W	0.1	4039806781031	5LS44202PS
Mirror reflector, direct symmetric distribution, for 2x T26 35/49W	0.2	4039806781048	5LS44202RS

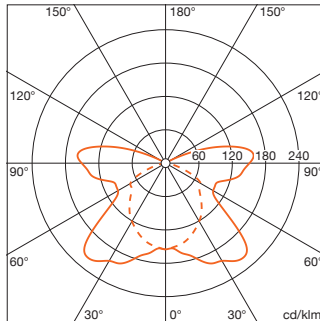


T16  
G5



4039806613509  
5LS42271P

1 x T16 28W/840  $\phi$  2600 lm



$\eta_{LB}$  87.9%  $\phi_{\downarrow}$  80%  $\phi_{\uparrow}$  20%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5455	1201
L <sub>70</sub>	3340	2781
L <sub>65</sub>	3033	3558

UGR 23.2 19.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	2.5	3.0	2.5	3.0	2.5
20 m <sup>2</sup>	1.7	2.1	3.5	4.1	8.7	10
30 m <sup>2</sup>	2.5	2.9	5.0	5.8	13	14
40 m <sup>2</sup>	3.2	3.6	6.4	7.2	16	18
50 m <sup>2</sup>	3.8	4.3	7.6	8.5	19	21
75 m <sup>2</sup>	5.4	5.9	11	12	27	30
100 m <sup>2</sup>	6.9	7.5	14	15	35	38
500 m <sup>2</sup>	30	31	60	62	150	156

Maintenance factor 0.8 Rh = Lh + 0.5 m

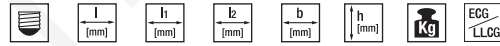
**Monsun® with prismatic cover of PC | for T16 bulbs with ECG Singlewatt | insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail  
 — direct extremely wide distribution with ceiling illumination; direct symmetric distribution via accessory  
 — with injection-molded prismatic cover  
 — with ECG Singlewatt  
 — housing of glass-fiber-reinforced polyester, gray

- cover of PC
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- impact resistance: IK07
- protection symbol: D
- versions with ECG incl. V2A chain suspension



**Light source**



Cover, PC, UV-stabilized

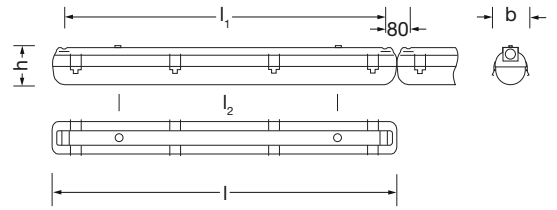
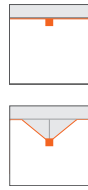
										Order no. OSRAM	Order no. Siteco
1x T16 14 W	G5	667	584	330	84	102	1.3	ECG		4039806613479	5LS42271M
1x T16 24 W	G5	667	584	330	84	102	1.4	ECG		4039806613493	5LS42271Y
1x T16 28 W	G5	1277	1194	800	84	102	2.2	ECG		4039806613509	5LS42271P
1x T16 54 W	G5	1277	1194	800	84	102	2.2	ECG		4039806613530	5LS42271J
1x T16 35 W	G5	1577	1494	1100	84	102	2.5	ECG		4039806613622	5LS42271R
1x T16 49 W	G5	1577	1494	1100	84	102	2.6	ECG		4039806613523	5LS42271F
1x T16 80 W	G5	1577	1494	1100	84	102	2.6	ECG		4039806613547	5LS42271X
2x T16 14 W	G5	667	584	330	130	110	1.6	ECG		4039806613554	5LS42272M
2x T16 24 W	G5	667	584	330	130	110	1.6	ECG		4039806613578	5LS42272Y
2x T16 28 W	G5	1277	1194	800	130	110	2.8	ECG		4039806613585	5LS42272P
2x T16 54 W	G5	1577	1494	1100	130	110	3.4	ECG		4039806530097	5LS42272JE
2x T16 35 W	G5	1577	1494	1100	130	110	3.6	ECG		4039806613592	5LS42272R
2x T16 49 W	G5	1577	1494	1100	130	110	3.6	ECG		4039806613615	5LS42272F

— please order direct symmetric beam mirror separately if needed

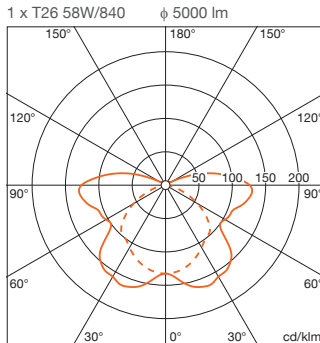
**Accessories (for details see page 9.62 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric distribution, for 1x T16 14/24W	0.1	4039806780997	5LS44201MS
Mirror reflector, direct symmetric distribution, for 1x T16 28/54W	0.1	4039806781000	5LS44201PS
Mirror reflector, direct symmetric distribution, for 1x T16 35/49/80W	0.1	4039806781017	5LS44201RS
Mirror reflector, direct symmetric distribution, for 2x T26 14/24W	0.1	4039806781024	5LS44202MS
Mirror reflector, direct symmetric distribution, for 2x T26 28/54W	0.1	4039806781031	5LS44202PS
Mirror reflector, direct symmetric distribution, for 2x T26 35/49W	0.2	4039806781048	5LS44202RS





4039806606273  
5LS41271E



$\eta_{LB}$  72.5%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	7907	2137
L <sub>70</sub>	5613	3120
L <sub>65</sub>	5114	3838

UGR 25.8 18.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20			500		
	100	200	500	100	200	500
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.6	6.5
30 m <sup>2</sup>	1.6	1.8	3.2	3.7	8.0	9.1
40 m <sup>2</sup>	2.0	2.3	4.1	4.6	10	11
50 m <sup>2</sup>	2.4	2.7	4.8	5.4	12	14
75 m <sup>2</sup>	3.4	3.8	6.8	7.5	17	19
100 m <sup>2</sup>	4.4	4.8	8.8	9.6	22	24
500 m <sup>2</sup>	19	20	38	39	95	99

Maintenance factor 0.8  $R_h = L_h + 0.5 m$

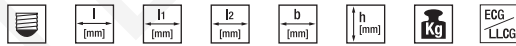
**Monsun® with prismatic cover of PMMA | for T26 bulbs insulation class I**

- Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail
- direct extremely wide distribution with ceiling illumination; direct symmetric or asymmetric distribution via accessories
- with injection-molded prismatic cover
- with ECG

- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- protection symbol: D
- versions with ECG incl. V2A chain suspension



**Light source**



**Order no. OSRAM** **Order no. Siteco**

**PMMA enclosure**

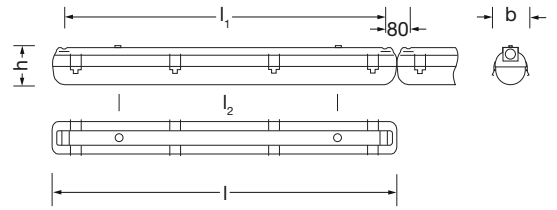
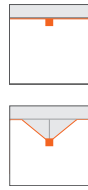
	Light source	l	l <sub>1</sub>	l <sub>2</sub>	b	h	h <sub>1</sub>	h <sub>2</sub>	ECG	LLG6	Order no. OSRAM	Order no. Siteco
1x T26 18 W	G13	667	584	330	84	102	1.3	ECG			4039806606259	5LS41271A
1x T26 18 W	G13	667	584	330	84	102	1.3	1...10V			4039806463722	5LS41261A
1x T26 36 W	G13	1277	1194	800	84	102	2.3	ECG			4039806606266	5LS41271C
1x T26 36 W	G13	1277	1194	800	84	102	2.3	1...10V			4039806609533	5LS41261C
1x T26 58 W	G13	1577	1494	1100	84	102	2.6	ECG			4039806606273	5LS41271E
1x T26 58 W	G13	1577	1494	1100	84	102	2.6	DALI			4039806525413	5LS412D1E
1x T26 58 W	G13	1577	1494	1100	84	102	2.6	1...10V			4039806607294	5LS41261E
2x T26 18 W	G13	667	584	330	130	110	1.8	ECG			4039806606303	5LS41272A
2x T26 36 W	G13	1277	1194	800	130	110	3.0	ECG			4039806606280	5LS41272C
2x T26 36 W	G13	1277	1194	800	130	110	3.0	DALI			4039806889812	5LS412D2C
2x T26 36 W	G13	1277	1194	800	130	110	3.0	1...10V			4039806610171	5LS41262C
2x T26 58 W	G13	1577	1494	1100	130	110	3.6	ECG			4039806606297	5LS41272E
2x T26 58 W	G13	1577	1494	1100	130	110	3.6	DALI			4039806530196	5LS412D2E
2x T26 58 W	G13	1577	1494	1100	130	110	3.6	1...10V			4039806607683	5LS41262E

- please order direct symmetric or asymmetric beam mirror separately if needed

**Accessories (for details see page 9.62 ff.)**

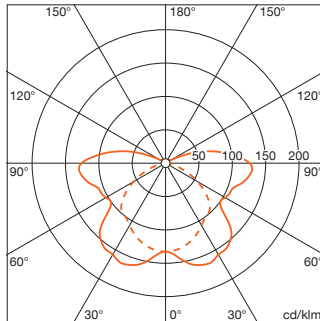
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, asymmetric beam, for 1x T26 36W	0.1	4039806171351	5LS44301CS
Mirror reflector, asymmetric beam, for 1x T26 58W	0.2	4039806171375	5LS44301ES
Mirror reflector, asymmetric beam, for 1x T26 36W	0.1	4039806171399	5LS44302CS
Mirror reflector, asymmetric beam, for 1x T26 58W	0.2	4039806171412	5LS44302ES
Mirror reflector, direct symmetric beam, for 1x T26 36W	0.1	4039806171573	5LS44201CS
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806171597	5LS44201ES
Mirror reflector, direct symmetric beam, for 2x T26 36W	0.1	4039806171610	5LS44202CS
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806171634	5LS44202ES





4039806527677  
5LS41271EA0003

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  72.5%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	7907	2137
L <sub>70</sub>	5613	3120
L <sub>65</sub>	5114	3838

UGR 25.8 18.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

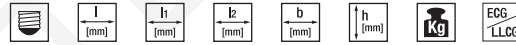
**Monsun® with prismatic cover of PMMA | for T26 bulbs insulation class I | with through-wiring**

- Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail
- direct extremely wide distribution with ceiling illumination; direct symmetric or asymmetric distribution via accessories
- with injection-molded prismatic cover
- with ECG

- housing of glass-fiber-reinforced polyester, gray
- cover of PMMA
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- protection symbol: D
- versions with ECG incl. V2A chain suspension



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

PMMA enclosure, with through-wiring 3x 1.5mm<sup>2</sup>

	Light source	l [mm]	h [mm]	lz [mm]	b [mm]	h [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1277	1194	800	84	102	2.3	ECG	4039806527653	5LS41271CA0003
1x T26 58 W	G13	1577	1494	1100	84	102	2.8	ECG	4039806527677	5LS41271EA0003
2x T26 36 W	G13	1277	1194	800	130	110	3.2	ECG	4039806527691	5LS41272CA0003
2x T26 58 W	G13	1577	1494	1100	130	110	3.8	ECG	4039806527714	5LS41272EA0003

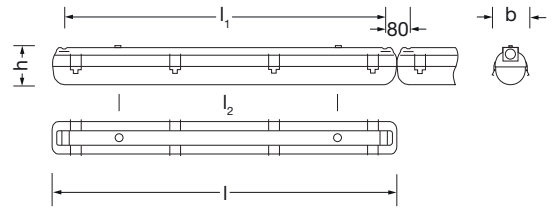
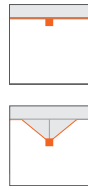
PMMA enclosure, with through-wiring 5x 2.5mm<sup>2</sup>

	Light source	l [mm]	h [mm]	lz [mm]	b [mm]	h [mm]	kg	ECG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1277	1194	800	84	102	2.4	ECG	4039806545350	5LS41271CA0007
1x T26 36 W	G13	1277	1194	800	84	102	2.4	1...10V	4039806545275	5LS41261CA0007
1x T26 58 W	G13	1577	1494	1100	84	102	2.9	ECG	4039806545374	5LS41271EA0007
1x T26 58 W	G13	1577	1494	1100	84	102	2.8	1...10V	4039806545299	5LS41261EA0007
2x T26 36 W	G13	1277	1194	800	130	110	3.0	ECG	4039806545398	5LS41272CA0007
2x T26 36 W	G13	1277	1194	800	130	110	3.2	1...10V	4039806545312	5LS41262CA0007
2x T26 58 W	G13	1577	1494	1100	130	110	3.6	ECG	4039806440471	5LS41272EA0007
2x T26 58 W	G13	1577	1494	1100	130	110	3.8	1...10V	4039806545336	5LS41262EA0007

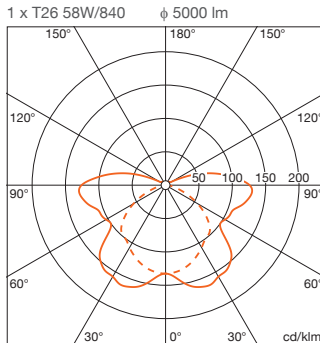
- please order direct symmetric or asymmetric beam mirror separately if needed

**Accessories (for details see page 9.62 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, asymmetric beam, for 1x T26 36W	0.1	4039806171351	5LS44301CS
Mirror reflector, asymmetric beam, for 1x T26 58W	0.2	4039806171375	5LS44301ES
Mirror reflector, asymmetric beam, for 1x T26 36W	0.1	4039806171399	5LS44302CS
Mirror reflector, asymmetric beam, for 1x T26 58W	0.2	4039806171412	5LS44302ES
Mirror reflector, direct symmetric beam, for 1x T26 36W	0.1	4039806171573	5LS44201CS
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806171597	5LS44201ES
Mirror reflector, direct symmetric beam, for 2x T26 36W	0.1	4039806171610	5LS44202CS
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806171634	5LS44202ES



4039806606549  
5LS42271E



Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	7907	2137
L <sub>70</sub>	5613	3120
L <sub>65</sub>	5114	3838

UGR 25.8 18.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20			500		
	100	200	500	100	200	500
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.6	6.5
30 m <sup>2</sup>	1.6	1.8	3.2	3.7	8.0	9.1
40 m <sup>2</sup>	2.0	2.3	4.1	4.6	10	11
50 m <sup>2</sup>	2.4	2.7	4.8	5.4	12	14
75 m <sup>2</sup>	3.4	3.8	6.8	7.5	17	19
100 m <sup>2</sup>	4.4	4.8	8.8	9.6	22	24
500 m <sup>2</sup>	19	20	38	39	95	99

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Monsun® with prismatic cover of PC | for T26 bulbs insulation class I**

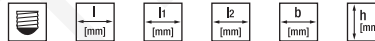
Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- direct extremely wide distribution with ceiling illumination; direct symmetric or asymmetric distribution via accessories
- with injection-molded prismatic cover
- with ECG
- housing of glass-fiber-reinforced polyester, gray

- cover of PC
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- impact resistance: IK07
- protection symbol: D
- versions with ECG incl. V2A chain suspension



Light source



Order no. OSRAM

Order no. Siteco

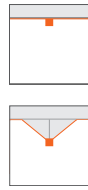
Cover, PC, UV-stabilized

Light source	l [mm]	h [mm]	l <sub>2</sub> [mm]	b [mm]	h [mm]	kg	ECG	LLGG	Order no. OSRAM	Order no. Siteco
1x T26 18 W G13	667	584	330	84	102	1.3	ECG		4039806606525	5LS42271A
1x T26 36 W G13	1277	1194	800	84	102	2.3	ECG		4039806606532	5LS42271C
1x T26 36 W G13	1277	1194	800	84	102	2.3	DALI		4039806805911	5LS422D1C
1x T26 36 W G13	1277	1194	800	84	102	2.3	1...10V		4039806610300	5LS42261C
1x T26 58 W G13	1577	1494	1100	84	102	2.6	ECG		4039806606549	5LS42271E
1x T26 58 W G13	1577	1494	1100	84	102	2.6	DALI		4039806537362	5LS422D1E
1x T26 58 W G13	1577	1494	1100	84	102	2.6	1...10V		4039806610317	5LS42261E
2x T26 18 W G13	667	584	330	130	110	1.8	ECG		4039806606556	5LS42272A
2x T26 36 W G13	1277	1194	800	130	110	3.0	ECG		4039806606563	5LS42272C
2x T26 58 W G13	1577	1494	1100	130	110	3.4	ECG		4039806606570	5LS42272E
2x T26 58 W G13	1577	1494	1100	130	110	3.6	DALI		4039806537485	5LS422D2E
2x T26 58 W G13	1577	1494	1100	130	110	3.6	1...10V		4039806610331	5LS42262E

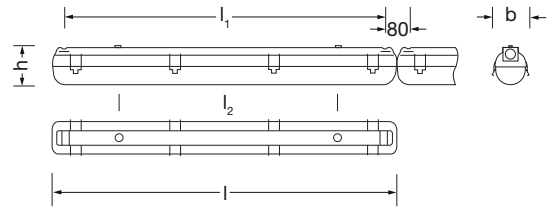
— please order direct symmetric beam mirror separately if needed

**Accessories (for details see page 9.62 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, asymmetric beam, for 1x T26 36W	0.1	4039806171351	5LS44301CS
Mirror reflector, asymmetric beam, for 1x T26 58W	0.2	4039806171375	5LS44301ES
Mirror reflector, asymmetric beam, for 1x T26 36W	0.1	4039806171399	5LS44302CS
Mirror reflector, asymmetric beam, for 1x T26 58W	0.2	4039806171412	5LS44302ES
Mirror reflector, direct symmetric beam, for 1x T26 36W	0.1	4039806171573	5LS44201CS
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806171597	5LS44201ES
Mirror reflector, direct symmetric beam, for 2x T26 36W	0.1	4039806171610	5LS44202CS
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806171634	5LS44202ES

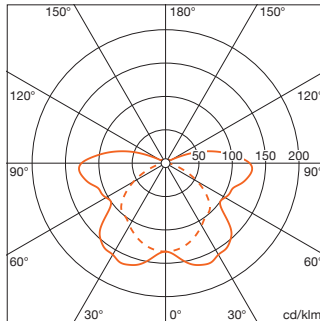


T26  
G13



4039806610553  
5LS41771E

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  72.5%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	7907	2137
L <sub>70</sub>	5613	3120
L <sub>65</sub>	5114	3838

UGR 25.8 18.3

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.6	6.5
30 m <sup>2</sup>	1.6	1.8	3.2	3.7	8.0	9.1
40 m <sup>2</sup>	2.0	2.3	4.1	4.6	10	11
50 m <sup>2</sup>	2.4	2.7	4.8	5.4	12	14
75 m <sup>2</sup>	3.4	3.8	6.8	7.5	17	19
100 m <sup>2</sup>	4.4	4.8	8.8	9.6	22	24
500 m <sup>2</sup>	19	20	38	39	95	99

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

**Monsun® with prismatic cover of PMMA or PC | for T26 bulbs insulation class II**

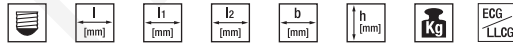
Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- direct extremely wide distribution with ceiling illumination; direct symmetric or asymmetric distribution via accessories
- with injection-molded prismatic cover
- with ECG
- housing of glass-fiber-reinforced polyester, gray

- cover of PMMA or PC
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: II
- impact resistance: IK07 (PC cover)
- protection symbol: D
- versions with ECG incl. V2A chain suspension



**Light source**



**Order no. OSRAM**

**Order no. Sitemco**

**PMMA enclosure**

	Light source	l [mm]	l <sub>1</sub> [mm]	l <sub>2</sub> [mm]	b [mm]	h [mm]	h <sub>1</sub> [mm]	h <sub>2</sub> [mm]	IC	ECG	LLCG	Order no. OSRAM	Order no. Sitemco
1x T26 18 W	G13	667	584	330	84	102	1.4	ECG	4039806610539	5LS41771A			
1x T26 36 W	G13	1277	1194	800	84	102	2.3	ECG	4039806610546	5LS41771C			
1x T26 58 W	G13	1577	1494	1100	84	102	2.6	ECG	4039806610553	5LS41771E			
2x T26 36 W	G13	1277	1194	800	130	110	3.0	ECG	4039806610577	5LS41772C			
2x T26 58 W	G13	1577	1494	1100	130	110	3.6	ECG	4039806610584	5LS41772E			

**PMMA enclosure, with through-wiring 4x 1.5mm<sup>2</sup>**

1x T26 58 W	G13	1577	1494	1100	84	102	2.8	ECG	4039806610430	5LS41771EA0004
2x T26 58 W	G13	1577	1494	1100	130	110	3.9	ECG	4039806610461	5LS41772EA0004

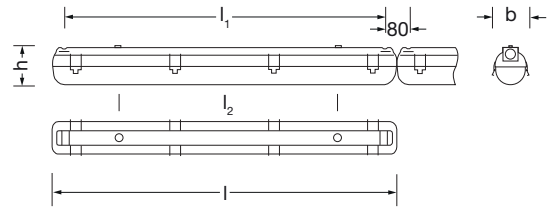
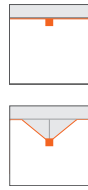
**Cover, PC, UV-stabilized, IK07**

1x T26 36 W	G13	1277	1194	800	84	102	2.3	ECG	4039806610782	5LS42771C
1x T26 58 W	G13	1577	1494	1100	84	102	2.6	ECG	4039806610799	5LS42771E
2x T26 36 W	G13	1277	1194	800	130	110	3.0	DALI	4039806597595	5LS427D2C
2x T26 58 W	G13	1577	1494	1100	130	110	3.6	ECG	4039806610829	5LS42772E
2x T26 58 W	G13	1577	1494	1100	130	110	3.6	DALI	4039806597618	5LS427D2E

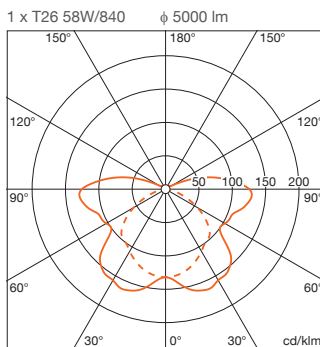
**Cover, PC, UV-stabilized, with through-wiring 5x 1.5mm<sup>2</sup>, IK07**

1x T26 58 W	G13	1577	1494	1100	84	102	2.8	ECG	4039806610676	5LS42771EA0004
2x T26 58 W	G13	1577	1494	1100	130	110	3.8	ECG	4039806610706	5LS42772EA0004

- please order direct symmetric or asymmetric beam mirror separately if needed
- accessories (additional mirror and other accessories) see page 9.62 ff.



4039806615107  
5LS41271EA05



Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	7874	2128
L <sub>70</sub>	5590	3107
L <sub>65</sub>	5093	3822

UGR 25.7 18.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**Monsun® with prismatic cover of PMMA or PC | for T26 bulbs with single battery | insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- direct extremely wide distribution with ceiling illumination; direct symmetric or asymmetric distribution via accessories
- with injection-molded prismatic cover
- with ECG, additionally with single battery
- housing of glass-fiber-reinforced polyester, gray

- cover of PMMA or PC
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- impact resistance: IK07 (PC cover)
- versions with ECG incl. V2A chain suspension

**Electrics**

- Luminaire for operation on "normal mains" or via the integral self-contained battery supply
- luminaire wired ready-for-connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase)
  - switched phase and unswitched phase must have same phase angle
  - single battery operation for 3-hour or 1-hour emergency operation with reduced luminous flux
  - with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



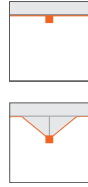
**No. of luminaires in room**

Em(lx)	Reflection factors 70/50/20				500	
	100	200				
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.6	6.5
30 m <sup>2</sup>	1.6	1.8	3.2	3.7	8.0	9.2
40 m <sup>2</sup>	2.0	2.3	4.1	4.6	10	11
50 m <sup>2</sup>	2.4	2.7	4.9	5.4	12	14
75 m <sup>2</sup>	3.4	3.8	6.9	7.5	17	19
100 m <sup>2</sup>	4.4	4.8	8.8	9.6	22	24
500 m <sup>2</sup>	19	20	38	40	95	99

Maintenance factor 0.8 Rh = Lh + 0.5 m

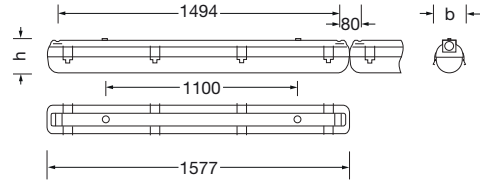
Light source	Operating time	l	h	l <sub>2</sub>	b	h	kg	ECG	LLCG	Order no. OSRAM	Order no. Siteco
Cover, PMMA with single battery											
1x T26 58 W	G13	1h	1577	1494	1100	84	102	3.2	ECG	4039806615091	5LS41271EA04
1x T26 58 W	G13	3h	1577	1494	1100	84	102	3.8	ECG	4039806615107	5LS41271EA05
2x T26 58 W	G13	1h	1577	1494	1100	130	110	4.1	ECG	4039806615121	5LS41272EA04
2x T26 58 W	G13	3h	1577	1494	1100	130	110	4.7	ECG	4039806615138	5LS41272EA05
Cover, PC, UV-stabilized, with single battery, IK07											
1x T26 36 W	G13	1h	1277	1194	800	84	102	2.8	ECG	4039806845474	5LS42271CA04
1x T26 36 W	G13	3h	1277	1194	800	84	102	2.8	ECG	4039806560001	5LS42271CA05
1x T26 58 W	G13	1h	1577	1494	1100	84	102	3.2	ECG	4039806562210	5LS42271EA04
1x T26 58 W	G13	3h	1577	1494	1100	84	102	3.8	ECG	4039806545633	5LS42271EA05
2x T26 36 W	G13	1h	1277	1194	800	130	110	3.3	ECG	4039806524423	5LS42272CA04
2x T26 36 W	G13	3h	1277	1194	800	130	110	3.4	ECG	4039806560025	5LS42272CA05
2x T26 58 W	G13	1h	1577	1494	1100	130	110	4.0	ECG	4039806562234	5LS42272EA04
2x T26 58 W	G13	3h	1577	1494	1100	130	110	4.8	ECG	4039806564856	5LS42272EA05

- please order direct symmetric or asymmetric beam mirror separately if needed
- accessories (additional mirror and other accessories) see page 9.62 ff.



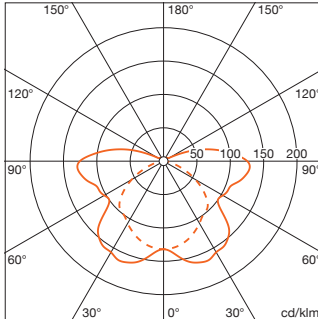
T26  
G13

IT  
E14



4039806615084  
5LS41271EA01

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  72.2%  $\phi_{\downarrow}$  82%  $\phi_{\uparrow}$  18%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	7874	2128
L <sub>70</sub>	5590	3107
L <sub>65</sub>	5093	3822

UGR 25.7 18.3

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)	Rh(m)	Lh(m)	Rh(m)	Lh(m)	Rh(m)
20 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.6	6.5
30 m <sup>2</sup>	1.6	1.8	3.2	3.7	8.0	9.2
40 m <sup>2</sup>	2.0	2.3	4.1	4.6	10	11
50 m <sup>2</sup>	2.4	2.7	4.9	5.4	12	14
75 m <sup>2</sup>	3.4	3.8	6.9	7.5	17	19
100 m <sup>2</sup>	4.4	4.8	8.8	9.6	22	24
500 m <sup>2</sup>	19	20	38	40	95	99

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Monsun® with prismatic cover of PMMA | for T26 bulbs with additional version E14 | insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail  
 — direct extremely wide distribution with ceiling illumination  
 — with injection-molded prismatic cover  
 — with ECG; with additional bulb E14  
 — housing of glass-fiber-reinforced polyester, gray

- cover of PMMA
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- incl. high-voltage halogen bulb IT 40W/matt
- incl. V2A chain suspension

**Electrics**

Luminaire for operation on "normal mains" and with emergency light socket for operation with a second, external power supply  
 • luminaire wired ready-for-connection, with 6-pole connection terminal (3-pole for normal mains + 3-pole for additional bulb)

Detailed information: see data sheet



Light source	Additional bulb	b (mm)	h (mm)	kg	ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T26 58 W	G13 1x IT 40 W	E14 84	102	2.8	ECG	4039806615084	5LS41271EA01
2x T26 58 W	G13 1x IT 40 W	E14 130	110	3.8	ECG	4039806615114	5LS41272EA01

— housing, electrical and mounting accessories see page 9.62 ff.

**Monsun® optical accessories**



**Additional mirror reflector direct symmetric or asymmetric distribution**

highly specular aluminum, incl. fixation screws

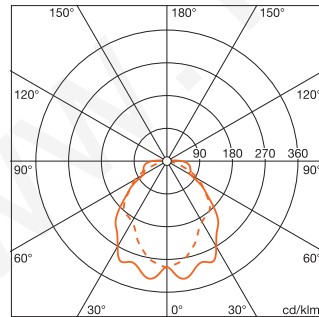
Designation	for lamps	Order no. OSRAM	Order no. Siteco
For luminaires for T16 bulbs			
Symmetric narrow distribution			
Reflector	1x T16 14/24W	4039806780997	5LS44201MS
Reflector	1x T16 28/54W	4039806781000	5LS44201PS
Reflector	1x T16 35/49/80W	4039806781017	5LS44201RS

Symmetric wide distribution			
Reflector	2x T16 14/24W	4039806781024	5LS44202MS
Reflector	2x T16 28W	4039806781031	5LS44202PS
Reflector	2x T16 35/49/54W	4039806781048	5LS44202RS

For luminaires for T26 bulbs			
Asymmetric distribution			
Reflector	1x T26 36W	4039806171351	5LS44301CS
Reflector	1x T26 58W	4039806171375	5LS44301ES
Reflector	2x T26 36W	4039806171399	5LS44302CS
Reflector	2x T26 58W	4039806171412	5LS44302ES

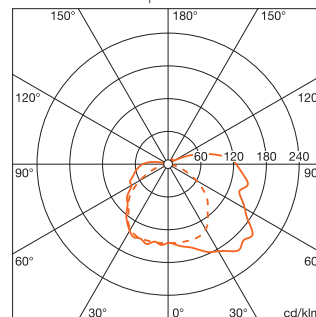
Symmetric wide distribution			
Reflector	1x T26 36W	4039806171573	5LS44201CS
Reflector	1x T26 58W	4039806171597	5LS44201ES
Reflector	2x T26 36W	4039806171610	5LS44202CS
Reflector	2x T26 58W	4039806171634	5LS44202ES

4039806611925 + 4039806781000  
5LS41271P + 5LS44201PS  
1 x T16 28W/840  $\phi$  2600 lm



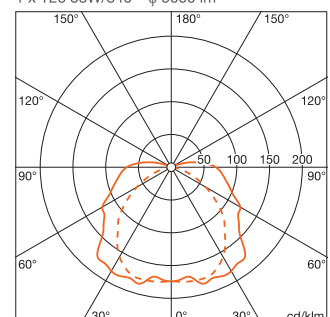
$\eta_{LB}$  85,1%  $\phi_{\downarrow}$  96%  $\phi_{\uparrow}$  4%

4039806606273 + 4039806171375  
5LS41271E + 5LS44301ES  
1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  70,1%  $\phi_{\downarrow}$  87%  $\phi_{\uparrow}$  13%

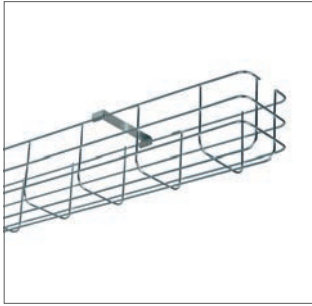
4039806606273 + 4039806171597  
5LS41271E + 5LS44201ES  
1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  69,4%  $\phi_{\downarrow}$  90%  $\phi_{\uparrow}$  10%



### Monsun® housing accessories



#### Wire protection basket\*

galvanized steel wire |  $\varnothing = 4\text{mm}$  | incl. mounting bracket

Designation	for lamps	Order no. OSRAM	Order no. Siteco
Wire protection basket	1x T16 14/18/24   TC-LEL 40W   T26 18W	4039806251978	5LS31301AD
Wire protection basket	1x T16 21/28/39/54W   T26 36W	4039806251985	5LS31301CD
Wire protection basket	1x T16 35/49/80W   T26 58W	4039806251992	5LS31301ED
Wire protection basket	2x T16 14/18/24W   T26 18W	4039806252005	5LS31302AD
Wire protection basket	2x T16 21/28/39/54W   T26 36W	4039806252012	5LS31302CD
Wire protection basket	2x T16 35/49   T26 58W	4039806252029	5LS31302ED

\* only for ceiling installation



#### Theft prevention

prevents opening of the luminaire without a tool | steel band of V2A; with safety screw

Designation	PU	Order no. OSRAM	Order no. Siteco
Theft prevention			
For housing width B = 84mm	set of 2	4039806168542	5LS44101
For housing width B = 130mm	set of 2	4039806168566	5LS44102

— 2 pieces required per luminaire



## Monsun® electrical accessories



### Through-wiring set for interrupted for continuous rows

for through-wiring within a luminaire | consisting of heat-resistant single-core cables, terminals and mounting material | wiring from one luminaire to the next with normal cables (such as NYM)

Designation		Order no. OSRAM	Order no. Siteco
Through-wiring	3x 1.5mm <sup>2</sup>	4039806171436	5LS44301EK
Through-wiring	5x 1.5mm <sup>2</sup>	4039806171450	5LS44311EK
Through-wiring	5x 2.5mm <sup>2</sup>	4039806171481	5LS44321EK

- 1 set required per luminaire
- through-wiring with PE, for insulation class I
- suitable for T16 35W/49W/80W and T26 58W (for T16 28W/54W and T26 36W: make a loop)



### Through-wiring set for seamless continuous rows

for through-wiring from the terminal of one luminaire to the terminal of the next (luminaires mounted flush against each other) | consisting of a PC conduit to the connection with neighboring luminaires, heat-resistant conductor line, terminals and mounting material

Designation		Order no. OSRAM	Order no. Siteco
Through-wiring	5x 1.5mm <sup>2</sup>	4039806171511	5LS44211EK

- 1 set required per luminaire
- through-wiring with PE, for insulation class I
- suitable for 35W/49W/58W/80W (for 28W/36W/54W: make a loop)



### 5-pole extra terminal

for last luminaire in a seamless continuous row (luminaires mounted flush against each other)

Designation		Order no. OSRAM	Order no. Siteco
5x max. 2.5mm <sup>2</sup>		4039806367907	5LS44200EK

- 1 unit required per continuous row (in last luminaire)



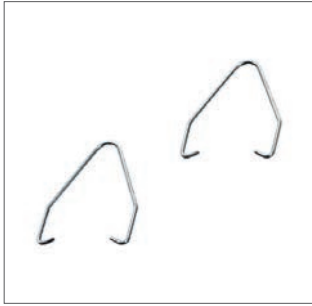
### Twin-core cable infeed

for 2 insulated cables Ø 8.4...12mm, (such as NYM 5x 1.5mm<sup>2</sup>)

Designation		Order no. OSRAM	Order no. Siteco
Twin-core cable infeed		4039806166180	5LS32200XV



### Monsun® mounting accessories



#### V2A suspension bracket

for mounting near ceiling or hanging mount such as for chain | to hook into the mounting element Monsun®

Designation	PU	Order no. OSRAM	Order no. Siteco
Hanging bracket	set of 50	4039806171535	5LS44001

— 2 pieces required per luminaire

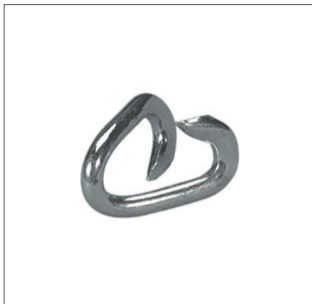


#### Chain

inner link size 5.6 x 31mm | load capacity: 40kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Chain	galvanized	4039806184290	5LY9001
Chain	V2A	4039806184313	5LY9002

— chain: per meter



#### Quick-release link

inner link size 5 x 16mm | load capacity: 20kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Quick-release link	V2A	4039806184368	5LY9004



#### Wall mounting set

seal set for luminaire wall mounting | consisting of 2x sealing rings, washer and cover for screws (delivered without screws) | 2x customer-installed bores  $\varnothing = 5\text{mm}$  in the luminaire required | luminaire protection rating: IP54 (for wall mount)

Designation	PU	Order no. OSRAM	Order no. Siteco
Wall mounting set	set of 2	4039806606914	5LS44003

— 2 pieces required per luminaire



#### Mounting set

for luminary mounting to DUS® mounting rail | V2A; tool-less installation

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting set	set of 6	4039806171559	5LS44002

— 2 pieces required per luminaire  
 — a rail clip is required at the end of each rail



### Mounting element

for luminaire mounting to GRP mounting rail | consisting of threaded plate, V2A; screw fixation

Designation	Order no. OSRAM	Order no. Siteco
Mounting element	4039806171696	5LS91120EC

- 2 pieces required per luminaire
- screw plates are included in the scope of delivery of the plastic trunking rails (each 2 units, 4 units, 6 units for 1-, 2-, 3-length rails)

### Monsun® replacement parts



#### Lighting technology cover, prismatic

PMMA oder UV-stabilized PC

Designation	for lamps	Order no. OSRAM	Order no. Siteco
LT cover, PC	1x T16 14/24W   T26 18W	4039806440716	5LS44911AW
LT cover, PC	1x T16 28/54W   T26 36W	4039806440730	5LS44911CW
LT cover, PC	1x T16 35/49/80W   T26 58W	4039806440754	5LS44911EW
LT cover, PC	2x T16 14/24W   T26 18W	4039806440778	5LS44912AW
LT cover, PC	2x T16 28W   T26 36W	4039806440792	5LS44912CW
LT cover, PC	2x T16 35/49/54W   T26 58W	4039806440815	5LS44912EW
Optical cover, PMMA	1x T16 14/24W   TC-LEL 40W   T26 18W	4039806440594	5LS44901AW
Optical cover, PMMA	1x T16 28/54W   T26 36W	4039806440617	5LS44901CW
Optical cover, PMMA	1x T16 35/49/80W   T26 58W	4039806440631	5LS44901EW
Optical cover, PMMA	2x T16 14/24W   T26 18W	4039806440655	5LS44902AW
Optical cover, PMMA	2x T16 28W   T26 36W	4039806440679	5LS44902CW
Optical cover, PMMA	2x T16 35/49/54W   T26 58W	4039806440693	5LS44902EW

#### Fastener for photometric cover (not shown)

V2A

Designation	for lamps	Order no. OSRAM	Order no. Siteco
Fastener	set of 10	4039806568564	5LS44004

- for housing length l = 667mm: 6 units required  
l = 1277mm: 8 units required  
l = 1577mm: 10 units required

For DUS® mounting rails (without through-wiring) and accessories, see **page 9.87 ff.**

For GRP mounting rails (for single luminaires) and accessories, see **page 9.87 ff.**

# NEPTUNE® POLY



The damp-proof diffuser luminaires in the NEPTUNE® POLY series were specifically developed for the special environmental conditions in industrial locations. A robust housing of polycarbonate (PC), an impact-resistant cover of PC (IK08) as well as a special housing seal keep critical humidity levels and incursion of dust at bay. Robust diffuser catches and fixation elements of stainless steel give the luminaire high resistance and at the same time reduce maintenance and are easy-to-install. Well-developed lighting technology of internal reflector and prismatic cover creates an even, but very wide and low-glare light distribution on the use plane, and contributes to improved room atmosphere through the indirect ratio of illumination of the ceiling.

## Features

- one or two-bulb damp-proof diffuser luminaire, protected from dust and water streams (IP65)
- interior prismatic diffuser for high light quality
- suitable for use under difficult ambient conditions with moisture or dust in interior and semi-exterior applications (covered areas)
- for T16 halogen bulbs
- luminaires easily installed via clips as standard
- easy maintenance through tool-free relamping

## Lighting technology

With prismatic cover for homogeneous illumination, direct extremely wide light distribution with ceiling illumination

## Electrics

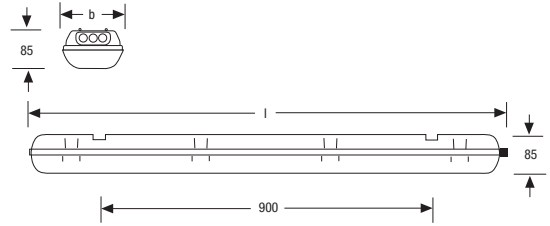
Pre-wired ready-for-connection luminaire; connection terminal 3x max. 2.5mm<sup>2</sup> | cable infeed for cables D = 8...12mm | ECG integrated into the luminaire

## Housing

Gray PC housing with polyurethane seal | cover of PC for increased requirements of impact resistance (IK08), mounting with stainless steel clips | interior reflector is also the device mount for all electrics and is held in place in the housing using snap technology | protection rating IP65, suitable for moist and dusty environments with normal corrosion

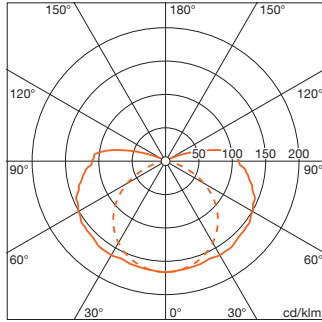


T16  
G5



4008321659903  
OLS12271P

1 x T16 28W  $\phi$  2600 lm



$\eta_{LB}$  82,3%

**NEPTUNE® POLY with prismatic cover of PC for T16 | insulation class I**

Damp-proof diffuser luminaire for ceiling surface mounting  
 — direct extremely wide distribution with ceiling illumination  
 — with prismatic cover  
 — with ECG  
 — plastic housing, gray

- cover of PC
- V2A catches and ceiling mounting
- protection rating: IP65
- insulation class: I
- impact resistance: IK08



**Light source**

						<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
1x T16 28W	G5	1210	90	1.7	ECG	4008321659903	OLS12271P
2x T16 28W	G5	1210	108	1.9	ECG	4008321659989	OLS12272P
1x T16 49W	G5	1509	90	1.8	ECG	4008321660008	OLS12271F
2x T16 49W	G5	1509	108	2.1	ECG	4008321660022	OLS12272F

— instructions pursuant to the Energy Consumption Labeling Ordinance (EU) 874/2012 on page 15.25

# LUMILUX BRIK<sup>®</sup> EL



Wall-mounted luminaires are used almost everywhere – on facades and in stairwells and entryways to courtyards and buildings as well as under canopies.

They offer a high level of security – through good visibility they protect from accidents at night, but also from possible assaults.

The slimline, water-resistant wall and ceiling light rails of LUMILUX BRIK<sup>®</sup> EL feature protection rating IP54 for the use under dusty and moist conditions in interior areas as well as semi-exterior areas. The damp-proof luminaires are equipped with the efficient LUMILUX<sup>®</sup> T5 840 halogen bulbs. Together with the longitudinal prisms integrated into the cover, there is an even, extremely wide light distribution with very low glare.

## Features

- slimline, water-spray-resistant wall and ceiling batten
- suitable for use under difficult ambient conditions with moisture or dust in interior and semi-exterior applications (covered areas)
- with prismatic lamp covers
- additional wiring possible
- equipped with LUMILUX<sup>®</sup> T5 840 halogen bulb

## Lighting technology

With prismatic cover, extremely wide distribution

## Electrics

Ready for connection with terminal, 3 x max. 1.5 mm<sup>2</sup> cowl cable infeed | additional wiring possible | ECG integrated into the luminaire

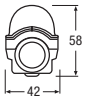
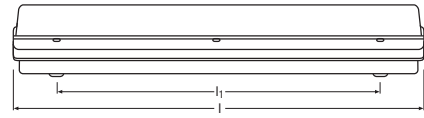
## Housing

PC housing, gray; cover of PC | with rust-proof screws



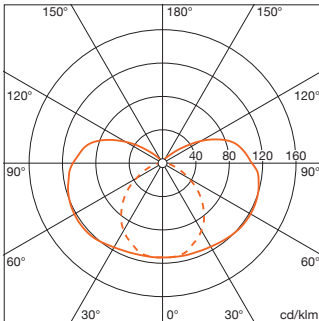


T16  
G5



4050300440880  
OLS5297108840

1 x T16 8W φ 430 lm



η<sub>LB</sub> 68,2%

**LUMILUX BRIK® EL with prismatic cover | with T16 bulbs  
insulation class II**

Luminaire for wall and ceiling surface mounting

- extremely wide distribution
- with prismatic cover
- with ECG
- plastic housing, gray

- cover of PC
- protection rating: IP54
- insulation class: II
- impact resistance: IK03
- including halogen bulb LUMILUX® T5 840



850 °C

Light source



K

R<sub>a</sub>

l  
[mm]

h  
[mm]

kg

ECG  
LLCG

Order no.  
OSRAM

Order no.  
Siteco

1x T16 8W	G5	4000	> 80	330	260	0.3	ECG	4050300440880	OLS5297108840
1x T16 13W	G5	4000	> 80	560	400	0.4	ECG	4050300440903	OLS5297113840

- instructions pursuant to the Energy Consumption Labeling Ordinance (EU) 874/2012 on page 15.25





## Panel ceiling luminaire



With their shape and dimensions, the wide distribution panel luminaires are designed for installation in panel ceilings, in which they are fully optically integrated. A robust steel plate housing and an impact-resistant cover of PMMA qualify this light for protection rating IP54.

### Features

- for suspended ceiling systems and panel ceilings (module 100)
- luminaire design flush with panels

### Lighting technology

- opal cover, for diffuse light distribution

### Electrics

Luminaires pre-wired and ready-for-connection | with 3-pole terminal, max. 2.5mm<sup>2</sup> | through-wiring with insulated cable (such as NYM) possible above the luminaires, for version with LLCG, see [www.siteco.com](http://www.siteco.com)

### Housing

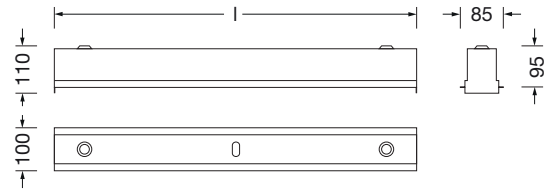
Housing of sheet steel, pure white (similar to RAL 9010), with matt black edges on the long sides as shadow gap | PMMA cover | the luminaire is especially designed for integration into module 100 panel ceilings





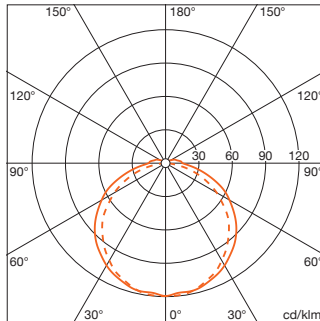
T16  
G5

T26  
G13



4039806175076  
5LS35071C

1 x T26 36W/840  $\phi$  3200 lm



$\eta_{LB}$  40.2%  $\phi_{\downarrow}$  95%  $\phi_{\uparrow}$  5%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5157	2214
L <sub>70</sub>	4396	2994
L <sub>65</sub>	4317	3177

UGR 23.3 20.8

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

### Recessed luminaire for module 100 panel ceilings with opal cover | insulation class I

- Panel luminaire as single luminaire for installation in module 100 system ceilings
- with opal cover, direct diffuse distribution
- with ECG
- sheet steel housing, pure white (similar to RAL 9010), matt black coated in visible area; cover of PMMA
- protection rating: IP54

- insulation class: I
- all versions include mounting rail for luminaire installation (exception: luminaires for T16 54W)



#### Light source

Light source				Order no. OSRAM	Order no. Siteco
1x T16 54 W	G5	1247	3.6	4039806192332	5LS34071J
1x T26 18 W	G13	640	2.5	4039806184610	5LS35071A
1x T26 36 W	G13	1250	4.8	4039806175076	5LS35071C
1x T26 58 W	G13	1550	5.9	4039806175090	5LS35071E

for type for 1x T16 54W: Please order mounting rail separately

#### Required accessories (only for type 1x T16 54W)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mounting rail, longitudinal side, sheet steel, galvanized	set of 2	0.7	4039806188328	5LS34000CD

#### No. of luminaires in room

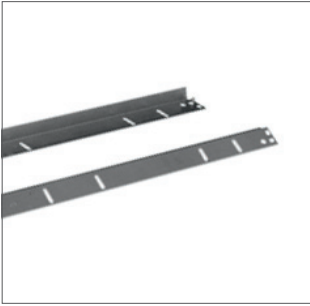
Reflection factors 70/50/20

Em(lx)	100		200		500		
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	2.6	3.0	5.2	6.1	13	15	
30 m <sup>2</sup>	3.8	4.4	7.7	8.7	19	22	
40 m <sup>2</sup>	4.9	5.5	9.8	11	24	27	
50 m <sup>2</sup>	5.8	6.5	12	13	29	33	
75 m <sup>2</sup>	8.4	9.2	17	18	42	46	
100 m <sup>2</sup>	11	12	22	23	54	59	
500 m <sup>2</sup>	49	51	98	101	244	253	

Maintenance factor 0.8

Rh = Lh

### Panel ceiling luminaire mounting accessories



#### Mounting rails

for luminaire 5LS34071J | for mounting on the long side of the luminaire | clamp area 20...35mm (trunking rails for luminaire 5LS350... already included in the scope of delivery of the luminaire)

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting rails	set of 2	4039806188328	5LS34000CD

— 2 pieces required per luminaire



#### Remover

rubber suction cup to remove smooth covers (such as for installation flush with the ceiling)

Designation	Order no. OSRAM	Order no. Siteco
Remover	4039806175854	5LJ48400XJ





# AQUALINE® T5



The open distribution AQUALINE® T5 damp-proof luminaires are designed for special environmental conditions in industrial use.

With their robust, high-quality housing in high-quality material as well as a special seal system, it can be used even under the most diverse conditions. The one or two-bulb design is suitable for use in critical humidity conditions and dusty environments with normal corrosion.

An impact-resistant luminaire protection conduit of polycarbonate (IK08) is available as an optional accessory. The single-bulb luminaire can also be equipped with a protection conduit reflector, which creates an asymmetric light distribution.

## Features

- one or two-bulb damp-proof luminaires with high-quality material and protection rating
- suitable for use under difficult ambient conditions with moisture or dust in interior and semi-exterior applications (covered areas)
- for T16 halogen bulbs
- housing impact-resistant according to VDE 0711 (IK02)
- high light output ratio
- for single-bulb version, variable lighting technology with the optional protective conduit reflectors
- for one and two bulb version PC-conduit impact resistance IK08
- tool-free bulb change for easy mounting

## Lighting technology

Open distribution damp-proof luminaires | angle adjustment through protection conduit reflector, asymmetric distribution through manual adjustment

## Electrics

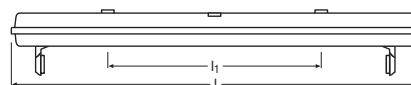
Pre-wired ready-for-connection luminaire, with terminal 2x max. 2.5 mm<sup>2</sup> | cowl cable infeed | ECG integrated into the luminaire

## Housing

Two-part housing of glass-fiber-reinforced polyester, resistant to normal corrosion, largely resistant to many aggressive conditions | lower part of housing secured by arresting cable | connection between upper and lower sections by twist quick closures | optional PC bulb protection conduit | optional PMMA protection conduit reflector for single-lamp version | protection rating IP65, suitable for moist and dusty environments under normal corrosion

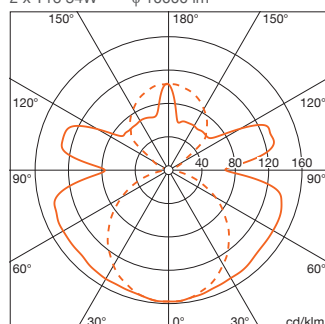


T16  
G5



4008321173799  
OLS60972J

2 x T16 54W  $\phi$  10000 lm



$\eta_{LB}$  104,7%

**AQUALINE® T5 open distribution | for T16 bulbs  
insulation class II**

- Damp-proof luminaire for ceiling installation
- open distribution
- asymmetric distribution through accessories
- with ECG

- housing of glass-fiber-reinforced polyester, gray
- with ring holders
- protection rating: IP65
- insulation class: II
- impact resistance: IK02 (IK08 with protection conduit)



Light source		$T_a$	$l$ [mm]	$h$ [mm]	$b$ [mm]	$K_g$	ECG LLCG	Order no. OSRAM	Order no. Siteco
1x T16 24W	G5	-10...+40°C	661	320	65	0.8	ECG	4008321173744	OLS60971Y
1x T16 54W	G5	-10...+40°C	1271	900	65	1.2	ECG	4008321173751	OLS60971J
1x T16 80W	G5	-10...+40°C	1571	900	65	1.4	ECG	4008321173768	OLS60971X
2x T16 54W	G5	-10...+40°C	1271	900	122	1.3	ECG	4008321173799	OLS60972J
2x T16 80W	G5	-10...+40°C	1571	900	122	1.7	ECG	4008321173829	OLS60973X

- instructions pursuant to the Energy Consumption Labeling Ordinance (EU) 874/2012 on page 15.25

**Accessories (for details see page 9.77)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
PC protective conduit + rings 24W	set of 1	0.1	4008321185372	OLS61511YG
PC protective conduit + rings 54W	set of 1	0.3	4008321185402	OLS61511JG
PC protective conduit + rings 80W	set of 1	0.3	4008321185419	OLS61511XG
PMMA protective conduit + rings 54W (Note: only for single-bulb version)	set of 1	0.8	4008321193926	OLS61501JG
PMMA protective conduit + rings 80W (Note: only for single-bulb version)	set of 1	1.0	4008321193971	OLS61501XG

### AQUALINE® T5 housing accessories



#### PC protective conduit

clear | incl. bulb rings for AQUALINE® T5  
 impact resistance: IK08 (luminaire with PC protective conduit)

Designation	for lamps	Order no. OSRAM	Order no. Siteco
Protective conduit	1/2x T16 24W	4008321185372	OLS61511YG
Protective conduit	1/2x T16 54W	4008321185402	OLS61511JG
Protective conduit	1/2x T16 80W	4008321185419	OLS61511XG



#### PMMA protective conduit

clear | incl. bulb rings for AQUALINE® T5  
 impact resistance: IK08 (luminaire with PMMA protective conduit)

Designation	for lamps	Order no. OSRAM	Order no. Siteco
Protective conduit	1x T16 54W	4008321193926	OLS61501JG
Protective conduit	1x T16 80W	4008321193971	OLS61501XG

— PMMA protective conduit not suitable for two-bulb luminaires







## FR100 for low ambient temperatures



The damp-proof diffuser luminaire of the FR100 family were specially designed for special ambient conditions in industry, and in selected versions for rooms with particularly low ambient temperatures. A robust housing of glass-fiber-reinforced polyester, an impact-resistant cover of PMMA and a special seal system keep temperature deviations, critical humidity conditions and difficult environmental conditions at bay. The precise finish and the high-quality materials qualify the luminaire for protection rating IP65. The extremely broad distribution luminaires are optimized for use of T26 light tubes. With comprehensive and easy-to-install accessories, they are perfect for ceiling installation, for suspended installation or for mounting on trunking rails.

### Features

- wide spectrum of damp-proof luminaires for low temperatures up to  $-40^{\circ}\text{C}$ , e.g. for use in freezer stores and cold stores
- for good, homogeneous illumination of working plane
- robust, trapezoid, glass-fiber-reinforced plastic housing
- simple mounting

### Lighting technology

- pearl cover for extremely wide light distribution with ceiling illumination
- direct distribution via supplementary reflector (accessory)

### Electrics

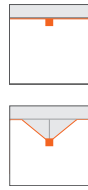
Pre-wired ready-for-connection luminaire | with 3-pole terminal max.  $2.5\text{mm}^2$  | cable infeed for cables or conduits  $D = 8.5 \dots 13.5\text{mm}$  | for through-wiring (with special wiring sets) suitable within the luminaire

### Housing

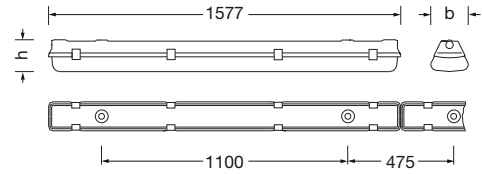
Housing made of glass-fiber-reinforced polyester resin, largely resistant to many aggressive conditions | cover of PMMA | catches of V2A | interior reflector is also the device support for all electrics and is held in the housing using snap technology | housing and cover are completely recyclable

For electrical and suspension accessories of this product family, see **page 9.35**



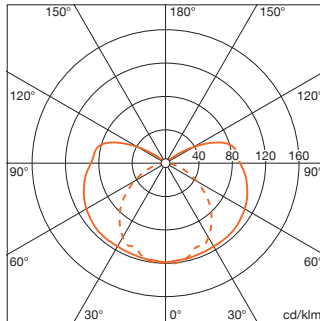


T26  
G13



4039806617361  
2LS32971ET1

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  64.3%  $\phi_{\downarrow}$  80%  $\phi_{\uparrow}$  20%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3777	1313
L <sub>70</sub>	3416	1899
L <sub>65</sub>	3297	2170

UGR 23.3 17.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500		
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.3	1.5	2.6	3.0	6.4	7.6	
30 m <sup>2</sup>	1.9	2.2	3.8	4.3	9.5	11	
40 m <sup>2</sup>	2.4	2.7	4.7	5.3	12	13	
50 m <sup>2</sup>	2.8	3.1	5.6	6.3	14	16	
75 m <sup>2</sup>	4.0	4.4	8.0	8.7	20	22	
100 m <sup>2</sup>	5.0	5.5	10	11	25	27	
500 m <sup>2</sup>	21	22	43	45	107	111	

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR100 for cold stores and deep freezers with pearled PMMA cover**

Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- extremely wide distribution; with pearl cover, direct distribution via accessory
- with ECG or LLCG
- housing of glass-fiber-reinforced polyester, gray; cover of PMMA; V2A catches
- protection rating: IP65
- insulation class: I
- temperature areas (according to specification):

- $T_a = -40 \dots -10^\circ\text{C}$  (for freezer stores)
- $T_a = -30 \dots +25^\circ\text{C}$  (for freezer stores and cold stores)
- $T_a = -10 \dots +25^\circ\text{C}$  (for cold stores)
- luminaire for cold stores with heat accumulation tubes; the specified maximum ambient temperature must not be exceeded
- luminaire for temperatures up to  $-30^\circ\text{C}$  with special ECG



Light source		$T_a$	$l$ [mm]	$h$ [mm]	$b$ [mm]	$h$ [mm]		ECG/LLCG	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	$-30 \dots +25^\circ\text{C}$	1277	800	105	116	3.3	ECG	4039806617354	2LS32971CT1
1x T26 58 W	G13	$-30 \dots +25^\circ\text{C}$	1577	1100	105	116	3.8	ECG	4039806617361	2LS32971ET1
2x T26 36 W	G13	$-30 \dots +25^\circ\text{C}$	1277	800	136	132	4.1	ECG	4039806617378	2LS32972CT1
2x T26 58 W	G13	$-30 \dots +25^\circ\text{C}$	1577	1100	136	132	5.0	ECG	4039806617385	2LS32972ET1
1x T26 58 W	G13	$-40 \dots -10^\circ\text{C}$	1577	1100	105	116	4.2	LLCG	4039806608383	2LS32911ET1
2x T26 58 W	G13	$-10 \dots +25^\circ\text{C}$	1577	1100	136	132	5.4	LLCG	4039806609274	2LS32912ET0
2x T26 58 W	G13	$-40 \dots -10^\circ\text{C}$	1577	1100	136	132	5.7	LLCG	4039806608390	2LS32912ET1

- please order specular reflector for direct distribution separately (for single-lamp luminaires for temperatures up to  $-40^\circ\text{C}$  and  $-30^\circ\text{C}$ , a special reflector is required)

**Accessories (for details see page 9.47)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806259714	5LS32201EST1
Mirror reflector, direct symmetric beam, for 2x T26 36W	0.1	4039806166241	5LS32202CS
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES

## FR100 for high ambient temperatures



The damp-proof diffuser luminaires of the FR100 family were specially designed for special ambient conditions in industry, and in selected versions for rooms with particularly high ambient temperatures. A robust housing of glass-fiber-reinforced polyester, a pearl diffuser of PMMA or PC with high-quality prismatic technology and a special seal system keep temperature deviations, critical humidity conditions and difficult environmental conditions at bay. The precise finish and the high-quality materials qualify the luminaire for protection rating IP65. The extremely broad distribution luminaires are optimized for use of T26 light tubes. With comprehensive and easy-to-install accessories, they are perfect for ceiling installation, for suspended installation or for mounting on trunking rails.

### Features

- suitable for use with ambient temperatures up to +70°C
- for good, homogeneous illumination of working plane
- robust, trapezoid, glass-fiber-reinforced plastic housing
- simple mounting

### Lighting technology

- pearl cover for extremely wide light distribution with ceiling illumination
- direct distribution via supplementary reflector (accessory)

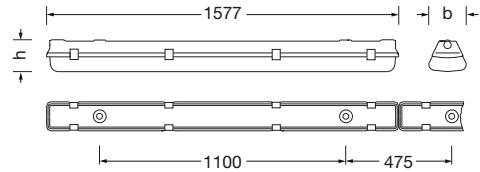
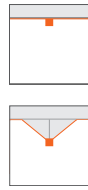
### Electrics

Pre-wired ready-for-connection luminaire | with 3-pole terminal max. 2.5mm<sup>2</sup> | cable infeed for cables or conduits D = 8.5...13.5mm | for through-wiring (with special wiring sets) suitable within the luminaire

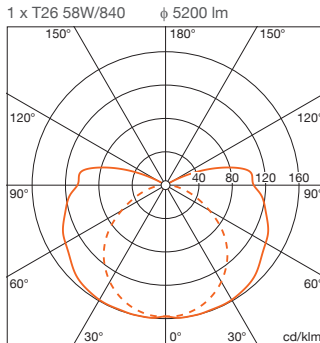
### Housing

Housing made of glass-fiber-reinforced polyester resin, largely resistant to many aggressive conditions | cover of PMMA or UV-stabilized PC for increased requirements of impact resistance | interior reflector is also the device support for all electrics and is held in the housing using snap technology | housing and cover are completely recyclable

For electrical and suspension accessories of this product family, see **page 9.35**



4039806608826  
2LS32911ET7



$\eta_{LB}$  78.9%  $\phi_{\downarrow}$  85%  $\phi_{\uparrow}$  15%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	5600	2323
L <sub>70</sub>	4948	2825
L <sub>65</sub>	4761	3115

UGR 24.8 19.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100				200				500			
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0	
20 m <sup>2</sup>	1.0	1.1	2.0	2.3	4.9	5.7						
30 m <sup>2</sup>	1.4	1.6	2.8	3.3	7.1	8.1						
40 m <sup>2</sup>	1.8	2.0	3.6	4.0	8.9	10						
50 m <sup>2</sup>	2.1	2.4	4.3	4.8	11	12						
75 m <sup>2</sup>	3.0	3.3	6.0	6.6	15	17						
100 m <sup>2</sup>	3.8	4.2	7.7	8.3	19	21						
500 m <sup>2</sup>	16	17	33	34	82	85						

Maintenance factor 0.8 Rh = Lh + 0.5 m

**FR10 for ambient temperatures up to +70°C with pearled cover of PMMA or PC**

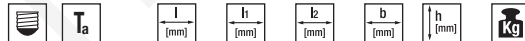
Damp-proof diffuser luminaire for ceiling surface mounting, suspended mounting or mounting to a rail

- extremely wide distribution; with pearl cover, direct distribution via accessory
- with ECG or LLCG
- polyester housing, glass-fiber-reinforced, gray; cover of PMMA or PC; variants for  $T_a \leq +70^\circ\text{C}$  with V2A catches
- protection rating: IP65

- insulation class: I
- impact resistance: IK07 (version with PC cover)
- protection symbol: D (versions with ECG)
- temperature ranges:  $T_a \leq +50^\circ\text{C}/\leq +55^\circ\text{C}/\leq +60^\circ\text{C}/\leq +70^\circ\text{C}$  the indicated max. environmental temperature may never be exceeded



**Light source**



Order no. OSRAM Order no. Siteco

Cover, PMMA with ECG, D

	Light source	$T_a$	$l_1$ [mm]	$l_2$ [mm]	$b$ [mm]	$h$ [mm]	Weight	Order no. OSRAM	Order no. Siteco	
1x T26 36 W	G13	$\leq +55^\circ\text{C}$	1277	800	475	136	132	2.7	4039806608796	2LS32971CT55
1x T26 58 W	G13	$\leq +55^\circ\text{C}$	1577	1100	475	136	132	3.7	4039806608802	2LS32971ET55

Cover, PMMA with LLCG

	Light source	$T_a$	$l_1$ [mm]	$l_2$ [mm]	$b$ [mm]	$h$ [mm]	Weight	Order no. OSRAM	Order no. Siteco	
1x T26 18 W	G13	$\leq +50^\circ\text{C}$	667	330	335	105	116	2.1	4039806626660	2LS32911AT5
1x T26 36 W	G13	$\leq +50^\circ\text{C}$	1277	800	475	105	116	3.0	4039806626677	2LS32911CT5
1x T26 58 W	G13	$\leq +50^\circ\text{C}$	1577	1100	475	105	116	3.8	4039806626684	2LS32911ET5
2x T26 58 W	G13	$\leq +50^\circ\text{C}$	1577	1100	475	136	132	5.2	4039806626707	2LS32912ET5

Cover, PC, UV-stabilized, with LLCG, IK07

	Light source	$T_a$	$l_1$ [mm]	$l_2$ [mm]	$b$ [mm]	$h$ [mm]	Weight	Order no. OSRAM	Order no. Siteco	
1x T26 36 W	G13	$\leq +60^\circ\text{C}$	1277	800	475	105	116	3.0	4039806608833	2LS32911CT6
1x T26 36 W	G13	$\leq +70^\circ\text{C}$	1277	800	475	136	132	3.7	4039806608819	2LS32911CT7
1x T26 58 W	G13	$\leq +60^\circ\text{C}$	1577	1100	475	105	116	3.9	4039806608840	2LS32911ET6
1x T26 58 W	G13	$\leq +70^\circ\text{C}$	1577	1100	475	136	132	4.8	4039806608826	2LS32911ET7
2x T26 36 W	G13	$\leq +60^\circ\text{C}$	1277	800	475	136	132	4.5	4039806608857	2LS32912CT6
2x T26 58 W	G13	$\leq +60^\circ\text{C}$	1577	1100	475	136	132	6.1	4039806608864	2LS32912ET6

— please order direct beam mirror separately if needed

**Accessories (for details see page 9.35)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Mirror reflector, direct symmetric beam, for 1x T26 36W	0.1	4039806166203	5LS32201CS
Mirror reflector, direct symmetric beam, for 1x T26 58W	0.2	4039806166227	5LS32201ES
Mirror reflector, direct symmetric beam, for 2x T26 36W	0.1	4039806166241	5LS32202CS
Mirror reflector, direct symmetric beam, for 2x T26 58W	0.2	4039806166265	5LS32202ES

## FR-Ex



The damp-proof diffuser luminaires in the FR-Ex family were specifically developed for the special ambient conditions in explosion-hazard zones. A robust housing of glass-fiber-reinforced plastic, an impact-resistant pearl diffuser of PC as well as a special seal system keep temperature deviations, critical humidity conditions and aggressive dust incursion at bay. The precise finish and the high-quality materials qualify the luminaire for insulation class 2 and protection rating IP65. The extremely broad distribution luminaires are optimized for use of T26 light tubes.

### Features

- suitable for use in ex-zones 2 or 22 according to ATEX directive 94/9/EG
- for good, homogeneous illumination of working plane

### Lighting technology

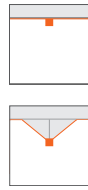
- prismatic cover for extremely wide light distribution with ceiling illumination

### Electrics

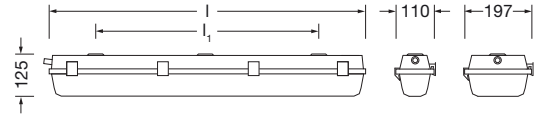
Pre-wired ready-for-connection luminaire | for insulation class I with 3-pole terminal, for insulation class II with 2-pole terminal, max. 2.5mm<sup>2</sup> | cable infeed with metric cable screw M25x 1.5 for cables D = 8.5...13mm

### Housing

Housing made of glass-fiber-reinforced polyester resin, largely resistant to many aggressive conditions | cover of PC for higher requirements for impact resistance | safety closure, cannot be opened without tools; catches of V2A | interior reflector is also the device support for all electrics and is held in the housing using snap technology | housing and cover are completely recyclable

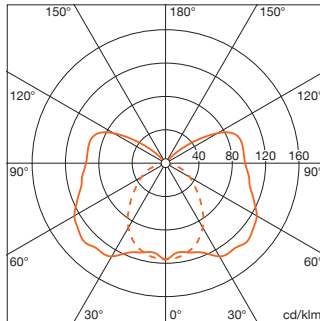


T26  
G13



4050737014814  
5LS22871EF5

1 x T26 58W/840  $\phi$  5000 lm



$\eta_{LB}$  72.4%  $\phi_{\downarrow}$  76%  $\phi_{\uparrow}$  24%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	3311	1212
L <sub>70</sub>	3130	1769
L <sub>65</sub>	3162	1868

UGR 22.7 17.3

X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500		
	Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m <sup>2</sup>	1.2	1.4	2.4	2.8	5.9	7.0	
30 m <sup>2</sup>	1.7	2.0	3.5	4.0	8.7	9.9	
40 m <sup>2</sup>	2.2	2.4	4.3	4.9	11	12	
50 m <sup>2</sup>	2.6	2.9	5.1	5.7	13	14	
75 m <sup>2</sup>	3.6	4.0	7.2	7.9	18	20	
100 m <sup>2</sup>	4.6	5.0	9.1	10.0	23	25	
500 m <sup>2</sup>	19	20	39	40	96	101	

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub> + 0.5 m

**FR-Ex for ex-zone 2 or 22 acc. to ATEX directive 94/9/EG insulation class II**

FR-Ex luminaire for ceiling surface mounting, suspended mounting or mounting to a mounting rail  
 — extremely wide distribution; with prismatic cover  
 — with ECG

- housing of glass-fiber-reinforced polyester, gray; cover of PC; V4A catches
- protection rating: IP65
- insulation class: II
- impact resistance: IK07
- temperature range: T<sub>a</sub> = -20...+40°C

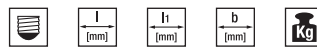
**Ex-protection:**

For explosion-hazard zone 2 or 22 in accordance with ATEX 94/9/EG directive

- label (Ex-Zone 2): II 3G Ex nA IIC T4 (Temperature class T4: max. surface temperature of luminaire ≤ 135°C)
- label (Ex-Zone 22): II 3D Ex tD A22 IP65 T80°C



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

Cover, PC, UV-stabilized

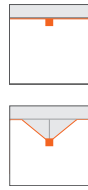
	U	L [mm]	L1 [mm]	b [mm]	Kg	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1272	800	110	2.9	4050737014807	5LS22871CF5
1x T26 58 W	G13	1572	1100	110	4.3	4050737014814	5LS22871EF5
2x T26 36 W	G13	1272	800	197	5.1	4050737014739	5LS22872CF5
2x T26 58 W	G13	1572	1100	197	6.3	4050737014722	5LS22872EF5

Cover, PC, UV-stabilized, with through-wiring 5x 2.5mm<sup>2</sup>

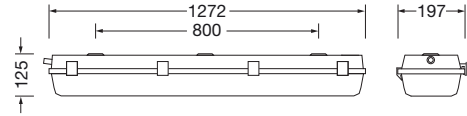
	U	L [mm]	L1 [mm]	b [mm]	Kg	Order no. OSRAM	Order no. Siteco
1x T26 36 W	G13	1272	800	110	3.2	4050737014746	5LS22971CF5007
1x T26 58 W	G13	1572	1100	110	3.6	4050737014753	5LS22971EF5007
2x T26 36 W	G13	1272	800	197	5.3	4050737014777	5LS22972CF5007
2x T26 58 W	G13	1572	1100	197	6.7	4050737014760	5LS22972EF5007

- cable infeed for luminaire without through-wiring: 1 screw joint M20x 1.5, 1 closure screw and 2 locknuts included
- cable infeed for luminaire with through-wiring: 2 couplings M20x 1.5, 2 locknuts and 1 red closure seal included



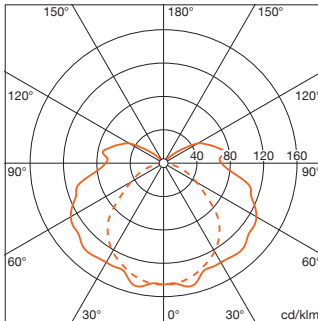


T26  
G13



4050737014784  
5LS22872CF5A04

2 x T26 36W/840  $\phi$  6400 lm



$\eta_{LB}$  71.2%  $\phi_{\downarrow}$  83%  $\phi_{\uparrow}$  17%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	4070	1328
L <sub>70</sub>	3961	2022
L <sub>65</sub>	3917	2182

UGR 23.6 18.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**FR-Ex for ex-zone 2 or 22 acc. to ATEX directive 94/9/EG with single battery | insulation class I**

FR-Ex luminaire for ceiling surface mounting, suspended mounting or mounting to a mounting rail  
 — extremely wide distribution; with prismatic cover  
 — with ECG, additionally with single battery

- housing of glass-fiber-reinforced polyester, gray; cover of PC; V4A catches
- protection rating: IP65
- insulation class: I
- impact resistance: IK07
- temperature range: T<sub>a</sub> = 0...+30°C

**Ex-protection:**

- For explosion-hazard zone 2 or 22 in accordance with ATEX 94/9/EG directive
- label (Ex-Zone 2): II 3G Ex nA IIC T4 (Temperature class T4: max. surface temperature of luminaire ≤ 135°C)
- label (Ex-Zone 22): II 3D Ex tD A22 IP65 T80°C

**Electrics**

- Luminaire for operation on "normal mains" or via the integral self-contained battery supply
- luminaire wired ready-for-connection, with 4-pole connection terminal (3-pole for normal mains with switched phase + 1-pole for additional unswitched phase)
- switched phase and unswitched phase must have same phase angle
- single battery operation for 3-hour or 1-hour emergency operation with reduced luminous flux
- with optical self-test functioning control of battery (LED for display of operational state)

Detailed information: see data sheet



No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
	Lh(m)		Lh(m)		Lh(m)	
20 m <sup>2</sup>	0.9	1.0	1.7	2.1	4.4	5.2
30 m <sup>2</sup>	1.3	1.4	2.5	2.9	6.3	7.2
40 m <sup>2</sup>	1.6	1.8	3.2	3.6	7.9	9.0
50 m <sup>2</sup>	1.9	2.1	3.8	4.2	9.4	11
75 m <sup>2</sup>	2.7	2.9	5.4	5.8	13	15
100 m <sup>2</sup>	3.4	3.7	6.8	7.4	17	19
500 m <sup>2</sup>	15	15	29	30	73	76

Maintenance factor 0.8 Rh = Lh + 0.5 m

**Light source**



With individual battery, nominal operating time 1-hour

	OSRAM	Siteco
2x T26 36 W	G13	7.0

With individual battery, nominal operating time 3 hours

	OSRAM	Siteco
2x T26 36 W	G13	6.1

- line infeed of the luminaire: 1 screw joint M20x 1.5, 1 closure screw and 2 locknuts included

## FR-Ex mounting accessories



### Universal luminaire mount

for wire ( $\varnothing \leq 4.5\text{mm}$ ) or chain ( $\varnothing_{\text{interior}} \geq 7\text{mm}$ ) | load capacity: 25kg

Designation		Order no. OSRAM	Order no. Siteco
Suspension bracket	galvanized, some V2A	4039806167521	5LY9086
Suspension bracket	V2A	4039806170750	5LY90861

— 2 pieces required per luminaire



### Chain

inner link size 7 x 40mm | load capacity: 56kg

Designation		Order no. OSRAM	Order no. Siteco
Chain	galvanized	4039806999856	5LY9005
Chain	V2A	4039806175991	5LY9111

— chain: per meter

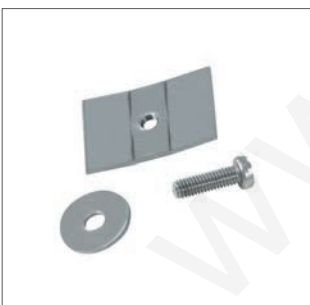


### Mounting element

for luminaire mounting to unwired DUS<sup>®</sup> mounting rail

Designation		Order no. OSRAM	Order no. Siteco
Mounting element		4039806369253	5LY9142

— 2 pieces required per luminaire  
— wiring of luminaire to luminaire with insulated cable (such as NYM)



### Mounting element

for luminaire mounting to GRP mounting rail | consisting of threaded plate, V2A; screw fixation

Designation		Order no. OSRAM	Order no. Siteco
Mounting element		4039806171696	5LS91120EC

— 2 pieces required per luminaire  
— screw plates are included in the scope of delivery of the plastic trunking rails (each 2 units, 4 units, 6 units for 1-, 2-, 3-length rails)

For DUS<sup>®</sup> mounting rails (without through-wiring) and accessories, see **page 9.87 ff.**

For GRP mounting rails (for single luminaires) and accessories, see **page 9.87 ff.**

# Mounting rails



The trunking rails open up the option to mount damp-proof luminaires as a continual or as an interrupted light bar. There are various mounting sets available made especially for the various types of luminaire, which enable quick and easy installation.

## Features

- various mounting sets for rapid, simple mounting of various luminaire types to the rail
- wide range of accessories for suspended mounting or for trunking rails to ceilings
- wide distances between suspension points
- practical accessories for concealing exposed rail sections and for cable routing with interrupted luminaire arrangements

## Electrics

Rails as trunking rails unwired | through-wiring for arrangement as a continual light bar depending on luminaire variation within the luminaires through special wiring sets or above the luminaires with insulated cables (such as NYM) | additional wiring of luminaire to luminaire in uninterrupted light bars with normal insulated cable (such as NYM) | fixation of the cable between the luminaires to the DUS® mounting rail by fixed cover or through additional cable holders in or on the rail; to the GRP mounting rail through additional cable holders on the rail

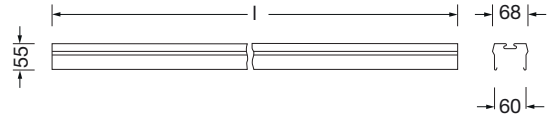
## Housing

### Mounting rail of sheet steel

Housing of sheet steel, galvanized, painted pure white (similar to RAL 9010) | covers of plastic, can be cut to fit, white or gray | compatible with the support rails and support rail components of the DUS® trunking systems

### Mounting rail of plastic

Housing of glass-fiber-reinforced polyester, gray | rail connectors, suspension units and installation accessories of V2A





### DUS® mounting rail galvanized sheet steel, coated white

Mounting rail for ceiling surface or suspended mounting

- sheet steel, galvanized, pure white (similar to RAL 9010)
- unwired

- for installation of damp-proof luminaires, diffuser luminaires or louver luminaires as seamless or interrupted continuous rows

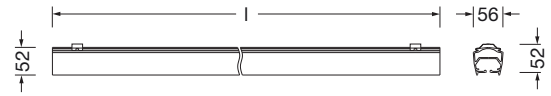
Designation	 [mm]	 kg	Order no. OSRAM	Order no. Siteco
Mounting rail	3153	4.2	4039806166715	5LS90920E
Mounting rail	4730	6.0	4039806166739	5LS90930E

- please order connectors, end caps and suspensions for trunking rail separately
- please order mounting sets for mounting luminaires, fixed covers and cable clips or cable retainers for cable routing of mounting rail separately

### Required accessories (for details see page 9.90 ff.)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connectors, steel, galvanized		0.5	4039806168108	5LJ90910XV
Joint covers, pure white		0.1	4039806166678	5LS90900XD
End cap, pure white	set of 2	0.1	4039806166692	5LS90910XD
Fixed cover, white, flat, can be cut to fit, l = 1535mm		0.2	4039806000330	5LJ90830ED
Fixed cover, light gray (RL 7035), curved, cut to fit, l = 1596mm		0.3	4039806175908	5LS90800XD





**GRP mounting rail**  
**glass-fiber-reinforced polyester, gray**

Mounting rail for ceiling surface or suspended mounting

- glass-fiber-reinforced polyester, gray
- unwired
- for installation of linear fluorescent luminaires with higher protection rating as seamless or interrupted continuous rows

- incl. ceiling mounting accessories
- incl. mounting set for simple mounting of luminaires to the rail 2 units, 4 units, 6 units (for 1-, 2-, 3-length rails)

Designation	$\frac{l}{[mm]}$	$\frac{kg}{[kg]}$	Order no. OSRAM	Order no. Siteco
Mounting rail	1597	2.0	4039806505637	5LS91011EN
Mounting rail	3194	4.0	4039806505644	5LS91012EN
Mounting rail	4791	6.0	4039806505651	5LS91013EN

- please order connectors, end caps and suspensions for trunking rail separately
- please order fixed covers and cable clips or cable retainers for cable routing of mounting rail separately

**Required accessories (for details see page 9.90 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Connector, stainless steel, untreated		0.2	4039806505675	5LS91101EV
End cap, gray	set of 2	0.1	4039806591548	5LS91106
Cable clip, gray, can be cut to fit		0.2	4039806522436	5LS91101
Cable clip, gray	set of 20	0.1	4039806522443	5LS91102
Fixed cover, gray, can be cut to fit, l = 1500mm		0.1	4039806591524	5LS91103

**DUS® mounting rail, housing accessories**



**End cap for DUS® mounting rail**

to attach to the mounting rail, with safety screws | plastic, white | can be broken out for cable guides

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	set of 2	4039806166692	5LS90910XD



**Connector for DUS® mounting rail**

galvanized steel | strong and flush connection through 2 screws | self-supporting

Designation	Order no. OSRAM	Order no. Siteco
Connector	4039806168108	5LJ90910XV

— self-supporting connection, suspension in the area of the joint not required



**Joint cover for DUS® mounting rail**

plastic, white

Designation	Order no. OSRAM	Order no. Siteco
Joint cover	4039806166678	5LS90900XD

— 1 piece required per joint



**Fixed cover for DUS® mounting rail**

plastic, gray, cut to size | suitable for luminaires FR200, FR100 (mounting set 1 and set 4) | to cover the DUS® mounting rail for continual luminaire arrangement (fixed cover encloses the cable infeed of the luminaires and serves to connect the cable from one luminaire to the next)

Designation	L (mm)	Order no. OSRAM	Order no. Siteco
Fixed cover	1596	4039806175908	5LS90800XD

— can be cut to fit | for covering rail sections in which no luminaire has been installed



**Fixed cover**

plastic, can be cut to fit | suitable for Monsun®, Siteco® Louvre Luminaire (mounting set 2, set 3 and set 4) | for covering the DUS® mounting rail for continuous luminaire arrangement

Designation	L (mm)	Order no. OSRAM	Order no. Siteco
Fixed cover			
White	1535	4039806000330	5LJ90830ED

— can be cut to fit | for covering rail sections in which no luminaire has been installed



**DUS® mounting rail, mounting accessories**



**Ceiling mounting “A”**

galvanized steel, incl. spacer | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Ceiling mounting	4039806106308	5LJ90930XC



**Cable suspension “B”**

with variable height adjustment | without cable (for cable: D = 1.5mm) | load capacity: 16kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension	4039806106216	5LJ90921XC



**Cable suspension “C”**

with variable height adjustment | incl. top loop | cable: D = 1.5mm) | load capacity: 16kg

Designation	Suspension height	Order no. OSRAM	Order no. Siteco
Wire suspension	H ≤ 1m	4039806106001	5LJ90900
Wire suspension	H ≤ 2m	4039806106056	5LJ90901

— without ceiling mounting (ceiling hook required)



**Cable suspension “D”**

with variable height adjustment | incl. cable, ceiling mounting element, canopy, white | cable: l = 2m, D = 1.2mm | load capacity: 12kg

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension without clamp	4039806848017	5LJ909001
Wire suspension with clamp <sup>1)</sup>	4039806106247	5LJ90921XC2
Additional wire	l = 6m <sup>2)</sup>	4039806144386

1) with 5 terminals, 1-pole, max. 2.5mm<sup>2</sup>  
 2) for 2 pieces ≤ 3m or 1 suspension ≤ 6m



**Chain suspension “E”**

rail side | safety hooks with height adjustment | galvanized steel, partial die cast aluminum | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Chain suspension	4039806089359	5LJ90910XC

— without chain, without cover side catch (local cover hook)





### Chain suspension "F"

safety hooks with height adjustment | galvanized steel, partial diecast aluminum |  
incl. mounting bracket, safety link and white canopy | load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Chain suspension	4039806106124	5LJ90912XC

— no chain



### Chain suspension "G"

rail side | safety hooks with height adjustment | galvanized steel, partial diecast aluminum |  
load capacity: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Chain suspension	4039806133403	5LJ90911XC

— without chain, without cover side catch (local cover hook)



### Chain, galvanized

inner link size 7 x 40mm | load capacity: 56kg

#### Protective grid (not shown)

inner link size 8 x 20mm | load capacity: 50kg

Designation		Order no. OSRAM	Order no. Siteco
Chain	galvanized	4039806999856	5LY9005
Quick-release link	galvanized	4039806176011	5LY9113

— chain: per meter

The number of mounting points results from the total weight of the whole row (rail and luminaires) and the load capacity of the suspension. The maximum permissible distance between two mounting points and the maximum permissible length of the unsupported rail end must not be exceeded.

- maximum permissible length between two mounting points:  $l_{\max} = 3.5\text{m}$
- maximum permissible length of unsupported rail end:  $l_{a,\max} = 0.8\text{m}$



## DUS® mounting rail mounting accessories for luminaires



### Mounting set 1

for installation of: damp-proof luminaires FR200, FR100, open distribution on DUS® mounting rail

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting set	set of 2	4039806170774	5LS90900XC1

- 2 pieces required per luminaire
- consisting of mounting element, galvanized steel, plastic plate, screw fixation and cable holder



### Mounting set 2

for mounting Monsun® damp-proof luminaires to DUS® trunking rails | V2A; tool-free mounting

Designation	PU	Order no. OSRAM	Order no. Siteco
Mounting set	set of 6	4039806171559	5LS44002

- 2 pieces required per luminaire
- a rail clip is required at the end of each rail



### Mounting element

for mechanical mounting of pan-mounted luminaire Europlex®, FR-Ex or grid mounted luminaires Siteco® Louvre Luminaire Plus to DUS® trunking rails

Designation	Order no. OSRAM	Order no. Siteco
Mounting element	4039806369253	5LY9142

- 2 pieces required per luminaire
- wiring on the top side of the luminaire with insulated cable (such as NYM), cable infixed on the top of the luminaire



### Mounting set 5

for fixing-grid-mounted luminaires Siteco® Louvre Luminaire to pre-wired DUS® support rails | incl. connection cable with plug (with phase selection) for contact in the wired DUS® support rail

Designation	Order no. OSRAM	Order no. Siteco
Mounting set		
3-pole, for 5 or 7-wired rails	4039806106346	5LJ90940XC
5-pole, for 7-wired rails	4039806888037	5LJ90950XC

- 1 set required per luminaire



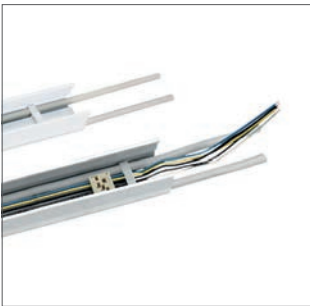
### Mounting set 6

for installation of Hexal® modules in pre-wired DUS® support rail; consisting of fixation clips, V2A, connection cable and plug (with phase selection) for connection in the pre-wired DUS® support rails | no-tool mounting, freely positionable in the support rail

Designation		Order no. OSRAM	Order no. Siteco
Mounting set 1	for current DUS® support rail 5LJ909...	4039806132307	5LJ90040XC
Mounting set 2	for DUS® "classic" support rail 5LJ809...	4039806132215	5LJ90050XC

- 1 set required per luminaire
- secure clips, V2A, no tools required for mounting and easy to position

### DUS® mounting rail, electrical accessories



#### Cable clips

for additional wiring (such as circuit division) | suitable for insulated cable |  
 $D_{\max} \leq 13.5\text{mm}$  (such as NYM 5x 2.5mm<sup>2</sup>)

Designation	PU	Order no. OSRAM	Order no. Siteco
Cable clip for a cable on the rail	set of 10	4039806000446	5LJ90810XY
Cable clip for one or two cables in the rail	set of 10	4039806000378	5LJ90800XY



**GRP mounting rail housing accessories**



**End cap for GRP mounting rail**

plastic, gray | incl. stainless steel fixation clamps

Designation	PU	Order no. OSRAM	Order no. Siteco
End cap	set of 2	4039806591548	5LS91106



**Connector for GRP mounting rail**

for flush connection | V2A

Designation	Order no. OSRAM	Order no. Siteco
Connector	4039806505675	5LS91101EV



**Fixed cover for GRP mounting rail**

for covering for continuous luminaire arrangement | plastic, gray, cut to fit

Designation	L (mm)	Order no. OSRAM	Order no. Siteco
Fixed cover	1500	4039806591524	5LS91103



## GRP mounting rail, mounting accessories



### Ceiling mounting

to clip to the mounting rail | for ceiling installation or chain suspension | V2A load capacity: 20kg

Designation		Order no. OSRAM	Order no. Siteco
Ceiling mounting	V2A	4039806505668	5LS91101EA



### Universal luminaire mount

for wire ( $\varnothing \leq 4.5\text{mm}$ ) or chain ( $\varnothing_{\text{interior}} \geq 7.5\text{mm}$ ) | load capacity: 25kg

Designation		Order no. OSRAM	Order no. Siteco
Suspension bracket	V2A	4039806170750	5LY90861



### knotted link chain V2A

inner link size 7 x 40mm | load capacity: 56kg

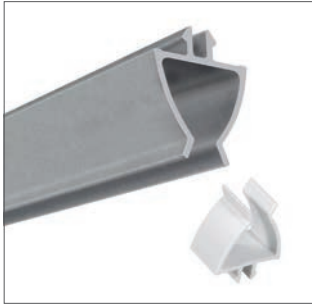
Designation		Order no. OSRAM	Order no. Siteco
Chain	V2A	4039806175991	5LY9111

— chain: per meter

The number of mounting points results from the total weight of the whole row (rail and luminaires) and the load capacity of the suspension. The maximum permissible distance between two mounting points and the maximum permissible length of the unsupported rail end must not be exceeded.

- maximum permissible length between two mounting points:  $l_{\text{max}} = 3.5\text{m}$
- maximum permissible length of unsupported rail end:  $l_{\text{a,max}} = 0.8\text{m}$

### GRP mounting rail electrical accessories



#### Cable clip/cable holder

to secure cables to the mounting rail | gray plastic | suitable for insulated cables |  
D = 8...15mm (such as NYM)

Designation	PU	L (mm)	Order no. OSRAM	Order no. Siteco
Cable clips	set of 20	25	4039806522443	5LS91102
Cable clips		1500	4039806522436	5LS91101

### GRP mounting rail replacement parts



#### Mounting element

for mounting damp-proof luminaires FR200, FR100 or FR-Ex as well as Monsun® to plastic trunking rails | V2A | (only for replacement)

Designation		Order no. OSRAM	Order no. Siteco
Mounting element	V2A	4039806171696	5LS91120EC

- 2 pieces required per luminaire
- screw plates are included in the scope of delivery of the plastic trunking rails (each 2 units, 4 units, 6 units for 1-, 2-, 3-length rails)









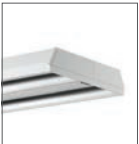


**LED highbay luminaires**



NJ700® LED  
Page 10.7

**T16 highbay luminaires**



T16 highbay luminaire IP20  
Page 10.15



T16 highbay luminaire IP65  
Page 10.15



Siteco® Louvre Luminaire M  
Page 10.25



T16 highbay luminaire IP20 for Modario® trunking rail  
See chapter 8



T16 highbay luminaire IP65 for Modario® trunking rail  
See chapter 8

**Highbay reflector luminaires**



NJ600  
Page 10.31



NX700  
Page 10.43



SiCOMPACT® FL MIDI S LED  
Page 10.47



SiCOMPACT® A2 MINI LED/A2 MIDI LED  
Page 10.51



SiCOMPACT® A2 MINI/A2 MIDI  
Page 10.57

**Luminaires for special applications**

for sports halls



Siteco® Louvre Luminaire M  
Page 10.25



NJ600  
Page 10.31



SiCOMPACT® A2 MINI/A2 MIDI  
Page 10.57



NX700  
Page 10.43

for highbay warehouses



DUS®  
See chapter 8



NJ600  
Page 10.31



FR100  
See chapter 9



NJ600  
Page 10.31
















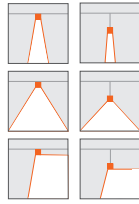
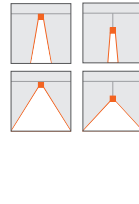
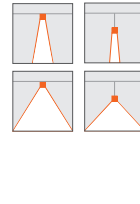
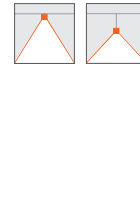
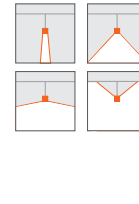
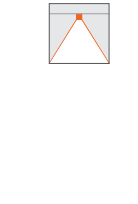


FR-Ex  
See chapter 9






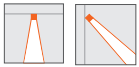

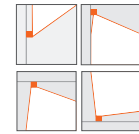

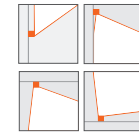
for high/low temperatures

for explosion-hazard zone 2 or 22



							
		NJ700® LED	T16 highbay luminaire IP20	T16 highbay luminaire IP65	Siteco® Louvre Luminaire M	NJ600 Detailed product search Page 10.5	NX700
<b>Light source</b>	LED	■					
	T16		■	■	■		
	HIE/HSE					■/■	
	HIT/HST						■/■
	HIT-DE/HST-DE					■/-	
	TC-TEL						
	QT-DE						
<b>Protection rating</b>	IP20		■		■	■	■
	IP40					■**	
	IP65			■		■*	■
	IP66	■					
<b>Special ambient temperatures</b>							
<b>Installation method</b>	ceiling surf. mnt.	■	■	■	■		■
	suspended	■	■	■	■	■	
	wall surf. mounting						
	cross arm						
<b>Mounting height (m)</b>		6...20	6...20	6...20	5...10	6...20	6...9
<b>Versions for sports locations</b>							
<b>Light distribution</b>							

\*with cover panel  
\*\*with cover panel and ball protection

				
SiCOMPACT® FL MIDI S LED	SiCOMPACT® A2 MINI LED/ A2 MIDI LED	SiCOMPACT® A2 MINI LED/ A2 MIDI LED	SiCOMPACT® A2 MINI/ A2 MIDI	SiCOMPACT® A2 MINI/ A2 MIDI
■	■	■		
			■/■	■/■
			■/■	■/■
			■	■
			■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
6...20	2...6   5...12	2...6   5...12	2...6   5...12	2...6   5...12
⚽				⚽
				



**NJ600 luminaire upper part**  
with E27 supplementary socket




with ignition timer

Standard


Light source

Protection rating



				Light source	Protection rating
		5NJ60031DN	 	HIE/HSE 150W	IP20
5NJ60031EN03 Page 10.39	5NJ60031ENT Page 10.38	5NJ60031EN	 	HIE/HSE 250W	IP20
5NJ60031FN03 Page 10.39	5NJ60031FNT Page 10.38	5NJ60031FN	 	HIE/HSE 400W	IP20
		5NJ60031FNA		HIE/HSE 400W	IP20
		5NJ60031AN*		HIE/HSE 1000W	IP20
<b>Cover panel, transparent</b> with aluminum reflector		5NJ300000	 	up to 400W	IP65
		5NJ30000T		up to 1000W	IP65
<b>Flat prismatic lens (PMMA)</b> for LexaLite® PMMA reflector		5NJ145301XC			IP20
<b>Ball protection</b> for cover panel, transparent		5NJ30000XB			IP40
<b>NJ600 complete luminaire</b> incl. aluminum reflector and frosted cover panel   with hot re-ignition		5NJ63731KNH Page 10.37		HIT-DE 250W	IP65
		5NJ63731LNH Page 10.37		HIT-DE 250W	IP65



 Ball-proof luminaire, suitable for tennis and squash courts. The ball protection is only ensured if the luminaire is mounted by qualified personnel and if it is used in combination with the corresponding reflectors and the specified accessories. In particular, open eyelets or hooks must not be used.

 Luminaire suitable for special ambient conditions. Detailed information can be found in the product description on the respective product page.

\*control unit 1000W to be ordered separately

**NJ600 aluminum reflector**  
**narrow distribution**

**wide distribution**

**faceted, wide distribution**

**NJ600 LexaLite® PMMA reflector**

**extremely wide distribution**

**linear light distribution**  
**corridor lighting**



**5NJ332000**  
 d = 522mm



**5NJ331000**  
 d = 522mm



**5NJ333000**  
 d = 522mm



**5NJ311000**  
 d = 565mm



**5NJ316000**  
 d = 565mm

Page 10.34	Page 10.34	Page 10.35	Page 10.32	
Page 10.34	Page 10.34	Page 10.35	Page 10.32	Page 10.33
Page 10.34	Page 10.34	Page 10.35		
			Page 10.32	Page 10.33
Page 10.36	Page 10.36			
Page 10.40	Page 10.40	Page 10.40		
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Page 10.40	Page 10.40	Page 10.40		
	(incl.)			
	(incl.)			



## NJ700<sup>®</sup> highbay luminaire with LED



NJ700<sup>®</sup> LED is a robust, future-safe lighting solution for high halls with luminaire mounting heights of 6 to 20 meters. The luminaire features the resilient diecast aluminum housing of an outdoor luminaire with IP65 protection rating and a cover of toughened safety glass. Their start temperature is a low -30°C.

The NJ700<sup>®</sup> LED is available in two different construction sizes with various beam characteristics (wide/narrow distribution, asymmetric distribution). All luminaires are modularly constructed according to the same system in order to enable simple subsequent upgrading of LED modules and ECG. The luminaires are installed via chain or ceiling mounting, and electrical connection is via an external plug (plug and play).

Thanks to DALI integration as standard, the versions of the NJ700<sup>®</sup> LED family can be integrated into external light management systems.

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.



### Features

- lighting for high halls with mounting heights between 6 and 20 meters
- suitable for use in difficult ambient conditions due to diecast aluminum housing (IP66)
- very high impact resistance (IK08)
- 1:1 replacement is possible with conventional highbay reflector luminaires (1x HIE 250W or 400W)
- available with three light beam characteristics (wide/narrow/asymmetric distribution)
- start temperature as low as -30°C
- long service life of up to 50,000 hours with ambient temperatures of +45°C (L85 | B10)
- modular construction with upgrade option to future LED modules and ECG
- protection against flying balls for sports locations (tested in accordance with DIN VDE 0710)
- simple installation via mounting near to ceiling or suspended mounting
- external plug connection (plug and play)

### Lighting technology

- luminaire with one or two LED modules each, with twin reflector and transparent cover
- twin reflector of aluminum, semi-specular; narrow, wide or asymmetric distribution depending on version

### Electrics

Luminaire wired ready for connection, completely pre-assembled with connection plug and included socket with 5-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | socket for cables D= 10...18mm | luminaire with ECG DALI; variants with two LED modules have two DALI addresses

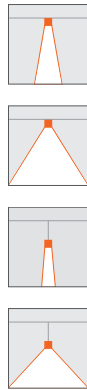
### Information for operation at low temperatures

Frequent switching at low temperatures should be avoided; recommendation: instead of frequent ON/OFF, change between low and high dimming positions

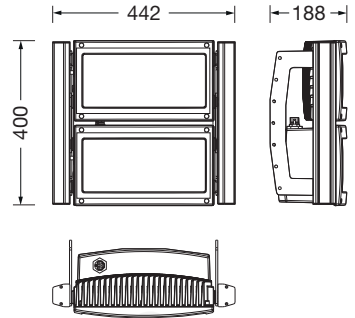
### Housing

LED module support with cooling ribs and electrical module of diecast aluminum; mounting bracket of steel; all parts in Siteco® metallic gray (DB 702S); lateral support profiles of extruded aluminum, anodized; cover of safety glass



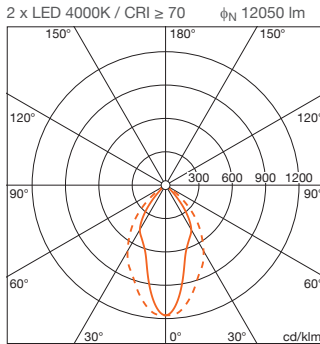


LED



**Narrow distribution**

4050737465487  
5NX611D1A2E



φ<sub>d</sub> 100% φ<sub>t</sub> 0%

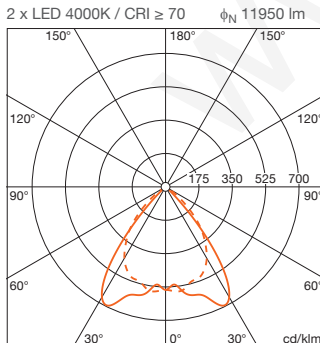
Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	581	5623
L <sub>70</sub>	928	2261
L <sub>65</sub>	894	2280

UGR 20.1 23.5  
X 4H Y 8H ρ 70/50/20 S 0.25H

**Wide distribution**

4050737465500  
5NX612D1A2E



φ<sub>d</sub> 100% φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	431	824
L <sub>70</sub>	993	1251
L <sub>65</sub>	1331	1899

UGR 22.7 23.3  
X 4H Y 8H ρ 70/50/20 S 0.25H

**NJ700® LED**

with 1 module support | symmetric narrow or wide distribution

LED luminaire for ceiling surface or suspended mounting

- with double reflector of aluminum; narrow or wide distribution
- with ECG DALI; with one DALI address
- LED module support with cooling ribs and electrical module of diecast aluminum, Siteco® metallic gray (DB 702S)
- mounting bracket of steel, Siteco® metallic gray (DB 702S)
- lateral support profiles of aluminum, anodized

- cover of safety glass
- protection rating: IP66
- insulation class: I
- impact resistance: IK08
- protection symbol: D
- temperature range: T<sub>a</sub> = -30...+45°C
- service life: up to 50,000h (L85 | B10)
- ballproof luminaire; tested according to DIN VDE 0710, part 13
- luminaire with mounted 5-pole connection plug and supplied socket

• frequent switching at low temperatures should be avoided; recommendation instead of frequent ON/OFF: change between low and high dimming positions



**Light source**

K

R<sub>a</sub>

Im

W SYSTEM

kg

LLCG

Order no. OSRAM

Order no. Siteco

narrow distribution

LED	4000	> 70	12050	112	13.1	DALI	4050737465487	5NX611D1A2E
-----	------	------	-------	-----	------	------	---------------	-------------

wide distribution

LED	4000	> 70	11950	112	13.1	DALI	4050737465500	5NX612D1A2E
-----	------	------	-------	-----	------	------	---------------	-------------

- please order mounting accessories (ceiling mounting set or Y-chain suspension) separately

**Mandatory accessories (for details see page 10.13 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Ceiling mounting set		1.7	4050737460147	5NX610003

**narrow distribution**

No. of luminaires in room	Reflection factors 70/50/20					
Em(lx)	100		200		500	
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	2.3	2.6	4.6	5.1	11	13
300 m <sup>2</sup>	3.3	3.6	6.6	7.2	16	18
500 m <sup>2</sup>	5.2	5.6	10	11	26	28
750 m <sup>2</sup>	7.6	8.1	15	16	38	40
1000 m <sup>2</sup>	10.0	10	20	21	50	52
1500 m <sup>2</sup>	15	15	29	31	73	76
2000 m <sup>2</sup>	19	20	39	40	97	100

**wide distribution**

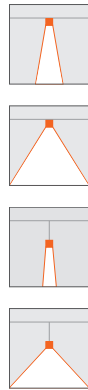
No. of luminaires in room	Reflection factors 70/50/20					
Em(lx)	100		200		500	
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	2.4	2.7	4.8	5.4	12	14
300 m <sup>2</sup>	3.4	3.8	6.8	7.5	17	19
500 m <sup>2</sup>	5.4	5.8	11	12	27	29
750 m <sup>2</sup>	7.8	8.3	16	17	39	41
1000 m <sup>2</sup>	10	11	20	22	51	54
1500 m <sup>2</sup>	15	16	30	31	74	78
2000 m <sup>2</sup>	20	20	39	41	98	102

Maintenance factor 0.8

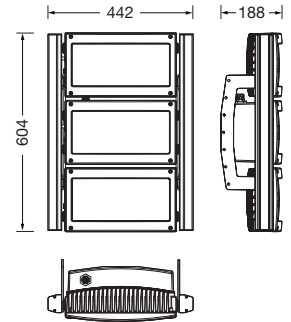
R<sub>h</sub> = L<sub>h</sub>

Maintenance factor 0.8

R<sub>h</sub> = L<sub>h</sub>

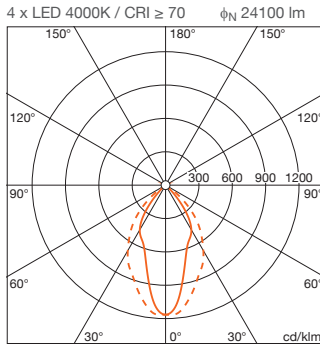


LED



**Narrow distribution**

4050737466750  
5NX611D2A4E



φ<sub>d</sub> 100% φ<sub>t</sub> 0%

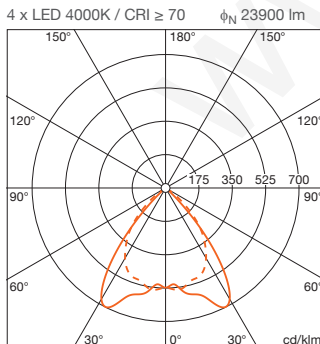
Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	539	5927
L <sub>70</sub>	876	2537
L <sub>65</sub>	813	2386

UGR 20.2 23.3  
X 4H Y 8H ρ 70/50/20 S 0.25H

**Wide distribution**

4050737466712  
5NX612D2A4E



φ<sub>d</sub> 100% φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	345	685
L <sub>70</sub>	839	1161
L <sub>65</sub>	1149	1800

UGR 22.8 23.3  
X 4H Y 8H ρ 70/50/20 S 0.25H

**NJ700® LED**

with 2 module supports | symmetric narrow or wide distribution

- LED luminaire for ceiling surface or suspended mounting
- with double reflector of aluminum; narrow or wide distribution
- with ECG DALI; with two DALI addresses
- LED module support with cooling ribs and electrical module of diecast aluminum, Siteco® metallic gray (DB 702S)
- mounting bracket of steel, Siteco® metallic gray (DB 702S)
- lateral support profiles of aluminum, anodized

- cover of safety glass
- protection rating: IP66
- insulation class: I
- impact resistance: IK08
- protection symbol: D
- temperature range: T<sub>a</sub> = -30...+45°C
- service life: up to 50,000h (L85 | B10)
- ballproof luminaire; tested according to DIN VDE 0710, part 13
- luminaire with mounted 5-pole connection plug and supplied socket

• frequent switching at low temperatures should be avoided; recommendation instead of frequent ON/OFF: change between low and high dimming positions



**Light source**



Order no. OSRAM

Order no. Siteco

narrow distribution

LED	4000	> 70	24100	225	18.6	DALI	4050737466750	5NX611D2A4E
-----	------	------	-------	-----	------	------	---------------	-------------

wide distribution

LED	4000	> 70	23900	225	18.6	DALI	4050737466712	5NX612D2A4E
-----	------	------	-------	-----	------	------	---------------	-------------

— please order mounting accessories (ceiling mounting set or Y-chain suspension) separately

**Mandatory accessories (for details see page 10.13 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Ceiling mounting set		1.7	4050737460147	5NX610003

**narrow distribution**

No. of luminaires in room	Reflection factors 70/50/20					
Em(lx)	100	200	500			
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.1	1.3	2.3	2.6	5.7	6.4
300 m <sup>2</sup>	1.6	1.8	3.3	3.6	8.2	9.0
500 m <sup>2</sup>	2.6	2.8	5.2	5.6	13	14
750 m <sup>2</sup>	3.8	4.0	7.6	8.1	19	20
1000 m <sup>2</sup>	5.0	5.2	10.0	10	25	26
1500 m <sup>2</sup>	7.3	7.6	15	15	37	38
2000 m <sup>2</sup>	9.7	10.0	19	20	48	50

Maintenance factor 0.8

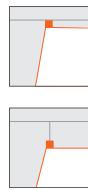
Rh = Lh

**wide distribution**

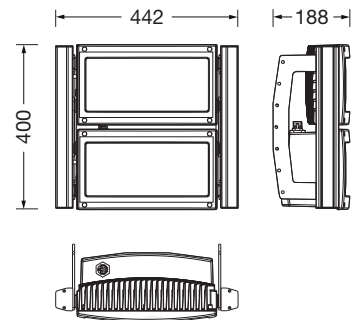
No. of luminaires in room	Reflection factors 70/50/20					
Em(lx)	100	200	500			
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.2	1.4	2.4	2.7	6.0	6.8
300 m <sup>2</sup>	1.7	1.9	3.4	3.8	8.5	9.4
500 m <sup>2</sup>	2.7	2.9	5.4	5.8	13	15
750 m <sup>2</sup>	3.9	4.2	7.8	8.3	20	21
1000 m <sup>2</sup>	5.1	5.4	10	11	26	27
1500 m <sup>2</sup>	7.5	7.8	15	16	37	39
2000 m <sup>2</sup>	9.8	10	20	20	49	51

Maintenance factor 0.8

Rh = Lh

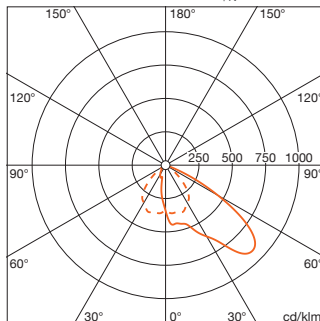


LED



4050737466736  
5NX613D1A2E

2 x LED 4000K / CRI ≥ 70    φ<sub>N</sub> 11550 lm



φ<sub>d</sub> 100%    φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2880	705
L <sub>70</sub>	26667	1505
L <sub>65</sub>	94415	2637

UGR 35.4    26.5

X 4H Y 8H ρ 70/50/20 S 0.25H

**NJ700® LED**  
with 1 module support | asymmetric distribution

LED luminaire for ceiling surface or suspended mounting

- with double reflector of aluminum; asymmetric distribution
- with ECG DALI; with one DALI address
- LED module support with cooling ribs and electrical module of diecast aluminum, Siteco® metallic gray (DB 702S)
- mounting bracket of steel, Siteco® metallic gray (DB 702S)
- lateral support profiles of aluminum, anodized

- cover of safety glass
- protection rating: IP66
- insulation class: I
- impact resistance: IK08
- protection symbol: D
- temperature range: T<sub>a</sub> = -30...+45°C
- service life: up to 50,000h (L85 | B10)
- ballproof luminaire; tested according to DIN VDE 0710, part 13
- luminaire with mounted 5-pole connection plug and supplied socket

• frequent switching at low temperatures should be avoided; recommendation instead of frequent ON/OFF: change between low and high dimming positions



**Light source**

	K	R <sub>a</sub>	lm	W SYSTEM	Kg	ECG LLOG	Order no. OSRAM	Order no. Siteco
LED	4000	> 70	11550	112	13.1	DALI	4050737466736	5NX613D1A2E

— please order mounting accessories (ceiling mounting set or Y-chain suspension) separately

**Mandatory accessories (for details see page 10.13 ff.)**

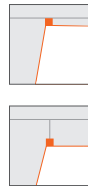
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Ceiling mounting set		1.7	4050737460147	5NX610003

No. of luminaires in room

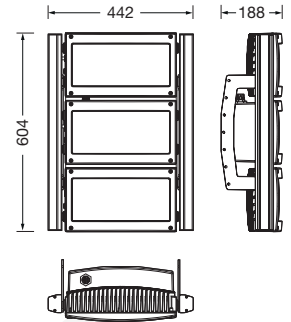
Reflection factors 70/50/20

Em(lx)	100		200		500	
	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	2.8	3.4	5.7	6.8	14	17
300 m <sup>2</sup>	3.9	4.5	7.8	9.1	20	23
500 m <sup>2</sup>	6.0	6.7	12	13	30	34
750 m <sup>2</sup>	8.6	9.4	17	19	43	47
1000 m <sup>2</sup>	11	12	22	24	56	60
1500 m <sup>2</sup>	16	17	32	34	81	86
2000 m <sup>2</sup>	21	22	42	44	105	111

Maintenance factor 0.8      Rh = Lh

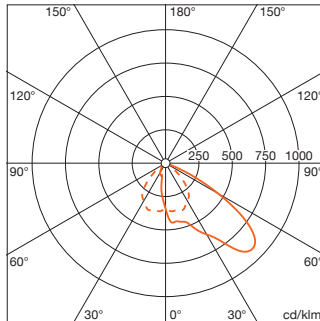


LED



4050737463698  
5NX613D2A4E

4 x LED 4000K / CRI ≥ 70    φ<sub>N</sub> 23100 lm



φ<sub>d</sub> 100%    φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2880	705
L <sub>70</sub>	26667	1505
L <sub>65</sub>	94415	2637

UGR 35.4    26.5  
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room	Reflection factors 70/50/20					
	Em(lx)		100		200	
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.4	1.7	2.8	3.4	7.1	8.5
300 m <sup>2</sup>	2.0	2.3	3.9	4.5	9.8	11
500 m <sup>2</sup>	3.0	3.4	6.0	6.7	15	17
750 m <sup>2</sup>	4.3	4.7	8.6	9.4	21	23
1000 m <sup>2</sup>	5.6	6.0	11	12	28	30
1500 m <sup>2</sup>	8.1	8.6	16	17	40	43
2000 m <sup>2</sup>	11	11	21	22	53	55

Maintenance factor 0.8    Rh = Lh

**NJ700® LED**  
with 2 module supports | asymmetric distribution

- LED luminaire for ceiling surface or suspended mounting
- with double reflector of aluminum; asymmetric distribution
- with ECG DALI; with two DALI addresses
- LED module support with cooling ribs and electrical module of diecast aluminum, Siteco® metallic gray (DB 702S)
- mounting bracket of steel, Siteco® metallic gray (DB 702S)
- lateral support profiles of aluminum, anodized

- cover of safety glass
- protection rating: IP66
- insulation class: I
- impact resistance: IK08
- protection symbol: D
- temperature range: T<sub>a</sub> = -30...+45°C
- service life: up to 50,000h (L85 | B10)
- ballproof luminaire; tested according to DIN VDE 0710, part 13
- luminaire with mounted 5-pole connection plug and supplied socket

• frequent switching at low temperatures should be avoided; recommendation instead of frequent ON/OFF: change between low and high dimming positions



Light source	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG LLOG	Order no. OSRAM	Order no. Siteco
LED	4000	> 70	23100	225	18.6	DALI	4050737463698	5NX613D2A4E

— please order mounting accessories (ceiling mounting set or Y-chain suspension) separately

**Mandatory accessories (for details see page 10.13 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Ceiling mounting set		1.7	4050737460147	5NX610003

## NJ700® LED mounting accessories



### Ceiling mounting

steel, galvanized | for suspending luminaire directly below ceiling | ceiling distance to lower luminaire edge: h = 222mm

Designation	PU	Order no. OSRAM	Order no. Siteco
Ceiling mounting	1 set	4050737460147	5NX610003

- 1 set required per luminaire



### Y-chain suspension

link chain, galvanized; with turnbuckle for height compensation; with carabiner for hooking into luminaire and in closed ceiling eyelet | for suspending luminaire directly below ceiling (h = 540mm\*) or for higher suspension height (with supplementary Y-chain)

Designation	PU	Order no. OSRAM	Order no. Siteco
Y-chain suspension	set of 2	4050737094304	5LJ160001

- 2 pieces required per luminaire
- with suspension height h > 540mm: please order chain in required length separately
- \* ceiling distance to lower luminaire edge



### Chain, galvanized

for suspended mounting with Y-chain suspension at suspension height: h > 540mm\* or for suspended mounting with 4 ceiling fixing points | inner link size = 7x 40mm | load capacity: 56kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Chain	galvanized	4039806999856	5LY9005

- chain: per meter
- please order Y-chain suspension separately if required
- please order carabiners in required quantities separately
- at least two chains required per luminaire
- \* ceiling distance to lower luminaire edge



### Turnbuckle

for height adjustment with chain suspension | with 4 suspension points per luminaire | with 2 closed eyelets | galvanized steel, partly diecast aluminum | tensile force: 20kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Turnbuckle	1 set	4039806172914	5LY91401

- incl. 2 quick-release links
- please order Y-chain suspension separately if required
- please order carabiners in required quantities separately





**Carabiner, galvanized**

for hooking chain into closed ceiling eyelet; with 4 suspension points:  
 for hooking chain to luminaire and into closed ceiling eyelet | inner link size = 4x 40mm |  
 load capacity: 20kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Carabiner, galvanized	set of 20	4050737094724	5LJ160004

- with ceiling suspension points: 4 pieces on ceiling side + if necessary 4 pieces additionally required per luminaire on luminaire side
- please order Y-chain suspension separately if required
- please order chain in required length separately





## T16 highbay luminaire



The T16 highbay luminaire is optimized for use in high halls for mounting heights from 6 to 20 meters. Narrow or wide/ extremely wide optics of highly reflective MIRO® aluminum ensure balanced and high-quality lighting at all mounting heights. High efficiency OSRAM Industry ECG Multiwatt (non-dimmable, 1...10V or DALI) for 35/49/80W enables flexible adaptation of lamp configuration/illuminance to specific lighting tasks. IP20, IP64 or IP65 and a versatile, intelligent mounting concept for suspended mounting, surface mounting or with Modario® tracks provide additional flexibility. Thus the T16 highbay luminaire meets the requirements of nearly all applications in industry and commerce. The luminaire is also available as a special ball-proof version (IP40) and suitable for use in sports halls.

With a system concept designed consistently towards efficiency, the lighting system achieves light output ratios of 93% and a high ECG lifespan. Housing, lighting technology, lamp and ballast are optimally matched. With the refurbishment of existing obsolete systems featuring conventional highbay reflector luminaires and high pressure discharge lamps, amortization times of less than 1.5 years can be achieved. At the same time, quality of light and visual comfort are improved.



### Features

- luminaire light output ratios of 93% (IP64 or IP65) and 94% (IP20)
- optimized maintenance cycles: long service life via a precisely matched system of lamps, ECG, optics and housing design
- flexibility with changing room layouts or lighting requirements via Modario® trunking rail and multiwatt technology (35/49/80W)
- ideal for refurbishments: 1:1 replacement of obsolete reflector luminaires, up to 50% total cost savings over the service life, rapid amortization, often after 1.5 years
- intelligent mounting concept: chain suspension, wire suspension, ceiling surface mounting or to Modario® rails
- ECG service life of up to 100,000 operating hours with ambient temperature of up to 40°C (IP64/IP65) or up to 50°C (IP20, with suspended mounting)
- suitable for use in challenging ambient conditions due to robust galvanized metal housing
- a ball-proof version (IP40) is available for sports halls
- high cost efficiency via long maintenance intervals, low lamp costs
- very good balanced lighting conditions due to high vertical light component and improved illumination of vertical surfaces
- can be used for mounting heights between 6 and 20 metres
- minimal construction height
- IP64 and IP65 versions have internal reflectors, protected against soiling by the cover panel
- high flexibility via 299mm system module dimensions with Modario® rail: all elements of the Modario® IP20 product family are matched to these module dimensions; the T16 highbay luminaire can be combined with these at random and can be positioned according to system module size

### Lighting technology

- Luminaire with direct distribution | matt reflector, highly reflective (MIRO®) | luminaire light output ratio  $\geq$  93%
- narrow distribution, for mounting heights 12...20m
  - wide or extremely wide distribution (via adjustment of socket), for mounting heights 6...12m
  - ball-proof version: wide distribution, for mounting heights 6...12m

### Electrics

Luminaire wired ready for connection, with one or two circuits depending on version | luminaire connection either via Linect® plug system or plug-in terminal, max. 2.5mm<sup>2</sup>

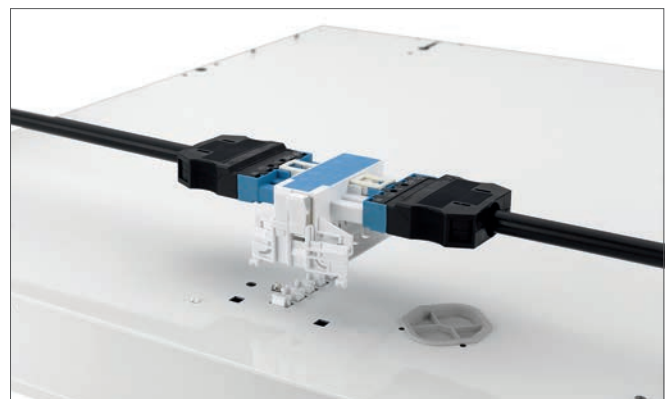
version for one circuit (with ECG DALI or ECG 1...10V): with 5-pole connection (3-pole + 2-pole for control signal)  
 version for two circuits (with ECG): with 4-pole connection

### Housing

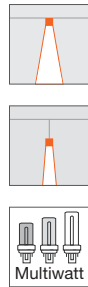
Sheet steel housing, galvanized, inside and outside coated pure white (similar to RAL 9010); end caps of PBT, pure white (similar to RAL 9010) | IP65 or IP64 version: cover frame of steel, galvanized; cover of PC or PMMA | the luminaire is designed for ceiling surface mounting or suspended mounting or for installation on Modario® rails; mounting for wire or chain upon housing at four positions

### Applications

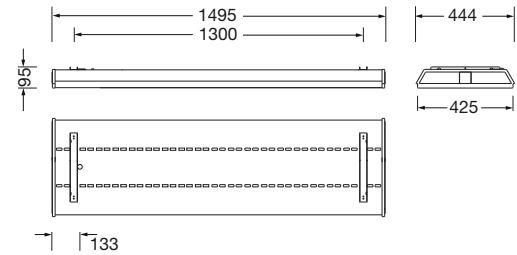
- manufacturing halls
- logistics areas
- warehouses
- sports halls (ball-proof version)



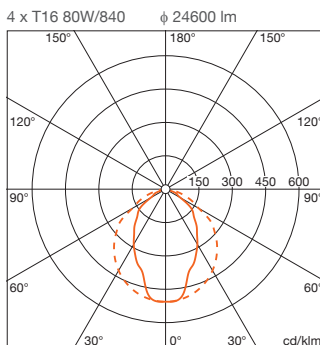
Versions of this luminaire for mounting on Modario® rails are specified in **chapter 8**



T16  
G5



4050737095301  
5LJ16174Q



$\eta_{LB}$  94.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	145	9975
L <sub>70</sub>	6535	14883
L <sub>65</sub>	7039	16376

UGR 21.2 25  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**T16 highbay luminaire | IP20 narrow distribution**

Highbay luminaire for ceiling surface or suspended mounting  
 — with highly reflective (MIRO®) aluminum reflector, matt, narrow distribution  
 — with OSRAM Industry ECG Multiwatt, for 1 or 2 circuits  
 — housing of sheet steel, galvanized, end caps of PBT, housing and end caps pure white (similar to RAL 9010)

- protection rating: IP20
- insulation class: I
- impact resistance: IK08
- temperature range:  
 $T_a \leq 40^\circ\text{C}$  (with ceiling surface mounting)  
 $T_a \leq 50^\circ\text{C}$  (with suspended mounting)
- service life (ECG): up to 100,000h depending on ambient temperature

OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps:  
 for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

**Electrics**

Luminaire connection optionally via Linect® plug system or plug-in terminal, with one or two circuits depending on version:  
 • **version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection terminal, max. 2.5mm<sup>2</sup> (3-pole + 2-pole for control signal)  
 • **version for two circuits (with ECG):** with 4-pole connection terminal, max. 2.5mm<sup>2</sup>



No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Em(lx)	6.0	8.0	6.0	8.0	6.0	8.0
Lh(m)	1.3	1.6	2.7	3.1	6.7	7.8
200 m <sup>2</sup>	1.9	2.1	3.8	4.3	9.4	11
300 m <sup>2</sup>	2.9	3.2	5.8	6.4	15	16
500 m <sup>2</sup>	4.2	4.5	8.4	9.1	21	23
750 m <sup>2</sup>	5.4	5.8	11	12	27	29
1000 m <sup>2</sup>	7.9	8.4	16	17	39	42
1500 m <sup>2</sup>	10	11	21	22	52	54
2000 m <sup>2</sup>						

Maintenance factor 0.8 Rh = Lh

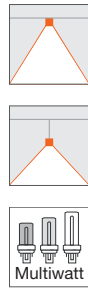
**Light source**

Light source	Icon	Icon	Icon	Order no. OSRAM	Order no. Siteco
4x T16 35/49/80 W	G5	9.2	Multi	4050737095301	5LJ16174Q
4x T16 35/49/80 W	G5	9.2	Multi DALI	4050737095349	5LJ161D4Q
4x T16 35/49/80 W	G5	9.2	Multi 1...10V	4050737095905	5LJ16164Q

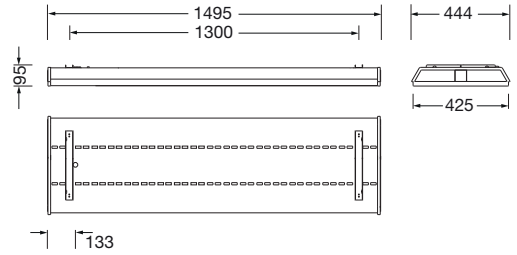
- please order mounting accessories separately
- please order lamps separately (system warranty in combination with selected lamps: OSRAM LUMILUX T5)

**Mandatory accessories (for details see page 10.22 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Y-wire suspension, suspension height 300...2000mm	set of 2	0.1	4050737093512	5LJ160002
Ceiling mounting set, suspension height 40mm	set of 2	0.4	4050737091662	5LJ160003

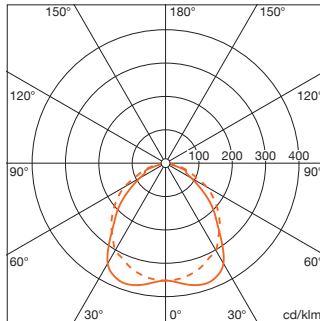


T16  
G5



4050737095394  
5LJ16274Q

4 x T16 80W/840  $\phi$  24600 lm



$\eta_{LB}$  94%  $\phi_d$  100%  $\phi_r$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1024	7548
L <sub>70</sub>	9294	11272
L <sub>65</sub>	8199	12275

UGR 22.5 25  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

**T16 highbay luminaire | IP20  
wide or extremely wide distribution**

Highbay luminaire for ceiling surface or suspended mounting  
 - with highly reflective (MIRO®) aluminum reflector, matt, wide or extremely wide distribution via adjustment of socket  
 - with OSRAM Industry ECG Multiwatt, for 1 or 2 circuits  
 - housing of sheet steel, galvanized, end caps of PBT, housing and end caps pure white (similar to RAL 9010)

- protection rating: IP20
- insulation class: I
- impact resistance: IK08
- temperature range:  
 $T_a \leq 40^\circ\text{C}$  (with ceiling surface mounting)  
 $T_a \leq 50^\circ\text{C}$  (with suspended mounting)
- service life (ECG): up to 100,000h depending on ambient temperature

OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps:  
for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

**Electrics**

- Luminaire connection optionally via Linect® plug system or plug-in terminal, with one or two circuits depending on version:
- **version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection terminal, max. 2.5mm<sup>2</sup> (3-pole + 2-pole for control signal)
  - **version for two circuits (with ECG):** with 4-pole connection terminal, max. 2.5mm<sup>2</sup>



**No. of luminaires in room**

Reflection factors 70/50/20	100		200		500	
	Lh(m)	Em(lx)	Lh(m)	Em(lx)	Lh(m)	Em(lx)
200 m <sup>2</sup>	1.4	1.6	2.8	3.3	7.0	8.2
300 m <sup>2</sup>	1.9	2.2	3.9	4.4	9.7	11
500 m <sup>2</sup>	3.0	3.3	6.0	6.7	15	17
750 m <sup>2</sup>	4.3	4.7	8.6	9.4	22	23
1000 m <sup>2</sup>	5.6	6.0	11	12	28	30
1500 m <sup>2</sup>	8.1	8.6	16	17	40	43
2000 m <sup>2</sup>	11	11	21	22	53	56

Maintenance factor 0.8 Rh = Lh

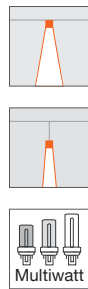
**Light source**

Light source				Order no. OSRAM	Order no. Siteco
4x T16 35/49/80 W	G5	9.3	Multi	4050737095394	5LJ16274Q
4x T16 35/49/80 W	G5	9.3	Multi DALI	4050737095448	5LJ162D4Q
4x T16 35/49/80 W	G5	9.3	Multi 1...10V	4050737095967	5LJ16264Q

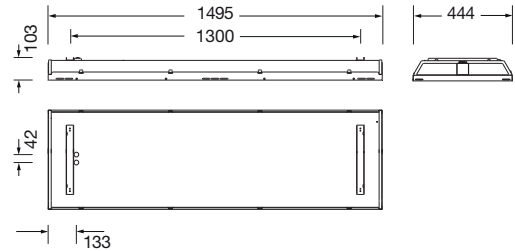
- please order mounting accessories separately
- please order lamps separately (system warranty in combination with selected lamps: OSRAM LUMILUX T5)

**Mandatory accessories (for details see page 10.22 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Y-wire suspension, suspension height 300...2000mm	set of 2	0.1	4050737093512	5LJ160002
Ceiling mounting set, suspension height 40mm	set of 2	0.4	4050737091662	5LJ160003

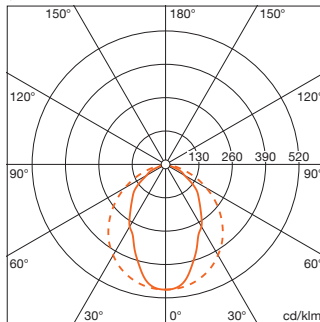


T16  
G5



4050737095561  
5LS16174Q

4 x T16-I 80W/840 (Amalgam)  
φ 27200 lm



η<sub>LB</sub> 93%   φ<sub>d</sub> 100%   φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1200	5938
L <sub>70</sub>	4737	13087
L <sub>65</sub>	7579	15499

UGR 21      24.5  
X 4H Y 8H ρ 70/50/20 S 0.25H

**T16 highbay luminaire | IP65 narrow distribution | with cover of PMMA**

Highbay luminaire for ceiling surface or suspended mounting

- with highly reflective (MIRO®) aluminum reflector, matt, narrow distribution; with transparent cover
- with OSRAM Industry ECG Multiwatt, for 1 or 2 circuits
- housing of sheet steel, galvanized, end caps of PBT, housing and end caps pure white (similar to RAL 9010); cover frame of galvanized steel; cover of PMMA

- protection rating: IP65
- insulation class: I
- impact resistance: IK08
- temperature range: T<sub>a</sub> ≤ 40°C
- service life (ECG): up to 100,000h depending on ambient temperature

OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps: for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

**Electrics**

Luminaire wired ready for connection, with one or two circuits depending on version:

- version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection terminal, max. 2.5mm<sup>2</sup> (3-pole + 2-pole for control signal)
- version for two circuits (with ECG):** with 4-pole connection terminal, max. 2.5mm<sup>2</sup>



No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.2	1.4	2.5	2.9	6.2	7.2
300 m <sup>2</sup>	1.7	2.0	3.5	3.9	8.7	9.9
500 m <sup>2</sup>	2.7	3.0	5.4	6.0	14	15
750 m <sup>2</sup>	3.9	4.2	7.7	8.4	19	21
1000 m <sup>2</sup>	5.0	5.4	10	11	25	27
1500 m <sup>2</sup>	7.3	7.7	15	15	37	39
2000 m <sup>2</sup>	9.5	10	19	20	48	50

Maintenance factor 0.8      Rh = Lh

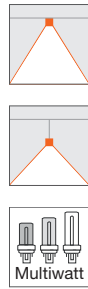
**Light source**

				Order no. OSRAM	Order no. Siteco
4x T16 35/49/80 W	G5	13.7	Multi	4050737095561	5LS16174Q
4x T16 35/49/80 W	G5	13.7	Multi DALI	4050737095592	5LS161D4Q
4x T16 35/49/80 W	G5	13.7	Multi 1...10V	4050737096018	5LS16164Q

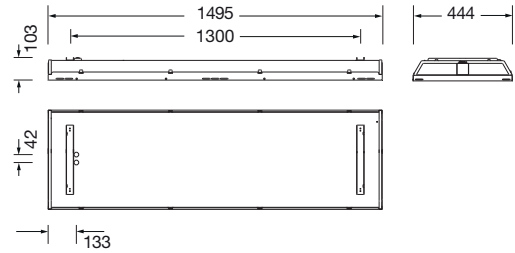
- please order mounting accessories separately
- please order lamps separately (system warranty in combination with selected lamps: OSRAM LUMILUX T5)

**Mandatory accessories (for details see page 10.22 ff.)**

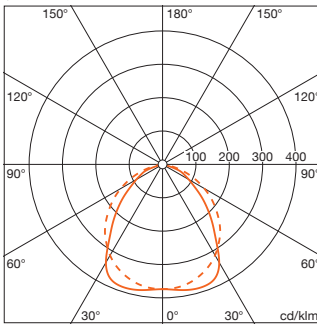
Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Y-wire suspension, suspension height 300...2000mm	set of 2	0.1	4050737093512	5LJ160002
Ceiling mounting set, suspension height 40mm	set of 2	0.4	4050737091662	5LJ160003



T16  
G5



4050737095622  
5LS16274Q  
4 x T16-I 80W/840 (Amalgam)  
φ 27200 lm



η<sub>LB</sub> 93.1% φ<sub>↓</sub> 100% φ<sub>↑</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	1168	5147
L <sub>70</sub>	6897	10561
L <sub>65</sub>	7806	12275

UGR 21.6 24.3  
X 4H Y 8H ρ 70/50/20 S 0.25H

**T16 highbay luminaire | IP65**  
**wide or extremely wide distribution | with cover of PMMA**

Highbay luminaire for ceiling surface or suspended mounting

- with highly reflective (MIRO®) aluminum reflector, matt, wide or extremely wide distribution via adjustment of socket; with transparent cover
- with OSRAM Industry ECG Multiwatt, for 1 or 2 circuits
- housing of sheet steel, galvanized, end caps of PBT, housing and end caps pure white (similar to RAL 9010); cover frame of galvanized steel; cover of PMMA

- protection rating: IP65
- insulation class: I
- impact resistance: IK08
- temperature range: T<sub>a</sub> ≤ 40°C
- service life (ECG): up to 100,000h depending on ambient temperature

OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps:  
for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

**Electrics**

Luminaire wired ready for connection, with one or two circuits depending on version:

- **version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection terminal, max. 2.5mm<sup>2</sup> (3-pole + 2-pole for control signal)
- **version for two circuits (with ECG):** with 4-pole connection terminal, max. 2.5mm<sup>2</sup>



**No. of luminaires in room**

Reflection factors	70/50/20					
	100		200		500	
Em(lx)	100	200	100	200	100	200
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.3	1.5	2.5	3.0	6.3	7.4
300 m <sup>2</sup>	1.8	2.0	3.5	4.0	8.8	10
500 m <sup>2</sup>	2.7	3.0	5.5	6.0	14	15
750 m <sup>2</sup>	3.9	4.2	7.8	8.5	20	21
1000 m <sup>2</sup>	5.1	5.4	10	11	25	27
1500 m <sup>2</sup>	7.3	7.8	15	16	37	39
2000 m <sup>2</sup>	9.6	10	19	20	48	50

Maintenance factor 0.8

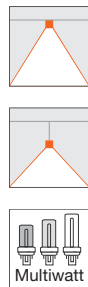
Rh = Lh

Light source				Order no. OSRAM	Order no. Siteco
4x T16 35/49/80 W	G5	13.8	Multi	4050737095622	5LS16274Q
4x T16 35/49/80 W	G5	13.8	Multi DALI	4050737095660	5LS162D4Q
4x T16 35/49/80 W	G5	13.8	Multi 1...10V	4050737096063	5LS16264Q

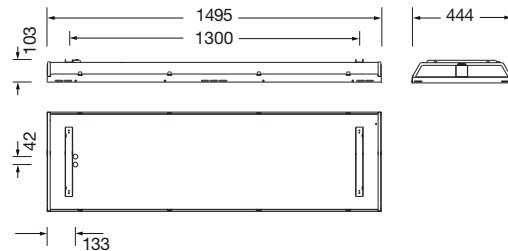
- please order mounting accessories separately
- please order lamps separately (system warranty in combination with selected lamps: OSRAM LUMILUX T5)

**Mandatory accessories (for details see page 10.22 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Y-wire suspension, suspension height 300...2000mm	set of 2	0.1	4050737093512	5LJ160002
Ceiling mounting set, suspension height 40mm	set of 2	0.4	4050737091662	5LJ160003

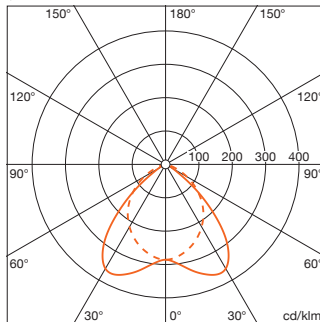


T16  
G5



4050737096100  
5LS16474Q

4 x T16-I 80W/840 (Amalgam)  
φ 27200 lm



η<sub>LB</sub> 70.2%   φ<sub>d</sub> 100%   φ<sub>t</sub> 0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	294	1886
L <sub>70</sub>	812	3885
L <sub>65</sub>	1458	5370

UGR 18.9   20.8  
X 4H   Y 8H   ρ 70/50/20   S 0.25H

**T16 highbay luminaire | IP65 | IP40 with ball protection wide distribution | with cover of PC**

Highbay luminaire for ceiling surface or suspended mounting  
 - with extruded aluminum louver, matt, wide distribution; with transparent cover  
 - with OSRAM Industry ECG Multiwatt, for 1 or 2 circuits  
 - housing of sheet steel, end caps of PBT, housing and end caps pure white (similar to RAL 9010); cover frame of galvanized steel; cover of PC

- protection rating: IP65
- protection rating with ball protection: IP40
- insulation class: I
- impact resistance: IK08
- temperature range: T<sub>a</sub> ≤ 40°C
- service life (ECG): up to 100,000h depending on ambient temperature
- ball-proof luminaire, suitable for tennis and squash courts

OSRAM system guarantee with use of selected OSRAM LUMILUX T5 lamps: for details see [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

**Electrics**

Luminaire wired ready for connection, with one or two circuits depending on version:

- **version for one circuit (with ECG DALI or ECG 1...10V):** with 5-pole connection terminal, max. 2.5mm<sup>2</sup> (3-pole + 2-pole for control signal)
- **version for two circuits (with ECG):** with 4-pole connection terminal, max. 2.5mm<sup>2</sup>



No. of luminaires in room	Reflection factors 70/50/20					
	100		200		500	
Em(lx)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.6	1.9	3.2	3.8	8.1	9.4
300 m <sup>2</sup>	2.3	2.6	4.5	5.1	11	13
500 m <sup>2</sup>	3.5	3.9	7.0	7.7	18	19
750 m <sup>2</sup>	5.1	5.5	10	11	25	27
1000 m <sup>2</sup>	6.6	7.0	13	14	33	35
1500 m <sup>2</sup>	9.6	10	19	20	48	51
2000 m <sup>2</sup>	13	13	25	26	63	66

Maintenance factor 0.8   Rh = Lh

Light source				Order no. OSRAM	Order no. Siteco
4x T16 35/49/80 W	G5	16.0	Multi	4050737096100	5LS16474Q
4x T16 35/49/80 W	G5	16.0	Multi DALI	4050737466996	5LS164D4Q

- please order mounting accessories separately
- please order lamps separately (system warranty in combination with selected lamps: OSRAM LUMILUX T5)

**Mandatory accessories (for details see page 10.22 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Y-chain suspension, suspension height 400mm	set of 2	0.5	4050737094304	5LJ160001
Y-wire suspension, suspension height 300...2000mm	set of 2	0.1	4050737093512	5LJ160002
Ceiling mounting set, suspension height 40mm	set of 2	0.4	4050737091662	5LJ160003



**T16 highbay luminaire mounting accessories**



**Ceiling mounting**

steel, galvanized | for suspending luminaire directly below ceiling | ceiling distance a = 40mm

Designation	PU	Order no. OSRAM	Order no. Siteco
Ceiling mounting	1 set	4050737091662	5LJ160003

- 1 set required per luminaire



**Y-wire suspension**

with height adjustment 300...2000mm | with closed loop on ceiling side; incl. hook on luminaire side with unhooking safeguard | wire: D = 1.2mm

Designation	PU	Order no. OSRAM	Order no. Siteco
Y-wire suspension	set of 2	4050737093512	5LJ160002

- 2 pieces required per luminaire
- with closed ceiling eyelet: 2 carabiners additionally required per luminaire



**Y-chain suspension**

link chain, galvanized; with turnbuckle for height compensation; with carabiner for hooking into luminaire and in closed ceiling eyelet | for suspending luminaire directly below ceiling (suspension height h = 400mm) or for higher suspension height (with supplementary chain)

Designation	PU	Order no. OSRAM	Order no. Siteco
Y-chain suspension	set of 2	4050737094304	5LJ160001

- 2 pieces required per luminaire
- with suspension height h > 540mm: please order chain in required length separately
- ceiling distance to lower luminaire edge



**Chain, galvanized**

for suspended mounting with Y-chain suspension (at suspension height: h > 400mm) or for suspended mounting with 4 ceiling fixing points | inner link size = 7x 40mm | load capacity: 56kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Chain	galvanized	4039806999856	5LY9005

- chain: per meter
- please order Y-chain suspension separately if required
- please order carabiners in required quantities separately





### Turnbuckle

for height adjustment with chain suspension | with 4 suspension points per luminaire | with 2 closed eyelets | galvanized steel, partly diecast aluminum | tensile force: 20kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Turnbuckle	1 set	4039806172914	5LY91401

- incl. 2 quick-release links
- please order Y-chain suspension separately if required
- please order carabiners in required quantities separately



### Carabiner, galvanized

for hooking chain into closed ceiling eyelet; with 4 suspension points: for hooking chain to luminaire and into closed ceiling eyelet | inner link size = 4x 40mm | load capacity: 20kg

Designation	PU	Order no. OSRAM	Order no. Siteco
Carabiner, galvanized	set of 20	4050737094724	5LJ160004

- with ceiling suspension points: 4 pieces on ceiling side + if necessary 4 pieces additionally required per luminaire on luminaire side
- please order Y-chain suspension separately if required
- please order chain in required length separately



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# Siteco® Louvre Luminaire M highbay luminaire



The Siteco® Louvre Luminaire M family features an especially flat construction as well as modern lighting technology for optimized light output ratios. Energy-efficient, low-maintenance T16 fluorescent lamps and high-quality louver inserts are used. With the impact-resistant polycarbonate cover, the Siteco® Louvre Luminaire M luminaires are suitable for lighting sports halls when the luminaire installation must also be ball-proof. The Siteco® Louvre Luminaire M luminaires can also be mounted in continuous rows with a rail as accessory.

## Features

- tested and certified according to the latest European standard: protection against flying balls according to EN 12 193 for direct ceiling mounting or suspended mounting (with special accessories approved for these luminaires)
- ball protection via transparent cover panel
- suitable for tennis and squash courts
- minimized construction height (60mm) allows use in compact spaces
- the safety catch as standard prevents unintentional opening of housing
- high level of visual comfort due to glare reduction via louver
- high vertical light component with white louver
- high luminous efficacy and economic operation due to T16 lamps
- separate switching possible
- maintenance-friendly: cover panel can be hinged down on both sides
- uninterrupted continuous luminaire rows with use of optional accessory rail

## Lighting technology

Luminaire with direct distribution, aluminum louver, with good glare reduction for high level of visual comfort, especially with sports where participants look upwards (such as basketball or gymnastics)

- aluminum ribbed cross-blade louver, matt anodized, direct distribution
- white louver; aluminum, pure white coated, direct distribution, for high vertical light component
- asymmetric light distribution via oblique suspension

## Electrics

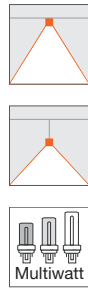
Luminaire wired ready for connection | with 5-pole connection terminal (ECG DALI: 5-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | knock-outs at face end for through-wiring of continuous rows (with special wiring sets or with single-core cable, e.g. H07-V)

## Housing

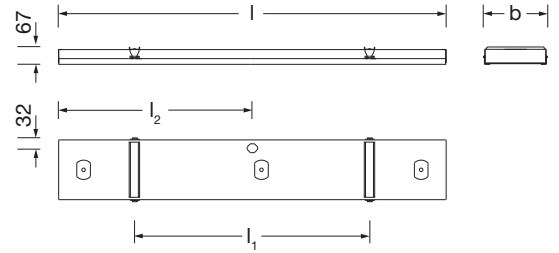
Housing of sheet steel, white aluminum (RAL 9006) | the louver is installed without tools and fixed into luminaire housing with catches; it is secured with safety retaining cords and earthed for protection even when hinged downwards | cover panel of PC, can be hinged down on both sides | luminaire has been designed as an individual luminaire for ceiling surface mounting, continuous rows (row arrangements of individual luminaires) are possible | suspended continuous rows (luminaires mounted face end to face end) possible via optional angle rails

## Mounting information

Protection against flying balls is only guaranteed with installation by qualified personnel and for suspended mounting only with use of trunking rails stipulated in the accessories. In particular, no open eyelets or hooks are to be used – only closed eyelets

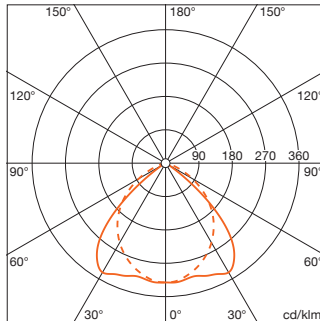


T16  
G5



4039806141439  
5LF28672X

2 x T16 80W/840  $\phi$  12300 lm



$\eta_{LB}$  68.8%  $\phi_d$  100%  $\phi_t$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	222	1857
L <sub>70</sub>	464	4463
L <sub>65</sub>	684	6565

UGR 18.9 21.2  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	3.6	4.2	7.2	8.4	18	21
300 m <sup>2</sup>	5.1	5.7	10	11	25	29
500 m <sup>2</sup>	7.9	8.7	16	17	40	43
750 m <sup>2</sup>	11	12	23	24	57	61
1000 m <sup>2</sup>	15	16	30	32	74	79
1500 m <sup>2</sup>	22	23	43	45	108	113
2000 m <sup>2</sup>	28	30	57	59	141	148

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M for T16 lamps with ribbed aluminum louvre, matt | with transparent cover of PC**

Luminaire for ceiling surface or suspended mounting  
 - with ribbed matt aluminum louvre, direct distribution  
 - with transparent cover  
 - with ECG

- housing of sheet steel, white aluminum (RAL 9006)
- cover of PC
- protection rating: IP20
- insulation class: I
- ball-proof luminaire, suitable for tennis and squash courts

• protection against flying balls is only guaranteed with installation by qualified personnel and with use of stipulated accessories



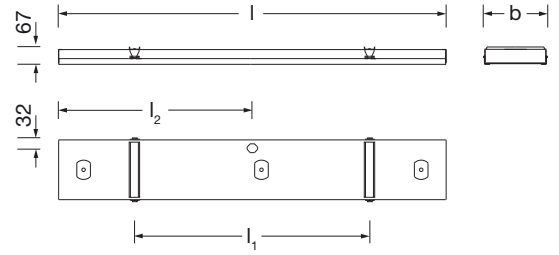
Light source

		$h$ [mm]	$l$ [mm]	$l_1$ [mm]	$l_2$ [mm]	$b$ [mm]			Order no. OSRAM	Order no. Siteco
2x T16 54 W	G5	58	1192	625	596	246	6.7	ECG	4039806141415	5LF28672J
3x T16 54 W	G5	58	1192	625	596	330	8.5	ECG	4039806141477	5LF28673J
3x T16 28/54 W	G5	58	1192	625	596	330	7.7	Multi DALI	4050737004723	5LF286D3H
2x T16 49 W	G5	58	1492	925	746	246	8.0	ECG	4039806141453	5LF28672F
2x T16 80 W	G5	58	1492	925	746	246	8.0	ECG	4039806141439	5LF28672X
2x T16 35/49/80 W	G5	58	1492	925	746	246	8.2	Multi DALI	4050737014128	5LF286D2Q
3x T16 49 W	G5	58	1492	925	746	330	8.7	ECG	4039806141514	5LF28673F
3x T16 80 W	G5	58	1492	925	746	330	10.1	ECG	4039806141491	5LF28673X
3x T16 35/49/80 W	G5	58	1492	925	746	330	9.3	Multi DALI	4050737004747	5LF286D3Q



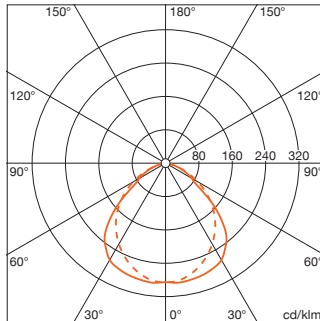


T16  
G5



4039806141538  
5LF28772X

2 x T16 80W/840  $\phi$  12300 lm



$\eta_{LB}$  67.9%  $\phi_{\downarrow}$  100%  $\phi_{\uparrow}$  0%

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2923	3295
L <sub>70</sub>	5709	6165
L <sub>65</sub>	6747	7848

UGR 21.8 22.3  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors	70/50/20		200		500	
	100	200	100	200	100	200
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	3.8	4.5	7.7	9.0	19	23
300 m <sup>2</sup>	5.3	6.1	11	12	27	30
500 m <sup>2</sup>	8.3	9.2	17	18	41	46
750 m <sup>2</sup>	12	13	24	26	59	64
1000 m <sup>2</sup>	15	17	31	33	77	83
1500 m <sup>2</sup>	22	24	45	47	111	118
2000 m <sup>2</sup>	29	31	58	61	146	153

Maintenance factor 0.8

Rh = Lh

**Siteco® Louvre Luminaire M for T16 lamps  
with white louvre | with transparent cover of PC**

- Luminaire for ceiling surface or suspended mounting
- with white louvre, direct distribution
- with transparent cover
- with ECG
- housing of sheet steel, white aluminum (RAL 9006)

- cover of PC
- protection rating: IP20
- insulation class: I
- ball-proof luminaire, suitable for tennis and squash courts

• protection against flying balls is only guaranteed with installation by qualified personnel and with use of stipulated accessories



**Light source**

		$h$ [mm]	$l$ [mm]	$l_1$ [mm]	$l_2$ [mm]	$b$ [mm]			Order no. OSRAM	Order no. Siteco
2x T16 54 W	G5	58	1192	625	596	246	6.1	ECG	4039806141552	5LF28772J
3x T16 54 W	G5	58	1192	625	596	330	8.5	ECG	4039806141590	5LF28773J
2x T16 49 W	G5	58	1492	925	746	246	7.4	ECG	4039806141576	5LF28772F
2x T16 80 W	G5	58	1492	925	746	246	8.5	ECG	4039806141538	5LF28772X
2x T16 35/49/80 W	G5	58	1492	925	746	246	7.7	Multi DALI	4050737023328	5LF287D2Q
3x T16 49 W	G5	58	1492	925	746	330	9.2	ECG	4039806141637	5LF28773F
3x T16 80 W	G5	58	1492	925	746	330	10.3	ECG	4039806141613	5LF28773X
3x T16 35/49/80 W	G5	58	1492	925	746	330	10.5	Multi DALI	4050737020402	5LF287D3Q

**Siteco® Louvre Luminaire M electrical accessories**



**Through-wiring set**

for through-wiring from terminal of one luminaire to terminal of adjacent luminaire (seamless continuous row arrangement, luminaires mounted end to end)

Designation	Order no. OSRAM	Order no. Siteco
Through-wiring 28/54W		
3x 1.5mm <sup>2</sup>	4039806167583	5LY9115
5x 1.5mm <sup>2</sup>	4039806167637	5LY9117
Through-wiring 35/49/80W		
3x 1.5mm <sup>2</sup>	4039806167606	5LY9116
5x 1.5mm <sup>2</sup>	4039806167651	5LY9118

- please order cable gland separately
- for 5-pole through-wiring, a 2-pole supplementary terminal (L2, L3) is required per luminaire



**Cable gland**

for cable entry at the end (also to protect the wiring in continuous row arrangements and to align luminaires)

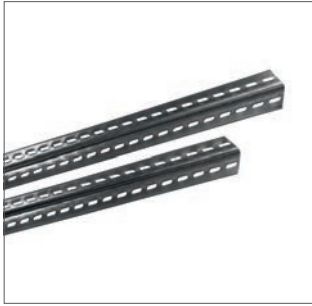
Designation	Order no. OSRAM	Order no. Siteco
Cable gland	4039806369291	5LY9183

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**Siteco® Louvre Luminaire M mounting accessories**



**Trunking rail**

for horizontal or oblique suspension of sports hall luminaires as continuous rows (luminaires mounted end to end) | perforated angled rail, galvanized steel, l = 3000mm (oblique suspension via differing chain lengths)

Designation	PU	Order no. OSRAM	Order no. Siteco
Trunking rails <sup>1)</sup>	set of 2	4039806141699	5LF90920X
Connector for trunking rails <sup>2)</sup>	set of 2	4039806141651	5LF90910XV
Fixing screws <sup>3)</sup>	set of 4	4039806141675	5LF9084

- 1) double arrangement above luminaires
- 2) incl. mounting material
- 3) 4 pieces required per luminaire



**Chain, galvanized**

inner link size 7 x 40mm | load capacity: 56kg

**Quick-release link, galvanized**

inner link size 8 x 20mm | load capacity: 50kg

Designation		Order no. OSRAM	Order no. Siteco
Chain	galvanized	4039806999856	5LY9005
Quick-release link	galvanized	4039806176011	5LY9113

- chain: per meter
- please order required number of quick-release links separately



**Turnbuckle**

for height adjustment with chain suspension | with 2 closed eyelets | galvanized steel, partly diecast aluminum | tensile force: 20kg

Designation	Order no. OSRAM	Order no. Siteco
Turnbuckle	4039806172914	5LY91401

- incl. 2 quick-release links

Protection against flying balls in accordance with EN 12193 for suspended mounting of the sports hall luminaire is only guaranteed with use of the specially approved accessories and when the following conditions are met:

**Single arrangements of luminaires:** chain secured directly to luminaire housing with quick-release links (4-point suspension)

**Luminaires installed as continuous rows (luminaires mounted end to end):** luminaires immovably secured to mounting rails (perforated angled rails) by means of screws. Rails suspended from chains with quick-release links.

When installing, open hooks should never be used. Always use only closed eyelets.

The number of mounting points with continuous rows results from the total weight of the whole row (rail and luminaires) and the load capacity of the suspension. The maximum permissible distance between two mounting points and the maximum permissible length of the unsupported rail end must not be exceeded.

- maximum permissible length between two mounting points:  $l_{max} = 1.55m$
- maximum permissible length of unsupported rail end:  $l_{a_{max}} = 0.77m$







# NJ600



The highbay reflector luminaires of the NJ600 family consist of three components: an upper luminaire part, a specular reflector and an optical enclosure. These three modules form a modular system that meets a variety of lighting demands with use of various optical components. Prismatic reflectors with decorative ceiling illumination, specular aluminum reflectors and faceted aluminum reflectors are available. These enable light distribution from narrow to extremely wide distribution with ceiling illumination. In addition, use of a cover (for aluminum reflectors) increases the protection rating from IP20 to IP65 (with ball protection and IP40 cover).

The highbay luminaires are designed for various lamp configurations. With individual configurations they can be used for lighting tasks in high halls, sports halls, highbay racking warehouses and in rooms with extreme temperatures.

## Features

- conforms with the high demands of the automotive industry ("LABS-free")
- partly suitable for rooms with temperatures from -25°C to +55°C
- modern industrial design
- housing of extruded aluminum
- ignition timer possible
- simple luminaire mounting (pre-fitted connection cable and either one or two mounting eyelets)
- simple reflector mounting (keyholes)

## Lighting technology

- LexaLite® prismatic reflector: of translucent PMMA, extremely wide distribution with decorative ceiling illumination, for high vertical illuminance levels
- Corridor reflector: LexaLite® prismatic reflector of PMMA (translucent) with aluminum reflector inserts, for linear light distribution with good uniformity and high vertical illuminance levels
- aluminum soft reflector: narrow or extremely wide distribution
- aluminum soft-faceted reflector: with decorative circular facets, extremely wide distribution

Accessories for LexaLite® prismatic reflector:

- decorative lenses for especially diffuse light distribution

Accessories for aluminum reflector:

- cover panel with sealing for IP65

## Electrics

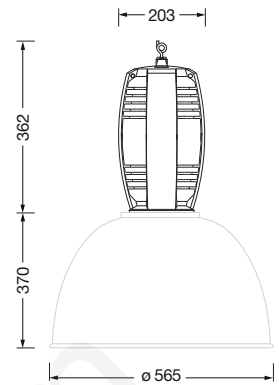
Luminaire wired ready for connection, completely pre-assembled with 3x 1.0mm<sup>2</sup> connection cable, l= 0.9m (free ends with wire end sleeves) | with LLCG, parallel pf-corrected | depending on version with hot re-ignition, ignition timer or additional socket | all components required for operation are located in housing (exception: 1000W version) | 1000W version (5NJ60031AN) for external CG block (with ballast and compensation capacitor); please order 1000W CG block separately

## Housing

Housing of diecast aluminum with round, compact design, powder-coated Siteco® metallic gray (DB 702S) | with suspension eyelet, for 1 or 2-point suspension | reflector of aluminum or cover of PMMA (LexaLite® prismatic reflector) | cover of toughened safety glass with silicone-free sealing (exception: 1000W version) or of PMMA (prismatic lens) | all electrical components integrated within housing (exception: 1000W version without CG; separate ballast block with 4-point mounting (for diameter 8mm) for fixing to wall or ceiling (please order upper part, reflector and cover separately) | with 1000W: please order CG block separately)

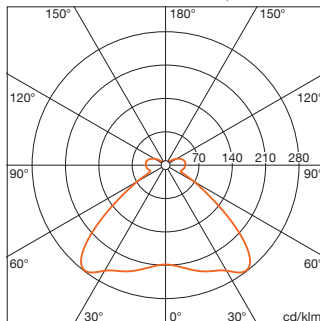
## Mounting information

The NJ600 reflector luminaires in versions 150W...400W in combination with aluminum reflector, cover and ball protection are ball-impact-resistant (exception: versions for hot re-ignition). Protection against flying balls is only guaranteed with installation and mounting by qualified personnel. In particular, no open eyelets or hooks are to be used – only closed eyelets.



4039806526281 + 4039806209788  
5NJ60031FNA + 5NJ311000

1 x HSE-MF 400W/220 LL  $\phi$  56500 lm



$\eta_{LB}$  93.5%  
 $I_{max}$  275 cd/klm at  $\gamma$  35°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	12979
L <sub>70</sub>	9562
L <sub>65</sub>	10270

$\alpha_{50\%}$  2 x 52.8°  
 $\alpha_{10\%}$  2 x 119.7°

UGR 25 25  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
4	10.54	739	491
6	15.81	328	218
8	21.08	185	123
10	26.35	118	79
12	31.62	82	55

No. of luminaires in room		Reflection factors 70/50/20			
$E_m(lx)$		100	200	500	
Lh(m)		8.0	10.0	8.0	10.0
200 m <sup>2</sup>	0.8	1.0	1.6	1.9	4.1
300 m <sup>2</sup>	1.1	1.2	2.2	2.5	5.5
500 m <sup>2</sup>	1.6	1.8	3.3	3.6	8.1
750 m <sup>2</sup>	2.3	2.5	4.6	5.0	11
1000 m <sup>2</sup>	2.9	3.1	5.8	6.3	15
1500 m <sup>2</sup>	4.1	4.4	8.2	8.8	21
2000 m <sup>2</sup>	5.4	5.7	11	11	27

Maintenance factor 0.8 Rh = Lh + 0.5 m

**NJ600 reflector luminaire with LexaLite® prismatic reflector wide distribution with ceiling illumination**

Reflector luminaire for suspended mounting  
 - with LexaLite® prismatic reflector, translucent, wide distribution with decorative ceiling illumination  
 - with LLCG, parallel pf-corrected

- housing of diecast aluminum, Siteco® metallic gray (DB 702S); reflector of PMMA
- protection rating: IP20
- insulation class: I
- incl. pre-assembled connection cable, l = 0.9m

- temperature areas (according to specification):  
 Version for 1x HIE/HSE  $\leq$  250W: T<sub>a</sub> = -25...+25°C  
 Version for 1x HIE/HSE 400W: T<sub>a</sub> = -25...+35°C

**Information about light sources**

Luminaires with prismatic reflectors are always classified as "open luminaires" (even when operated with prismatic lenses)  
 • with use of "HIE lamps  $\geq$  250W", these lamps must be "approved for open luminaires" (specification of lamp manufacturer)

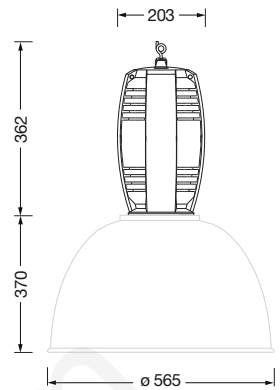


Light source			Order no. OSRAM	Order no. Siteco
Luminaire upper part				
1x HIE   HSE 150 W	E40	7.8	4039806526090	5NJ60031DN
1x HIE   HSE 250 W	E40	10.1	4039806525819	5NJ60031EN
1x HIE   HSE 400 W	E40	11.5	4039806526281	5NJ60031FNA

- please order upper part and reflector separately
- please order prismatic lens separately if required
- for HIE 150W lamps, an E40/E27 socket adapter is additionally required depending on lamp manufacturer (please order socket adapter separately if required)

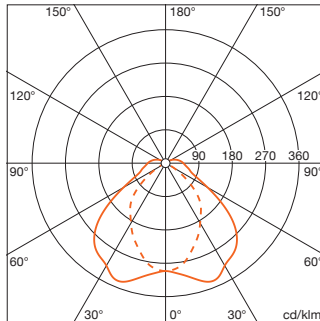
**Accessories (for details see page 10.40 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, PMMA, clear prismatic structure, wide distribution, $\phi$ = 565mm	2.0	4039806209788	5NJ311000
Flat prismatic lens, PMMA, $\phi$ = 565mm	1.4	4039806180933	5NJ14301XC
E40/E27 socket adapter	0.1	4039806221223	5NA59000XF



4039806526281 + 4039806209801  
5NJ60031FNA + 5NJ316000

1 x HSE-MF 400W/220 LL  $\phi$  56500 lm



$\eta_{LB}$  83.8%  
 $I_{max}$  340 cd/klm at  $\gamma$  20°

	Luminance values (cd/m²)	
	C 0/180	C 90/270
L <sub>80</sub>	19403	951
L <sub>70</sub>	20720	1530
L <sub>65</sub>	24557	3026

$\alpha_{50\%}$  2 x 56.2° 2 x 40.4°  
 $\alpha_{10\%}$  2 x 104.4° 2 x 59.4°

UGR 28.6 22.1  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
4	11.95	1039	588
6	17.93	462	261
8	23.90	260	147
10	29.88	166	94
12	35.85	115	65

No. of luminaires in room						
Reflection factors 70/50/20						
$E_m$ (lx)	100		200		500	
Lh(m)	8.0	10.0	8.0	10.0	8.0	10.0
200 m²	0.9	1.0	1.7	2.0	4.3	5.0
300 m²	1.1	1.3	2.3	2.6	5.7	6.6
500 m²	1.7	1.9	3.4	3.8	8.6	9.5
750 m²	2.4	2.6	4.8	5.2	12	13
1000 m²	3.1	3.3	6.2	6.6	15	17
1500 m²	4.4	4.7	8.8	9.3	22	23
2000 m²	5.7	6.0	11	12	28	30

Maintenance factor 0.8 Rh = Lh + 0.5 m

**NJ600 reflector luminaire with LexaLite® prismatic reflector linear light distribution for highbay racking**

- Reflector luminaire for suspended mounting
- with LexaLite® prismatic aisle reflector, translucent, linear wide distribution with decorative ceiling illumination
- with LLCG, parallel pf-corrected

- housing of diecast aluminum, Siteco® metallic gray (DB 702S); reflector of PMMA with specular aluminum inserts
- protection rating: IP20
- insulation class: I
- incl. pre-assembled connection cable, l = 0.9m

- temperature areas (according to specification):  
Version for 1x HIE/HSE 250W: T<sub>a</sub> = -25...+25°C  
Version for 1x HIE/HSE 400W: T<sub>a</sub> = -25...+35°C

**Information about light sources**

Luminaires with prismatic reflectors are always classified as "open luminaires" (even when operated with prismatic lenses)  
with use of "HIE lamps  $\geq$  250W", these lamps must be "approved for open luminaires" (specification of lamp manufacturer)

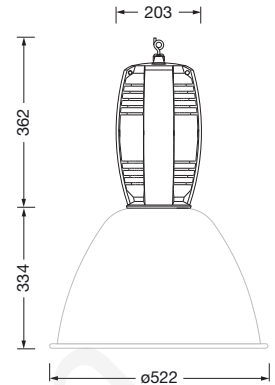
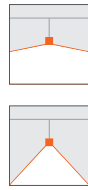


Light source			Order no. OSRAM	Order no. Siteco
Luminaire upper part				
1x HIE I HSE 250 W	E40	10.1	4039806525819	5NJ60031EN
1x HIE I HSE 400 W	E40	11.5	4039806526281	5NJ60031FNA

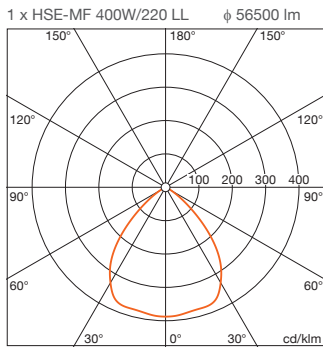
- please order upper part and reflector separately
- please order prismatic lens separately if required

**Accessories (for details see page 10.40 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Corridor reflector, PMMA, clear prismatic structure, wide distribution, $\phi$ = 565mm	4.7	4039806209801	5NJ316000



4039806523952 + 4039806210432  
+ 4039806213259  
5NJ60031FN + 5NJ331000 +  
5NJ300000



$\eta_{LB}$  67.4%  
 $I_{max}$  388 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	1044
L <sub>70</sub>	3157
L <sub>65</sub>	5767

$\alpha_{50\%}$  2 x 43.0°  
 $\alpha_{10\%}$  2 x 56.6°

UGR 23.6 23.6  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
4	7.46	1369	889
6	11.19	608	395
8	14.92	342	222
10	18.65	219	142
12	22.38	152	99

No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100			200			500		
	Lh(m)	8.0	10.0	8.0	10.0	8.0	10.0	8.0	10.0
200 m <sup>2</sup>	0.9	1.0	1.7	2.0	4.3	4.9			
300 m <sup>2</sup>	1.2	1.3	2.4	2.7	6.0	6.7			
500 m <sup>2</sup>	1.8	2.0	3.7	4.0	9.2	10.0			
750 m <sup>2</sup>	2.6	2.8	5.3	5.6	13	14			
1000 m <sup>2</sup>	3.4	3.6	6.8	7.2	17	18			
1500 m <sup>2</sup>	4.9	5.1	9.8	10	25	26			
2000 m <sup>2</sup>	6.4	6.7	13	13	32	33			

Maintenance factor 0.8 Rh = Lh

**NJ600 reflector luminaire with aluminum reflector narrow or wide distribution**

- Reflector luminaire for suspended mounting
- with aluminum soft reflector, optionally narrow or wide distribution
- with LLCG, parallel pf-corrected
- housing of diecast aluminum, Siteco® metallic gray (DB 702S)
- protection rating: IP20 (IP65 with cover, IP40 with cover and ball protection)
- insulation class: I
- ball-proof luminaire, suitable for tennis and squash courts
- incl. pre-assembled connection cable, l = 0.9m

- protection against flying balls is only guaranteed with correct installation and use of cover panel with ball protection
- temperature areas (according to specification):  
Version for 1x HIE/HSE 150W: T<sub>a</sub> = -25...+55°C  
Version for 1x HIE/HSE 250W: T<sub>a</sub> = -25...+55°C (with cover: T<sub>a</sub> max = 50°C)  
Version for 1x HIE/HSE 400W: T<sub>a</sub> = -25...+40°C (with cover: T<sub>a</sub> max = 35°C)

**Information about light sources**

Luminaires with aluminum reflectors operated without cover panel (of toughened safety glass) are always classified as "open luminaires"  
with use of "HIE lamps  $\geq$  250W", these lamps must be "approved for open luminaires" (specification of lamp manufacturer)



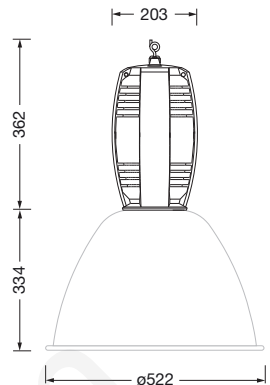
**Light source**

Luminaire upper part	Light source	Height (m)	Order no. OSRAM	Order no. Siteco
1x HIE   HSE 150 W	E40	7.8	4039806526090	5NJ60031DN
1x HIE   HSE 250 W	E40	10.1	4039806525819	5NJ60031EN
1x HIE   HSE 400 W	E40	10.9	4039806523952	5NJ60031FN

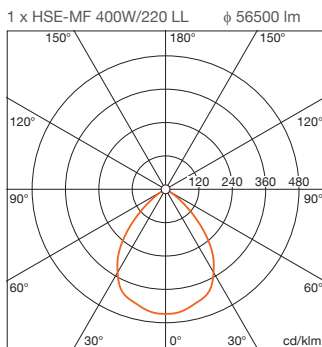
- please order upper part and aluminum reflector separately
- please order cover panel or ball protection for cover panel separately
- for HIE 150W lamps, an E40/E27 socket adapter is additionally required depending on lamp manufacturer (please order socket adapter separately if required)

**Accessories (for details see page 10.40 ff.)**

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, soft aluminum, narrow distribution, $\phi$ = 522mm		0.9	4039806210456	5NJ332000
Reflector, aluminum, soft aluminum, wide distribution, $\phi$ = 522mm		1.0	4039806210432	5NJ331000
Cover, toughened safety glass, flat, transparent, $\phi$ =522mm		2.4	4039806213259	5NJ300000
Ball protection	set of 3	0.1	4039806623546	5NJ30000XB
E40/E27 socket adapter		0.1	4039806221223	5NA59000XF



4039806523952 + 4039806225474  
+ 4039806213259  
5NJ60031FN + 5NJ333000 +  
5NJ300000



$\eta_{LB}$  70.6%  
 $I_{max}$  448 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

	C 0/180
L <sub>80</sub>	18
L <sub>70</sub>	512
L <sub>65</sub>	3633

$\alpha_{50\%}$  2 x 41.1°  
 $\alpha_{10\%}$  2 x 55.7°

UGR 23.5 23.5  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
4	6.98	1582	1025
6	10.47	703	455
8	13.96	396	256
10	17.45	253	164
12	20.94	176	114

No. of luminaires in room  
Reflection factors 70/50/20

$E_m(lx)$	100	200	500
Lh(m)	8.0	10.0	8.0
200 m <sup>2</sup>	0.8	0.9	1.6
300 m <sup>2</sup>	1.1	1.3	2.3
500 m <sup>2</sup>	1.7	1.9	3.5
750 m <sup>2</sup>	2.5	2.7	5.0
1000 m <sup>2</sup>	3.2	3.4	6.5
1500 m <sup>2</sup>	4.7	4.9	9.4
2000 m <sup>2</sup>	6.1	6.3	12

Maintenance factor 0.8 Rh = Lh

### NJ600 reflector luminaire with aluminum faceted reflector wide distribution

- Reflector luminaire for suspended mounting
- with aluminum soft faceted reflector, wide distribution
- with LLCG, parallel pf-corrected
- housing of diecast aluminum, Siteco® metallic gray (DB 702S)
- protection rating: IP20 (IP65 with cover, IP40 with cover and ball protection)
- insulation class: I

- ball-proof luminaire, suitable for tennis and squash courts
- incl. pre-assembled connection cable, l = 0.9m
- protection against flying balls is only guaranteed with correct installation and use of cover panel with ball protection
- temperature areas (according to specification):  
Version for 1x HIE/HSE 150W: T<sub>a</sub> = -25...+55°C  
Version for 1x HIE/HSE 250W: T<sub>a</sub> = -25...+55°C (with cover: T<sub>a</sub> max = 50°C)  
Version for 1x HIE/HSE 400W: T<sub>a</sub> = -25...+40°C (with cover: T<sub>a</sub> max = 35°C)

#### Information about light sources

Luminaires with aluminum reflectors operated without cover panel (of toughened safety glass) are always classified as "open luminaires"

- with use of "HIE lamps  $\geq$  250W", these lamps must be "approved for open luminaires" (specification of lamp manufacturer)



#### Light source

Luminaire upper part

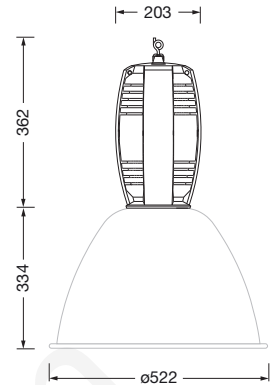
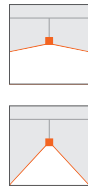
Light source	OSRAM	Siteco
1x HIE I HSE 150 W	E40 7.8	4039806526090 5NJ60031DN
1x HIE I HSE 250 W	E40 10.1	4039806525819 5NJ60031EN
1x HIE I HSE 400 W	E40 10.9	4039806523952 5NJ60031FN

- please order upper part and aluminum reflector separately
- please order cover panel or ball protection for cover panel separately
- for HIE 150W lamps, an E40/E27 socket adapter is additionally required depending on lamp manufacturer (please order socket adapter separately if required)

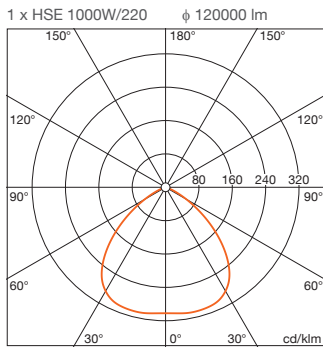
#### Accessories (for details see page 10.40 ff.)

Designation	PU	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, aluminum, soft aluminum, faceted, wide distribution, $\phi$ = 522mm		1.1	4039806225474	5NJ333000
Cover, toughened safety glass, flat, transparent, $\phi$ =522mm		2.4	4039806213259	5NJ300000
Ball protection	set of 3	0.1	403980623546	5NJ300000XB
E40/E27 socket adapter		0.1	4039806221223	5NA59000XF





4039806526274 + 4039806210432  
 + 4039806213686  
 5NJ60031AN + 5NJ331000 +  
 5NJ30000T



$\eta_{Lb}$  69%  
 $I_{max}$  306 cd/klm at  $\gamma$  15°

Luminaire values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 7466
L <sub>70</sub> 22911
L <sub>65</sub> 43969

$\alpha_{50\%}$  2 x 49.0°  
 $\alpha_{10\%}$  2 x 64.6°

UGR 28.3 28.3  
 X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
6	13.80	1007	607
8	18.41	566	342
10	23.01	362	219
12	27.61	252	152
14	32.21	185	112

**NJ600 reflector luminaire with aluminum reflector narrow or wide distribution | 1000W**

- Reflector luminaire for suspended mounting
- with aluminum soft reflector, optionally narrow or wide distribution
- for separate CG unit
- housing of diecast aluminum, Siteco® metallic gray (DB 702S)
- protection rating: IP20 (IP65 with cover, IP40 with cover and ball protection)
- protection rating (CG unit): IP54

- insulation class: I
- ball-proof luminaire, suitable for tennis and squash courts
- incl. pre-mounted connection cable, l = 0.9m; can be lengthened on site

• protection against flying balls is only guaranteed with correct installation and use of cover panel with ball protection

**Information about light sources**

Luminaires with aluminum reflectors operated without cover panel (of toughened safety glass) are always classified as "open luminaires"

• with use of "HIE lamps  $\geq$  250W", these lamps must be "approved for open luminaires" (specification of lamp manufacturer)



**Light source**



Order no.  
**OSRAM**

Order no.  
**Siteco**

Luminaire upper part

1x HIE   HSE 1000 W	E40	5.3	4039806526274	5NJ60031AN
---------------------	-----	-----	---------------	------------

Control gear unit, compl.

1x HI . 1000W	15.5	4039806848482	5NA77921VRO
1x HS . 1000W	15.6	4039806848505	5NA77921VR11

- please order upper part and aluminum reflector separately
- please order CG unit individually
- please order cover panel or ball protection for cover panel separately

**Accessories (for details see page 10.40 ff.)**

Designation	PU	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Reflector, aluminum, soft aluminum, narrow distribution, $\phi$ = 522mm		0.9	4039806210456	5NJ332000
Reflector, aluminum, soft aluminum, wide distribution, $\phi$ = 522mm		1.0	4039806210432	5NJ331000
Cover, toughened safety glass, flat, transparent, $\phi$ =522mm		2.4	4039806213686	5NJ30000T
Ball protection	set of 3	0.1	4039806623546	5NJ30000XB

No. of luminaires in room  
 Reflection factors 70/50/20

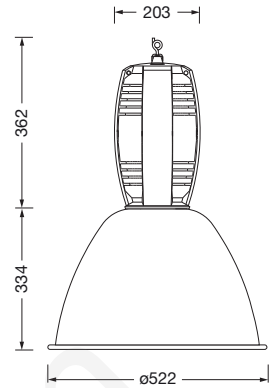
Em(lx)	100			200			500		
	Lh(m)	10.0	14.0	10.0	14.0	10.0	14.0	10.0	14.0
200 m <sup>2</sup>	0.5	0.7	1.0	1.3	2.5	3.3			
300 m <sup>2</sup>	0.7	0.8	1.3	1.7	3.3	4.2			
500 m <sup>2</sup>	1.0	1.2	1.9	2.3	4.9	5.9			
750 m <sup>2</sup>	1.3	1.6	2.7	3.1	6.7	7.8			
1000 m <sup>2</sup>	1.7	2.0	3.4	3.9	8.6	9.8			
1500 m <sup>2</sup>	2.4	2.7	4.9	5.4	12	14			
2000 m <sup>2</sup>	3.2	3.5	6.3	6.9	16	17			

Maintenance factor 0.8 R<sub>h</sub> = L<sub>h</sub>



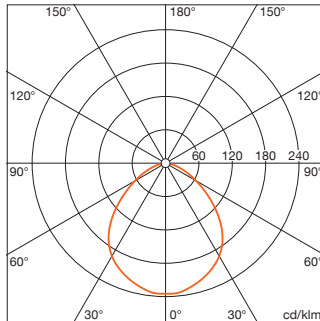


HIT-DE  
Fc2



403980655960  
5NJ63731LNH

1 x HIT-DE-h45 400W/960  $\phi$  35000 lm



$\eta_{LB}$  54.6%  
 $I_{max}$  235 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180  
L<sub>80</sub> 11254  
L<sub>70</sub> 17357  
L<sub>65</sub> 20471

$\alpha_{50\%}$  2 x 48.3°  
 $\alpha_{10\%}$  2 x 73.3°

UGR 25.9 25.9  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
4	8.98	514	292
6	13.47	228	130
8	17.96	128	73
10	22.45	82	47
12	26.94	57	32

No. of luminaires in room

Reflection factors 70/50/20

$E_m$ (lx)	100		200		500	
	8.0	10.0	8.0	10.0	8.0	10.0
200 m <sup>2</sup>	2.0	2.3	4.0	4.6	9.9	12
300 m <sup>2</sup>	2.7	3.1	5.4	6.1	13	15
500 m <sup>2</sup>	4.1	4.5	8.1	9.0	20	22
750 m <sup>2</sup>	5.7	6.2	11	12	28	31
1000 m <sup>2</sup>	7.3	7.8	15	16	37	39
1500 m <sup>2</sup>	10	11	21	22	52	55
2000 m <sup>2</sup>	14	14	27	29	68	71

Maintenance factor 0.8

$R_h = L_h$

### NJ600 reflector luminaire with aluminum reflector wide distribution | with hot re-ignition

Reflector luminaire for suspended mounting  
 - with aluminum soft reflector, wide distribution; with frosted cover panel  
 - with LLCG, parallel pf-corrected, with electronic hot re-ignition  
 - housing of diecast aluminum, Siteco® metallic gray (DB 702S); cover panel of toughened safety glass (ESG)

- protection rating: IP65
- insulation class: I
- complete luminaire: including upper part, aluminum reflector and cover panel
- incl. pre-assembled connection cable, l = 0.9m

#### Electronic hot re-ignition:

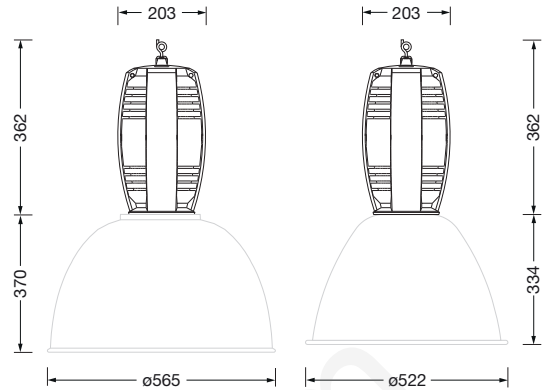
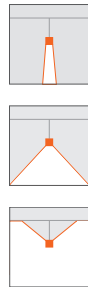
- hot re-ignition with electronic function and lamp monitoring
- safety load disconnection with relamping (all components integrated in luminaire housing)



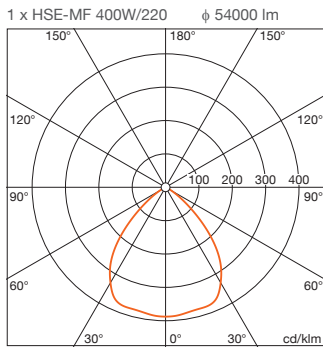
#### Light source

			Order no. OSRAM	Order no. Siteco
1x HIT-DE 250 W	Fc2	11.4	4039806555953	5NJ63731KNH
1x HIT-DE 400 W	Fc2	19.4	4039806555960	5NJ63731LNH

- complete luminaire: including upper part, aluminum reflector (5NJ331000) and cover panel



4039806539427 + 4039806210432 + 4039806213259  
 5NJ60031FNT + 5NJ331000 + 5NJ300000



$\eta_{Lb}$  67.4%  
 $I_{max}$  388 cd/klm at  $\gamma$  0°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 998
L <sub>70</sub> 3018
L <sub>65</sub> 5512

$\alpha_{50\%}$  2 x 43.0°  
 $\alpha_{10\%}$  2 x 56.6°

UGR 23.4 23.4  
 X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room	Reflection factors 70/50/20				
	100		200		500
Em(lx)	100	200	100	200	500
Lh(m)	8.0	10.0	8.0	10.0	8.0
200 m <sup>2</sup>	0.9	1.0	1.8	2.1	4.5
300 m <sup>2</sup>	1.3	1.4	2.5	2.8	6.3
500 m <sup>2</sup>	1.9	2.1	3.9	4.2	9.6
750 m <sup>2</sup>	2.8	2.9	5.5	5.9	14
1000 m <sup>2</sup>	3.6	3.8	7.1	7.5	18
1500 m <sup>2</sup>	5.2	5.4	10	11	26
2000 m <sup>2</sup>	6.7	7.0	13	14	34

Maintenance factor 0.8 Rh = Lh

**NJ600 reflector luminaire with LexaLite® prismatic reflector or aluminum reflector with ignition timer**

Reflector luminaire for suspended mounting

- with LexaLite® prismatic reflector, translucent, wide distribution with decorative ceiling illumination; aluminum soft reflector, narrow or wide distribution, or aluminum soft faceted reflector, wide distribution
- with LLCG, parallel pf-corrected and electronic ignition timer

- housing of diecast aluminum, Siteco® metallic gray (DB 702S); reflector of PMMA
- protection rating (LexaLite® prismatic reflector with prism lens): IP20
- protection rating (aluminum reflector with cover panel): IP65
- insulation class: I
- incl. pre-assembled connection cable, l = 0.9m

**Electronic ignition timer:**

- the dark phase during cooling down and ignition of the high-pressure lamp after mains failure or when switching on is bridged with a high-voltage tungsten halogen lamp
- safety load disconnection with relamping

**Information about light sources**

Luminaires with aluminum reflectors operated without cover panel (of toughened safety glass) are always classified as "open luminaires"  
 Luminaires with prismatic reflectors are always classified as "open luminaires" (even when operated with prismatic lenses)  
 • with use of "HIE lamps  $\geq$  250W", these lamps must be "approved for open luminaires" (specification of lamp manufacturer)

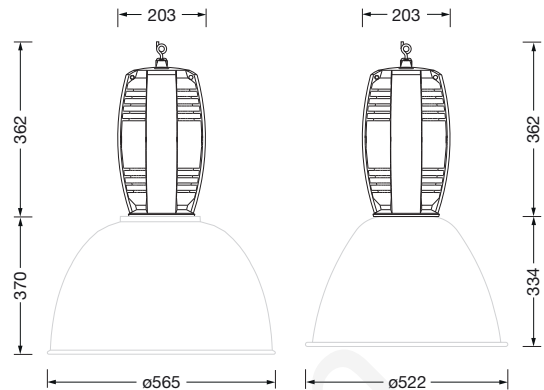
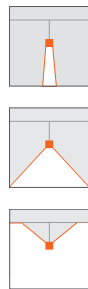


Light source	Light source 2	Order no. OSRAM	Order no. Siteco
Luminaire upper part			
1x HIE   HSE 250 W E40	1x QT32 max. 150W E27 9.8	4039806539342	5NJ60031ENT
1x HIE   HSE 400 W E40	1x QT32 max. 150W E27 12.0	4039806539427	5NJ60031FNT

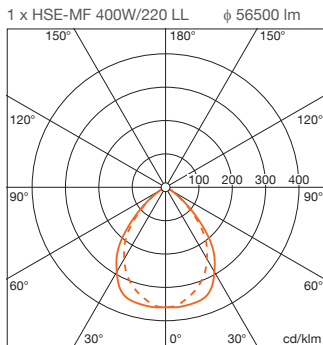
- combination of LexaLite® prismatic reflector with upper part for HIE/HSE 400W is not permissible
- please order upper part and reflector separately
- please order cover panel or prismatic lens separately
- please order high-voltage tungsten halogen lamp QT32 (E27/max. 150W) separately

**Accessories (for details see page 10.40 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, PMMA, clear prismatic structure, wide distribution, $\phi$ = 565mm	2.0	4039806209788	5NJ311000
Reflector, aluminum, soft aluminum, narrow distribution, $\phi$ = 522mm	0.9	4039806210456	5NJ332000
Reflector, aluminum, soft aluminum, wide distribution, $\phi$ = 522mm	1.0	4039806210432	5NJ331000
Reflector, aluminum, soft aluminum, faceted, wide distribution, $\phi$ = 522mm	1.1	4039806225474	5NJ333000
Flat prismatic lens, PMMA, $\phi$ = 565mm	1.4	4039806180933	5NJ14301XC
Cover, toughened safety glass, flat, transparent, $\phi$ =522mm	2.4	4039806213259	5NJ300000



4039806555816 + 4039806210432 + 4039806213259  
 5NJ60031FN03 + 5NJ331000 + 5NJ300000



$\eta_{Lb}$  59.2%  
 $I_{max}$  361 cd/klm at  $\gamma$  5°

Luminance values (cd/m<sup>2</sup>)

C 0/180
L <sub>80</sub> 1007
L <sub>70</sub> 3920
L <sub>65</sub> 6621

$\alpha_{50\%}$  2 x 42.2°  
 $\alpha_{10\%}$  2 x 56.5°

UGR 23.3 23.1  
 X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room	Reflection factors 70/50/20					
	Em(lx)	100	200	500		
Lh(m)	8.0	10.0	8.0	10.0	8.0	10.0
200 m <sup>2</sup>	1.0	1.1	2.0	2.3	5.0	5.7
300 m <sup>2</sup>	1.4	1.5	2.7	3.0	6.8	7.6
500 m <sup>2</sup>	2.1	2.3	4.2	4.6	11	11
750 m <sup>2</sup>	3.0	3.2	6.0	6.4	15	16
1000 m <sup>2</sup>	3.9	4.1	7.8	8.2	19	21
1500 m <sup>2</sup>	5.6	5.9	11	12	28	29
2000 m <sup>2</sup>	7.3	7.6	15	15	37	38

Maintenance factor 0.8

Rh = Lh

**NJ600 reflector luminaire with LexaLite® prismatic reflector or aluminum reflector with E27 supplementary socket**

- Reflector luminaire for suspended mounting
- with LexaLite® prismatic reflector, translucent, wide distribution with decorative ceiling illumination; aluminum soft reflector, narrow or wide distribution, or aluminum soft faceted reflector, wide distribution
- with LLCG, parallel pf-corrected; additionally with E27 supplementary socket

- housing of diecast aluminum, Siteco® metallic gray (DB 702S); reflector of PMMA
- protection rating (LexaLite® prismatic reflector with prism lens): IP20
- protection rating (aluminum reflector with cover panel): IP65
- insulation class: I
- incl. 2 pre-assembled connection cables, l = 0.9m

**Electrics**

Luminaire for operation on "normal mains" and with emergency light socket for operation with a second, external power supply

- luminaire wired ready for connection, with 6-pole connection terminal (3-pole for normal mains with switched phase + 3-pole for emergency light socket)

Detailed information: see data sheet

**Information about light sources**

Luminaires with aluminum reflectors operated without cover panel (of toughened safety glass) are always classified as "open luminaires"

Luminaires with prismatic reflectors are always classified as "open luminaires" (even when operated with prismatic lenses)

- with use of "HIE lamps  $\geq$  250W", these lamps must be "approved for open luminaires" (specification of lamp manufacturer)



Light source	Light source 2	Order no. OSRAM	Order no. Siteco
Luminaire upper part			
1x HIE   HSE 250 W E40	1x QT32 max. 150 W E27	4039806209788	5NJ311000
1x HIE   HSE 400 W E40	1x QT32 max. 150 W E27	4039806210456	5NJ332000

- combination of LexaLite® prismatic reflector with upper part for HIE/HSE 400W is not permissible
- please order upper part and reflector separately
- please order cover panel or prismatic lens separately
- please order high-voltage tungsten halogen lamp QT32 (E27/max. 150W) separately

**Accessories (for details see page 10.40 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Reflector, PMMA, clear prismatic structure, wide distribution, $\phi$ = 565mm	2.0	4039806209788	5NJ311000
Reflector, aluminum, soft aluminum, narrow distribution, $\phi$ = 522mm	0.9	4039806210456	5NJ332000
Reflector, aluminum, soft aluminum, wide distribution, $\phi$ = 522mm	1.0	4039806210432	5NJ331000
Reflector, aluminum, soft aluminum, faceted, wide distribution, $\phi$ = 522mm	1.1	4039806225474	5NJ333000
Flat prismatic lens, PMMA, $\phi$ = 565mm	1.4	4039806180933	5NJ14301XC
Cover, toughened safety glass, flat, transparent, $\phi$ =522mm	2.4	4039806213259	5NJ300000

### NJ600 optical accessories



#### Prismatic lens for transparent LexaLite® prismatic reflector

lens of PMMA; incl. mounting ring, galvanized steel; with spring catch

Designation	D x H (mm)	Order no. OSRAM	Order no. Siteco
Flat prismatic lens	565 x 54	4039806180933	5NJ14301XC

— luminaire with prismatic lens: IP20 protection rating

### NJ600 housing accessories

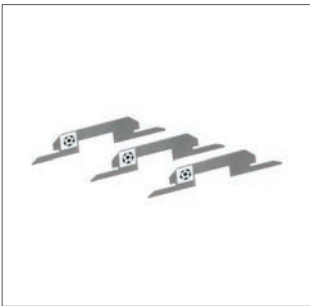


#### Cover panel for aluminum reflector

cover of toughened safety glass incl. sealing ring; V2A snap catches; retaining cord and sealing for reflector/housing connection

Designation	for lamps/series	D x H (mm)	Order no. OSRAM	Order no. Siteco
Cover disc, transparent	to max. 400W	522 x 12	4039806213259	5NJ300000
Cover disc, transparent	1000W <sup>1)</sup>	522 x 12	4039806213686	5NJ30000T

— luminaire with cover: protection rating IP65  
 1) Cover for 1000W: not silicone-free



#### Ball protection for cover

for securing of snap catches to prevent unintentional opening with jolting | protection against flying balls is only guaranteed with installation by qualified personnel and with use of cover glass with ball protection

Designation	PU	Order no. OSRAM	Order no. Siteco
Ball protection	set of 3	4039806623546	5NJ30000XB

— 3 pieces required per cover  
 — luminaire with cover and ball protection: protection rating IP40



### NJ600 electrical accessories



#### Control unit for 1000W

version for mounting to wall or in switching cabinet | compact unit with CG, parallel pf-corrected | without fuse | with 9-pole connection terminal, max. 6mm<sup>2</sup> | cable entry for cables D = 8...13.5mm | capsuled casting resin, black; baseplate with 2 fixing points (fixing distance: l) | protection rating: IP65 | insulation class: I

Designation	l x w x h (mm)	l (mm)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Control unit					
for HIE 1000W	524 x 115 x 95	495	15.5	4039806848482	5NA77921VR0
for HSE 1000W	524 x 115 x 95	495	15.5	4039806848505	5NA77921VR11

- required cable diameter with max. distance to luminaire
- Ø = 2.5mm<sup>2</sup> with l < 50m
- Ø = 4.0mm<sup>2</sup> with l < 80m
- Ø = 6.0mm<sup>2</sup> with l < 120m



#### Socket adapter

for use of HIE/HSE 150W lamps with E27 base in luminaires with E40 socket

Designation	Order no. OSRAM	Order no. Siteco
Socket adapter E27/E40	4039806221223	5NA59000XF

### NJ600 mounting accessories



#### Chain, galvanized

inner link size 7 x 40mm | load capacity: 56kg

#### Quick-release link, galvanized

inner link size 8 x 20mm | load capacity: 50kg

Designation	Order no. OSRAM	Order no. Siteco	
Chain	galvanized	4039806999856	5LY9005
Quick-release link	galvanized	4039806176011	5LY9113

- chain: per meter
- please order required number of quick-release links separately





# NX700



The compact reflector luminaire of the NX700 family features a robust, high-quality construction and high-output lamps. This enables good, homogeneous illumination with mounting heights of up to 12 meters. This is ensured by wide-distribution aluminum reflectors. With applications requiring high glare control, versions with inner, ribbed aluminum cross-blade louvers are used. All versions have a cover of temperature-resistant, toughened safety glass. The compact reflector luminaire offers several advantages with regard to mounting and maintenance: it has a separate lamp and control gear compartment and, depending on the version, is equipped with a swing-down cover and separate mounting plate. The low construction height enables mounting and use in tight spaces. With the version with continuous cover panel and inner louver, the luminaire is ball-proof and suitable for use in tennis halls and squash courts.

## Features

- suitable for high installations
- compact design for lamp configurations up to 400W
- IP20 or IP65 protection
- glare control is possible with high-quality structured cross-blade louver

## Lighting technology

Aluminum structured reflector, highly specular, extremely wide distribution, reflector luminaire 5NX767... with ribbed aluminum cross-blade louver, matt anodized, for longitudinal glare reduction

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | in mounting plate or in control gear compartment | version with mounting plate: with plug-in coupling for connection between luminaire and mounting plate | with LLCG, parallel pf-corrected | double cable entry for through-wiring to next luminaire

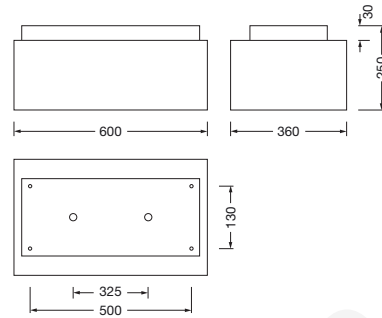
## Housing

Housing of sheet steel, white stove-enameled inside and outside | with completely separated CG and lamp compartments | cover panel of temperature-resistant, toughened safety glass, can be hinged downwards for relamping | control gear compartment accessible from below via cover panel or separate cover | mounting depending on version to mounting angles or via separate, easily installed mounting plate

## Mounting information

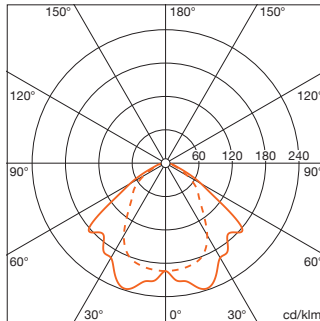
The reflector luminaire 5NX767... is ball-impact-resistant. Protection against flying balls is only guaranteed with installation and mounting by qualified personnel.





4039806190024  
5NX76121V

1 x HST-MF 400W/220 LL  $\phi$  56500 lm



$\eta_{LB}$  54.2%  
 $I_{max}$  238 cd/klm at  $\gamma$  20°

Luminance values (cd/m²)

	C 0/180	C 90/270
L <sub>80</sub>	34756	25426
L <sub>70</sub>	38927	30743
L <sub>65</sub>	55027	36343

$\alpha_{50\%}$  2 x 54.6° 2 x 40.8°  
 $\alpha_{10\%}$  2 x 71.1° 2 x 70.9°

UGR 30.3 28  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20	100		200		500	
	Em(lx)					
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m²	1.1	1.3	2.1	2.5	5.3	6.3
300 m²	1.5	1.7	2.9	3.4	7.4	8.4
500 m²	2.3	2.5	4.5	5.0	11	13
750 m²	3.3	3.5	6.5	7.1	16	18
1000 m²	4.2	4.5	8.4	9.1	21	23
1500 m²	6.2	6.5	12	13	31	33
2000 m²	8.0	8.4	16	17	40	42

Maintenance factor 0.8 Rh = Lh

**NX700 compact reflector luminaire | IP20 luminaire with mounting plate | with protective grid**

- Compact reflector luminaire for ceiling surface mounting
- with structured aluminum reflector, wide distribution
- with transparent cover panel
- with LLCG, parallel pf-corrected
- housing with separate mounting plate

- housing of sheet steel, pure white (similar to RAL 9010)
- cover panel of toughened safety glass
- protection rating: IP20
- insulation class: I

- electrical connection upon mounting plate



Light source



Order no.  
OSRAM

Order no.  
Siteco

1x HIT | HST 400 W

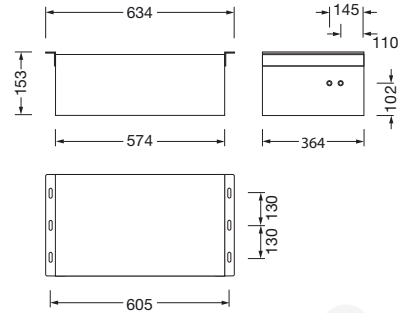
E40

18.0

4039806190024

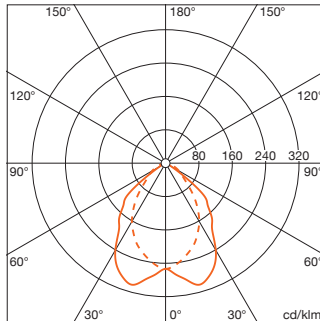
5NX76121V





4039806175472  
5NX76721V

1 x HST-MF 400W/220 LL  $\phi$  56500 lm



$\eta_{LB}$  47.7%  
 $I_{max}$  302 cd/klm at  $\gamma$  15°

Luminance values (cd/m<sup>2</sup>)

	C 0/180	C 90/270
L <sub>80</sub>	2274	15503
L <sub>70</sub>	6422	28871
L <sub>65</sub>	8958	33609

$\alpha_{50\%}$  2 x 43.6° 2 x 36.5°  
 $\alpha_{10\%}$  2 x 58.0° 2 x 66.7°

UGR 25.7 26.4  
X 4H Y 8H  $\rho$  70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100		200		500	
Lh(m)	6.0	8.0	6.0	8.0	6.0	8.0
200 m <sup>2</sup>	1.1	1.3	2.2	2.6	5.6	6.4
300 m <sup>2</sup>	1.6	1.8	3.2	3.5	7.9	8.8
500 m <sup>2</sup>	2.5	2.7	4.9	5.4	12	13
750 m <sup>2</sup>	3.6	3.8	7.1	7.6	18	19
1000 m <sup>2</sup>	4.6	4.9	9.3	9.8	23	25
1500 m <sup>2</sup>	6.8	7.1	14	14	34	35
2000 m <sup>2</sup>	8.8	9.2	18	18	44	46

Maintenance factor 0.8 Rh = Lh

**NX700 compact reflector luminaire | IP65  
luminaire with mounting brackets | with cross-blade louver**

- Compact reflector luminaire for ceiling surface mounting
- with structured aluminum reflector, extremely wide distribution
- with inner aluminum cross-blade louver
- with transparent cover panel
- with LLCG, parallel pf-corrected
- housing with mounting brackets at face ends

- housing of sheet steel, pure white (similar to RAL 9010)
- cover panel of toughened safety glass (ESG)
- protection rating: IP65
- insulation class: I
- ball-proof luminaire, suitable for tennis and squash courts

• protection against flying balls is only guaranteed with installation by qualified personnel



Light source



Order no.  
**OSRAM**

Order no.  
**Siteco**

1x HIT | HST 400 W

E40

15.4

4039806175472

5NX76721V





# SiCOMPACT® FL MIDI S LED



SiCOMPACT® FL MIDI S LED is a robust, future-safe lighting solution for mounting heights of 6 to 20 meters. The luminaire features the resilient diecast aluminum housing of an outdoor luminaire with IP65 protection rating and a cover of PC. The start temperature is a low -20°C. The LED floodlight features high efficiency and outstanding quality of light. The luminaire was developed for the specific requirements of television sport recordings with HD quality, and even with HD super slow motion with up to 1,000 frames per minute still supplies flicker-free and therefore HDTV-compliant light. This makes it suitable as an efficient solution for the most demanding of lighting tasks for indoor sports locations, multi-functional arenas and applications with extremely rapid motion.

The SiCOMPACT® FL MIDI S LED is available in differing versions with two different luminous flux packages. All luminaires are modularly constructed according to the same system in order to enable simple subsequent upgrading of LED modules and ECG. The luminaires are installed with a mounting bracket and electrical connection is via an external plug (plug and play). Thanks to DALI integration as standard, the versions of the SiCOMPACT® FL MIDI S LED family can be integrated into external light management systems.

## Features

- lighting for mounting heights between 6 and 20 meters
- HDTV-compliant sports lighting, even at 1000 frames/sec with maximum visual comfort for athletes and spectators
- for sports disciplines (and other areas) with extremely rapid movements
- enables replay of super slow motion
- suitable for use in difficult ambient conditions due to diecast aluminum housing (IP65)
- very high impact-resistance (IK08)
- available with two different luminous flux packages
- start temperature as low as -20°C
- long service life of up to 50,000 hours with ambient temperatures of +40°C
- modular construction with upgrade option for future LED modules and ECG
- protection against flying balls for sports locations (tested in accordance with DIN VDE 0710)
- external plug connection (plug and play)

## Lighting technology

LED modules with transparent cover and integrated lens system for each LED | lens system with symmetric distribution and narrow light characteristics

## Electrics

Luminaire wired ready for connection, completely pre-assembled with connection plug and included socket with 5-pole connection terminal (ECG DALI: 3-pole + 2-pole for control signal), max. 2.5mm<sup>2</sup> | socket for cables D= 10...18mm | luminaire with ECG DALI; version with four LED modules with two DALI addresses

## Information for operation at low temperatures

Frequent switching at low temperatures should be avoided; recommendation: instead of frequent ON/OFF, change between low and high dimming positions

## Housing

LED module support with cooling ribs and electrical module of diecast aluminum; mounting bracket of galvanized steel; all parts in Siteco® metallic gray (DB 702S); lateral support profiles of aluminum, anodized; cover of PC

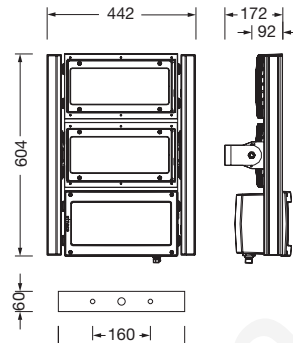
## Applications

- HDTV-compliant sports lighting, even at 1000 frames/sec with maximum visual comfort for athletes and spectators
- for sports disciplines (and other areas) with extremely rapid movements
- enables replay of super slow motion
- recording with high-speed cameras



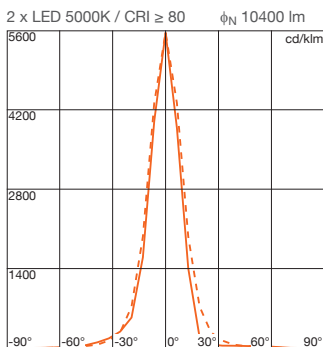


LED



A<sub>w</sub>=0.26 m<sup>2</sup>

4050737470580  
5XA7621E1D00



I<sub>max</sub> 5563 cd/klm at γ 0°

	C 0/180	C 90/270
α <sub>50%</sub>	2 x 9.1°	2 x 10.4°
α <sub>10%</sub>	2 x 16.1°	2 x 20.9°

**SiCOMPACT® FL MIDI S LED symmetric distribution with 2 LED module supports | with integrated electrical module**

Floodlight with mounting bracket for mounting to walls, ceilings or supporting structure  
 — with lens system, narrow distribution  
 — integrated electrical module with ECG DALI  
 — LED module support with cooling ribs and electrical module of diecast aluminum; mounting bracket of galvanized steel; all parts in Siteco® metallic gray

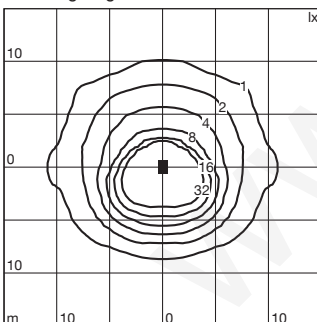
(DB 702S); lateral support profiles of aluminum, anodized; cover of PC  
 — protection rating: IP65  
 — insulation class: I  
 — temperature range: -20°C...+40°C  
 — service life: up to 50,000h (L70 | B10)  
 — ballproof luminaire; tested according to DIN VDE 0710, part 13



Light source

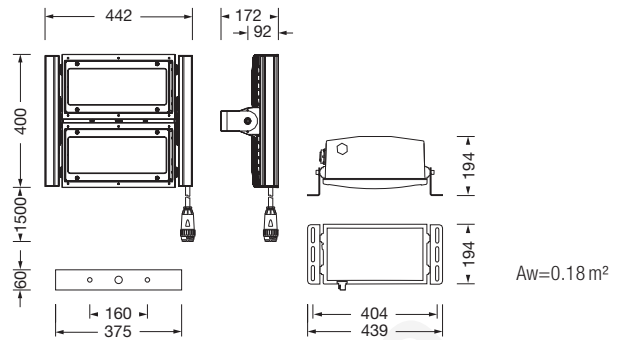
	K	R <sub>a</sub>	Im	W SYSTEM	LLG	ECG LLGG	Order no. OSRAM	Order no. Siteco
LED	5000	> 80	10400	150	19.7	DALI	4050737470580	5XA7621E1D00

Mounting height 6 m Tilt 0°

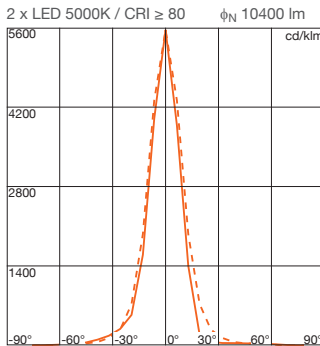




LED



4050737583020  
5XA7621E2D00



**SiCOMPACT® FL MIDI S LED symmetric distribution with 2 LED module supports | with separate electrical module**

- Floodlight with mounting bracket for mounting to walls, ceilings or supporting structure
- with lens system, narrow distribution
- separate electrical module with ECG DALI; with connection cable fitted on luminaire side with plug connection to electrical module, l=1.5m
- LED module support with cooling ribs and electrical module of diecast aluminum; mounting bracket of galvanized

- steel; all parts in Siteco® metallic gray (DB 702S); lateral support profiles of aluminum, anodized; cover of PC
- protection rating: IP65
- insulation class: I
- temperature range: -20°C...+40°C
- service life: up to 50,000h (L70 | B10)
- ballproof luminaire; tested according to DIN VDE 0710, part 13



Light source

K

R<sub>a</sub>

l<sub>m</sub>

W SYSTEM

KG

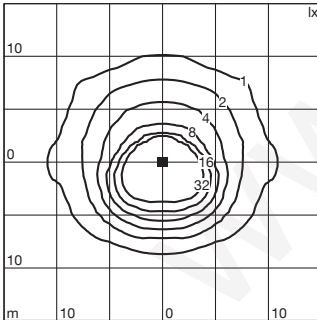
ECG LLOG

Order no.  
**OSRAM**

Order no.  
**Siteco**

LED	5000	> 80	10400	150	20.1	DALI	4050737583020	5XA7621E2D00
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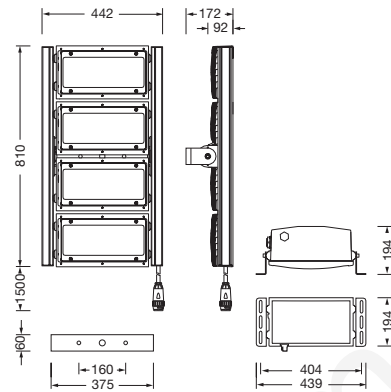
Mounting height 6 m Tilt 0°





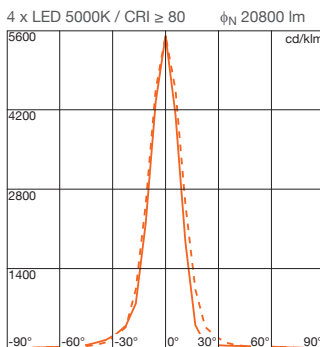


LED



A<sub>v</sub>=0.36 m<sup>2</sup>

4050737583044  
5XA7641E2D00



C 0/180    C 90/270  
α50% 2 x 9.0°    2 x 10.7°  
α10% 2 x 15.8°    2 x 20.0°

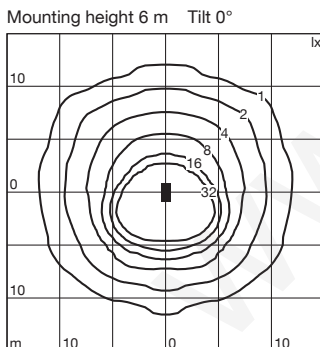
**SiCOMPACT® FL MIDI S LED symmetric distribution with 4 LED module supports | with separate electrical module**

- Floodlight with mounting bracket for mounting to walls, ceilings or supporting structure
- with lens system, narrow distribution
- separate electrical module with ECG DALI; with connection cable fitted on luminaire side with plug connection to electrical module, l=1.5m
- LED module support with cooling ribs and electrical module of diecast aluminum; mounting bracket of galvanized

- steel; all parts in Siteco® metallic gray (DB 702S); lateral support profiles of aluminum, anodized; cover of PC
- protection rating: IP65
- insulation class: I
- temperature range: -20°C...+40°C
- service life: up to 50,000h (L70 | B10)
- ballproof luminaire; tested according to DIN VDE 0710, part 13



Light source	K	R <sub>a</sub>	lm	W SYSTEM	KG	ECG LLOG	Order no. OSRAM	Order no. Siteco
LED	5000	> 80	20800	300	28.5	DALI	4050737583044	5XA7641E2D00



# SiCOMPACT® A2 MINI LED | ... MIDI LED



The floodlights of the SiCOMPACT® A2 family feature a timeless design. The wide-distribution versions of the SiCOMPACT® A2 ... LED family are available in the two construction sizes MINI and MIDI. Oval flood lenses combined with a structured cover panel ensure efficient light distribution.

The luminaires with mounting brackets can be precisely adjusted in 5° steps for exact illumination of the application area. Integral twist protection reliably fixes the luminaire. With its high IP66 protection rating, the floodlight is ideal for lighting both indoor and outdoor areas. The version with a wall adapter has a design variant as either uplight or downlight.

## Features

- luminaire range with uniform design in two construction sizes, with various luminous flux packages and various mounting methods
- versions with mounting bracket or for wall mounting enable various installation possibilities
- version with mounting bracket: alignment in 5° steps with integrated twist protection
- no light spill: light immission 0% with horizontal mounting
- flat luminaire cover of safety glass with all-round silicone sealing; IP66 protection rating
- pressure equalization system with air-permeable membrane for condensation avoidance in the housing

## Lighting technology

Wide light distribution | excellent glare reduction and very high uniformity with minimized light immission via LED with oval attachment lens and additional light control via structured, flat cover panel | no light spill to upper hemisphere (light immission 0%) with horizontal alignment of light emission surface

## Electrics

Luminaire wired ready for connection | cable entry for cables  $D = 6 \dots 12 \text{ mm}$  | microprocessor-controlled LED operating electronics with temperature monitoring for protection of LED from thermal overload | SiCOMPACT® A2 MINI LED: with 3-pole connection terminal, max.  $2.5 \text{ mm}^2$  (2-pole for mains supply + 1-pole for 230V control voltage for power reduction) | control signal:  $U_{St} = 230 \text{ V} \rightarrow 100\% \text{ luminous flux}$ ;

$U_{St} = 0 \text{ V} \rightarrow \text{approx. } 50\% \text{ luminous flux}$  | SiCOMPACT® A2 MIDI LED: with 3-pole connection terminal, max.  $2.5 \text{ mm}^2$  (L,N,PE)

## Housing

Housing of diecast aluminum with side-mounting bracket or rear housing connection for wall adapter; mounting bracket and wall adapter of galvanized steel; all parts coated in Siteco® metallic gray (DB 702S) | all-round silicon gasket in housing profile | cover of flat, temperature-resistant, toughened safety glass | mounting bracket with adjustment feature for floodlight, adjustment in 5° increments, with twist protection | pressure equalization system with air-permeable membrane for condensation avoidance in the housing | insulation class: II (... MINI LED) or I (... MIDI LED) | protection rating: IP66

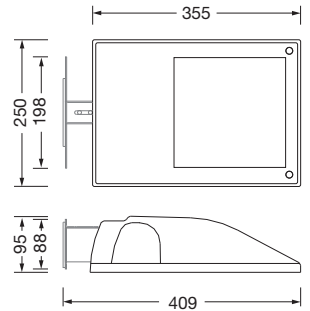
## Applications

- hall lighting (especially if luminaires are not desired on the ceiling)
- arcade lighting
- as uplight for indirect lighting
- facade lighting
- plaza lighting
- security lighting for industrial facilities

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.



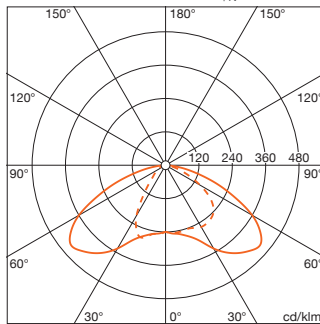
LED



$A_w=0.03\text{ m}^2$

4050737012766 + 4039806455413  
5XA7577LNA208 +  
5NY75701XW2108

1 x LED 5000K / CRI ≥ 80  $\phi_N$  2180 lm



C 0/180 C 90/270

Luminous intensity class according to EN13201-2: G6

**SiCOMPACT® A2 MINI LED for wall adapters asymmetric wide distribution**

- Floodlight for wall mounting via wall adapter
- with lens system, asymmetric wide distribution (as uplight or downlight with indoor applications); with flat, structured cover
- microprocessor-controlled LED operating electronics; with temperature monitoring

- for protection of LED from thermal overload
- housing with rear fixing of diecast aluminum, Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
- insulation class: II

- with power reduction via 230V control voltage

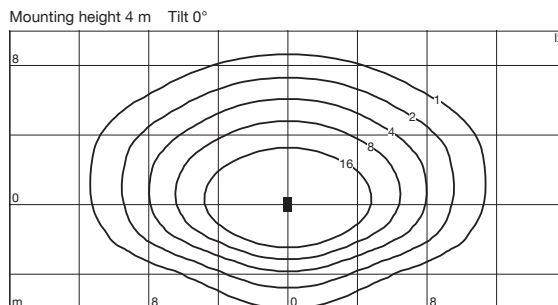


Light source	K	Ra	lm	W SYSTEM	LLG	EGG LLGG	Order no. OSRAM	Order no. Siteco
LED	5000	> 80	2180	41	4.3	EGG	4050737012766	5XA7577LNA208

— please order wall adapter separately

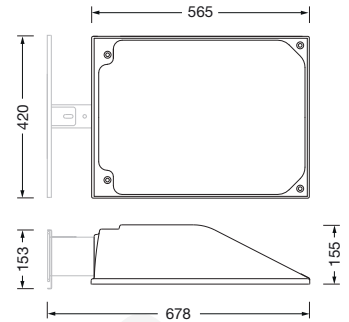
**Mandatory accessories (for details see page 10.56)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wall bracket	0.7	4039806455413	5NY75701XW2108



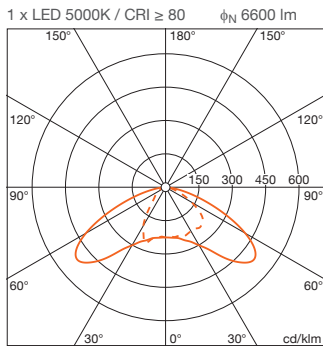


LED



Aw=0.08 m²

4050737017815 + 4039806856944  
5XA7507BNT208 +  
5NY75801XW21



**SiCOMPACT® A2 MIDI LED for wall adapters  
asymmetric wide distribution**

- Floodlight for wall mounting via wall adapter
- with lens system, asymmetric wide distribution (as uplight or downlight with indoor applications); with flat, structured cover
- microprocessor-controlled LED operating electronics; with temperature monitoring for protection of LED from thermal overload
- housing with rear fixing of diecast aluminum, Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
- insulation class: I



— C 0/180    - - - C 90/270

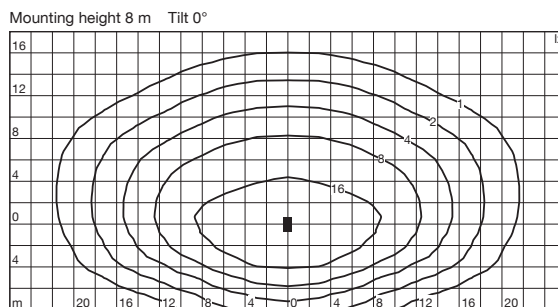
Luminous intensity class according to EN13201-2: G6

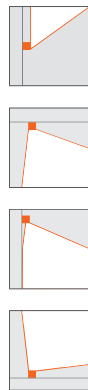
Light source	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG L LGG	Order no. OSRAM	Order no. Siteco
LED	5000	> 80	6600	98	11.8	ECG	4050737017815	5XA7507BNT208

— please order wall adapter separately

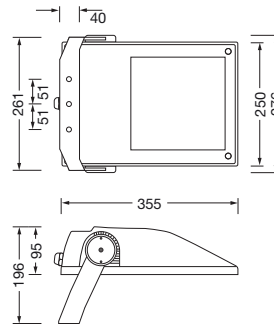
**Mandatory accessories (for details see page 10.56)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wall bracket	2.5	4039806856944	5NY75801XW21



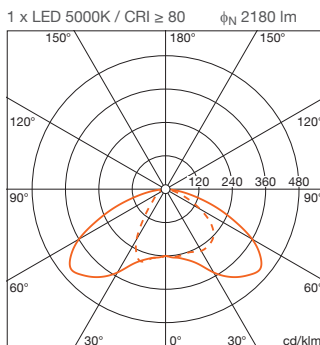


LED



A<sub>w</sub>=0.03 m<sup>2</sup>

4050737012742  
5XA7577LNA008



**SiCOMPACT® A2 MINI LED with mounting bracket asymmetric wide distribution**

Floodlight with mounting bracket for mounting to walls, ceilings or supporting structures

- with lens system, asymmetric wide distribution; with flat, structured cover
- microprocessor-controlled LED operating electronics; with temperature monitoring for protection of LED from thermal overload

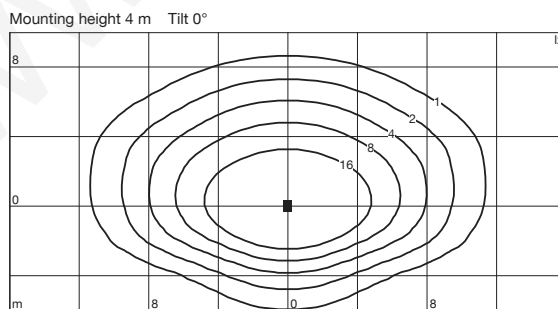
- housing of diecast aluminum; bracket of galvanized steel; housing and bracket in Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
- insulation class: II
- adjustment range: 0...360° (outdoor installations: 10...350°)

- with power reduction via 230V control voltage



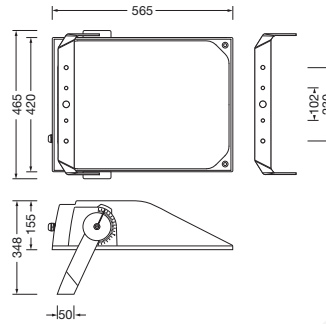
Luminous intensity class according to EN13201-2: G6

Light source	K	R <sub>a</sub>	lm	W SYSTEM	IK9	ECG LLOS	Order no. OSRAM	Order no. Siteco
LED	5000	> 80	2180	41	4.4	ECG	4050737012742	5XA7577LNA008



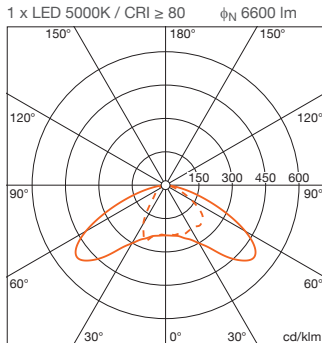


LED



A<sub>w</sub>=0.08 m<sup>2</sup>

4050737019666  
5XA7587BNT008



Luminous intensity class  
according to  
EN13201-2: G6

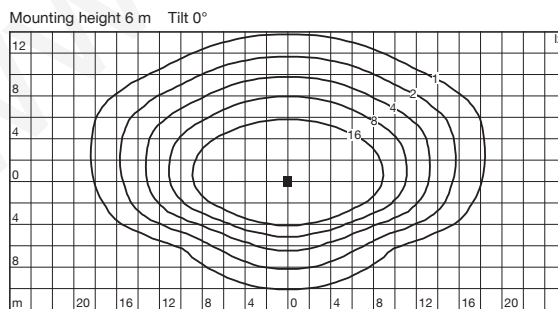
**SiCOMPACT® A2 MIDI LED with mounting bracket  
asymmetric wide distribution**

- Floodlight with mounting bracket for mounting to walls, ceilings or supporting structure
- with lens system, asymmetric wide distribution; with flat, structured cover
  - microprocessor-controlled LED operating electronics
  - housing of diecast aluminum; bracket of galvanized steel; housing and bracket in

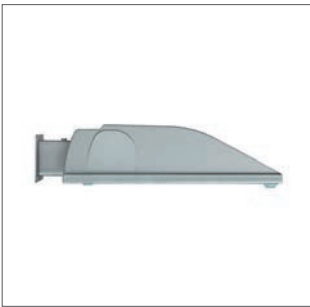
- Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
  - insulation class: I
  - adjustment range: 0...360° (outdoor installations: 10...350°)



Light source	K	R <sub>a</sub>	lm	W SYSTEM	KG	EGG LLLCG	Order no. OSRAM	Order no. Siteco
LED	5000	> 80	6600	98	15.3	EGC	4050737019666	5XA7587BNT008



**SiCOMPACT® A2 MINI LED | ... A2 MIDI LED mounting accessories**



**Wall adapter**

wall flange, cover and adapter of galvanized steel, coated in Siteco® metallic gray (DB 702S) | wall flange via supplementary cover without visible screws

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wall adapter			
for SiCOMPACT A2 MINI LED	0.7	4039806455413	5NY75701XW2108
for SiCOMPACT A2 MIDI LED	2.5	4039806856944	5NY75801XW21



**SiCOMPACT® A2 MINI LED | ... A2 MIDI LED spare parts**

**Optical enclosure (not shown)**

Toughened safety glass | transparent, partly coated; with hinge

Designation	Order no. OSRAM	Order no. Siteco
Cover panel		
for SiCOMPACT A2 MINI LED	4050737042442	5XA75700XG08
for SiCOMPACT A2 MIDI LED	4050737040134	5XA75800XG08





# SiCOMPACT® A2 MINI | ... A2 MIDI



The floodlights of the SiCOMPACT® A2 family feature a modern design. A highly specular anodized aluminum reflector ensures efficient light distribution with either wide asymmetric (A2 MINI, A2 MIDI) or narrow asymmetric (A2 MIDI) distribution. HIT, HST and QT lamps with varying output levels can be used. The floodlights with mounting bracket can be precisely adjusted in 5° steps for exact illumination of the application area.

Integral twist protection reliably fixes the luminaire. With its high IP66 protection rating, the floodlight is ideal for lighting both indoor and outdoor areas, and the version with mounting bracket is especially suitable for sports halls. The version with a wall adapter has a design variant as either uplight or downlight. The luminaire is equipped with an ignitor for instant hot re-ignition and can therefore be used for areas with high security demands.

## Features

- flexible luminaire system and uniform design with use of different lamp wattages and lamp types
- versions with mounting bracket or for wall mounting enable various installation possibilities
- protection against flying balls (DIN VDE 0710 part 13) with versions with mounting bracket
- version with mounting bracket: alignment in 5° steps with integrated twist protection
- no light spill: light immission 0% with horizontal mounting
- Siteco® Savelight components for greater safety, higher energy savings, longer lamp service life and less maintenance costs
- flat luminaire cover of safety glass with all-round silicone sealing; IP66 protection rating
- pressure equalization system with air-permeable membrane for condensation avoidance in the housing

## Lighting technology

Asymmetric light distribution, no light spill to upper hemisphere with horizontal alignment of light emission surface (light immission 0%) | versions with mounting bracket for precise adjustment of floodlight and precise limiting of the illuminated area with simple adjustment, adjustment in 5° increments

- SiCOMPACT® A2 MINI with wide characteristic
- SiCOMPACT® A2 MIDI with narrow or wide characteristic

## Electrics

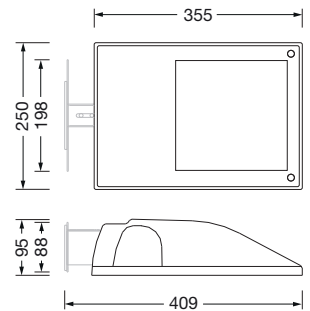
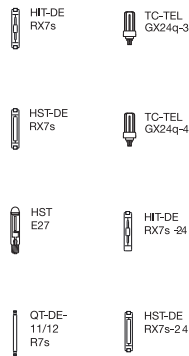
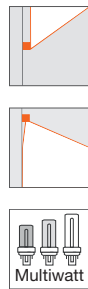
Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D= 6...12mm | depending on version with ECG, with LLCG and ignitor, pf-corrected, or with LLCG and ignitor for instant hot re-ignition; all electrical components integrated in luminaire housing (exception: versions for HIT-DE/HST-DE 70W/150W with hot re-ignition and HIT-DE 250W/400W with hot re-ignition → LLCG in separate housing, with fixed wiring to floodlight, l<sub>e</sub> approx. 1.0m); version for high-voltage tungsten halogen lamp without CG

## Housing

Housing of diecast aluminum with side mounting bracket or rear housing connection for wall adapter; mounting bracket and wall adapter of galvanized steel; all parts coated in Siteco® metallic gray (DB 702S) | all-round silicon gasket in housing profile | cover of flat, temperature-resistant, toughened safety glass | mounting bracket with adjustment feature for floodlight, adjustment in 5° increments, with twist protection | pressure equalization system with air-permeable membrane for condensation avoidance in the housing | insulation class: I | protection rating: IP66

## Applications

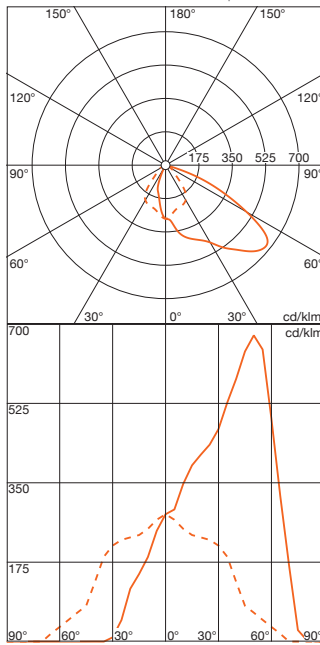
- hall lighting (without luminaires on ceiling)
- arcade lighting
- as uplight for indirect lighting
- spotlighting of sculptures
- facade lighting
- plaza lighting



A<sub>w</sub>=0.03 m<sup>2</sup>

4039806626639  
5NA757E1PS2208

1 x HIT-DE-h45 150W/830  $\phi$  12000 lm



I<sub>max</sub> 675 cd/klm at  $\gamma$  50°

C 0/180 C 90/270

**SiCOMPACT® A2 MINI for wall adapters asymmetric wide**

Floodlight for wall mounting via wall adapter  
 — with aluminum reflector, highly specular, asymmetric wide (as uplight or downlight indoors); with transparent cover  
 — with ECG or LLCG or as version for high-voltage tubular halogen lamp (without CG), LLCG version pf-corrected

- housing with rear fixing of diecast aluminum, Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
- insulation class: I



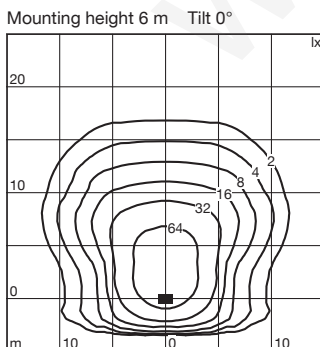
**Light source**

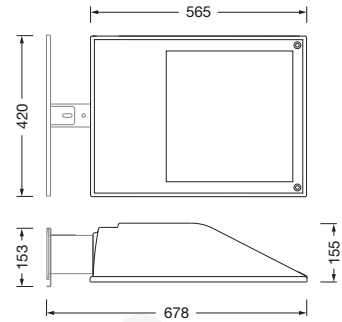
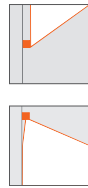
			Order no. OSRAM	Order no. Siteco
without CG, without ignitor				
1x QT-DE 160/230 W	R7s	3.8	4039806504289	5NA75701SS2208H
with integrated control unit, with integrated ignitor (with automatic power-off function)				
1x HIT-DE   HST-DE 70 W	RX7s	5.2	4039806626615	5NA757E1NS2208
1x HIT-DE   HST-DE 150 W	RX7s-24	6.1	4039806626639	5NA757E1PS2208
1x HST 70 W	E27	5.3	4039806627650	5NA757E1NS2108
with ECG Multiwatt				
1x TC-TEL 26/32/42 W	GX24q-3/-4	4.0	4039806626578	5LA75771TS2108
with ECG				
1x HIT-DE 70 W	RX7s	4.1	4039806427038	5NA75771NS2208

— please order wall adapter separately

**Mandatory accessories (for details see page 10.64)**

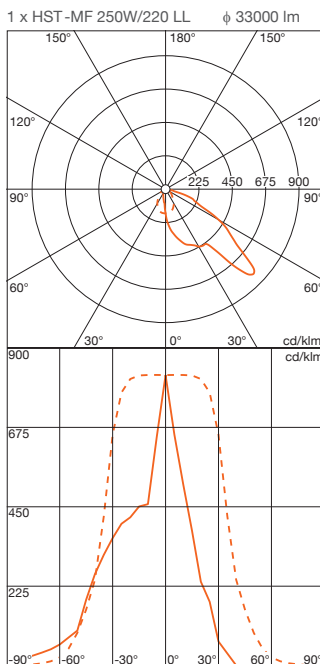
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wall bracket	0.7	4039806455413	5NY75701XW2108





Aw=0.08 m²

4039806858702  
5NA758E1SB21



**SiCOMPACT® A2 MIDI for wall adapters asymmetric narrow**

- Floodlight for wall mounting via wall adapter
- with aluminum reflector, highly specular, asymmetric narrow (as uplight or downlight indoors); with transparent cover
- with LLCG, parallel pf-corrected

- housing with rear fixing of diecast aluminum, Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
- insulation class: I



**Light source**

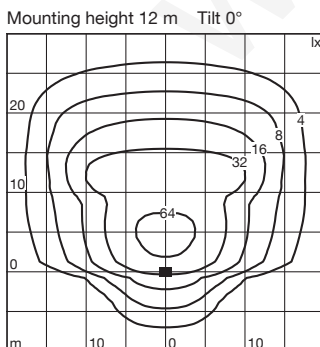
with integrated control unit, with integrated ignitor (with automatic power-off function)

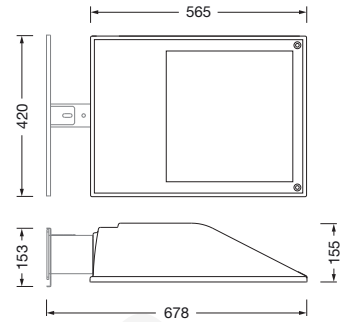
			Order no. OSRAM	Order no. Siteco
1x HIT I HST 250 W	E40	12.9	4039806858702	5NA758E1SB21
1x HIT I HST 400 W	E40	15.3	4039806858986	5NA758E1TB21
1x HIT-DE 250 W	Fc2	13.0	4039806858665	5NA758E1RB22
1x HIT-DE I HST-DE 400 W	Fc2	14.8	4039806859006	5NA758E1TB22
1x HST-DE 250 W	Fc2	16.0	4039806858924	5NA758E1SB22

- please order wall adapter separately
- recommended lamp with version for HIT 400W: OSRAM HQI-BT 400W (unsuitable: OSRAM HQI-T 400W)

**Mandatory accessories (for details see page 10.64)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wall bracket	2.5	4039806856944	5NY75801XW21

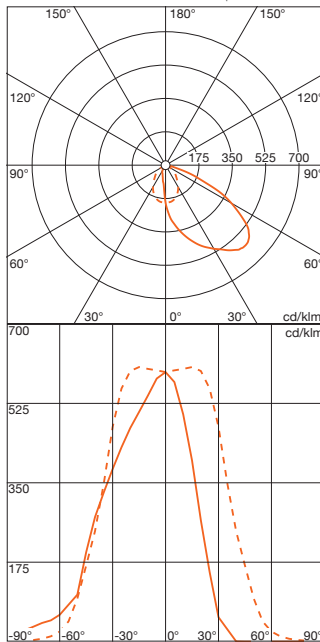




A<sub>w</sub>=0.08 m<sup>2</sup>

4039806858948  
5NA758E1SS21

1 x HST-MF 250W/220 LL  $\phi$  33000 lm



I<sub>max</sub> 606 cd/klm Tilt 45°

A 0 (C 0/180)

B 0

**SiCOMPACT® A2 MIDI for wall adapters asymmetric wide**

- Floodlight for wall mounting via wall adapter
- with aluminum reflector, highly specular, asymmetric wide (as uplight or downlight indoors); with transparent cover
- with LLCG, parallel pf-corrected

- housing with rear fixing of diecast aluminum, Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
- insulation class: I



**Light source**

with integrated control unit, with integrated ignitor (with automatic power-off function)

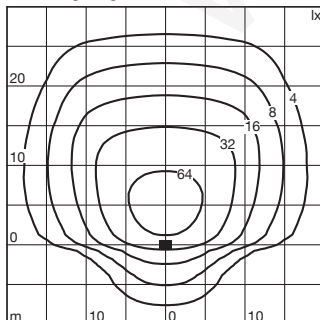
			Order no. OSRAM	Order no. Siteco
1x HIT I HST 250 W	E40	12.9	4039806858948	5NA758E1SS21
1x HIT I HST 400 W	E40	15.3	4039806859020	5NA758E1TS21
1x HIT-DE 250 W	Fc2	13.0	4039806858689	5NA758E1RS22
1x HIT-DE I HST-DE 400 W	Fc2	14.8	4039806859044	5NA758E1TS22
1x HST-DE 250 W	Fc2	16.0	4039806858962	5NA758E1SS22

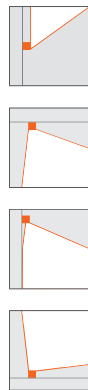
- please order wall adapter separately
- recommended lamp with version for HIT 400W: OSRAM HQI-BT 400W (unsuitable: OSRAM HQI-T 400W)

**Mandatory accessories (for details see page 10.64)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wall bracket	2.5	4039806856944	5NY75801XW21

Mounting height 12 m Tilt 0°





HIT-DE  
RX7s -24

HIT-DE-  
CE  
RX7s

HST-DE  
RX7s-24

HIT-DE-  
CE  
RX7s-24

HIT-DE  
RX7s

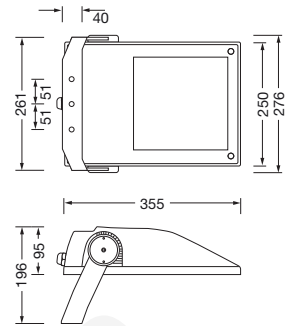
TC-TEL  
GX24q-3

HST  
E27

HST-DE  
RX7s

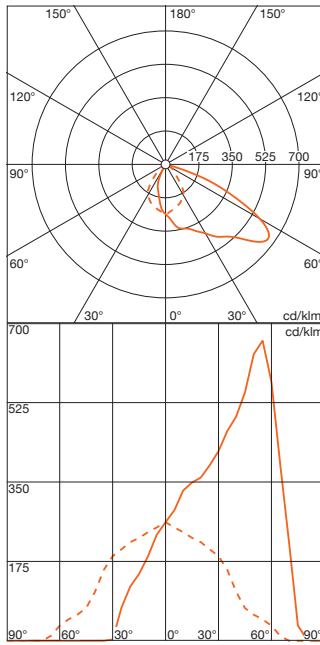
TC-TEL  
GX24q-4

QT-DE-  
11/12  
R7s



A<sub>w</sub>=0.03 m<sup>2</sup>

4039806623959  
5NA757E1PS0208  
1 x HST-DE-MF-h45 150W/220 LL  
φ 15000 lm



**SiCOMPACT® A2 MINI with mounting bracket asymmetric wide**

Floodlight with mounting bracket for mounting to walls, ceilings or supporting structures

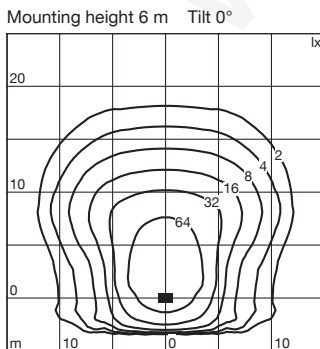
- with aluminum reflector, highly specular, asymmetric wide; with transparent cover
- with ECG or LLCG or as version for high-voltage tubular halogen lamp (without CG), LLCG version pf-corrected; version for high-pressure lamp with hot re-ignition
- housing of diecast aluminum; bracket of galvanized steel; housing and bracket in

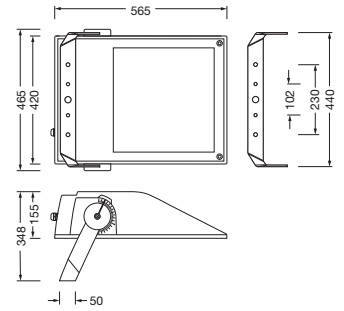
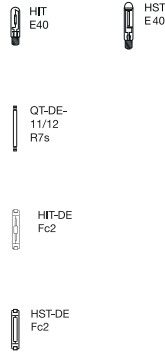
- Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
- insulation class: I
- adjustment range: 0...360° (outdoor installations: 10...350°)
- ball-proof luminaire (in accordance with DIN VDE 0710 part 13), suitable for tennis halls

Protection against flying balls is only guaranteed with installation by qualified personnel and with use of stipulated accessories; version with hot re-ignition incl. separate CG block, factory-prewired (cable l = 1m)



Light source			Order no. OSRAM	Order no. Siteco
without CG, without ignitor				
1x QT-DE 160/230 W	R7s	4.4	4039806620095	5NA75701SS0208H
with control unit, with integrated ignitor (with hot re-ignition)				
1x HIT-DE-CE   HST-DE 70 W	RX7s	9.5	4039806625830	5NA75761NS0208
1x HIT-DE-CE   HST-DE 150 W	RX7s-24	10.0	4039806622952	5NA75761PS0208
with integrated control unit, with integrated ignitor (with automatic power-off function)				
1x HIT-DE   HST-DE 70 W	RX7s	6.0	4039806623942	5NA757E1NS0208
1x HIT-DE   HST-DE 150 W	RX7s-24	6.8	4039806623959	5NA757E1PS0208
1x HST 70 W	E27	6.3	4039806626530	5NA757E1NS0108
with ECG Multiwatt				
1x TC-TEL 26/32/42 W	GX24q-3/-4	4.7	4039806626158	5LA75771TS0108
with ECG				
1x HIT-DE 70 W	RX7s	4.9	4039806623027	5NA75771NS0208

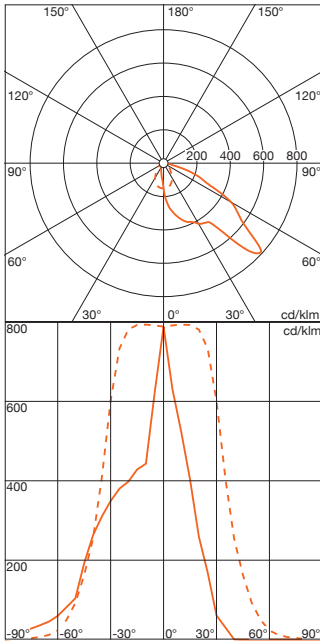




A<sub>w</sub>=0.08 m<sup>2</sup>

4039806623751  
5NA758E1TB0108

1 x HST-MF 400W/220 LL φ 56500 lm

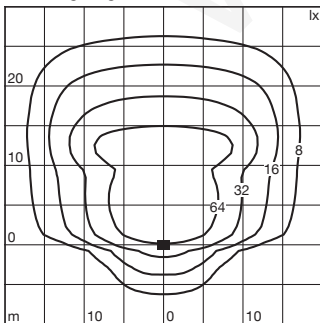


I<sub>max</sub> 793 cd/klm Tilt 47°

A 0 (C 0/180)

B 0

Mounting height 12 m Tilt 0°



**SiCOMPACT® A2 MIDI with mounting bracket asymmetric narrow**

Floodlight with mounting bracket for mounting to walls, ceilings or supporting structures

- with aluminum reflector, highly specular, asymmetric narrow; with transparent cover
- with ECG or LLCG or as version for high-voltage tubular halogen lamp (without CG), LLCG version pf-corrected; version for high-pressure lamp with hot re-ignition

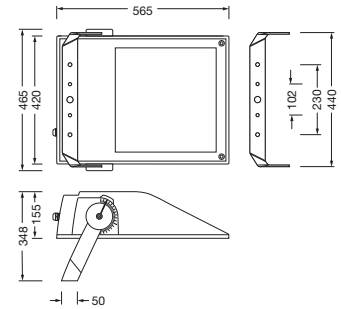
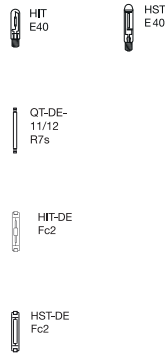
- housing of diecast aluminum; bracket of galvanized steel; housing and bracket in Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP66
- insulation class: I
- adjustment range: 0...360° (outdoor installations: 10...350°)
- ball-proof luminaire (in accordance with DIN VDE 0710 part 13), suitable for tennis halls

Protection against flying balls is only guaranteed with installation by qualified personnel and with use of stipulated accessories; version with hot re-ignition incl. separate CG block, factory-prewired (cable l = 1m)



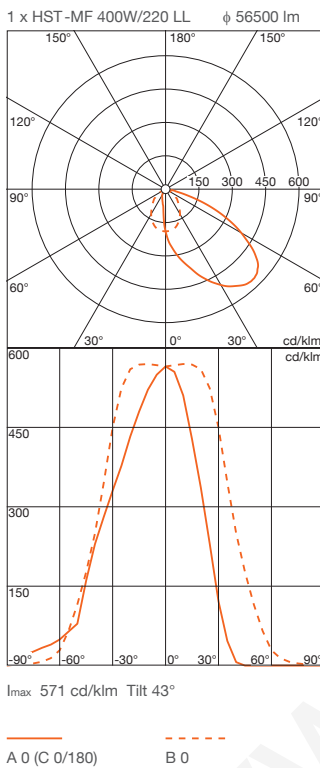
Light source			Order no. OSRAM	Order no. Siteco
without CG, without ignitor				
1x QT-DE 1000 W	R7s	12.7	4039806614872	5NA75801VB0208H
with integrated control unit, with integrated ignitor (with automatic power-off function)				
1x HIT   HST 250 W	E40	16.7	4039806623737	5NA758E1SB0108
1x HIT   HST 400 W	E40	18.2	4039806623751	5NA758E1TB0108
1x HIT-DE 250 W	Fc2	17.7	4039806623775	5NA758E1RB0208
1x HIT-DE   HST-DE 400 W	Fc2	18.1	4039806623744	5NA758E1TB0208
1x HST-DE 250 W	Fc2	16.6	4039806623720	5NA758E1SB0208
with integrated control unit, with integrated ignitor (with hot re-ignition)				
1x HST-DE 250 W	Fc2	18.1	4039806616777	5NA75861SB0208
1x HST-DE 400 W	Fc2	20.9	4039806616791	5NA75861TB0208
with separate control unit, with integrated ignitor (with hot re-ignition)				
1x HIT-DE 250 W	Fc2	19.0	4039806616753	5NA75871RB0208
1x HIT-DE 400 W	Fc2	21.4	4039806616814	5NA75871TB0208

recommended lamp with version for HIT 400W: OSRAM HQI-BT 400W (unsuitable: OSRAM HQI-T 400W)



A<sub>w</sub>=0.08 m<sup>2</sup>

4039806623713  
5NA758E1TS0108



**SiCOMPACT® A2 MIDI with mounting bracket asymmetric wide**

Floodlight with mounting bracket for mounting to walls, ceilings or supporting structures

- with aluminum reflector, highly specular, asymmetric wide; with transparent cover
- with ECG or LLCG or as version for high-voltage tubular halogen lamp (without CG), LLCG version pf-corrected; version for high-pressure lamp with hot re-ignition
- housing of diecast aluminum; bracket of galvanized steel; housing and bracket in

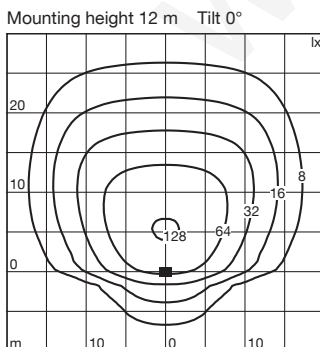
Siteco® metallic gray (DB 702S); cover of toughened safety glass

- protection rating: IP66
- insulation class: I
- adjustment range: 0...360° (outdoor installations: 10...350°)
- ball-proof luminaire (in accordance with DIN VDE 0710 part 13), suitable for tennis halls

Protection against flying balls is only guaranteed with installation by qualified personnel and with use of stipulated accessories; version with hot re-ignition incl. separate CG block, factory-prewired (cable l = 1m)



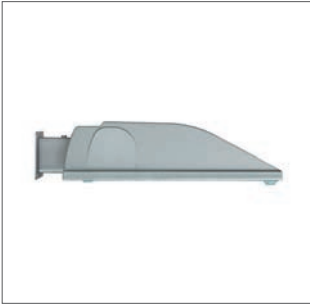
Light source			Order no. OSRAM	Order no. Siteco
without CG, without ignitor				
1x QT-DE 1000 W	R7s	12.7	4039806614865	5NA75801VS0208H
with integrated control unit, with integrated ignitor (with automatic power-off function)				
1x HIT   HST 250 W	E40	16.7	4039806623690	5NA758E1SS0108
1x HIT   HST 400 W	E40	18.2	4039806623713	5NA758E1TS0108
1x HIT-DE 250 W	Fc2	17.7	4039806623768	5NA758E1RS0208
1x HIT-DE   HST-DE 400 W	Fc2	18.1	4039806623706	5NA758E1TS0208
1x HST-DE 250 W	Fc2	16.6	4039806623683	5NA758E1SS0208
with integrated control unit, with integrated ignitor (with hot re-ignition)				
1x HST-DE 250 W	Fc2	18.1	4039806616760	5NA75861SS0208
1x HST-DE 400 W	Fc2	20.9	4039806616784	5NA75861TS0208
with separate control unit, with integrated ignitor (with hot re-ignition)				
1x HIT-DE 250 W	Fc2	19.0	4039806616746	5NA75871RS0208
1x HIT-DE 400 W	Fc2	21.4	4039806616807	5NA75871TS0208



— recommended lamp with version for HIT 400W: OSRAM HQI-BT 400W (unsuitable: OSRAM HQI-T 400W)



**SiCOMPACT® A2 MINI | ... A2 MIDI mounting accessories**



**Wall adapter**

wall flange, cover and adapter of galvanized steel, coated in Siteco® metallic gray (DB 702S) | wall flange via supplementary cover without visible screws

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wall adapter			
for SiCOMPACT A2 MINI	0.7	4039806455413	5NY75701XW2108
for SiCOMPACT A2 MIDI	2.5	4039806856944	5NY75801XW21



**SiCOMPACT® A2 MINI | ... A2 MIDI spare parts**

**Optical enclosure (not shown)**

toughened safety glass | transparent, partly coated; with hinge

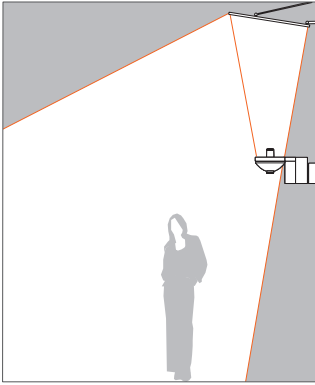
Designation	Order no. OSRAM	Order no. Siteco
Cover panel		
for SiCOMPACT A2 MINI	4039806440938	5NA75700XG08
for SiCOMPACT A2 MIDI	4039806441034	5NA75800XG08











Siteco Mirrortec® secondary reflector systems  
 Application | Function  
 Page 11.3

### Siteco Mirrortec® reflectors



Reflector 100  
 angular  
 Page 11.11



Reflector 100  
 round  
 Page 11.11



Reflector 100A  
 angular  
 Page 11.11



Reflector 200CA  
 Page 11.15

### Siteco Mirrortec® projectors



SiCOMPACT®  
 R1 MINI-ALU  
 Page 11.17



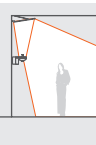
SiCOMPACT®  
 R1 MINI-S  
 Page 11.19



Siteco Mirrortec®  
 Projector 400  
 Page 11.23



Siteco Mirrortec®  
 Projector 1000  
 Page 11.25



# Siteco Mirrortec<sup>®</sup> secondary reflector systems



Secondary reflector systems offer a range of photometric and architectural benefits and are suitable for the homogeneous, targeted illumination of surfaces.

### Application

Architectural lighting concepts and sophisticated lighting solutions are implemented with secondary reflector systems. The possible bandwidth extends from 20 square metre-large atria to 1200 metre-long airport halls, 6 metre-wide roads and 5400 square metre-large public squares illuminated from only one point on the side. Siteco Mirrortec<sup>®</sup> solutions are recommended for many such tasks, and their implementation can be discussed together with our specialists.

### Function

Light is guided by a very narrow distribution projector onto a multifaceted reflector and is reflected symmetrically or asymmetrically according to the properties of these specular facets. Especially high light comfort is achieved by the correct selection of projector and reflector and the distance between these. In contrast to a conventional luminaire, the light source is split via the multifaceted system into individual light points with low intensity. According to observer position and size of the individual facets, light point resolution is the result. Glare is thus minimised. At the same time the high number of facets achieve a highly uniform illumination.

Maintenance is facilitated with the low installation position of the projector. The reflector under normal conditions is maintenance-free.

### Technology

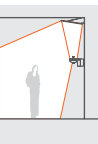
The following diagrams and tables offer an overview of the technology. Symmetric and asymmetric specular reflectors can illuminate various surfaces due to their reflection characteristics. The size of such surfaces is modified with reflector height and angle of inclination. The achievable illuminance changes with the geometry (reflector height, reflector size, inclination and projector height) and the number and lamp configurations of the projector. The aim is always good light point resolution and high uniformity of illuminance.

The diagrams on the following pages represent the light distribution patterns of the reflectors and inclination angles in the applications. The tables list possible distances between projector and reflector with reflector configuration vertically above the projector. Some fields are not filled. Here such combinations make no sense photometrically or architecturally. Statements about expected illuminance values can only be made in individual cases.

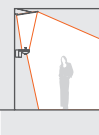
Asymmetric reflectors must be fundamentally vertically mounted above the projector. Symmetric reflectors can be positioned further into the space, whereby system light output ratio is modified according to the distance between projector and reflector.

Because of the flexibility of the Siteco Mirrortec<sup>®</sup> technology, combinations in addition to those listed are possible for custom solutions.

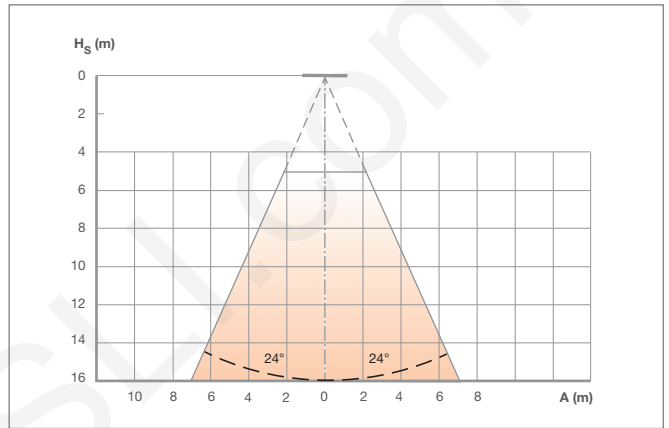
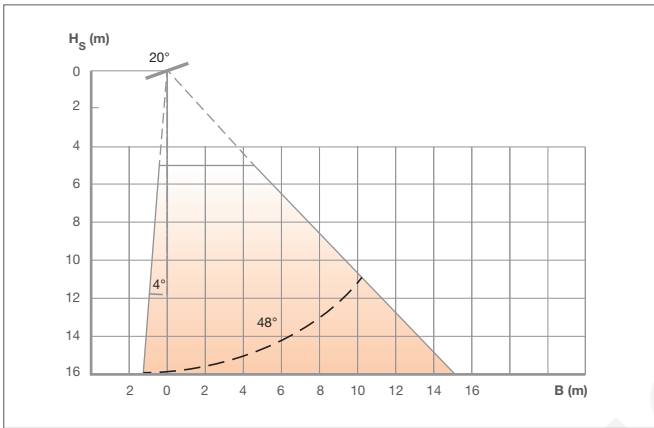
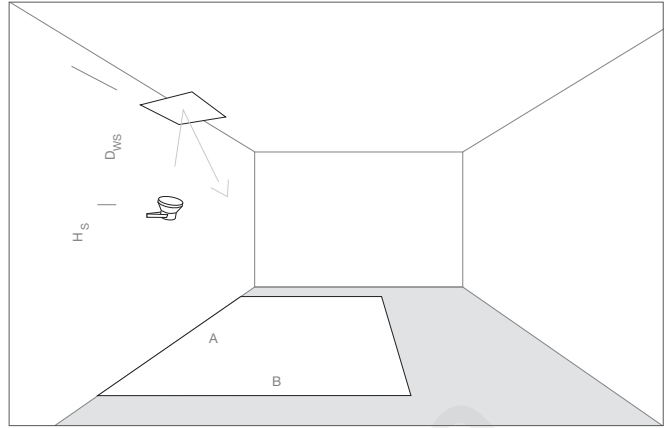
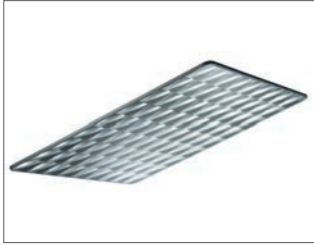
**Siteco would be pleased to provide you with the necessary support.**







The following tables show **possible secondary reflector combinations** with a recommended minimal distance between the projector and the reflector. Deviations can lead to glare and/or loss of efficiency.



1. Combinations of the projector with the Siteco Mirrortec® Reflector 100 **symmetrically reflective**; angular, 600 x 600mm or round,  $\varnothing = 600\text{mm}$

Order no.	Light source	H <sub>s</sub> (m)	5	6	7	8	9	10	11	12
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Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-S

	5NX722E1MB08		D <sub>ws</sub> (m) 1 projector	2.5	2	2	2	-	-	-	-
			D <sub>ws</sub> (m) 2 projector	-	2.5	2	2	-	-	-	-

Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-ALU

	5NX724E1MB08		D <sub>ws</sub> (m) 1 projector	-	2	2	2	-	-	-	-
			D <sub>ws</sub> (m) 2 projector	-	3	2.5	2	-	-	-	-
	5NX724E1PB08		D <sub>ws</sub> (m) 1 projector	-	2	2	2	2	2	-	-
			D <sub>ws</sub> (m) 2 projector	-	3	2.5	2	2	2	-	-



Siteco Mirrortec® Projector 400

	5NW41421RG1		D <sub>ws</sub> (m) 1 projector	-	-	3.5	3	3	3	-	-
			D <sub>ws</sub> (m) 2 projector	-	-	-	-	-	-	-	-
	5NW41421TG1		D <sub>ws</sub> (m) 1 projector	-	-	3.5	3	3	3	-	-
			D <sub>ws</sub> (m) 2 projector	-	-	-	-	-	-	-	-




1. Combinations of the projector with the Siteco Mirrortec® Reflector 100 **symmetrically reflective**;  
angular, 900 x 900mm or round,  $\varnothing = 900\text{mm}$

Order no.	Light source	H <sub>s</sub> (m)	5	6	7	8	9	10	11	12
-----------	--------------	--------------------	---	---	---	---	---	----	----	----




Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-S

	5NX722E1MB08		D <sub>WS</sub> (m) 1 projector	2.5	2	2	2	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	-	2.5	2	2	-	-	-	-

Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-ALU

	5NX724E1MB08		D <sub>WS</sub> (m) 1 projector	-	2	2	2	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	-	3	2.5	2	-	-	-	-
	5NX724E1PB08		D <sub>WS</sub> (m) 1 projector	-	2	2	2	2	2	2	2
			D <sub>WS</sub> (m) 2 projector	-	3	2.5	2	2	2	2	2



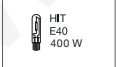
Siteco Mirrortec® Projector 400

	5NW41421RG1		D <sub>WS</sub> (m) 1 projector	-	-	3.5	3	3	3	3	3
			D <sub>WS</sub> (m) 2 projector	-	-	-	-	-	-	-	-
	5NW41421TG1		D <sub>WS</sub> (m) 1 projector	-	-	3.5	3	3	3	3	3
			D <sub>WS</sub> (m) 2 projector	-	-	-	-	-	-	-	-



3. Combinations of the projector with the Siteco Mirrortec® Reflector 100 **symmetrically reflective**;  
angular, 1200 x 1200mm or round,  $\varnothing = 1200\text{mm}$

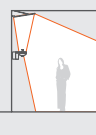
Order no.	Light source	H <sub>s</sub> (m)	6	7	8	9	10	11	12	13	14	15	16
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Siteco Mirrortec® Projector 400

	5NW41421RG1		D <sub>WS</sub> (m) 1 projector	-	3.5	3	3	3	3	3	3	3	3
			D <sub>WS</sub> (m) 2 projector	-	-	4	4	4	4	4	4	4	4
	5NW41421TG1		D <sub>WS</sub> (m) 1 projector	-	3.5	3	3	3	3	3	3	3	3
			D <sub>WS</sub> (m) 2 projector	-	-	4	4	4	4	4	4	4	4

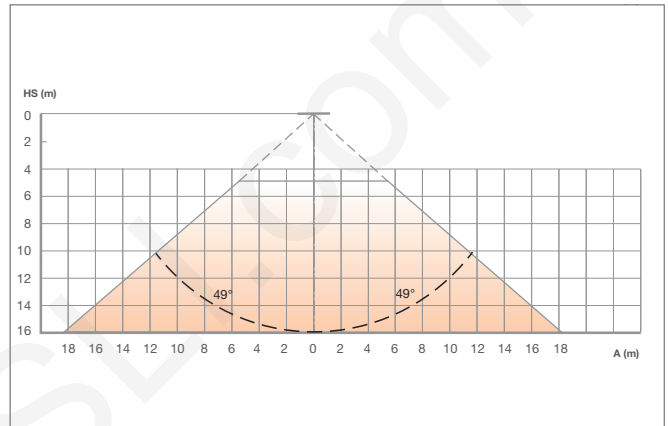
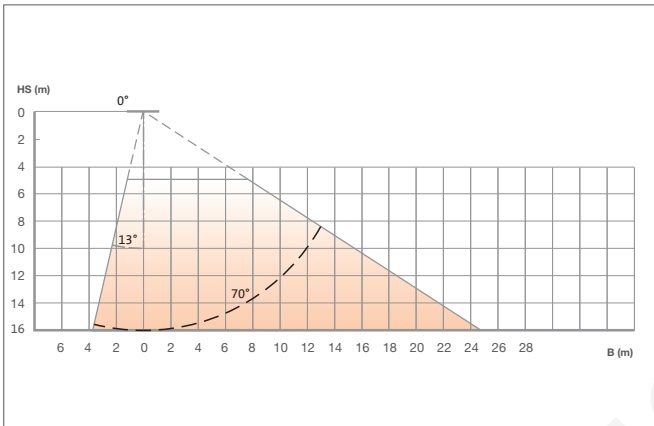
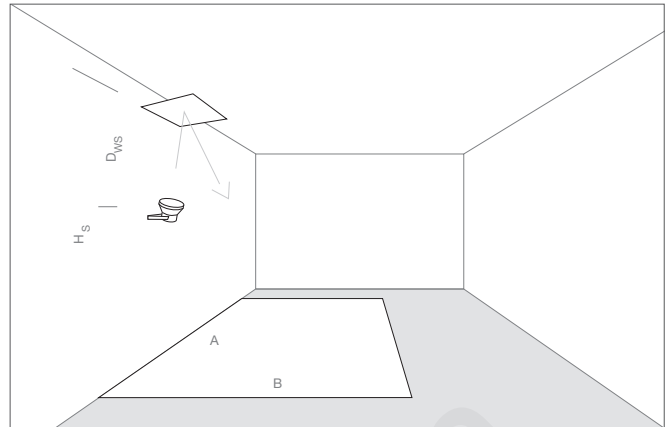
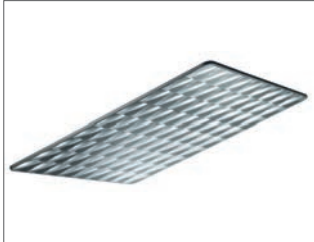
Siteco Mirrortec® Projector 1000

	5NA75601VP11C		D <sub>WS</sub> (m) 1 projector	-	-	-	3	3	3	3	3	3	3
			D <sub>WS</sub> (m) 2 projector	-	-	-	-	3.5	3.5	3	3	3	3





The following tables show **possible secondary reflector combinations** with a recommended minimal distance between the projector and the reflector. Deviations can lead to glare and/or loss of efficiency.



4. Combinations of the projector with the Siteco Mirrortec® Reflector 100A **asymmetrically reflective**; angular, 600 x 600mm

Order no.	Light source	H <sub>s</sub> (m)	5	6	7	8	9	10
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Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-S

	5NX722E1MB08		D <sub>ws</sub> (m) 1 projector	2	2	2	2	-	-
			D <sub>ws</sub> (m) 2 projector	2	2	2	2	-	-

Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-ALU

	5NX724E1MB08		D <sub>ws</sub> (m) 1 projector	2	2	2	2	-	-
			D <sub>ws</sub> (m) 2 projector	2	2	2	2	-	-
	5NX724E1PB08		D <sub>ws</sub> (m) 1 projector	2	2	2	2	2	2
			D <sub>ws</sub> (m) 2 projector	2	2	2	2	2	2



Siteco Mirrortec® Projector 400

	5NW41421RG1		D <sub>ws</sub> (m) 1 projector	-	3	3	3	3	3
			D <sub>ws</sub> (m) 2 projector	-	-	3	3	3	3
	5NW41421TG1		D <sub>ws</sub> (m) 1 projector	-	3	3	3	3	3
			D <sub>ws</sub> (m) 2 projector	-	-	3	3	3	3




5. Combinations of the projector with the Siteco Mirrortec® Reflector 100A **asymmetrically reflective;**  
angular, 900 x 900mm

Order no.	Light source	H <sub>s</sub> (m)	5	6	7	8	9	10	11	12
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Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-S

	5NX722E1MB08		D <sub>WS</sub> (m) 1 projector	2	2	2	2	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	2	2	2	2	-	-	-	-

Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-ALU

	5NX724E1MB08		D <sub>WS</sub> (m) 1 projector	2	2	2	2	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	2	2	2	2	-	-	-	-
	5NX724E1PB08		D <sub>WS</sub> (m) 1 projector	2	2	2	2	2	2	2	2
			D <sub>WS</sub> (m) 2 projector	2	2	2	2	2	2	2	2



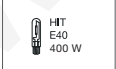
Siteco Mirrortec® Projector 400

	5NW41421RG1		D <sub>WS</sub> (m) 1 projector	-	3	3	3	3	3	3	2	2
			D <sub>WS</sub> (m) 2 projector	-	-	3	3	3	3	3	2	2
	5NW41421TG1		D <sub>WS</sub> (m) 1 projector	-	3	3	3	3	3	3	2	2
			D <sub>WS</sub> (m) 2 projector	-	-	3	3	3	3	3	2	2


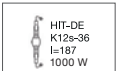
6. Combinations of the projector with the Siteco Mirrortec® Reflector 100A **asymmetrically reflective;**  
angular, 1200 x 1200mm

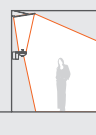
Order no.	Light source	H <sub>s</sub> (m)	6	7	8	9	10	11	12	13	14	15	16
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Siteco Mirrortec® Projector 400

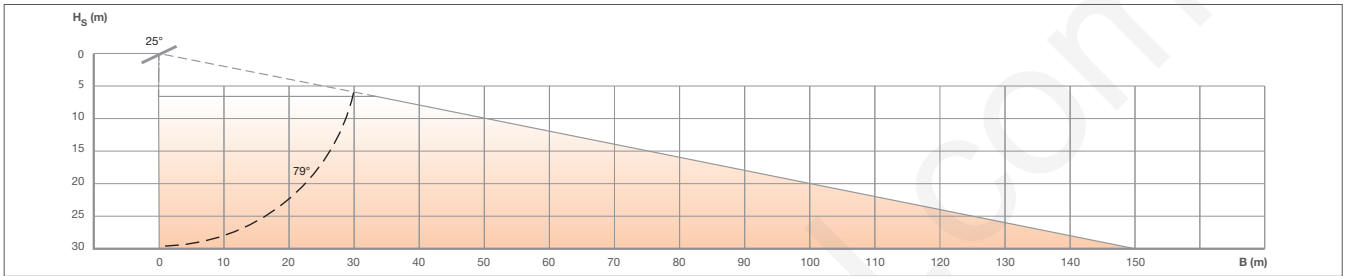
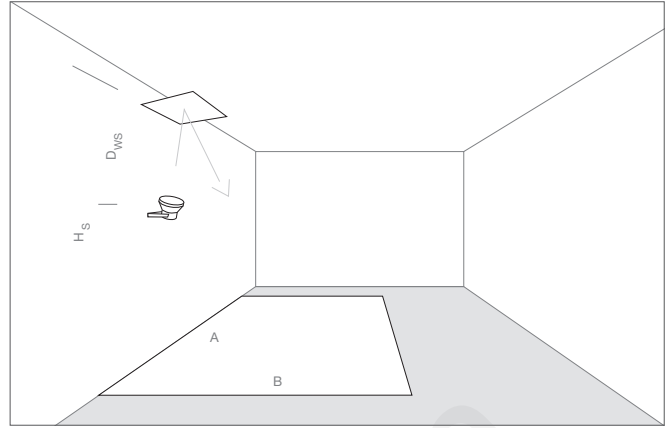
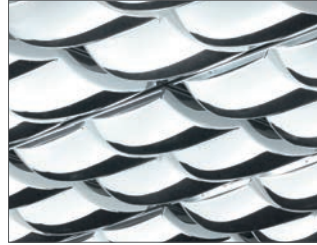
	5NW41421RG1		D <sub>WS</sub> (m) 1 projector	3	3	3	3	3	2	2	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	-	3	3	3	3	3	3	3	3	3	3
	5NW41421TG1		D <sub>WS</sub> (m) 1 projector	3	3	3	3	3	2	2	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	-	3	3	3	3	3	3	3	3	3	3

Siteco Mirrortec® Projector 1000

	5NA75601VP11C		D <sub>WS</sub> (m) 1 projector	-	-	-	3	3	3	3	3	3	3
			D <sub>WS</sub> (m) 2 projector	-	-	-	-	3	3	3	3	3	3



The following tables show **possible secondary reflector combinations** with a recommended minimal distance between the projector and the reflector. Deviations can lead to glare and/or loss of efficiency.



7. Combinations of the projector with the Siteco Mirrortec® Reflector 200CA **asymmetrically reflective**; angular, 844 x 852mm

Order no.	Light source	H <sub>s</sub> (m)	5	6	7	8	9	10
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Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-S

	5NX722E1MB08		D <sub>WS</sub> (m) 1 projector	2	2	2	2	-	-
			D <sub>WS</sub> (m) 2 projector	3	3	3	3	3	3

Siteco Mirrortec® Projector SiCOMPACT® R1 MINI-ALU

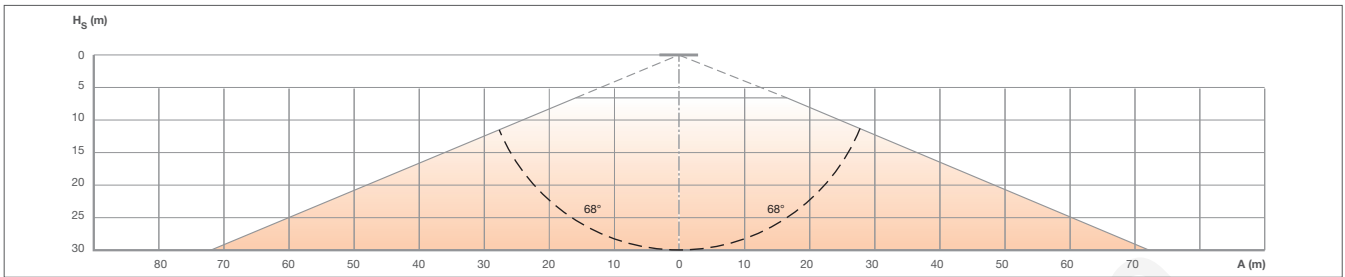
	5NX724E1MB08		D <sub>WS</sub> (m) 1 projector	2.5	2	2	2	-	-
	5NX724E1PB08		D <sub>WS</sub> (m) 2 projector	3	3	3	3	3	3

Siteco Mirrortec® Projector 400

	5NW41421RG1		D <sub>WS</sub> (m) 1 projector	-	-	3.5	3	3	3
	5NW41421TG1		D <sub>WS</sub> (m) 2 projector	-	-	-	4	4	4

Siteco Mirrortec® Projector 1000




	5NA75601VP11C		D <sub>WS</sub> (m) 1 projector	-	-	4	3.5	3	3
			D <sub>WS</sub> (m) 2 projector	-	-	-	-	-	4




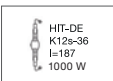
8. Combinations of the projector with the Siteco Mirrortec® Reflector 200CA **asymmetrically reflective**; angular, 1262 x 1275mm

Order no.	Light source	H <sub>s</sub> (m)	10	11	12	13	14	15	16	17	18
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Siteco Mirrortec® Projector 400

	5NW41421RG1		D <sub>WS</sub> (m) 1 projector	3	3	3	3	3	3	3	-	-
			D <sub>WS</sub> (m) 2 projector	4	4	4	4	4	4	4	4	-
	5NW41421TG1		D <sub>WS</sub> (m) 1 projector	3	3	3	3	3	3	3	3	3
			D <sub>WS</sub> (m) 2 projector	4	4	4	4	4	4	4	4	4




Siteco Mirrortec® Projector 1000

	5NA75601VP11C		D <sub>WS</sub> (m) 1 projector	3.5	3	3	3	3	3	3	3	3
			D <sub>WS</sub> (m) 2 projector	-	-	4	4	4	4	4	4	4


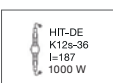
9. Combinations of the projector with the Siteco Mirrortec® Reflector 200CA **asymmetrically reflective**; angular, 1680 x 1698mm

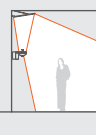
Order no.	Light source	H <sub>s</sub> (m)	14	15	16	17	18	19	20	21	22	23	24
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Siteco Mirrortec® Projector 400

	5NW41421RG1		D <sub>WS</sub> (m) 1 projector	3	3	3	3	3	-	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	4	4	4	4	4	4	4	4	4	4
	5NW41421TG1		D <sub>WS</sub> (m) 1 projector	3	3	3	3	3	-	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	4	4	4	4	4	4	4	4	4	4

Siteco Mirrortec® Projector 1000

	5NA75601VP11C		D <sub>WS</sub> (m) 1 projector	3	3	3	3	3	-	-	-	-	-
			D <sub>WS</sub> (m) 2 projector	4	4	4	4	4	4	4	4	4	4



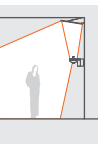
# Siteco Mirrortec® Reflector 100 | ... 100A

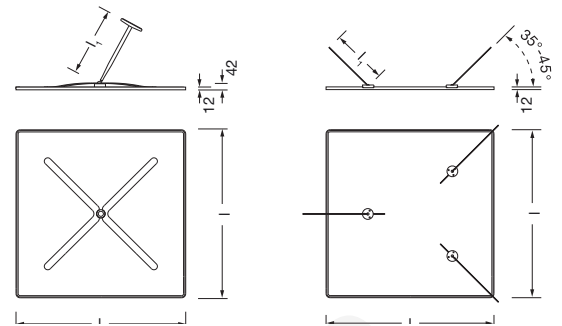


Siteco Mirrortec® Reflector 100 and ... 100A are components of the Siteco Mirrortec® system, based upon the principle of secondary reflection. Both reflectors have been designed on the basis of the patented Siteco® Fresnel reflector technology, enabling a very flat construction and precise targeting of each single facet. According to reflector specification, symmetric (Reflector 100) or asymmetric (Reflector 100A) light distribution is emitted. The reflectors are fixed either with a robust ball-and-socket joint pendant for ceiling/wall mounting or via wire suspension.

## Features

- ultra-flat faceted reflector with Fresnel technology
- very good optical characteristics: brilliant appearance with superior light point resolution; defined beam area with good uniformity
- the light source is not visible even from greater distances
- high-quality design, minimal construction height
- depth effect of facets
- low installation effort, low weight
- easy cleaning with washable, flat front





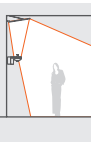
### Siteco Mirrortec® Reflector 100 square construction | symmetric light distribution

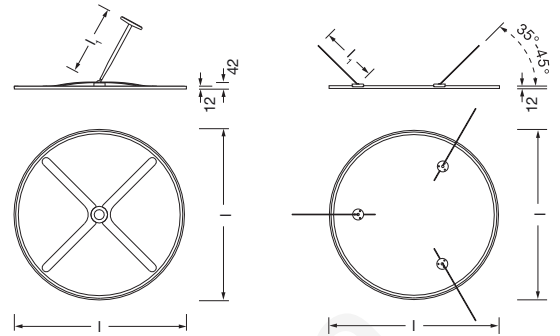
Ultra-flat light point resolution reflector

- Fresnel technology for symmetric light distribution
- 100 x 100mm Fresnel facets with flat, smooth front side
- aluminum hexagonal structure as baseplate with extruded aluminum frame

- applications: indoors; version suitable for swimming pools on request
- recommended reflector height:  $H = 5 \dots 16\text{m}$




Designation	$\frac{l}{\text{[mm]}}$	$\frac{h}{\text{[mm]}}$	$\frac{kg}{\text{[kg]}}$	Order no. OSRAM	Order no. Siteco
Fresnel reflector 100, square, incl. pendant suspension					
600	618	330	5.0	4039806449641	5NW13991QA
900	919	490	9.3	4039806449658	5NW13991QB
1200	1221	640	15.4	4039806449665	5NW13991QC
Fresnel reflector 100, square, incl. 3 pcs. single-wire suspension					
600	618	1400	4.5	4039806449764	5NW13993QA
900	919	1400	8.3	4039806449771	5NW13993QB
1200	1221	1400	14.0	4039806449788	5NW13993QC

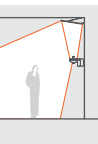




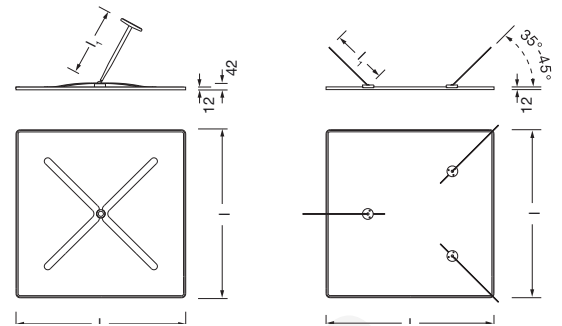
**Siteco Mirrortec® Reflector 100**  
**round construction | symmetric light distribution**

- Ultra-flat light point resolution reflector
- Fresnel technology for symmetric light distribution
- 100 x 100mm Fresnel facets with flat, smooth front side
- aluminum hexagonal structure as baseplate with extruded aluminum frame
- applications: indoors; version suitable for swimming pools on request
- recommended reflector height: H = 5...16m

Designation	 d [mm]	 l [mm]	 kg	Order no. OSRAM	Order no. Siteco
Fresnel reflector 100, round, incl. pendant suspension					
600	618	330	5.0	4039806449610	5NW13991KA
900	919	490	9.3	4039806449627	5NW13991KB
1200	1221	640	13.5	4039806449634	5NW13991KC
Fresnel reflector 100, round, incl. 3 pcs. single-wire suspension					
600	618	1400	3.4	4039806449733	5NW13993KA
900	919	1400	6.1	4039806449740	5NW13993KB
1200	1221	1400	11.8	4039806449757	5NW13993KC





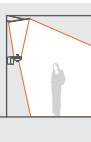


### Siteco Mirrortec® Reflector 100A square construction | asymmetric light distribution

- Ultra-flat light point resolution reflector
- Fresnel technology for asymmetric light distribution
- 75 x 100mm Fresnel facets with flat, smooth front side
- aluminum hexagonal structure as baseplate with extruded aluminum frame

- applications: indoors; version suitable for swimming pools on request
- recommended reflector height:  $H = 5 \dots 16\text{m}$

Designation	$\frac{l}{\text{[mm]}}$	$\frac{H}{\text{[mm]}}$	$\frac{kg}{\text{[kg]}}$	Order no. OSRAM	Order no. Siteco
Fresnel reflector 100, square, incl. pendant suspension					
600	618	330	5.0	4039806588555	5NW14091QA
900	919	490	9.3	4039806588562	5NW14091QB
1200	1221	640	15.4	4039806588586	5NW14091QC
Fresnel reflector 100, square, incl. 3 pcs. single-wire suspension					
600	618	1400	4.5	4039806568441	5NW14093QA
900	919	1400	8.3	4039806568465	5NW14093QB
1200	1221	1400	14.0	4039806568489	5NW14093QC



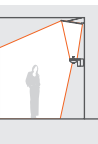
# Siteco Mirrortec® Reflector 200CA

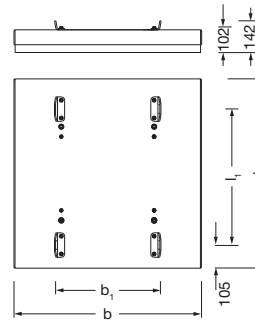


The Siteco Mirrortec® Reflector 200CA is a component of the Siteco Mirrortec® system based upon the principle of secondary reflection. The reflector 200CA emits asymmetric distribution and is constructed with convex free-form facets. The reflector can be mounted either with wire mounting, a wall fixing element or pendants.

## Features

- can be deployed at high heights
- ideal light point resolution for the illumination of large indoor areas
- free-form facets guarantee a high level of uniformity in the illuminated area
- long life via protected reflector surface
- extensive mounting accessories available




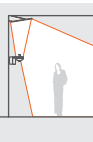


### Siteco Mirrortec® Reflector 200CA square construction | asymmetric light distribution

Light point resolution reflector

- convex free-form single facets for asymmetric light distribution
- reflector facets of rigid polymer material, highly specular aluminized and sealed
- reflector elements each with 4 single facets (200 x 200mm) on an aluminum baseplate
- several reflector elements combined to one reflector, mounted on torsionally rigid support system of alloyed aluminum
- applications: indoors; also suitable for swimming pools with corresponding accessories
- recommended reflector height:  $H = 7 \dots 30\text{m}$

$l$ [mm]	$l_1$ [mm]	$b$ [mm]	$b_1$ [mm]		Order no. OSRAM	Order no. Siteco
850	650	845	480	20.0	4039806270238	5NW72640QA
1275	1070	1260	900	39.7	4039806270252	5NW72640QB
1700	1205	1680	1315	65.0	4039806265135	5NW72640QC



### Siteco Mirrortec® Reflector 200CA mounting accessories

#### Wire suspension (not shown)

4-point ceiling suspension for variable heights to 2m | with turnbuckle for fine adjustment | for reflector inclination 15°...25°

#### Wall connection (not shown)

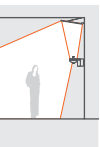
4-point wall connection with wall connection elements and wires for oblique suspension from the wall | with turnbuckle for fine adjustment | for reflector inclination to 45°

#### Pendant suspension (not shown)

4-point pendant suspension with chlorine-resistant pendants for suspension heights to 1.75m | with height adjustment | with cross hole  $\varnothing = 14\text{mm}$  on ceiling side, for ceiling connection implemented on-site

Designation	Order no. OSRAM	Order no. Siteco
Wire suspension	4039806257512	5NW92640A
Wall connection	4039806257796	5NW92640B
Chlorine-resistant pendants	4039806257819	5NW92640C

— load capacity of suspension: max. 120kg (maintenance specifications in the installation instructions must be observed)







# SiCOMPACT® R1 MINI



The projectors of the SiCOMPACT® R1 MINI family with narrow light distribution are suitable for combining with Siteco Mirrortec® reflectors and fit within the Siteco Mirrortec® system. They are also outstandingly suitable for the illumination of horizontal surfaces as part of sophisticated architectural lighting.

## Features

- ideal for short projector-reflector distances
- compact diecast aluminum housing with narrow distribution lighting
- with pressure equalization port preventing condensation in housing
- high efficiency with compact design
- all electric components integrated into housing
- universal use for indoors and outdoors

## Lighting technology

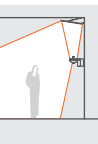
Highly specular aluminum reflector with rotationally symmetric narrow light distribution | lamp recommendation: OSRAM HCI-T

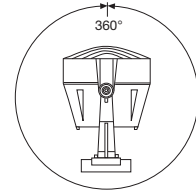
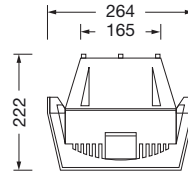
## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 7...14mm; optional protective tubing for cable to projector | with integral control gear (LLCG, parallel pf-corrected), specially separated from lamp compartment

## Housing

Housing of diecast aluminum; mounting bracket of galvanized steel (SiCOMPACT® R1 MINI-S) or diecast aluminum (SiCOMPACT® R1 MINI-ALU); all parts coated in Siteco® metallic gray (DB 702S) | luminaire cover of toughened safety glass | pressure equalization system with air-permeable membrane for condensation avoidance in housing

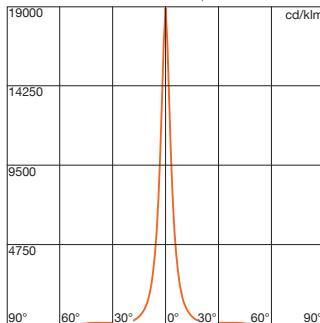




4039806436276

5NX722E1MB08

1 x HIT-CE 70W/c/830  $\phi$  7400 lm



$I_{max}$  18903 cd/klm at  $\gamma$  0°

	C 0/180	C 90/270
$\alpha_{50\%}$	2 x 3.3°	2 x 3.3°
$\alpha_{10\%}$	2 x 8.9°	2 x 8.9°

**SiCOMPACT® R1 MINI-S**  
**narrow distribution**

Projector for mounting to cross arms, vertical and horizontal surfaces

- with aluminum reflector, highly specular, narrow distribution; with transparent cover panel
- with LLCG, parallel pf-corrected and ignitor

- housing of diecast aluminum; mounting bracket of steel; Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP65
- insulation class: I
- application area: indoors or outdoors
- recommended distance from projector to reflector:  $D_{WS} = 2 \dots 3m$



**Light source**



**Order no.**  
**OSRAM**

**Order no.**  
**Siteco**

1x HIT-CE 70 W

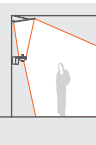
G12

4.7

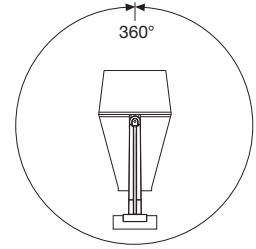
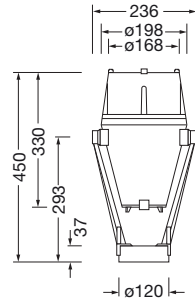
LLCG

4039806436276

5NX722E1MB08

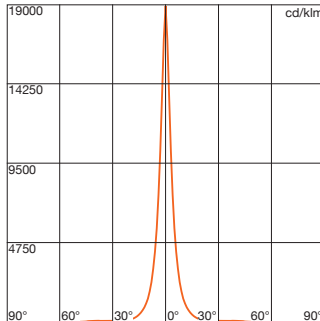






4039806258687  
5NX724E1MB08

1 x HIT-CE 70W/c/830  $\phi$  7400 lm



$I_{max}$  18903 cd/klm at  $\gamma$  0°

	C 0/180	C 90/270
$\alpha_{50\%}$	2 x 3.3°	2 x 3.3°
$\alpha_{10\%}$	2 x 8.9°	2 x 8.9°

**SiCOMPACT® R1 MINI-ALU**  
**narrow distribution**

Projector for mounting to cross arms, vertical and horizontal surfaces

- with aluminum reflector, highly specular, narrow distribution; with transparent cover panel
- with LLCG, parallel pf-corrected and ignitor
- housing and design mounting bracket of diecast aluminum; Siteco® metallic gray

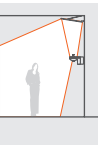
(DB 702S); cover of toughened safety glass

- protection rating: IP65
- insulation class: I
- application area: indoors or outdoors
- recommended distance from projector to reflector:  $D_{WS} = 2...3m$



**Light source**

				<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
1x HIT-CE 70 W	G12	5.9	LLCG	4039806258687	5NX724E1MB08
1x HIT-CE 150 W	G12	6.4	LLCG	4039806258724	5NX724E1PB08



### SiCOMPACT® R1 MINI-S | ... MINI-ALU – optical accessories



#### Baffle ring

for glare reduction when viewed directly | galvanized, coated black (RAL 9005, matt)

Designation	Order no. OSRAM	Order no. Siteco
Baffle ring	4039806223500	5NX72400XB01

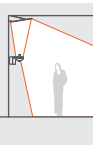
### SiCOMPACT® R1 MINI-ALU – mounting accessories



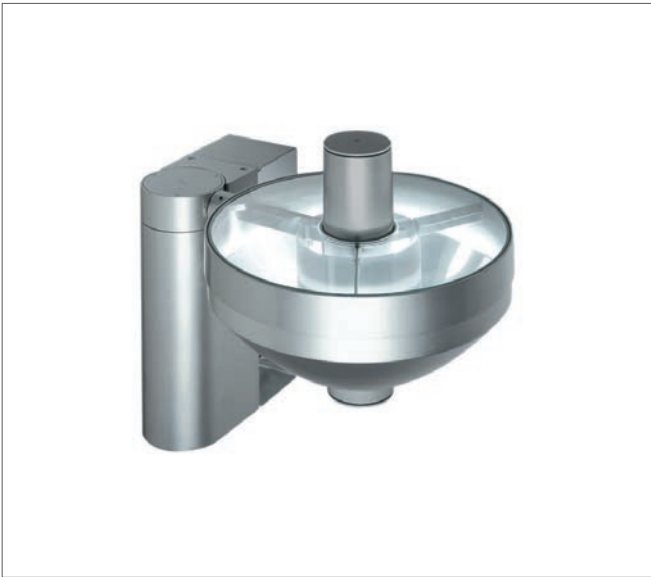
#### Wall bracket

for mounting the projector | wall arm of diecast aluminum, Siteco® metallic gray (DB 702S)

Designation	Order no. OSRAM	Order no. Siteco
Wall bracket	4039806088758	5NY72400XW18



# Siteco Mirrortec® Projector 400



The rotationally symmetric Siteco Mirrortec® projectors have been specially developed for combining with Siteco Mirrortec® reflectors. The projectors are characterized by high efficiency and narrow light beam with narrow half-peak divergence, without light spill. This is made possible with precise optics: with the parallel beam version, the inverse lamp position controls the beam area of  $\pm 2.3$  degrees so exactly that the projectors are suitable as projector systems for the Siteco Mirrortec® reflectors as well as for the precise, point illumination of towers and buildings. The compact projector is manufactured of high-quality diecast aluminum for easy handling: The projector head and electrical housing that additionally functions as a wall surface mounting module are separately constructed, but connected via a rotating hinge. This enables the projector head to be variably adjusted and securely fixed with three screws.

## Features

- patented lighting technology specially developed for secondary reflector systems: inverse mounting position and axial lamp arrangement for parallel light distribution
- extremely narrow distribution for optimal light point resolution
- high level of uniformity on the reflector with minimal light spill
- simple, discreet design
- can be universally used for indoors and outdoors
- compact construction with diecast aluminum housing
- optimized housing design: no shadows from base or lampholder
- tool-free relamping

## Lighting technology

Due to patented lighting technology with inverse mounting position, the beam area is precisely defined:

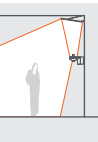
- parallel distribution optimized for secondary reflectors, maximum light output ratio and uniform illumination in  $\pm 5.2^\circ$  beam range | significantly reduced light immission with less than 1.6% of luminous flux outside of range  $\pm 10^\circ$

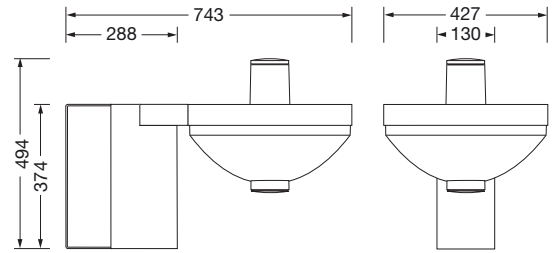
## Electrics

Projector wired ready for connection | with 3-pole connection terminal, max.  $2.5\text{mm}^2$  | cable entry for cable  $D=6\dots 12\text{mm}$  | with LLCG, parallel pf-corrected, and with ignitor

## Housing

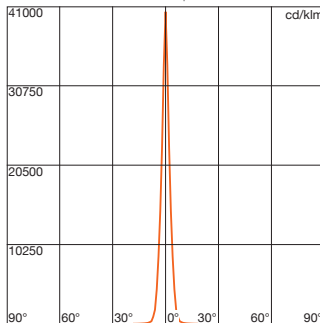
Housing of diecast aluminum, coated white aluminum (RAL 9006) | projector head and electrical housing with pan-and-tilt connection; temperature-resistant cover panel | plated and anodized aluminum reflector | tool-free relamping via opening of upper tube hood





4039806371393  
5NW41421RG1

1 x HIT 250W/c/952       $\phi$  19000 lm



$I_{max}$  40309 cd/klm at  $\gamma$  0°

	C 0/180	C 90/270
$\alpha_{50\%}$	2 x 2.3°	2 x 2.3°
$\alpha_{10\%}$	2 x 5.2°	2 x 5.2°

**Siteco Mirrortec® Projector 400 parallel distribution**

- For surface mounting to a wall or mast
- patented lighting technology with inverse mounting position; aluminum reflector, highly specular, parallel distribution; with transparent cover
- with LLCG, parallel pf-corrected and ignitor
- housing of diecast aluminum, white aluminum (RAL 9006); reflector of plated and

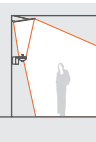
- anodized aluminum, matt exterior; cover of toughened safety glass
- protection rating: IP65
- insulation class: I
- application area: indoors or outdoors
- recommended distance from projector to reflector:  $D_{WS} = 2 \dots 4m$



**Light source**

				Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
1x HIT 250 W	E40	19.0	LLCG	4039806371393	5NW41421RG1
1x HIT 400 W	E40	20.0	LLCG	4039806371416	5NW41421TG1

— recommended lamps with 400W: OSRAM HQI-BT 400W  
Note on lamp selection: when specifying lamps, the permissible lamp burning position must be considered (specification by lamp manufacturer)



# Siteco Mirrortec® Projector 1000



The Siteco Mirrortec® Projector 1000 is suitable for combining with the Siteco Mirrortec® reflectors and fits within the Siteco Mirrortec® system. The projector fulfills the highest demands for performance and visual comfort as well as energy efficiency and operating cost efficiency. Its innovative construction combines state-of-the-art lighting and luminaire technology. The lighting technology has been optimized for the use of high efficiency 1000 W HQI-TS lamps and via the special reflector geometry allows precise control of light with minimal light spill and glare.

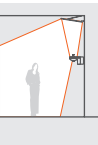
The narrow light distribution achieves a luminous intensity of 30,000 cd/klm. For longer maintenance cycles and a very high luminaire service life, the projector is equipped with an efficient thermal management system, reflected in the construction of the luminaire:

Distinct heat sink ribs dominate the appearance of the rear: A robust and practical locking catch secures the rear that can be opened for maintenance of the electrics and optics. The luminaire form and front side determine the relatively large-area optic.

Construction of the housing has been kept as flat and as efficient as possible in order to minimize the effects of wind.

## Features

- thermal management: main reflector = housing
- thermal management: rear reflector tight-fits to housing
- flat construction: low windage area, low weight
- housing with integral cooling elements
- thermal decoupling of connection box with integral ignitor
- lamp cover of ceramic glass; with protective grid
- narrow optics with a luminous intensity of 30,000 cd/klm
- luminaire light output ratio  $\eta_{LB} = 87\%$
- trapezoid bracket for robust fixing and flexible mounting (oblong slot plus two additional mounting holes)
- housing of extruded aluminum
- with pressure equalization port preventing condensation in housing
- all-pole mains disconnection with opening of housing
- no external cables due to integrated terminal box and ignitor box



## Lighting technology

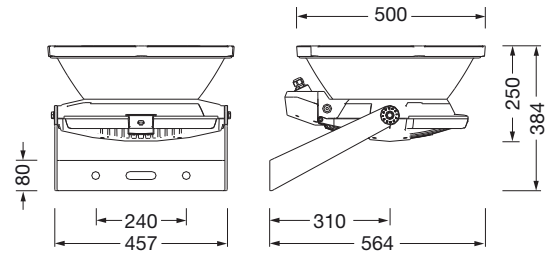
Highly specular aluminum reflector with rotationally symmetric narrow light distribution

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal (version for instant hot re-ignition: 4-pole connection terminal), max. 2.5mm<sup>2</sup> | cable entry for cable D= 6...12mm | luminaire for separate CG unit; ignitor or ignitor for instant hot re-ignition integrated in luminaire housing | all-pole mains disconnection with opening of housing

## Housing

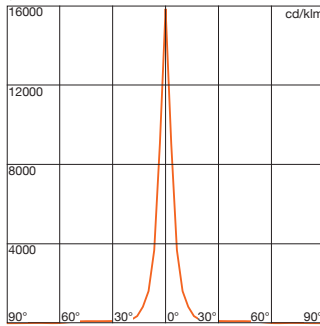
2-part housing of diecast aluminum, coated in Siteco® metallic gray (DB 702S); with side mounting bracket of galvanized steel | all-round weather-resistant sealing in housing profile | cover of flat glass ceramic | mounting bracket with adjustment feature for floodlight, with twist protection | pressure equalization system with air-permeable membrane for condensation avoidance in the housing | insulation class: I | protection rating: IP65



4039806857064

5NA75601VP11C

1 x HIT-DE-h151000W959 Leitung I=187  
 φ 90000 lm



$I_{max}$  15838 cd/klm at  $\gamma$  0°

	—	- - - -
	C 0/180	C 90/270
$\alpha_{50\%}$	2 x 3.7°	2 x 3.7°
$\alpha_{10\%}$	2 x 9.8°	2 x 9.8°

**Siteco Mirrortec® Projector 1000 narrow distribution**

For mounting to cross arms, vertical and horizontal surfaces

- with aluminum reflector, highly specular, narrow distribution; with transparent cover panel
- for separate CG unit; with ignitor, optionally with hot re-ignition
- housing and ring of cover of diecast aluminum; mounting bracket of galvanized steel; all parts in Siteco® metallic gray (DB 702S); reflector of aluminum,

matt outside; cover of glass ceramic; with protective grid

- protection rating: IP65
- insulation class: I
- without CG unit
- application area: indoors or outdoors
- recommended distance from projector to reflector:  $D_{WS} = 3...4m$



**Light source**



**OSRAM**  
order no.

**Order no.**  
**Siteco**

with ignitor

1x HIT-DE I=187 1000 W	K12s-36	11.5	-	4039806857064	5NA75601VP11C
------------------------	---------	------	---	---------------	---------------

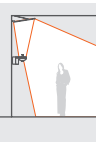
with ignitor (with hot re-ignition)

1x HIT-DE I=187 1000/2000 W	K12s-36	16.5	-	4050737017044	5NA75671WP11C
-----------------------------	---------	------	---	---------------	---------------

- please order CG unit separately

**Mandatory accessories (for details see page 11.27)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
LLCG, ind., for 1x HIT-DE 1000W	12.1	4050737016016	5NA77901VE0
LLCG, parallel pf-corrected, for 1x HIT-DE 1000W, without fuse	15.5	4039806848482	5NA77921VRO



**Siteco Mirrortec® Projector 1000 electrical accessories**



Fig. 1

**Control gear unit**

for mounting to wall, in switching cabinet, to supporting structure, in correspondingly dimensioned masts or in canopied outdoor areas | compact unit for operation of projector; with control unit, compensation capacitor | wired ready for connection with 9-pole connection terminal, max. 6mm<sup>2</sup> | cable gland for cables D= 8...13.5mm | capsuled casting resin, black; baseplate with 2 fixing points | protection rating: IP65 | insulation class: I



Fig. 2

**Control unit**

for installation in switching cabinet, without pf correction | 3x 4mm<sup>2</sup> connection terminal | capsuled casting resin, black | baseplate with 4 fixing points | protection rating: IP20 | insulation class: I

for lamps	Fig.	Lamp current (A)	Line voltage (V)	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Control unit, pf-corrected, IP65						
HIT-DE 1000W	1	9.5	220/230/240	15.5	4039806848482	5NA77921VR0
Control unit with terminals, without pf correction, IP20						
HIT-DE 1000W	2	9.5	230/240	12.1	4050737016016	5NA77901VE0

Fig. 1

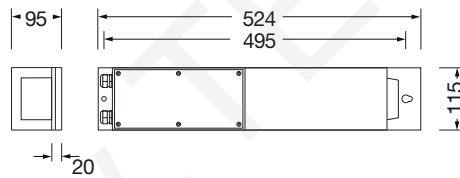
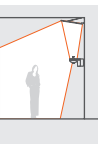
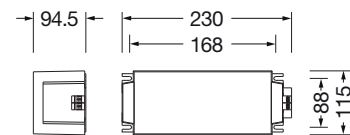


Fig. 2













**Surface-mounted LED luminaires**



CL LED Ceiling  
Page 12.7



CL LED Wall  
Page 12.11



CL LED Linear  
Ceiling  
Page 12.15



CL LED Linear  
Wall  
Page 12.19



NOXLITE® LED  
CIRCULAR  
Page 12.23

**Surface-mounted luminaires**



NOXLITE®  
HALOGEN  
Page 12.27

**LED spotlights**



CL LED  
Spotlight 10  
Page 12.29

**Projectors**



SiCOMPACT®  
R1 MINI  
Page 12.33



Siteco Mirrortec®  
Projector 400  
Page 12.39

**Recessed LED luminaires**



AquaLED® 2  
Page 12.41

**Recessed luminaires**



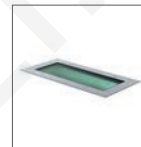
CW 91  
Page 12.49



CW 96  
Page 12.49



CB 90  
Page 12.53



CB 95  
Page 12.53

**LED bollards**



CL LED  
Bollard  
Page 12.59



CITY-LIGHT LED  
bollards  
Page 12.65

**Bollards**



CITY-LIGHT  
bollards  
Page 12.65

**LED pillars**









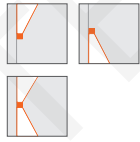
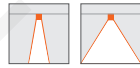
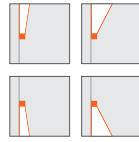
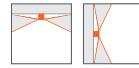

CITY-LIGHT LED  
pillars  
Page 12.65

**Pillars**

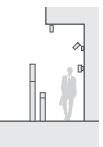


CITY-LIGHT  
pillars  
Page 12.65



		Surface-mounted LED luminaires				Surface-mounted luminaires	
							
		CL LED Ceiling	CL LED Wall	CL LED Linear Ceiling	CL LED Linear Wall	NOXLITE® LED CIRCULAR	NOXLITE® HALOGEN
<b>Light source</b>	LED	■	■	■	■	■	
	HIT/HSE						
	TC-DEL/LEL						
	TC-D/DD/T						
	QT						■
<b>Place of installation</b>	ceiling	■		■		■	
	wall		■		■	■	■
	ground/mast						
<b>Installation method</b>	surface-mounted	■	■	■	■	■	■
	recessed						
<b>Light distribution</b>							

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LED spotlights

Projectors



CL LED  
Spotlight 10



SiCOMPACT®  
R1 MINI




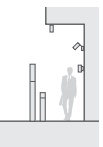
Siteco Mirrortec®  
Projector 400




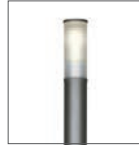
■		
	■/-	■/-
■	■	■
■	■	■
■/-	■/■	■/■
■	■	■

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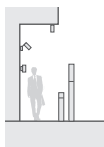


		Recessed LED luminaires	Recessed luminaires			LED bollards	
							
		AquaLED® 2	CW 91	CW 96	CB 90	CB 95	CL LED Bollard
<b>Light source</b>	LED	■					■
	HIT/HSE/HST				■/-	■/-/■	
	TC-DEL/LEL						
	TC-D/DD/T		■/■/■	■/-/	-/-/■		
	A/QT		■/-	-/■			
<b>Place of installation</b>	ceiling						
	wall		■	■			
	ground/mast	■/-			■/-	■/-	■/-
<b>Installation method</b>	surface-mounted						■
	recessed	■	■	■	■	■	
<b>Light distribution</b>							
	single-sided						■
	double-sided						■
	on all sides						
	asymmetric						
	symmetric						



	Bollards	LED pillars	Pillars
			
CITY-LIGHT LED bollards	CITY-LIGHT bollards	CITY-LIGHT LED pillars	CITY-LIGHT pillars
■		■	
	-/■/-		-/■/-
	-/■		-/■
■/-	■/-	■/-	■/-
■	■	■	■
■	■	■	■
■		■	
■	■	■	■

www.tesli.com





# CL LED Ceiling



CL LED Ceiling 10 MINI | ... MIDI are integral components of the facade and path luminaires of the CL LED series. The surface-mounted ceiling luminaires feature a purist construction design with a high level of workmanship: The luminaire housing is completely of diecast aluminum, and gaskets and glass cover flush fit without joints to the housing. For the two length variations, two different light colors are available.

An outstanding feature of the luminaires is the purist, integrative and simultaneously highly functional design. The diverse configurations and variants offer a high level of flexibility for design purposes in context with the architecture. Across all individual luminaire types, the CL LED family features a standardized LED platform that ensures consistent quality, performance and light color.

### Features

- discreet, integral design for use in a wide diversity of architectural surroundings (iF product design award 2008)
- one uniform LED platform with two different light colors (warm white or neutral white) and good color rendering (CRI > 80) reduces complexity and simultaneously increases the design unity
- long operating life for housing of high-quality, robust die-cast aluminum and for the LED module (up to 50,000h)
- high-performance optics specifically developed for LED platform, with clean cut-off for the precise illumination of horizontal and vertical surfaces

### Lighting technology

Rotationally symmetric medium distribution

### Electrics

Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 8.5...12mm

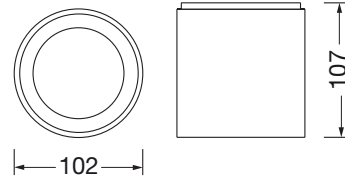
### Housing

Robust luminaire housing of extruded aluminum with compact dimensions, housing surface with weather-resistant powder coating in Siteco® metallic gray (DB 702S) | protection of glass edge due to housing design | cover of toughened safety glass, fixed without visible screws | air-permeable membrane for pressure equalization and condensation avoidance | insulation class: I | protection rating: IP65

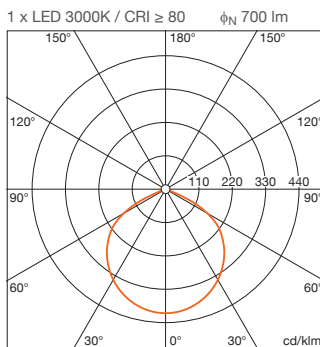
Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.



LED



4050737462431  
5AA610501W



**CL LED Ceiling 10 MINI**

- Downlight for ceiling surface mounting
- rotationally symmetric medium distribution; luminaire with transparent cover
  - LED operating electronics integrated in housing
  - housing of aluminum, powder-coated in Siteco® metallic gray (DB 702S); cover of

- toughened safety glass, fits flush to housing
- protection rating: IP65
- insulation class: I

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data

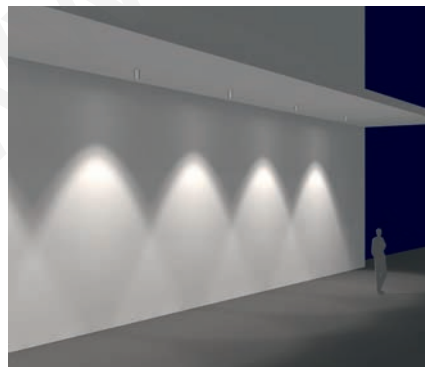


C 0/180 C 90/270

H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	5.84	72	35
3	8.76	32	15
4	11.68	18	9
5	14.60	11	6
6	17.53	8	4

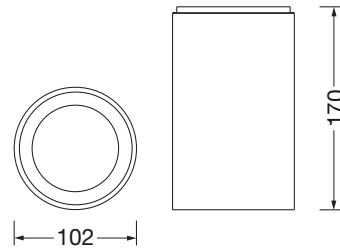
Light source	K	R <sub>a</sub>	lm	W		Order no. OSRAM	Order no. Siteco
LED	3000	> 80	700	12.5	1.1	4050737462431	5AA610501W
LED	4000	> 80	700	12.5	1.1	4050737461472	5AA610501N

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

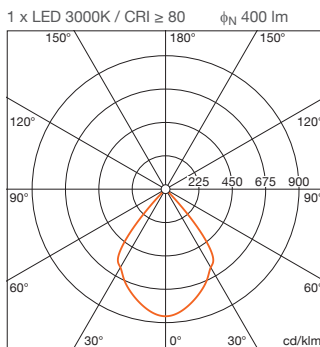




LED



4050737461496  
5AA620511W



**CL LED Ceiling 10 MIDI**

- Downlight for ceiling surface mounting
- rotationally symmetric medium distribution; luminaire with transparent cover
  - LED operating electronics integrated in housing
  - housing of aluminum, powder-coated in Siteco® metallic gray (DB 702S); cover of

- toughened safety glass, fits flush to housing
- protection rating: IP65
- insulation class: I

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data

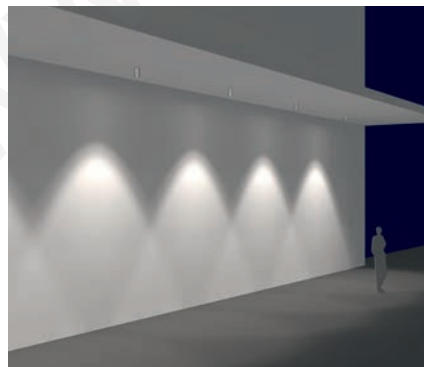


— C 0/180    - - - C 90/270

H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	3.14	86	56
3	4.70	38	25
4	6.27	21	14
5	7.84	14	9
6	9.41	10	6

Light source	K	R <sub>a</sub>	lm	W		Order no. OSRAM	Order no. Siteco
LED	3000	> 80	400	12.5	1.4	4050737461496	5AA620511W
LED	4000	> 80	400	12.5	1.4	4050737462318	5AA620511N

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25





W



# CL LED Wall



CL LED Wall 10 MINI | ... MIDI | ... MAXI are integral components of the facade and path luminaires of the CL LED series. The surface-mounted wall luminaires feature a purist construction design with a high level of workmanship: The housing consists completely of diecast aluminum. The gaskets and glass cover fit flush without joints. For the three length variations, two different light colors and differing accessories for various lighting tasks are available (MAXI).

An outstanding feature of the luminaires is the purist, integrative and simultaneously highly functional design. The diverse configurations and variants offer a high level of flexibility for design purposes in context with the architecture. Across all individual luminaire types, the CL LED family features a standardized LED platform that ensures consistent quality, performance and light color.

## Features

- discreet, integral design for use in a wide diversity of architectural surroundings (iF product design award 2008)
- one uniform LED platform with two different light colors (warm white or neutral white) and good color rendering (CRI > 80) reduces complexity and simultaneously increases the design unity
- long operating life for housing of high-quality, robust diecast aluminum and for the LED module (up to 50,000h)
- high-performance optics specifically developed for LED platform, with clean cut-off for the precise illumination of horizontal and vertical surfaces
- various light distribution patterns or light characteristics (colors) due to optical accessory covers increase design flexibility (MAXI)

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 8.5...12mm | for accommodation of on-site cable routing: wall mount can be rotated through 180°

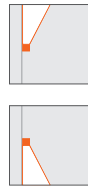
## Housing

Robust 2-part luminaire housing of extruded aluminum with compact dimensions, housing surface with weather-resistant powder coating in Siteco® metallic gray (DB 702S) | protection of glass edge due to housing design | cover of toughened safety glass, fixed without visible screws | air-permeable membrane for pressure equalization and condensation avoidance | insulation class: I | protection rating: IP65

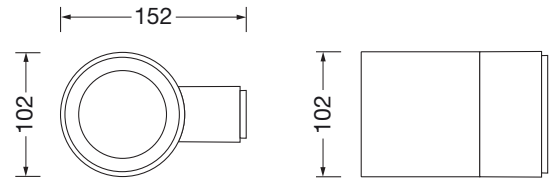
## Lighting technology

Luminaire as downlight, uplight or with two-sided light emission | rotationally symmetric medium distribution; elliptical light distribution and color accenting via additional filter discs (MAXI)

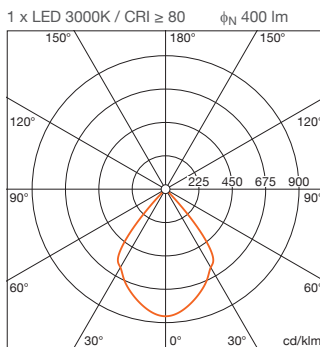
Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.



LED



4050737462516  
5AA510501W



**CL LED Wall 10 MINI**

Uplight and downlight for wall surface mounting

- light emission above or below; rotationally symmetric medium distribution; luminaire with transparent cover
- LED operating electronics integrated in housing

- housing of aluminum, powder-coated in Siteco® metallic gray (DB 702S); cover of toughened safety glass, fits flush to housing
- protection rating (lamp compartment): IP65
- insulation class: I

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data

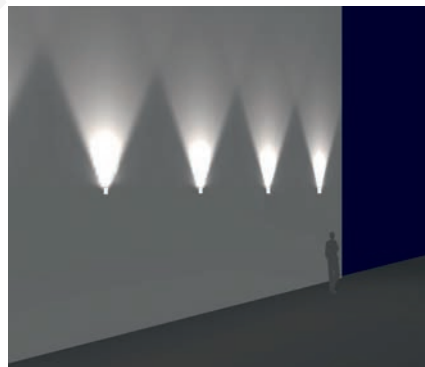


— C 0/180    - - - - C 90/270

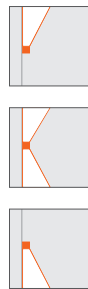
H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	3.14	86	56
3	4.70	38	25
4	6.27	21	14
5	7.84	14	9
6	9.41	10	6

Light source	K	R <sub>a</sub>	lm	W		Order no. OSRAM	Order no. Siteco
Light emission above							
LED	3000	> 80	400	12.5	1.8	4050737462554	5AA510511W
LED	4000	> 80	400	12.5	1.8	4050737462578	5AA510511N
Light emission below							
LED	3000	> 80	400	12.5	1.8	4050737462516	5AA510501W
LED	4000	> 80	400	12.5	1.8	4050737462530	5AA510501N

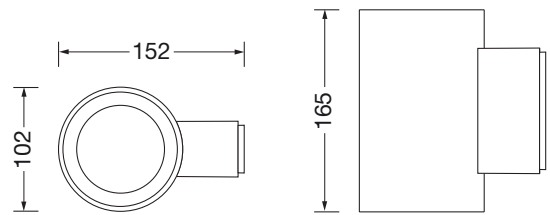
— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



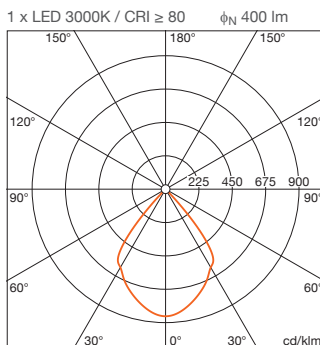




LED



4050737462639  
5AA520501W



**CL LED Wall 10 MIDI**

Uplight and downlight for wall surface mounting

- light emission above or below or above and below; rotationally symmetric medium distribution; luminaire with transparent cover
- LED operating electronics integrated in housing

- housing of aluminum, powder-coated in Siteco® metallic gray (DB 702S); cover of toughened safety glass, fits flush to housing
- protection rating (lamp compartment): IP65
- insulation class: I

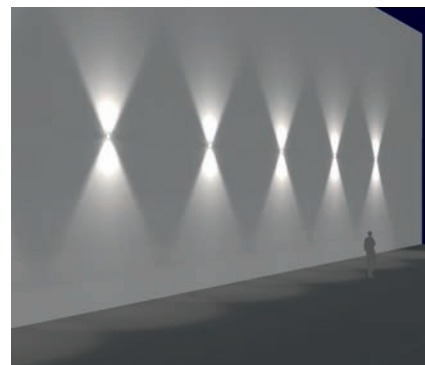
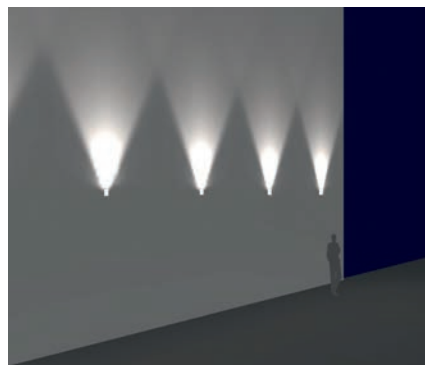
• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



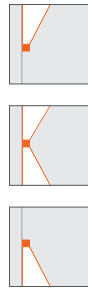
H(m)	ø(m)	E <sub>max</sub> (lx)	E <sub>m</sub> (lx)
2	3.14	86	56
3	4.70	38	25
4	6.27	21	14
5	7.84	14	9
6	9.41	10	6

Light source	K	R <sub>a</sub>	lm	W		Order no. OSRAM	Order no. Siteco
Light emission above							
LED	3000	> 80	400	12.5	2.2	4050737462677	5AA520511W
LED	4000	> 80	400	12.5	2.2	4050737462691	5AA520511N
Light emission above and below							
LED	3000	> 80	750	23	2.2	4050737462592	5AA520521W
LED	4000	> 80	750	23	2.2	4050737462615	5AA520521N
Light emission below							
LED	3000	> 80	400	12.5	2.2	4050737462639	5AA520501W
LED	4000	> 80	400	12.5	2.2	4050737462653	5AA520501N

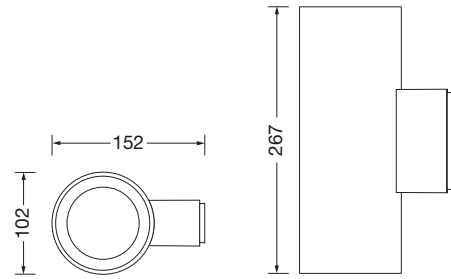
— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



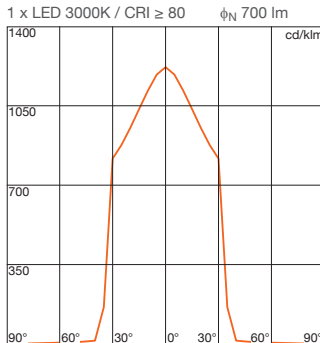




LED



4050737462752  
5AA530503W



**CL LED Wall 10 MAXI**

Uplight and downlight for wall surface mounting

- light emission above or below or above and below; rotationally symmetric medium distribution; luminaire with transparent cover
- LED operating electronics integrated in housing

- housing of aluminum, powder-coated in Siteco® metallic gray (DB 702S); cover of toughened safety glass, fits flush to housing
- protection rating (lamp compartment): IP65
- insulation class: I

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



	C 0/180	C 90/270
$\alpha_{50\%}$	2 x 31.6°	2 x 31.6°
$\alpha_{10\%}$	2 x 36.4°	2 x 36.4°

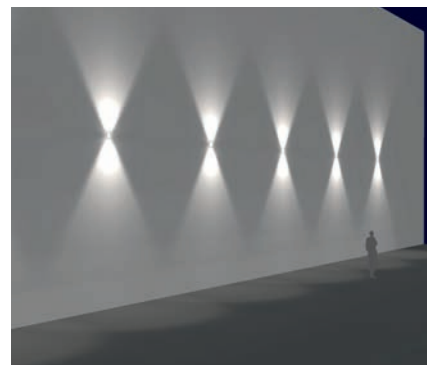
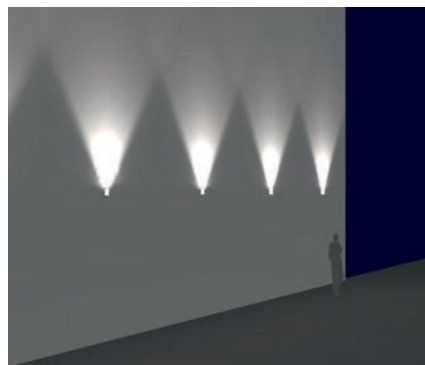
H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	2.46	214	152
3	3.69	95	68
4	4.92	53	38
5	6.15	34	24
6	7.38	24	17

**Light source**

	K	$R_a$	lm	W	IK9	Order no. OSRAM	Order no. Siteco
<b>Light emission above</b>							
LED	3000	> 80	700	25	3.0	4050737462790	5AA530513W
LED	4000	> 80	700	25	3.0	4050737462813	5AA530513N
<b>Light emission above and below</b>							
LED	3000	> 80	1100	35	3.1	4050737462714	5AA530523W
LED	4000	> 80	1100	35	3.1	4050737462738	5AA530523N
<b>Light emission below</b>							
LED	3000	> 80	700	25	3.0	4050737462752	5AA530503W
LED	4000	> 80	700	25	3.0	4050737462776	5AA530503N

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**For accessories see page 12.32**



# CL LED Linear Ceiling



The linear systems CL LED Linear 60 and ... 90 are integral components of the facade and path luminaires of the CL LED series. The system for wall and ceiling surface mounting consists in each case of one basis module and a luminaire head of identical form and dimensions. Both components match perfectly to form a closed unit fixed by a robust but easy-to-operate spring catch system. Joints have become an element of design that purposefully breaks up the smooth surfaces to give the luminaires a unique character. The striking housing is constructed completely of diecast aluminum, and gaskets and cover glass are fitted flush to the housing.

An outstanding feature of the luminaires is the purist, integrative and simultaneously highly functional design. The diverse configurations and variants offer a high level of flexibility for design purposes in context with the architecture. Across all individual luminaire types, the CL LED family features a standardized LED platform that ensures consistent quality, performance and light color.

## Features

- discreet, integral design for use in a wide diversity of architectural surroundings (iF product design award 2008)
- one uniform LED platform with two different light colors (warm white or neutral white) and good color rendering (CRI > 80) reduces complexity and simultaneously increases the design unity
- long operating life for housing of high-quality, robust diecast aluminum and for the LED module (up to 50,000h)
- high-performance optics specifically developed for LED platform, with clean cut-off for the precise illumination of horizontal and vertical surfaces
- different versions – length, light colors, beam angle, mounting situations
- Siteco® adjustment module for compensation of wall unevenness
- simple fixing of the luminaire head to the mounting module: “Easy Mounting”

## Lighting technology

Aluminum reflector in combination with Fresnel PMMA panel for narrow, wide or asymmetric light distribution | homogeneous light emission without disruption by e.g. screws

## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 8.5...12mm

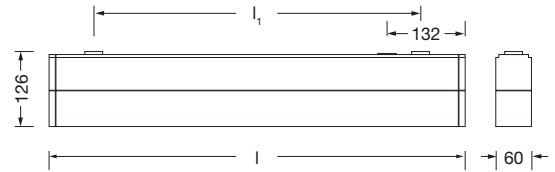
## Housing

Robust luminaire housing of extruded aluminum with compact dimensions, housing surface with weather-resistant powder coating in Siteco® metallic gray (DB 702S) | protection of glass edge due to housing design | cover of toughened safety glass, fixed without visible screws; inner Fresnel optics of PMMA | air-permeable membrane for pressure equalization and condensation avoidance | insulation class: I | protection rating: IP65

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.

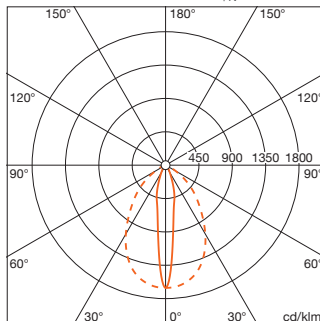


LED



4050737463940  
5AA172506W

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1595 lm



$I_{max}$  1655 cd/klm at  $\gamma$  0°

C 0/180 C 90/270

**CL LED Linear Ceiling**  
**symmetric narrow or wide distribution**

- Luminaire for ceiling surface mounting
- with Fresnel optics for narrow or wide symmetric light distribution
- LED operating electronics integrated in housing
- housing consisting of functional support and luminaire head, of aluminum, powder-coated in Siteco® metallic gray

(DB 702S); cover of toughened safety glass, fits flush to housing; luminaire head fixed to housing via intelligent spring catch system

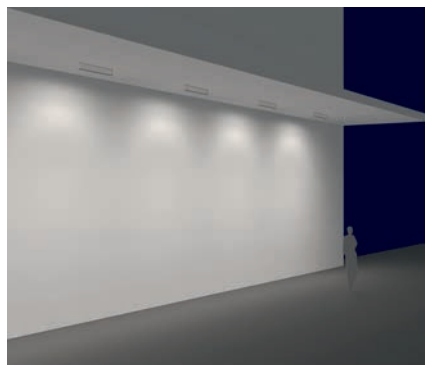
- protection rating: IP65
- insulation class: I

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



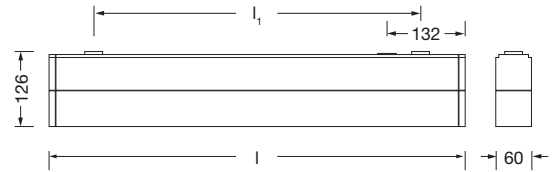
Light source	$l$ [mm]	$l_1$ [mm]	K	$R_a$	$I_m$	W	$\frac{kg}{m}$	Order no. OSRAM	Order no. Siteco
symmetric narrow distribution									
LED	600	450	3000	> 80	1060	24	4.7	4050737463841	5AA162506W
LED	900	750	3000	> 80	1595	34	6.7	4050737463940	5AA172506W
LED	600	450	4000	> 80	1000	21	4.7	4050737463827	5AA162506N
LED	900	750	4000	> 80	1515	31	6.7	4050737463926	5AA172506N
symmetric wide distribution									
LED	600	450	3000	> 80	860	24	4.7	4050737463865	5AA163506W
LED	900	750	3000	> 80	1300	34	6.7	4050737463988	5AA173506W
LED	600	450	4000	> 80	860	21	4.7	4050737465524	5AA163506N
LED	900	750	4000	> 80	1300	31	6.7	4050737463964	5AA173506N

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



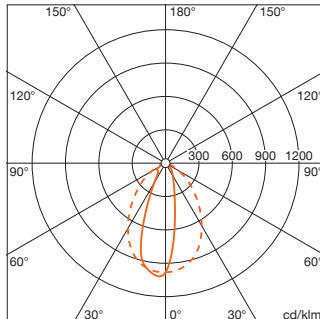


LED



4050737464022  
5AA174506W

1 x LED 3000K / CRI ≥ 80  $\phi_N$  1480 lm



$I_{max}$  1025 cd/klm at  $\gamma$  5°

C 0/180 C 90/270

**CL LED Linear Ceiling asymmetric distribution**

- Luminaire for ceiling surface mounting
- with Fresnel optics for asymmetric light distribution
- LED operating electronics integrated in housing
- housing consisting of functional support and luminaire head, of aluminum, powder-coated in Siteco® metallic gray

- (DB 702S); cover of toughened safety glass, fits flush to housing; luminaire head fixed to housing via intelligent spring catch system
- protection rating: IP65
- insulation class: I

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



**Light source**

$l$ [mm]	$l_1$ [mm]	K	R <sub>a</sub>	lm	W	
-------------	---------------	---	----------------	----	---	--

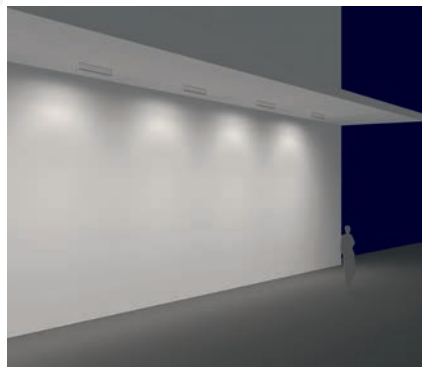
Order no.  
**OSRAM**

Order no.  
**Siteco**

asymmetric distribution

LED	600	450	3000	> 80	980	24	4.7	4050737463902	5AA164506W
LED	900	750	3000	> 80	1480	34	6.7	4050737464022	5AA174506W
LED	600	450	4000	> 80	980	21	4.7	4050737463889	5AA164506N
LED	900	750	4000	> 80	1480	31	6.7	4050737464008	5AA174506N

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25







# CL LED Linear Wall



The linear systems CL LED Linear 60 and ... 90 are integral components of the facade and path luminaires of the CL LED series. The system for wall and ceiling surface mounting consists in each case of a basis module and a luminaire head of identical form and dimensions. Both components match perfectly to form a closed unit fixed by a robust but easy-to-operate spring catch system. Joints have become an element of design that purposefully break up the smooth surfaces to give the luminaires its unique character. The striking housing is constructed completely of diecast aluminum, and gaskets and cover glass are flush fitted to the housing.

An outstanding feature of the luminaires is the purist, integrative and simultaneously highly functional design. The diverse configurations and variants offer a high level of flexibility for design purposes in context with the architecture. Across all individual luminaire types, the CL LED family features a standardized LED platform that ensures consistent quality, performance and light color.

## Features

- discreet, integral design for use in a wide diversity of architectural surroundings (iF product design award 2008)
- one uniform LED platform with two different light colors (warm white or neutral white) and good color rendering (CRI > 80) reduces complexity and simultaneously increases the design unity
- long operating life for housing of high-quality, robust die-cast aluminum and for the LED module (up to 50,000h)
- high-performance optics specifically developed for LED platform, with clean cut-off for the precise illumination of horizontal and vertical surfaces
- different versions – length, light colors, beam angle, mounting situations
- Siteco® adjustment module for compensation of wall unevenness
- simple fixing of the luminaire head to the mounting module: “Easy Mounting”

## Lighting technology

Wall surface-mounted luminaire as uplight or downlight | aluminum reflector in combination with Fresnel PMMA panel for narrow, wide or asymmetric light distribution | homogeneous light emission without disruption by e.g. screws

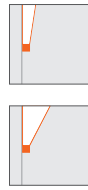
## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 8.5...12mm; prepared for through-wiring

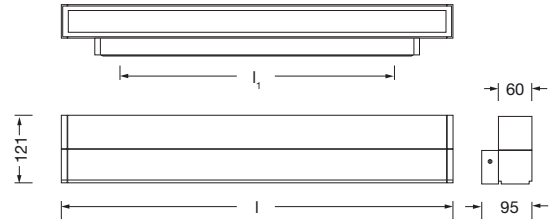
## Housing

Robust luminaire housing of extruded aluminum with compact dimensions, housing surface with weather-resistant powder coating in Siteco® metallic gray (DB 702S) | protection of glass edge due to housing design | cover of toughened safety glass, fixed without visible screws; inner Fresnel optics of PMMA | Siteco® adjustment module for compensation of wall unevenness | air-permeable membrane for pressure equalization and condensation avoidance | insulation class: I | protection rating: IP65

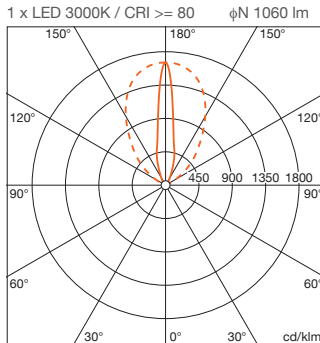
Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.



LED



4050737464107  
5AA262516W



I<sub>max</sub> 1655 cd/klm at γ 180°

C 0/180    C 90/270

**CL LED Linear Wall**  
**symmetric narrow or wide distribution**

Uplight for wall surface mounting

- light emission above; with Fresnel optics for narrow or wide symmetric light distribution
- LED operating electronics integrated in housing
- housing consisting of functional support, luminaire head and wall mount module, of aluminum, powder-coated in Siteco® metallic gray (DB 702S); cover of

- toughened safety glass, fits flush to housing; luminaire head fixed to housing via intelligent spring catch system; wall connection with Siteco® adjustment module for compensation of wall unevenness
- protection rating: IP65
- insulation class: I

- luminaire assembled for continuous row arrangements and through-wiring
- rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



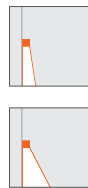
Light source	$\frac{l}{[mm]}$	$\frac{l_1}{[mm]}$	K	R <sub>a</sub>	lm	W		Order no. OSRAM	Order no. Siteco
Light emission above, symmetric narrow distribution									
LED	600	400	3000	> 80	1060	24	5.5	4050737464107	5AA262516W
LED	900	700	3000	> 80	1595	34	8.0	4050737464343	5AA272516W
LED	600	400	4000	> 80	1000	21	5.5	4050737464084	5AA262516N
LED	900	700	4000	> 80	1515	31	8.0	4050737464329	5AA272516N

Light emission above, symmetric wide distribution									
LED	600	400	3000	> 80	860	24	5.5	4050737464183	5AA263516W
LED	900	700	3000	> 80	1300	34	8.0	4050737464404	5AA273516W
LED	600	400	4000	> 80	860	21	5.5	4050737464169	5AA263516N
LED	900	700	4000	> 80	1300	31	8.0	4050737464381	5AA273516N

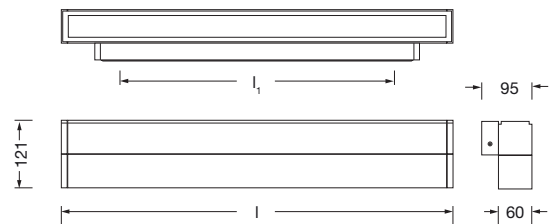
— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



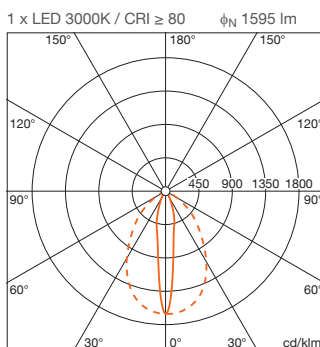




LED



4050737464305  
5AA272506W



$I_{max}$  1655 cd/klm at  $\gamma$  0°

— C 0/180    - - - C 90/270

**CL LED Linear Wall**  
**symmetric narrow or wide distribution**

Downlight for wall surface mounting

- light emission below; with Fresnel optics for narrow or wide symmetric light distribution
- LED operating electronics integrated in housing
- housing consisting of functional support, luminaire head and wall mount module, of aluminum, powder-coated in Siteco® metallic gray (DB 702S); cover of

- toughened safety glass, fits flush to housing; luminaire head fixed to housing via intelligent spring catch system; wall connection with Siteco® adjustment module for compensation of wall unevenness
- protection rating: IP65
- insulation class: I

- luminaire assembled for continuous row arrangements and through-wiring
- rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data

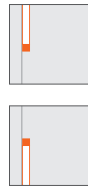


Light source	$l$ [mm]	$h$ [mm]	K	R <sub>a</sub>	Im	W		Order no. OSRAM	Order no. Siteco
Light emission below, symmetric narrow distribution									
LED	600	400	3000	> 80	1060	24	5.5	4050737464060	5AA262506W
LED	900	700	3000	> 80	1595	34	8.0	4050737464305	5AA272506W
LED	600	400	4000	> 80	1000	21	5.5	4050737464046	5AA262506N
LED	900	700	4000	> 80	1515	31	8.0	4050737464282	5AA272506N

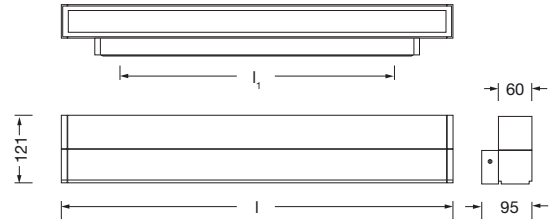
Light emission below, symmetric wide distribution									
LED	600	400	3000	> 80	860	24	5.5	4050737464145	5AA263506W
LED	900	700	3000	> 80	1300	34	8.0	4050737464701	5AA273506W
LED	600	400	4000	> 80	860	21	5.5	4050737464121	5AA263506N
LED	900	700	4000	> 80	1300	31	8.0	4050737464367	5AA273506N

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

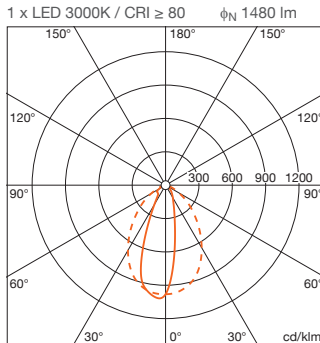




LED



4050737464442  
5AA274506W



$I_{max}$  1025 cd/klm at  $\gamma$  5°

— C 0/180    - - - C 90/270

**CL LED Linear Wall asymmetric distribution**

Uplight or downlight for wall surface mounting

- light emission above or below; with Fresnel optics for asymmetric light distribution
- LED operating electronics integrated in housing
- housing consisting of functional support, luminaire head and wall mount module, of aluminum, powder-coated in Siteco®

- metallic gray (DB 702S); cover of toughened safety glass, fits flush to housing; luminaire head fixed to housing via intelligent spring catch system; wall connection with Siteco® adjustment module for compensation of wall unevenness
- protection rating: IP65
- insulation class: I

- luminaire assembled for continuous row arrangements and through-wiring
- rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



**Light source**

$\frac{l}{(mm)}$	$\frac{h}{(mm)}$	K	R <sub>a</sub>	Im	W	
------------------	------------------	---	----------------	----	---	--

Order no.  
**OSRAM**

Order no.  
**Siteco**

Light emission above, asymmetric distribution

LED	600	400	3000	> 80	980	24	5.5	4050737464268	5AA264516W
LED	900	700	3000	> 80	1480	34	8.0	4050737464480	5AA274516W
LED	600	400	4000	> 80	980	21	5.5	4050737464244	5AA264516N
LED	900	700	4000	> 80	1480	31	8.0	4050737464466	5AA274516N

Light emission below, asymmetric distribution

LED	600	400	3000	> 80	980	24	5.5	4050737464220	5AA264506W
LED	900	700	3000	> 80	1480	34	8.0	4050737464442	5AA274506W
LED	600	400	4000	> 80	980	21	5.5	4050737464206	5AA264506N
LED	900	700	4000	> 80	1480	31	8.0	4050737464428	5AA274506N

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



# NOXLITE® LED CIRCULAR



The highly diverse NOXLITE® LED CIRCULAR wall and ceiling surface-mounted luminaire with IP44 protection rating is suitable for a variety of applications in canopied outdoor areas. With its wide distribution diffuser, the LED luminaire emits homogeneous light for good visual comfort, and with its warm white light color, it ensures a pleasant spatial atmosphere. The indirect light component sets decorative accents on walls or ceilings and gives the elegant, slender luminaire a floating appearance. The NOXLITE® LED CIRCULAR is especially efficient with high luminous efficacy. The luminaire version with integrated HF sensor features highly rapid motion detection thanks to modern high-frequency sensor technology for automatic switch-on as well as switch-off following an individually settable time.

## Features

- surface-mounted luminaire for walls and ceilings
- efficient LED luminaire with warm white light color
- opal cover with brushed nickel ring
- direct diffuse light distribution with indirect accent light
- HF sensor version: settable brightness and motion sensor with range of up to 10m
- easy installation

## Lighting technology

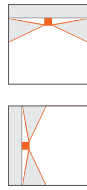
Opal cover, diffuse distribution for homogeneous illumination with indirect accent light | warm white LED

## Electrics

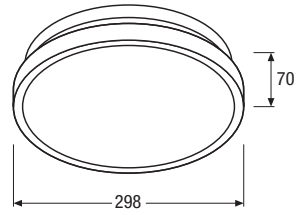
Luminaire wired ready for connection, with 3-pole tool-free connection terminal | cable entry on side or rear | HF sensor version: sensor concealed away from view in housing

## Housing

Sheet steel housing, white coated; PVC cover with brushed nickel ring | splash-proof (IP44) | rapid, simple mounting

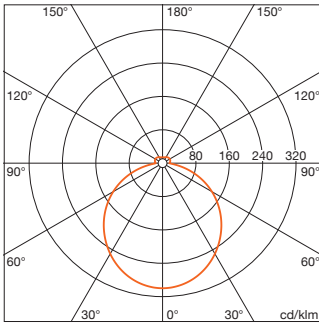


LED



4052899905627  
 ONA74710GS225

1 x LED ww 20W  $\phi$ N 932 lm



**NOXLITE® LED CIRCULAR**

**round cover with brushed nickel ring | opal with LED | insulation class II**

Luminaire for wall and ceiling surface mounting

- with opal cover
- diffuse distribution with indirect accent light
- with ECG

- sheet steel housing, white coated
- cover of PVC with brushed nickel ring
- protection rating: IP44
- insulation class: II

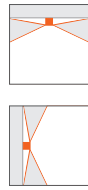


**Light source**

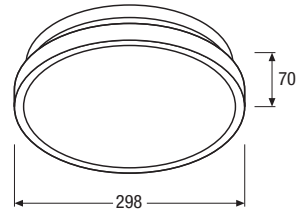
	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG L.L.C.G.	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	1000	20	1.1	ECG	4052899905627	ONA74710GS225

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



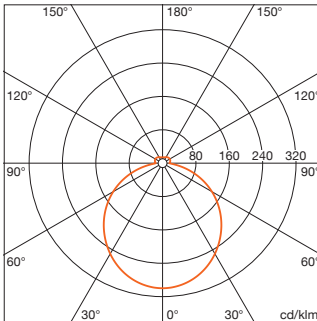


LED



4052899905627  
ONA74710GS225

1 x LED ww 20W  $\phi$ N 932 lm



**NOXLITE® LED CIRCULAR SENSOR**

**round cover with brushed nickel ring | opal | with high-frequency sensor | with LED | insulation class II**

Luminaire for wall and ceiling surface mounting

- with opal cover
- diffuse distribution with indirect accent light
- with ECG, light sensor and motion sensor
- sensor concealed away from view in housing

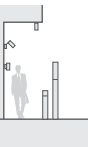
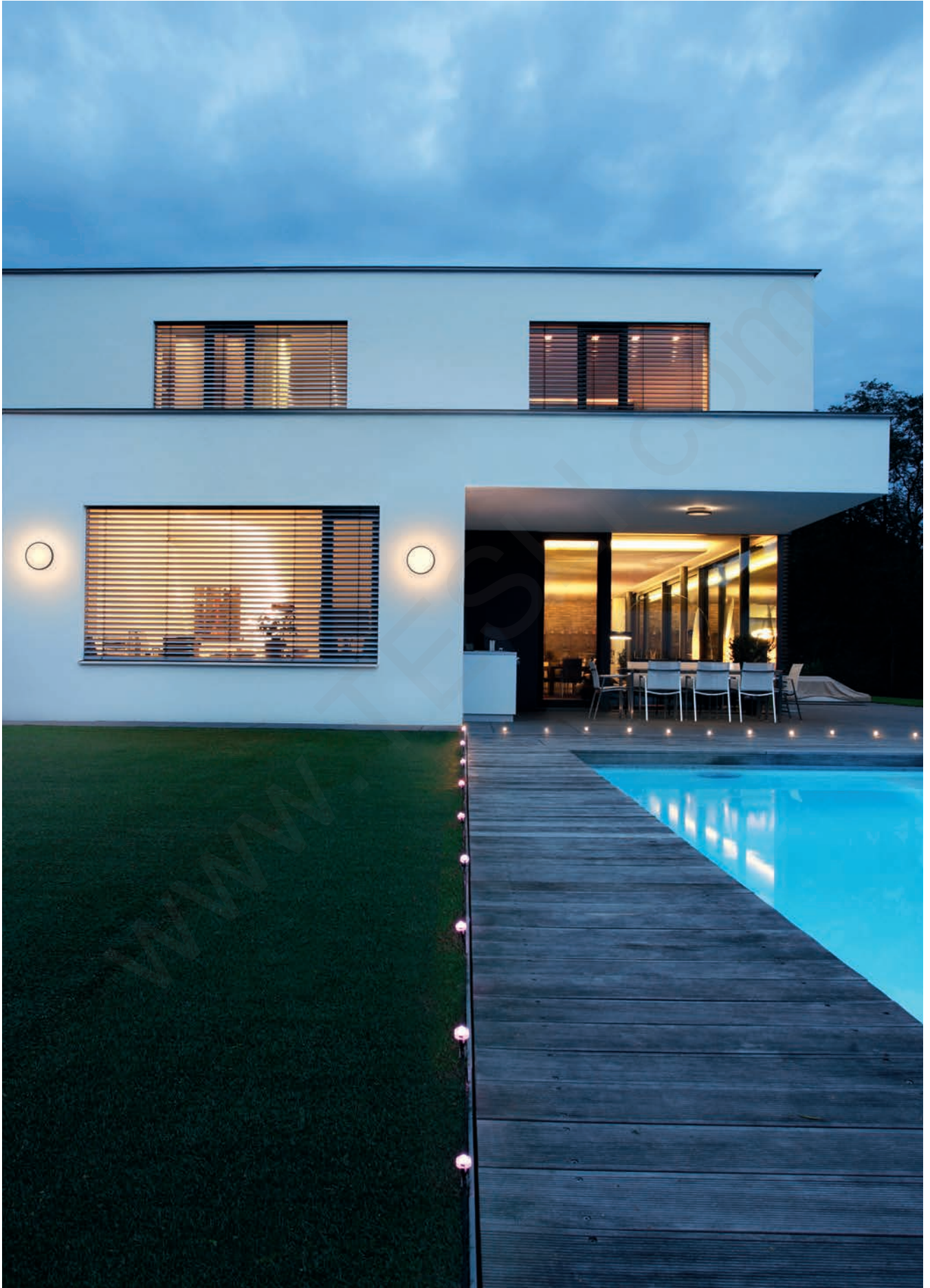
- sheet steel housing, white coated
- cover of PVC with brushed nickel ring
- protection rating: IP44
- insulation class: II



**Light source**

	K	Ra	lm	W SYSTEM	ECG	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	1000	20	1.2	4052899905634	ONA74710GS215

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25





# NOXLITE® HALOGEN SOLO and DUO WALL



The NOXLITE® HALOGEN family consists of two highly compact halogen wall luminaires for outdoor applications. The wall luminaires, optionally available with either single or double-sided light emission, feature a functional, discreet and elegant design. Ideal applications for the wide distribution downlight or uplight/downlight wall luminaires are typical home applications for the house and garden.

## Features

- compact halogen wall luminaires with functional design
- decorative effect lighting as uplight, downlight or with double-sided light emission
- UV-resistant, splash-proof housing (IP44)
- equipped with HALOPIN® halogen lamp

## Lighting technology

Decorative effect lighting, wide distribution | single or double-sided light emission for various forms of accenting

## Electrics

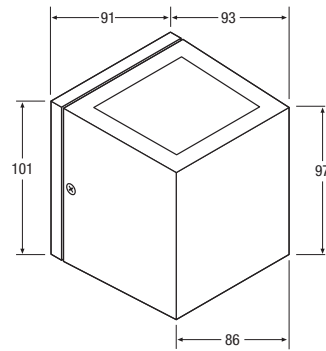
Luminaire wired ready for connection, with 3x max. 1.5mm<sup>2</sup> connection terminal | cable entry on rear

## Housing

Aluminum housing, black | glass cover | insulation class: I; protection rating: IP44







**NOXLITE® HALOGEN SOLO/DUO WALL**  
 with single or double-sided light emission | with halogen lamp | insulation class I

- Luminaires for wall surface mounting
- wide distribution
  - depending on version: single or double-sided light emission
  - aluminum housing, black
  - glass cover
  - protection rating: IP44
  - insulation class: I
  - includes OSRAM HALOPIN® halogen lamp



**Light source**

		<b>K</b>	<b>R<sub>a</sub></b>	<b>W</b> SYSTEM		<b>Order no.</b> <b>OSRAM</b>	<b>Order no.</b> <b>Siteco</b>
<b>SOLO</b>							
1x OSRAM HALOPIN	G9	2700	> 80	33	0.5	4052899901612	0NA74412FB216
<b>DUO</b>							
1x OSRAM HALOPIN	G9	2700	> 80	33	0.5	4052899901599	0NA74411EB216

- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



# CL LED Spotlight 10



The CL LED Spotlight 10 is an integral component of the facade and path luminaires of the CL LED series. It can be deployed as a ground, wall or ceiling spot. In terms of construction design, the luminaire is reduced to a minimum with a high level of workmanship: the housing consists completely of diecast aluminum. The gaskets and glass cover fit flush without joints. The spotlights of the CL LED series can be adapted to a wide spectrum of photometric tasks with two different light colors and various accessories.

An outstanding feature of the luminaires is the purist, integrative and simultaneously highly functional design. The diverse configurations and variants offer a high level of flexibility for design purposes in context with the architecture. Across all individual luminaire types, the CL LED family features a standardized LED platform that ensures consistent quality, performance and light color.



## Features

- discreet, integral design for use in a wide diversity of architectural surroundings (iF product design award 2008)
- one uniform LED platform with two different light colors (warm white or neutral white) and good color rendering (CRI > 80) reduces complexity and simultaneously increases the design unity
- long operating life for housing of high-quality, robust diecast aluminum and for the LED module (up to 50,000h)
- high-performance optics specifically developed for LED platform, with clean cut-off for the precise illumination of horizontal and vertical surfaces
- various light distribution patterns or light characteristics (colors) due to optical accessory covers increase design flexibility
- adjustment of rotation and tilt via patented Siteco® system

## Lighting technology

Luminaire can be rotated through 180°, luminaire head tilt-able through 90° | rotationally symmetric narrow distribution; elliptical light distribution characteristic via supplementary filter disc, color accenting possible via dichroic color filters

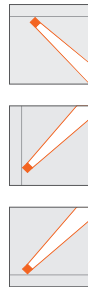
## Electrics

Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 8.5...12mm; for through-wiring 3x max. 1.5mm<sup>2</sup> | version with ground stake with pre-installed connection cable, l = 5m | cable routing from base to luminaire head within the tiltable arm

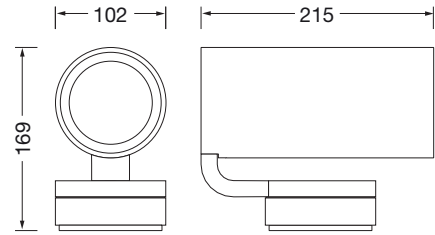
## Housing

Robust luminaire housing of extruded aluminum with compact dimensions, housing surface with weather-resistant powder coating in Siteco® metallic gray (DB 702S) | protection of glass edge due to housing design | cover of toughened safety glass, fixed without visible screws | ground stake of diecast aluminum | air-permeable membrane for pressure equalization and condensation avoidance | insulation class: I | protection rating: IP65

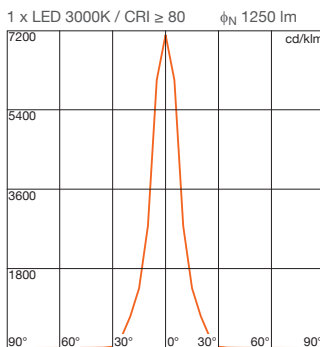
Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.



LED



4050737462370  
5AA322503W



**CL LED Spotlight 10**

Spotlight for ground, wall and ceiling mounting

- rotationally symmetric narrow distribution; with transparent cover; elliptical light distribution and color accenting via additional filter discs
- LED operating electronics integrated in housing

- housing of aluminum, powder-coated in Siteco® metallic gray (DB 702S), can be rotated through 180° and tilted through 90° via patented fixing system; cover of toughened safety glass, fits flush to housing
- protection rating: IP65
- insulation class: I

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



	C 0/180	C 90/270
$\alpha_{50\%}$	2 x 8.6°	2 x 8.6°
$\alpha_{10\%}$	2 x 20.1°	2 x 20.1°

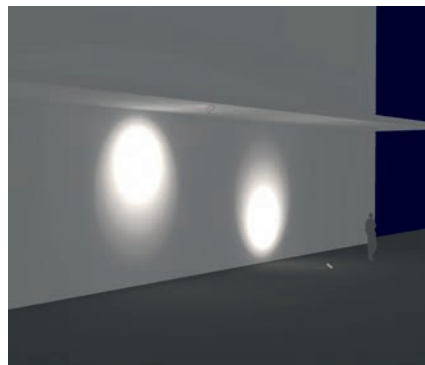
H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	0.60	2218	1828
3	0.91	986	812
4	1.21	555	457
5	1.51	355	292
6	1.81	246	203

Light source	K	R <sub>a</sub>	lm	W		Order no. OSRAM	Order no. Siteco
LED	3000	> 80	1250	25	3.1	4050737462370	5AA322503W
LED	4000	> 80	1400	25	3.1	4050737462332	5AA322503N

- please order ribbed disc separately if required
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

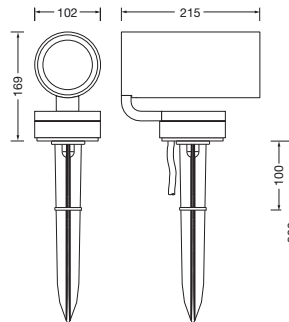
**Accessories (for details see page 12.32)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ribbed disc	0.1	4039806848956	5AA35601X

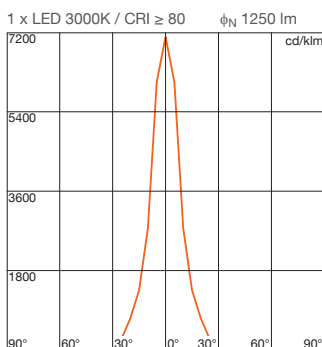




LED



4050737462394  
5AA322503WE



**CL LED Spotlight 10 with ground stake**

Spotlight for ground, wall and ceiling mounting

- rotationally symmetric narrow distribution; with transparent cover; elliptical light distribution and color accenting via additional filter discs
- LED operating electronics integrated in housing; with pre-installed connection cable
- housing of aluminum, powder-coated in Siteco® metallic gray (DB 702S), can be rotated through 180° and tilted through 90° via patented fixing system; cover of toughened safety glass, fits flush to housing; ground stake of aluminum
- protection rating: IP65
- insulation class: I

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data

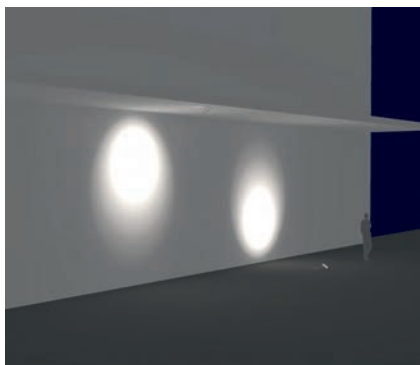


Light source	K	R <sub>a</sub>	lm	W	kg	Order no. OSRAM	Order no. Siteco
LED	3000	> 80	1250	25	4.2	4050737462394	5AA322503WE
LED	4000	> 80	1400	25	4.2	4050737462356	5AA322503NE

- please order ribbed disc separately if required
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**Accessories (for details see page 12.32)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ribbed disc	0.1	4039806848956	5AA35601X



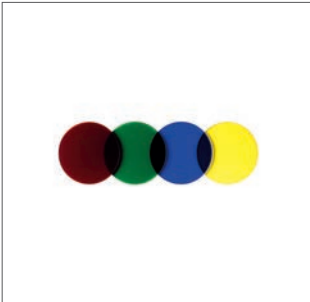
**CL Wall 10 MAXI | CL LED Spotlight 10 optical accessories**



**Ribbed disc**

for subsequent mounting in CL Wall 10 MAXI and CL LED Spotlight 10 | ribbed structure for elliptical light distribution | combination with color filter disc possible via innovative lay-in system

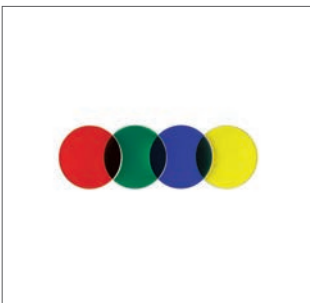
Designation	Order no. OSRAM	Order no. Siteco
Ribbed disc	4039806848956	5AA35601X



**Dichroic color filters**

for subsequent mounting in CL Wall 10 MAXI and CL LED Spotlight 10 | very intensive color rendering due to improved filter characteristics with less heating up of glass (compared to conventional filter glass) | for color accenting of facades and paths | color filter of toughened safety glass | combination with ribbed disc possible via innovative lay-in system

Designation	Order no. OSRAM	Order no. Siteco
Red	4039806848970	5AA35603X
Yellow	4039806848994	5AA35604X
Green	4039806849014	5AA35605X
Blue	4039806849038	5AA35606X



**Color filters**

for subsequent mounting in CL Wall 10 MAXI and CL LED Spotlight 10 | for color accenting of facades and paths | color filter of toughened safety glass | combination with ribbed disc possible via innovative lay-in system

Designation	Order no. OSRAM	Order no. Siteco
Red	4039806849052	5AA35607X
Yellow	4039806849076	5AA35608X
Green	4039806849090	5AA35609X
Blue	4039806849113	5AA35610X



# SiCOMPACT® R1 MINI



The rotationally symmetric distribution projectors of the SiCOMPACT® R1 MINI family can be mounted to the ground, to walls, to masts or cross arms with suitable accessories. Highly specular aluminum reflectors with narrow or wide light

distribution can be selected for various photometric tasks. Special effects are achieved with various color and diffuser discs.

## Features

- small projector for spotlighting and illumination of buildings
- compact diecast aluminum housing with narrow or wide light distribution
- with pressure equalization port preventing condensation in housing
- high light output ratio with compact design
- all electrical components integrated in housing

## Lighting technology

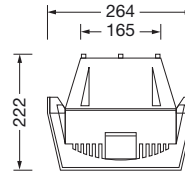
Highly specular aluminum reflector with rotationally symmetric light distribution, narrow or wide; elliptical, diamond-shaped or diffuse light distribution via supplementary filter disc, color accenting possible via dichroic color filters

## Electrics

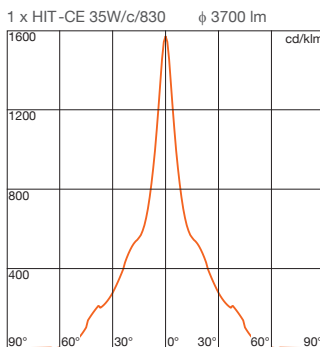
Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 7...14mm; optional protective tubing for cable to projector | with integral ballast (LLCG, parallel pf-corrected), specially separated from lamp compartment

## Housing

Housing of diecast aluminum; mounting bracket of galvanized steel (SiCOMPACT® R1 MINI-S) or diecast aluminum (SiCOMPACT® R1 MINI-ALU); all parts coated in Siteco® metallic gray (DB 702S) | luminaire cover of toughened safety glass | insulation class: I | protection rating: IP65



4039806436252  
5NX722E1HS08



	C 0/180	C 90/270
$\alpha_{50\%}$	2 x 8.7°	2 x 8.7°
$\alpha_{10\%}$	2 x 42.7°	2 x 42.7°

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	0.61	1453	1083
4	1.22	363	271
6	1.84	161	120
8	2.45	91	68
10	3.06	58	43

**SICOMPACT® R1 MINI-S**

Projector with mounting bracket for mounting to cross arm, supporting structure or ground stake  
 — with aluminum reflector, highly specular, rotationally symmetric narrow or wide distribution; with flat cover disc; modification of lighting characteristic and color accenting via additional filter discs

- with LLCG, parallel pf-corrected and ignitor
- housing of diecast aluminum; mounting bracket of galvanized steel; Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP65
- insulation class: I



**Light source**



**Order no.**  
**OSRAM**

**Order no.**  
**Siteco**

**narrow distribution**

with integrated control unit, with integrated ignitor (with automatic power-off function)

1x HIT-CE 35 W	G12	4.5	4039806436238	5NX722E1HB08
1x HIT-CE 70 W	G12	4.7	4039806436276	5NX722E1MB08

**diffuse**

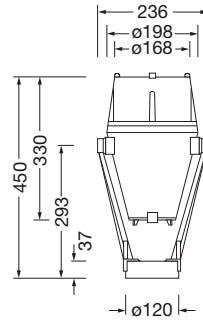
with integrated control unit, with integrated ignitor (with automatic power-off function)

1x HIT-CE 35 W	G12	4.5	4039806436252	5NX722E1HS08
1x HIT-CE 70 W	G12	4.7	4039806436290	5NX722E1MS08

**Accessories (for details see page 12.36 ff.)**

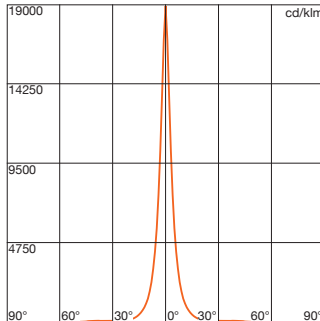
Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Ribbed disc	0.3	4039806583246	5NX72200XGS1
Pyramid disc	0.3	4039806591081	5NX72200XGS2
Diffuser disc	0.3	4039806583833	5NX72200XGS3
Color disc, dichroic, red	0.2	4039806591128	5NX72400XGD3
Color disc, dichroic, orange	0.2	4039806591180	5NX72400XGD6
Color disc, dichroic, yellow	0.2	4039806591166	5NX72400XGD5
Color disc, dichroic, green	0.2	4039806591104	5NX72400XGD2
Color disc, dichroic, blue	0.1	4039806591142	5NX72400XGD4
Color disc, red	0.2	4039806216939	5NX72400XG0308
Color disc, yellow	0.2	4039806216953	5NX72400XG4208
Color disc, green	0.2	4039806216922	5NX72400XG0208
Color disc, blue	0.2	4039806216946	5NX72400XG0408
Baffle ring	0.2	4039806223500	5NX72400XB01





4039806258687  
5NX724E1MB08

1 x HIT-CE 70W/c/830  $\phi$  7400 lm



$I_{max}$  18903 cd/klm at  $\gamma$  0°

	— C 0/180	- - - C 90/270
$\alpha_{50\%}$	2 x 3.3°	2 x 3.3°
$\alpha_{10\%}$	2 x 8.9°	2 x 8.9°

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	0.23	34971	26890
4	0.46	8743	6723
6	0.69	3886	2988
8	0.92	2186	1681
10	1.15	1399	1076

**SICOMPACT® R1 MINI-ALU**

Projector with mounting bracket for mounting to cross arm, wall bracket or ground stake

- with aluminum reflector, highly specular, rotationally symmetric narrow or wide distribution; with flat cover disc; modification of lighting characteristic and color accenting via additional filter discs

- with LLCG, parallel pf-corrected and ignitor
- housing and design mounting bracket of diecast aluminum; Siteco® metallic gray (DB 702S); cover of toughened safety glass
- protection rating: IP65
- insulation class: I



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

**narrow distribution**

with integrated control unit, with integrated ignitor (with automatic power-off function)

1x HIT-CE 70 W	G12	6.0	4039806258687	5NX724E1MB08
1x HIT-CE 150 W	G12	6.9	4039806258724	5NX724E1PB08

**diffuse**

with integrated control unit, with integrated ignitor (with automatic power-off function)

1x HIT-CE 70 W	G12	6.0	4039806258700	5NX724E1MS08
1x HIT-CE 150 W	G12	6.9	4039806265258	5NX724E1PS08

— please order color filters or supplementary disc separately if required

**Accessories (for details see page 12.36 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ribbed disc	0.2	4039806583260	5NX72400XS1
Pyramid disc	0.3	4039806591203	5NX72400XS2
Diffuser disc	0.3	4039806583833	5NX72200XS3
Color disc, dichroic, red	0.2	4039806591128	5NX72400XD3
Color disc, dichroic, orange	0.2	4039806591180	5NX72400XD6
Color disc, dichroic, yellow	0.2	4039806591166	5NX72400XD5
Color disc, dichroic, green	0.2	4039806591104	5NX72400XD2
Color disc, dichroic, blue	0.1	4039806591142	5NX72400XD4
Color disc, red	0.2	4039806216939	5NX72400XG0308
Color disc, yellow	0.2	4039806216953	5NX72400XG4208
Color disc, green	0.2	4039806216922	5NX72400XG0208
Color disc, blue	0.2	4039806216946	5NX72400XG0408
Baffle ring	0.2	4039806223500	5NX72400XB01

**SiCOMPACT® R1 MINI-S | ... MINI-ALU optical accessories**



**Diffuser disc, with mounting frame**

for subsequent mounting | structured glass with supporting frame of aluminum, Siteco® metallic gray (DB 702S)

**Ribbed disc:** ribbed structure for elliptical light distribution

**Pyramid disc:** pyramidal structure for diamond-shaped light distribution

**Diffuser disc:** irregular surface structure for diffuse light distribution

Designation	Order no. OSRAM	Order no. Siteco
For SiCOMPACT R1 MINI-S		
Ribbed disc	4039806583246	5NX72200XGS1
Pyramid disc	4039806591081	5NX72200XGS2
Diffuser disc	4039806583833	5NX72200XGS3

For SiCOMPACT R1 MINI-ALU

Ribbed disc	4039806583260	5NX72400XGS1
Pyramid disc	4039806591203	5NX72400XGS2
Diffuser disc	4039806583833	5NX72200XGS3



**Dichroic color filter, with supporting frame**

for retrofitting | very intensive color rendering due to improved filter characteristics with less heating up of glass (compared to conventional filter glass) | for color accenting of facades and paths | color filter of toughened safety glass; supporting frame of aluminum, Siteco® metallic gray (DB 702S)

Designation	Order no. OSRAM	Order no. Siteco
Red	4039806591128	5NX72400XGD3
Orange	4039806591180	5NX72400XGD6
Yellow	4039806591166	5NX72400XGD5
Green	4039806591104	5NX72400XGD2
Blue	4039806591142	5NX72400XGD4

**Color filter, with supporting frame**

for retrofitting | for color accenting of facades and paths | color filter of toughened safety glass; supporting frame of aluminum, Siteco® metallic gray (DB 702S)

Designation	Order no. OSRAM	Order no. Siteco
Red	4039806216939	5NX72400XG0308
Yellow	4039806216953	5NX72400XG4208
Green	4039806216922	5NX72400XG0208
Blue	4039806216946	5NX72400XG0408



**Baffle ring**

for glare reduction when viewed directly | galvanized, coated black (RAL 9005, matt)

Designation	Order no. OSRAM	Order no. Siteco
Baffle ring	4039806223500	5NX72400XB01

**SiCOMPACT® R1 MINI-S | ... MINI-ALU housing accessories**

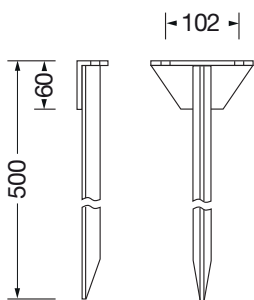


**Protection tube**

for protection of cable to the projector | plastic, black | screw fastening on luminaire side | length  $l = 600\text{mm}$ ; diameter:  $d_1 = 17\text{mm}$

Designation	Order no. OSRAM	Order no. Siteco
Protection tube	4039806073617	5NY72400XS2

**SiCOMPACT® R1 MINI-S mounting accessories**



**Ground stake**

steel, galvanized

Designation	Order no. OSRAM	Order no. Siteco
Ground stake	4039806442086	5NA75700ES

**SiCOMPACT® R1 MINI-ALU mounting accessories**



**Mast mounting element**

for mounting the projector to masts with spigot size  $d_a = 76 \times 70\text{mm}$  or on ground stake | mast mounting element of diecast aluminum, Siteco® metallic gray (DB 702S)

Designation	Order no. OSRAM	Order no. Siteco
Mast mounting element	4039806088772	5NY72400XM18

**Reducer (not shown)**

for mounting the mast mounting element to masts with mast spigot  $d_a = 60\text{mm}$  | reducer of diecast aluminum

Designation	Order no. OSRAM	Order no. Siteco
Spigot size 76/60mm	4039806255617	5NY72400XR



**Ground stake**

for accommodation of mast mounting element for projectors | ground stake of galvanized steel | height:  $h = 500\text{mm}$ ; spigot size  $d_a \times l = 76 \times 73\text{mm}$

Designation	Order no. OSRAM	Order no. Siteco
Ground stake	4039806189196	5NY72400XE10

— please order mast mounting element separately



**Cross arm, galvanized**

for mounting two projectors | cross arm of steel, galvanized | for spigot size  $d_a = 76 \times 100\text{mm}$ ; cross arm  $L \times W = 500 \times 120\text{mm}$

Designation	Order no. OSRAM	Order no. Siteco
Cross arm	4039806077233	5NY72402XT10



**Wall bracket**

for mounting projector | wall bracket of diecast aluminum, Siteco® metallic gray (DB 702S)

Designation	Order no. OSRAM	Order no. Siteco
Wall bracket	4039806088758	5NY72400XW18

**SiCOMPACT® R1 MINI-S | ... R1 MINI-ALU spare parts**

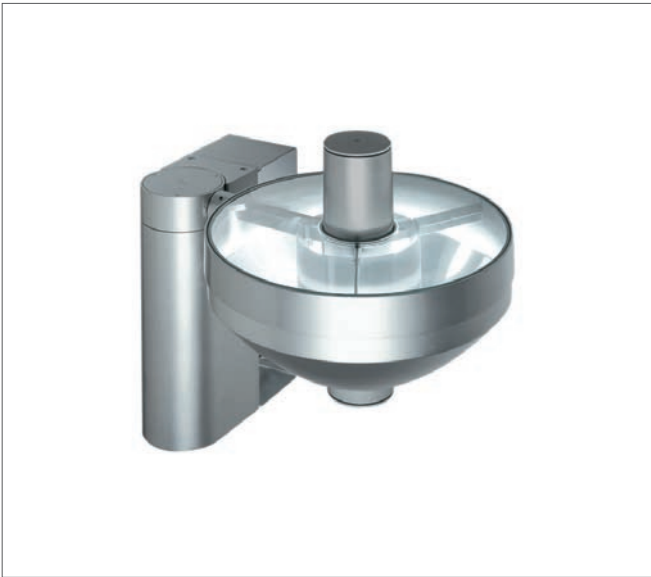
**Optical enclosure (not shown)**

flat cover panel, mounted in housing ring | cover of toughened safety glass; housing ring of diecast aluminum, Siteco® metallic gray (DB 702S)

Designation	Order no. OSRAM	Order no. Siteco
Optical enclosure with housing ring	4039806377012	5NX72400XG18

Masts, brackets and special mounting accessories are specified in **chapter 7, Luminaire Solutions Exterior Lighting**

# Siteco Mirrortec®



The rotationally symmetric Siteco Mirrortec® projector is characterized by a high light output ratio and narrow light distribution without light spill. This is made possible with precise optics: with the parallel beam version, the inverse lamp position controls the beam area of  $\pm 2.3$  degrees with such a high precision that the projectors are suitable as projector systems for the Siteco Mirrortec® reflectors as well as for the precise point illumination of towers and buildings.

The compact projector is manufactured of high-quality die-cast aluminum for easy handling: the projector head and the electrical housing, which additionally functions as a wall surface mounting module, are separately constructed but connected via a rotating hinge. This enables the projector head to be variably adjusted and securely fixed with three screws.

## Features

- patented light control with inverse mounting position and axial lamp arrangement for parallel light distribution
- simple, discreet design
- can be used indoors and outdoors
- compact construction with diecast aluminum housing
- optimized housing design: no shadows from base or lampholder
- tool-free relamping

## Lighting technology

Due to patented lighting technology with inverse mounting position, the beam area is precisely defined:

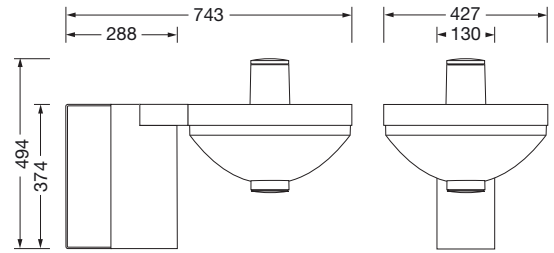
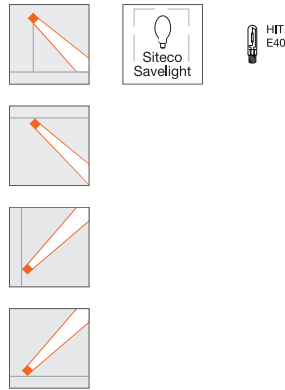
- Version 1: parallel distribution optimized for point-shaped illumination from larger distances, maximum light output ratio and uniform illumination in  $\pm 5.2^\circ$  beam area | significantly reduced light immission with less than 1.6% of luminous flux outside of range  $\pm 10^\circ$
- Version 2: wide light distribution for floodlighting

## Electrics

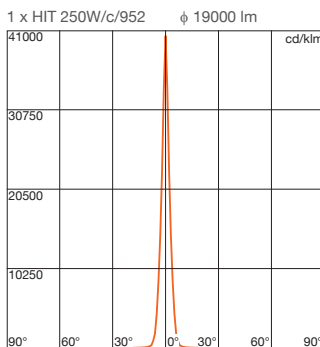
Projector wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 6...12mm | with LLCG, parallel pf-corrected, and ignitor

## Housing

Housing of diecast aluminum, white aluminum (RAL 9006) | projector head and electrical housing with pan-and-tilt connection; temperature-resistant cover panel | plated and anodized aluminum reflector | tool-free relamping via opening of upper tube hood | insulation class: I | protection rating: IP65



4039806371393  
5NW41421RG1



$I_{max}$  40309 cd/klm at  $\gamma$  0°

	— C 0/180	- - - C 90/270
$\alpha_{50\%}$	2 x 2.3°	2 x 2.3°
$\alpha_{10\%}$	2 x 5.2°	2 x 5.2°

H(m)	$\phi$ (m)	$E_{max}(lx)$	$E_m(lx)$
2	0.16	191467	147870
4	0.32	47867	36967
6	0.48	21274	16430
8	0.64	11967	9242
10	0.80	7659	5915

### Siteco Mirrortec® Projector 400

For surface mounting to vertical or horizontal surfaces

- patented lighting technology with inverse mounting position; aluminum reflector, highly specular, parallel or diffuse distribution; with transparent cover
- with LLCG, parallel pf-corrected and ignitor
- housing of diecast aluminum, white aluminum (RAL 9006); reflector of plated and anodized aluminum, matt exterior; cover of toughened safety glass
- protection rating: IP65
- insulation class: I
- application area: indoors or outdoors



#### Light source



Order no.  
**OSRAM**

Order no.  
**Siteco**

Secondary-reflector-optimized, parallel distribution

1x HIT 250 W	E40	19.0	LLCG	4039806371393	5NW41421RG1
1x HIT 400 W	E40	20.0	LLCG	4039806371416	5NW41421TG1
Diffuse					
1x HIT 250 W	E40	18.7	LLCG	4039806371409	5NW41421RS2
1x HIT 400 W	E40	20.7	LLCG	4039806371423	5NW41421TS2

— recommended lamps with 400W: OSRAM HQI-BT 400W

Note on lamp selection: when specifying lamps, the permissible lamp burning position must be considered (specification by lamp manufacturer)



# AquaLED® 2



The durable and reliable AquaLED® 2 LED ground recessed luminaires are a low-cost and complete family solution for illuminating building vicinities in a functional and creative way. The range consists of four construction sizes: S, M, L and XL.

The symmetric wide distribution AquaLED® 2 “S” (60 lumens) and “M” (130 lumens) ground recessed luminaires with extremely wide, diffuse light distribution (100°) are ideal for ensuring safety and orientation in outdoor areas near buildings. The three available light colors offer additional flexibility in application: With warm white (3,000K), neutral white (4,000K) or pure blue LED, AquaLED® 2 LED luminaires can be matched to the specific atmosphere of the architectural situation.

The AquaLED® 2 “L” (450 lumens) and “XL” (1,300 lumens) ground recessed luminaires with their high flexibility are the ideal choice for accentuating architecture and objects with light. The light colors (warm white/3,000K, neutral white/4,000K), the cover glass (transparent, frosted), light distribution (10°, 36°) and the option of tilting the reflector at angles of ± 30° all mean a high level of design flexibility.

## Features

- high flexibility due to family concept with various construction sizes, lumen packages, light colors and light distribution patterns
- light creates atmosphere: versions available with warm white and neutral white light, and for versions S and M with blue light
- long lifespan due to efficient LED technology
- good price/performance ratio
- optimized LED thermal management for a long service life and low thermal build-up at the light emission aperture

## Lighting technology

High flexibility due to versions with varying lumen packages: S (60 lumens), M (130 lumens), L (450 lumens) and XL (1,300 lumens) | variable 0...30° inclination angle with versions L and XL | light color warm white (3,000K) or neutral white (4,000K), versions S and M additionally with blue | versions S and M with uniform, diffuse light distribution (100°),

L and XL with narrow (10°) or wide light distribution (36°) | with frosted cover, versions L and XL additionally with transparent cover

## Electrics

Ground recessing system for simple installation | luminaire wired ready for connection | with pre-installed connection cable with free wire ends, 2/3 x 1.5mm<sup>2</sup> | prepared for through-wiring | with ECG for 230V, additionally 24V for versions S and M

## Housing

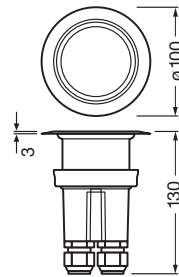
Housing of PC (S and M), of diecast aluminum (L and XL) | cover frame of stainless steel (V4A) | cover of PC (S and M), of toughened safety glass (L and XL) | ground recessing housing of PC, color: white | trip-safe due to low surface installation height (5mm) | surface temperature: T ≤ 40°C | protection rating: IP67 | please order ground recessing housing separately

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.





LED



**AquaLED® 2 S and AquaLED® 2 M for ground recessing | white light**

- Circular luminaire for ground recessing
- orientation light with very homogeneous light emission, white light, extremely wide light distribution; with frosted cover
- with ECG
- for 230V
- housing of PC; cover frame of stainless steel (V4A); cover of PC; recessing housing of PC, white
- protection rating: IP67
- insulation class: II
- impact resistance: IK08
- surface temperature:  $T \leq 40^{\circ}\text{C}$



Light source	K	R <sub>a</sub>	lm	W SYSTEM		Order no. OSRAM	Order no. Siteco
AquaLED 2 S							
LED	3000	> 80	60	1.5	0.2	4008321988775	0XA97171WD200
LED	4000	> 80	60	1.5	0.2	4008321988782	0XA97171ND200
AquaLED 2 M							
LED	3000	> 80	130	2.8	0.2	4008321988836	0XA97271WD200
LED	4000	> 80	130	2.8	0.2	4008321988843	0XA97271ND200

- please order recessing housing separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

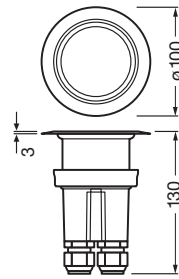
**Accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Recessing housing, for AquaLED 2 S, AquaLED 2 M	0.1	4008321854261	0XA97100XB





LED



**AquaLED® 2 S and AquaLED® 2 M  
for ground recessing | blue light**

- Circular luminaire for ground recessing
- orientation light with very homogeneous light emission, blue light, extremely wide light distribution; with frosted cover
- with ECG
- for 230V

- housing of PC; cover frame of stainless steel (V4A); cover of PC; recessing housing of PC, white
- protection rating: IP67
- insulation class: II
- impact resistance: IK08
- surface temperature:  $T \leq 40^{\circ}\text{C}$



**Light source**



**Order no.  
OSRAM**

**Order no.  
Siteco**

AquaLED 2 S

LED	Blue	8400	> 80	60	1.5	0.2	4008321988799	OXA97171BD200
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AquaLED 2 M

LED	Blue	8400	> 80	130	2.8	0.2	4008321988850	OXA97271BD200
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- please order recessing housing separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**Accessories**

**Designation**

**Wt. (kg)**

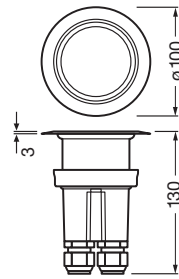
**Order no.  
OSRAM**

**Order no.  
Siteco**

Recessing housing, for AquaLED 2 S, AquaLED 2 M	0.1	4008321854261	OXA97100XB
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LED



**AquaLED® 2 S and AquaLED® 2 M for ground recessing | white light**

- Circular luminaire for ground recessing
- orientation light with very homogeneous light emission, white light, extremely wide, diffuse light distribution; with opal cover
  - for separate ECG
  - for 24V
  - housing of PC; cover frame of stainless steel (V4A); cover of PC; recessing housing of PC, white
  - protection rating: IP67
  - insulation class: III
  - impact resistance: IK08
  - surface temperature:  $T \leq 40^{\circ}\text{C}$



Light source	K	R <sub>a</sub>	lm	W SYSTEM	kg	ECG LLCG	Order no. OSRAM	Order no. Siteco
AquaLED 2 S								
LED	3000	> 80	60	1.5	0.2	without CG	4008321988744	OXA97101WD200
LED	4000	> 80	60	1.5	0.2	without CG	4008321988751	OXA97101ND200
AquaLED 2 M								
LED	3000	> 80	130	2.8	0.2	without CG	4008321988805	OXA97201WD200
LED	4000	> 80	130	2.8	0.2	without CG	4008321988812	OXA97201ND200

- please order electronic control gear separately
- please order recessing housing separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

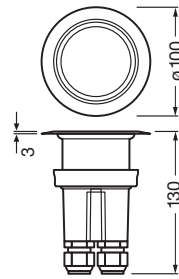
**Accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Recessing housing, for AquaLED 2 S, AquaLED 2 M	0.1	4008321854261	OXA97100XB





LED



**AquaLED® 2 S and AquaLED® 2 M  
for ground recessing | blue light**

- Circular luminaire for ground recessing
- orientation light with very homogeneous light emission, blue light, extremely wide, diffuse light distribution; with frosted cover
- for separate ECG
- for 24V
- housing of PC; cover frame of stainless steel (V4A); cover of PC; recessing housing of PC, white
- protection rating: IP67
- insulation class: III
- impact resistance: IK08
- surface temperature:  $T \leq 40^{\circ}\text{C}$



Light source		K	R <sub>a</sub>	lm	W SYSTEM		ECG L.L.C.G.	Order no. OSRAM	Order no. Siteco
AquaLED 2 S									
LED	Blue	8400	> 80	60	1.5	0.2	without CG	4008321988768	0XA97101BD200
AquaLED 2 M									
LED	Blue	8400	> 80	130	2.8	0.2	without CG	4008321988829	0XA97201BD200

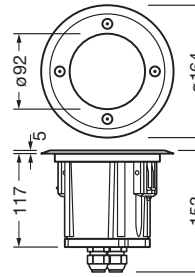
- please order electronic control gear separately
- please order recessing housing separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**Accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Recessing housing, for AquaLED 2 S, AquaLED 2 M	0.1	4008321854261	0XA97100XB



LED



**AquaLED® 2 L**  
for ground recessing | narrow or wide distribution | white light

- Circular luminaire for ground recessing
- narrow (10°) or wide (36°) light distribution; with variable inclination angle 0...30°;
- with transparent or frosted cover
- with ECG
- for 230V
- housing of diecast aluminum; cover frame of stainless steel (V4A); cover of toughened safety glass; ground recessing housing of PC, white
- protection rating: IP67
- insulation class: I
- impact resistance: IK09
- surface temperature:  $T \leq 40^{\circ}\text{C}$



Light source	K	R <sub>a</sub>	lm	W SYSTEM	IK	Order no. OSRAM	Order no. Siteco
wide distribution, transparent cover panel							
LED	3000	> 80	450	7.6	1.7	4008321988904	0XA97371WB100
LED	4000	> 80	450	7.6	1.7	4008321988928	0XA97371NB100
wide distribution, frosted cover panel							
LED	3000	> 80	450	7.6	1.7	4008321988980	0XA97371WB200
LED	4000	> 80	450	7.6	1.7	4008321989000	0XA97371NB200
narrow distribution, transparent cover panel							
LED	3000	> 80	450	7.6	1.7	4008321988898	0XA97371WE100
LED	4000	> 80	450	7.6	1.7	4008321988911	0XA97371NE100
narrow distribution, frosted cover panel							
LED	3000	> 80	450	7.6	1.7	4008321988973	0XA97371WE200
LED	4000	> 80	450	7.6	1.7	4008321988997	0XA97371NE200

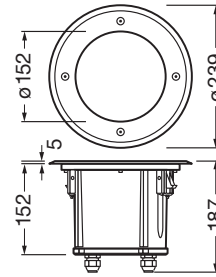
- please order ground recessing housing separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**Accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ground recessing housing, for AquaLED 2 L	0.5	4008321850515	0XA97300XB



LED



**AquaLED® 2 XL**  
for ground recessing | narrow or wide distribution | white light

- Circular luminaire for ground recessing
- narrow (10°) or wide (36°) light distribution; with variable inclination angle 0...30°;
- with transparent or frosted cover
- with ECG
- for 230V
- housing of diecast aluminum; cover frame of stainless steel (V4A); cover of toughened safety glass; ground recessing housing of PC, white
- protection rating: IP67
- insulation class: I
- impact resistance: IK09
- surface temperature:  $T \leq 40^{\circ}\text{C}$



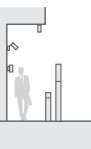
Light source	K	R <sub>a</sub>	lm	W SYSTEM	IK	Order no. OSRAM	Order no. Siteco
wide distribution, transparent cover panel							
LED	3000	> 80	1300	19.5	4.0	4008321989062	OXA97471WB100
LED	4000	> 80	1300	19.5	4.0	4008321989086	OXA97471NB100
wide distribution, frosted cover panel							
LED	3000	> 80	1300	19.5	4.0	4008321989147	OXA97471WB200
LED	4000	> 80	1300	19.5	4.0	4008321989161	OXA97471NB200
narrow distribution, transparent cover panel							
LED	3000	> 80	1300	19.5	4.0	4008321989055	OXA97471WE100
LED	4000	> 80	1300	19.5	4.0	4008321989079	OXA97471NE100
narrow distribution, frosted cover panel							
LED	3000	> 80	1300	19.5	4.0	4008321989130	OXA97471WE200
LED	4000	> 80	1300	19.5	4.0	4008321989154	OXA97471NE200

- please order ground recessing housing separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

**Accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ground recessing housing, for AquaLED 2 XL	0.8	4008321850522	OXA97400XB

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# CW



The cuboid and cylindrical recessed wall luminaires of the CW family with rectangular or circular light emission apertures provide a symmetric light distribution. A silver-gray anti-glare screen enables direct, glare-limited light control. Special color effects can be achieved with CW 91 with suitable color

accessory glasses. The luminaire cover for both luminaire types is opal safety glass (optional: transparent cover) with a cover ring of stainless steel or diecast aluminum.

## Features

- recessed wall luminaire with circular or rectangular design with opal glass cover and stainless steel frame
- CW 96: narrow optics with good, linear light effect
- recessed casing and cover ring of stainless steel
- optional color glasses/transparent cover glass/anti-glare screen available
- optional through-wiring

## Lighting technology

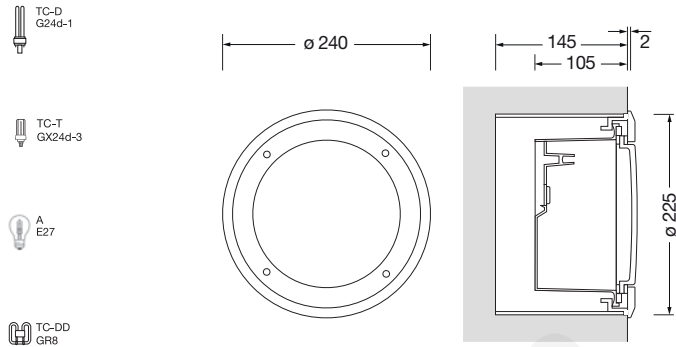
Aluminum reflector, highly specular, symmetric light distribution; luminaire with opal cover of toughened safety glass (transparent cover by on-site replacement)  
 For CW 91: elliptical light distribution via supplementary filter disc, color accenting possible via dichroic color filters

## Electrics

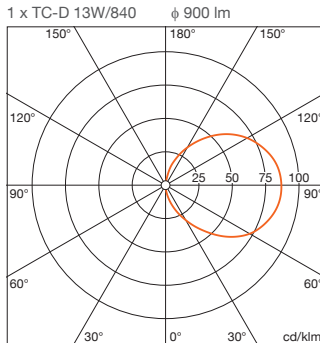
Luminaire wired ready for connection | with 3-pole connection terminal, max. 2.5mm<sup>2</sup> | cable entry for cable D = 7...14mm (CW 91: can be optionally supplied with cable entry for 2 cables for 3x max. 1.5mm<sup>2</sup> through-wiring) | versions for compact fluorescent lamp with LLCG, parallel pf-corrected

## Housing

Encapsulated housing of diecast aluminum; cover of temperature-resistant toughened safety glass, frame of stainless steel or coated aluminum, silver-gray | insulation class: I | protection rating: IP66  
 Wall recessing frame of stainless steel, open at rear, with mounting frame of diecast aluminum



4039806206985  
5LA91111FA308



**CW 91**  
**for wall recessing**

- Circular luminaire for wall recessing
- with aluminum reflector, highly specular, symmetric light distribution; with opal cover\*; glare reduction and color accenting via supplementary screen or filter
- versions for compact fluorescent lamps: with LLCG, pf-corrected
- housing of extruded aluminum

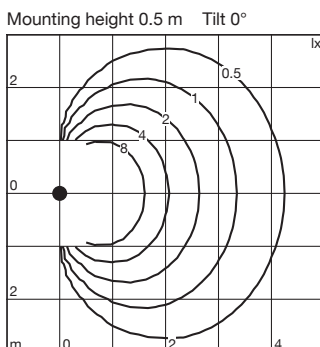
- cover frame of stainless steel or diecast aluminum, silver-gray coated; cover of safety glass; mounting frame of stainless steel with mounting ring of diecast aluminum, silver-gray coated
- protection rating: IP66
- insulation class: I

\* opal cover can be replaced on site by transparent cover



Light source			Order no. OSRAM	Order no. Siteco
Cover, aluminum				
1x TC-D 13W	G24d-1	2.9	4039806206985	5LA91111FA308
1x TC-T 26 W	GX24d-3	3.3	4039806207029	5LA91111LA308
1x TC-DD 16W	GR8	2.0	4039806207005	5LA91111FB308
Cover, aluminum, with screen				
1x TC-T 26 W	GX24d-3	3.4	4039806207166	5LA91211LA308
Cover, stainless steel				
1x A60 60W	E27	3.0	4039806207081	5LA91011BW300
1x TC-D 13 W	G24d-1	3.3	4039806206886	5LA91011FA300
1x TC-T 26W	GX24d-3	3.6	4039806206923	5LA91011LA300

- please order transparent cover panel, color filters or screen separately if required
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



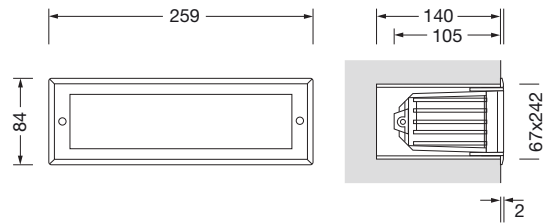
**Accessories (for details see page 12.56 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Color disc, dichroic, red	0.1	4039806210371	5NX90000XG03
Color disc, dichroic, yellow	0.1	4039806207432	5NX90000XG42
Color disc, dichroic, green	0.1	4039806207418	5NX90000XG02
Color disc, dichroic, blue	0.1	4039806207425	5NX90000XG04
Cover, transparent glass	1.0	4039806374011	5NX90000XG01



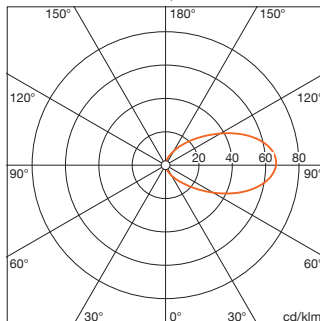
QT-DE-11/12 R7s

TC-D G24d-1



4039806207647  
5LA96011M0300

1 x QT-DE12 60W  $\phi$  840 lm



$I_{max}$  66 cd/klm at  $\gamma$  90°

C 0/180 C 90/270

### CW 96 for wall recessing

Rectangular luminaire for wall recessing  
 — with aluminum reflector, highly specular, symmetric light distribution; depending on version with screen for glare reduction; with opal safety glass cover  
 — versions for compact fluorescent lamps: with LLCG, pf-corrected

- housing of diecast aluminum; cover frame of stainless steel; mounting frame of stainless steel with mounting ring of diecast aluminum, silver-gray coated
- protection rating: IP66
- insulation class: I



#### Light source



Order no.  
OSRAM

Order no.  
Siteco

Cover, stainless steel

1x QT-DE 60 W

R7s

2.0

4039806207647

5LA96011M0300

1x TC-D 13 W

G24d-1

2.4

4039806207623

5LA96011FA300

Cover, stainless steel, with screen

1x TC-D 13 W

G24d-1

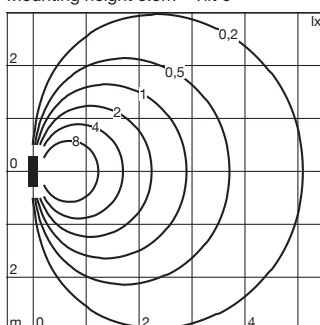
2.2

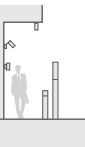
4039806418777

5LA96211FA300

— please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

Mounting height 0.5m Tilt 0°





# CB



The cuboid and cylindrical ground recessed luminaires of the CB family with rectangular or circular light emission apertures and various reflector systems provide a narrow, medium or wide light distribution. With an insert for asymmetric light distribution (CB 95) and an angle of inclination adjustment to 10° (CB 90), the CB luminaires can also be used as

wallwashers. The application range is extended with an anti-glare screen (CB 90) and various dichroic color glasses for retrofitting. The solid ground recessed luminaires with stainless steel recessed housing and toughened safety glass can withstand driveover loads of up to 5,000 or 6,000kg.

## Features

- driveover load 5,000kg (CB 90) or 6,000kg (CB 95)
- cover of toughened safety glass; optionally anti-slip
- minimal construction height of stainless steel frame
- optional color glasses
- ground recessing frame of stainless steel
- pre-assembled connection cable

## Lighting technology

Highly specular aluminum reflector; luminaire with transparent cover of toughened safety glass (opal or transparent anti-slip cover by on-site replacement); color accenting possible via dichroic color filters | CB 90 with extremely narrow, medium or wide light distribution, with 0...10° alignment adjustment of reflector system | CB 95 with asymmetric or symmetric light distribution

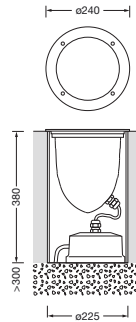
## Electrics

Luminaire wired ready for connection | with pre-installed connection cable with free wire ends, 3x 1.5mm<sup>2</sup>, L = 1m, for connection of on-site connection socket | with LLCG, parallel pf-corrected, gearbox in separate housing with CB 90, with fixed wiring to luminaire head

## Housing

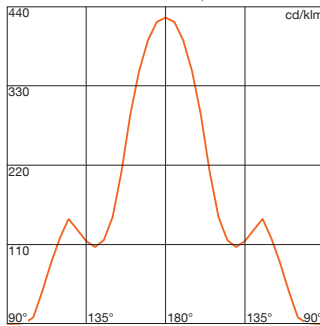
Encapsulated housing of diecast aluminum; cover of temperature-resistant toughened safety glass, frame of stainless steel or coated aluminum, silver-gray | maximum planar driveover load: CB 90 up to 5,000kg; CB 95 up to 6,000kg | insulation class: I | protection rating: IP67 | ground recessing frame of stainless steel, open at rear, with mounting frame of diecast aluminum





4039806205612  
5NA90011MS100R

1 x HIT -CE 70W/c/830  $\phi$  7400 lm



$I_{max}$  424 cd/klm at  $\gamma$  180°

### CB 90 for ground recessing

- Circular luminaire for ground recessing
- with aluminum reflector, highly specular, extremely narrow, narrow or medium light distribution; with variable 0...10° lamp inclination angle; with transparent cover\*; glare reduction and color accenting via supplementary screen or filter
- versions for compact fluorescent lamps: with LLCG, pf-corrected

- housing of diecast aluminum; cover frame of stainless steel; cover of safety glass; mounting frame of stainless steel with mounting ring of diecast aluminum, silver-gray coated
- protection rating: IP67
- insulation class: I
- incl. pre-assembled connection cable, L = 1m

\* transparent cover can be replaced on site by slip-resistant cover or opal cover



#### Light source

			Order no. OSRAM	Order no. Siteco
<b>extremely narrow distribution</b>				
1x HIT   HIT-CE 35W	G12	8.0	4039806420183	5NA90011LE100R
1x HIT   HIT-CE 70 W	G12	8.6	4039806205599	5NA90011ME100R
1x HIT   HIT-CE 150 W	G12	9.1	4039806205667	5NA90011PE100R
<b>narrow distribution</b>				
1x HIT   HIT-CE 35 W	G12	8.2	4039806420176	5NA90011LB100R
1x HIT   HIT-CE 70 W	G12	8.5	4039806205575	5NA90011MB100R
1x HIT   HIT-CE 150 W	G12	9.1	4039806205643	5NA90011PB100R
1x TC-T 26 W	GX24d-3	7.3	4039806246349	5LA90011LA100
<b>medium distribution</b>				
1x HIT   HIT-CE 35 W	G12	8.0	4039806420190	5NA90011LS100R
1x HIT   HIT-CE 70 W	G12	8.5	4039806205612	5NA90011MS100R
1x HIT   HIT-CE 150 W	G12	9.1	4039806205681	5NA90011PS100R

- please order opal or slip-resistant cover panel, color filter or screen separately if required
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

#### Accessories (for details see page 12.56 ff.)

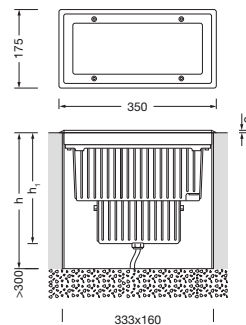
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Color disc, dichroic, red	0.1	4039806210371	5NX90000XG03
Color disc, dichroic, yellow	0.1	4039806207432	5NX90000XG42
Color disc, dichroic, green	0.1	4039806207418	5NX90000XG02
Color disc, dichroic, blue	0.1	4039806207425	5NX90000XG04
Screen, for 1x HIT 35/70/150W, with anti-glare attachment, matt black	0.3	4039806555793	5NA9000R
Cover, opal glass	0.9	4039806241092	5NX90000XG00
Cover, transparent glass, anti-slip	0.9	4039806223005	5NX90000XG00R



HIT-DE-CE  
RX7s

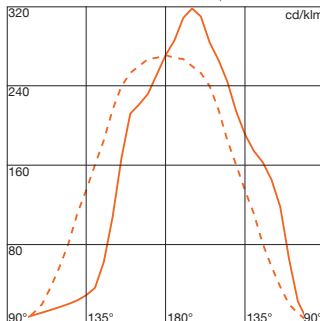
HST-DE  
RX7s

HIT-DE-CE  
RX7s-24



4039806205698  
5NA95011NA100

1 x HIT-DE-h45 70W/830  $\phi$  5925 lm



$I_{max}$  318 cd/klm at  $\gamma$  165°

### CB 95 for ground recessing

Rectangular luminaire for ground recessing  
 — with aluminum reflector, highly specular, symmetric or asymmetric light distribution; with transparent cover\*; color accenting via supplementary filter disc  
 — with LLCG, pf-corrected  
 — housing of diecast aluminum; cover frame of stainless steel; cover of safety glass;

mounting frame of stainless steel with mounting ring of diecast aluminum, silver-gray coated  
 — protection rating: IP67  
 — insulation class: I  
 — incl. pre-assembled connection cable, L = 1m

\* transparent cover can be replaced on site by slip-resistant cover or opal cover



#### Light source



Order no.  
OSRAM

Order no.  
Siteco

asymmetric distribution

1x HIT-DE-CE   HST-DE 70 W	RX7s	195	155	7.2	4039806205698	5NA95011NA100
1x HIT-DE-CE   HST-DE 150 W	RX7s-24	330	275	9.6	4039806205711	5NA95011PA100

symmetric distribution

1x HIT-DE-CE   HST-DE 70 W	RX7s	195	155	7.2	4039806205704	5NA95011NS100
1x HIT-DE-CE   HST-DE 150 W	RX7s-24	330	275	9.7	4039806205728	5NA95011PS100

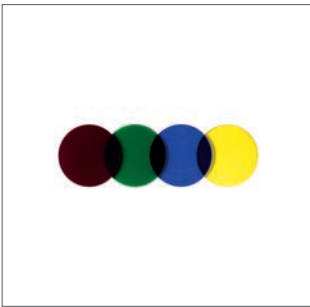
— please order opal or slip-resistant cover panel or color filter separately if required

### Accessories (for details see page 12.56 ff.)

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Color disc, dichroic, red	1.3	4039806205827	5NX95000XG03
Color disc, dichroic, yellow	0.2	4039806205841	5NX95000XG42
Color disc, dichroic, green	0.2	4039806205810	5NX95000XG02
Color disc, dichroic, blue	0.2	4039806205834	5NX95000XG04
Cover, opal glass	0.9	4039806241108	5NX95000XG00
Cover, transparent glass, anti-slip	1.1	4039806223012	5NX95000XG00R



**CW 91 | CB 90 optical accessories | spare parts**



**Dichroic color filters**

for retrofitting in CW 91 and CB 90 | very intensive color rendering due to improved filter characteristics with less heating up of glass (compared to conventional filter glass) | for color accenting of facades and paths

Designation	Order no. OSRAM	Order no. Siteco
Red	4039806210371	5NX90000XG03
Yellow	4039806207432	5NX90000XG42
Green	4039806207418	5NX90000XG02
Blue	4039806207425	5NX90000XG04



**Ring louvre**

for glare reduction | for retrofitting in CB 90 | for high-pressure lamps (HIT 35/70/150W)

Designation	Order no. OSRAM	Order no. Siteco
Ring louvre	4039806555793	5NA9000R

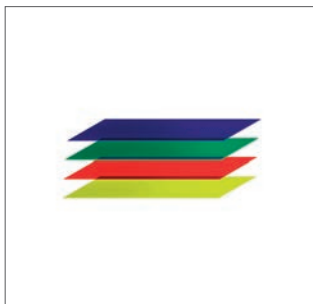
**Optical enclosure (not shown)**

as replacement of series cover for CW 91 or CB 90 transparent, anti-slip due to partly roughed surface | safety glass, pressure-resistant with surface loads | transparent | safety glass – opal | safety glass

Designation	Order no. OSRAM	Order no. Siteco
For CW 91		
Transparent   safety glass	4039806374011	5NX90000XG01
Opal   safety glass	4039806241092	5NX90000XG00
For CB 90		
Transparent, anti-slip   safety glass	4039806223005	5NX90000XG00R
Transparent   safety glass	4039806374011	5NX90000XG01
Opal   safety glass	4039806241092	5NX90000XG00



### CB 95 optical accessories | spare parts



#### Dichroic color glasses/replacement glasses

for retrofitting in CW 95 | very intensive color rendering due to improved filter characteristics with less heating up of glass (compared to conventional filter glass) | for color accenting of facades and paths

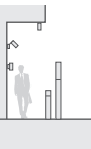
Designation	Order no. OSRAM	Order no. Siteco
Red	4039806210371	5NX95000XG03
Yellow	4039806207432	5NX95000XG42
Green	4039806207418	5NX95000XG02
Blue	4039806207425	5NX95000XG04

#### Optical enclosure (not shown)

as replacement of series cover for CB 95 transparent, anti-slip due to partly roughed surface | safety glass, pressure-resistant with surface loads | transparent | safety glass – opal | safety glass

Designation	Order no. OSRAM	Order no. Siteco
For CB 95		
Transparent, anti-slip   safety glass	4039806223012	5NX95000XG00R
Transparent   safety glass	4039806374028	5NX95000XG01
Opal   safety glass	4039806241108	5NX95000XG00

WWW.TESLI.COM



# CL LED Bollard



The CL LED Bollard 30 | ... 60 | ... 90 and ... 120 are integral components of the facade and path luminaires of the CL LED series. The bollards consist of two components: a base with integrated gear tray and the fully integrated LED light source, and the housing with reflector in the various construction sizes. The housing is completely of diecast aluminum, and gaskets and PC cover panel fit flush without joints. Light distribution of the bollard is via a secondary system. This results in highly homogeneous, harmonious and glare-free planar illumination, optionally via one or two light emission apertures.

An outstanding feature of the bollard luminaires is the purist, integrative and simultaneously highly functional design. The diverse configurations and variants offer a high level of flexibility for design purposes in context with the architecture. Across all individual luminaire types, the CL LED family features a standardized LED platform that ensures consistent quality, performance and light color.



## Features

- discreet, integral design for use in a wide diversity of architectural surroundings (iF product design award 2008)
- one uniform LED platform with two different light colors (warm white or neutral white) and good color rendering (CRI > 80) reduces complexity and simultaneously increases the design unity
- long operating life for housing of high-quality, robust diecast aluminum and for LED module (up to 50,000h)
- high-performance optics specifically developed for LED platform, with clean cut-off for the precise illumination of horizontal and vertical surfaces
- four matched construction sizes increase design flexibility
- good glare reduction due to secondary optics that prevent a direct view of light sources
- simple installation due to modularity of baseplate and luminaire housing with LED platform

## Lighting technology

CL LED bollard with one-sided or two-sided light emission characteristic for wide distribution planar light | position of light emission aperture is also adjustable after mounting (360°) | secondary reflector system for uniform, glare-free illumination

## Electrics

Luminaire with pre-assembled cable for connection in cable junction box | no modification to inner wiring of luminaire required | luminaire prepared for cable junction box to max. 2x 5x 10mm<sup>2</sup>

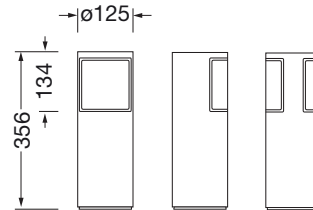
## Housing

Robust luminaire housing of extruded aluminum with compact dimensions; solid baseplate for mounting on foundation or planted section, with alignment option to max. 5°; housing surface with weather-resistant powder coating in Siteco® metallic gray (DB 702S) | flush-fitting of optical enclosure | cover of impact-resistant PC, without visible screws | CL LED Bollard 30: insulation class I | IP65 | IK10 | CL LED Bollard 60/90/120: insulation class II | IP65 | IK10

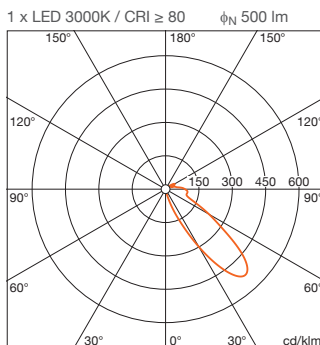
Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.



LED



4050737461854  
5AA411512W



$I_{max}$  1516 cd/klm at  $\gamma$  55°

C 0/180 C 90/270

**CL LED Bollard 30**

Bollard for mounting on foundation or planted section

- with one or two-sided light emission; with secondary reflector system for glare-free illumination; with transparent cover
- LED operating electronics integrated in housing
- aluminum housing, solid base with integrated gear tray; powder-coated in Siteco® metallic gray (DB 702S); cover of impact-resistant PC
- protection rating: IP65
- insulation class: I
- impact resistance: IK10

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data

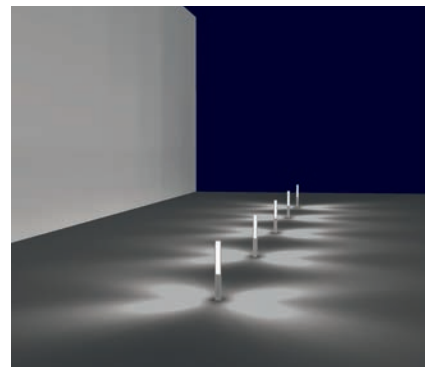
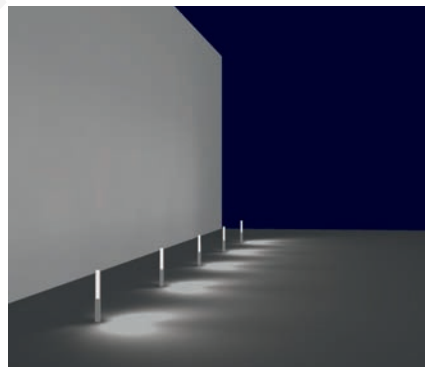
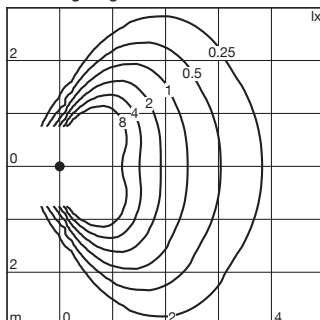


Light source	K	R <sub>a</sub>	lm	W		Order no. OSRAM	Order no. Siteco
Light emission, single-sided							
LED	3000	> 80	500	20	4.1	4050737461854	5AA411512W
LED	4000	> 80	500	20	4.1	4050737461830	5AA411512N

Light emission, double-sided							
LED	3000	> 80	1000	20	4.0	4050737461892	5AA411522W
LED	4000	> 80	1000	20	4.0	4050737461878	5AA411522N

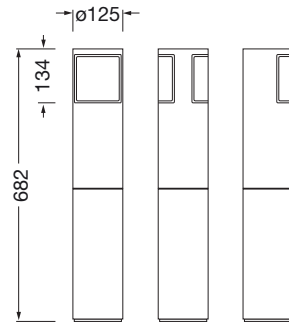
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

Mounting height 0.29 m Tilt 0°

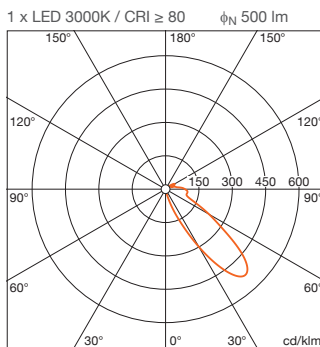




LED



4050737461939  
5AA421512W



$I_{max}$  1516 cd/klm at  $\gamma$  55°

C 0/180 C 90/270

**CL LED Bollard 60**

Bollard for mounting on foundation or planted section

- with one or two-sided light emission; with secondary reflector system for glare-free illumination; with transparent cover
- LED operating electronics integrated in housing

- aluminum housing, solid base with integrated gear tray; powder-coated in Siteco® metallic gray (DB 702S); cover of impact-resistant PC
- protection rating: IP65
- insulation class: II
- impact resistance: IK10

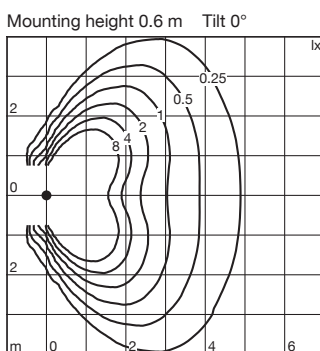
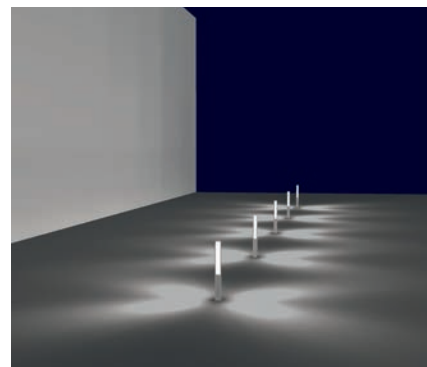
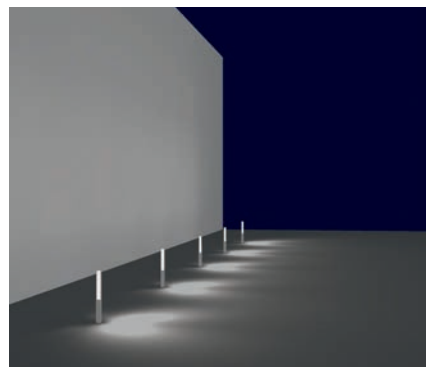
• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



Light source	K	R <sub>a</sub>	lm	W		Order no. OSRAM	Order no. Siteco
Light emission, single-sided							
LED	3000	> 80	500	20	6.5	4050737461939	5AA421512W
LED	4000	> 80	500	20	6.5	4050737461915	5AA421512N

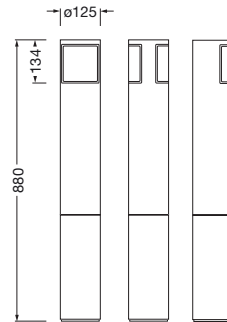
Light emission, double-sided							
LED	3000	> 80	1000	20	6.4	4050737461977	5AA421522W
LED	4000	> 80	1000	20	6.4	4050737461953	5AA421522N

- please order planted section separately if required
- please order junction box separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

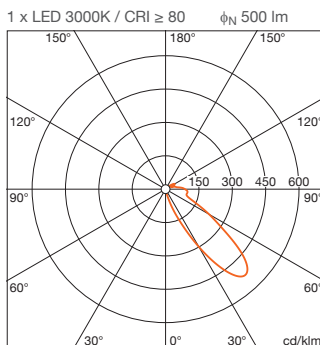




LED



4050737462011  
5AA431512W



$I_{max}$  1516 cd/klm at  $\gamma$  55°

C 0/180 C 90/270

**CL LED Bollard 90**

Bollard for mounting on foundation or planted section

- with one or two-sided light emission; with secondary reflector system for glare-free illumination; with transparent cover
- LED operating electronics integrated in housing

- aluminum housing, solid base with integrated gear tray; powder-coated in Siteco® metallic gray (DB 702S); cover of impact-resistant PC
- protection rating: IP65
- insulation class: II
- impact resistance: IK10

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



**Light source**

K	R <sub>a</sub>	Im	W	
---	----------------	----	---	--

**Order no.**  
OSRAM

**Order no.**  
Siteco

Light emission, single-sided

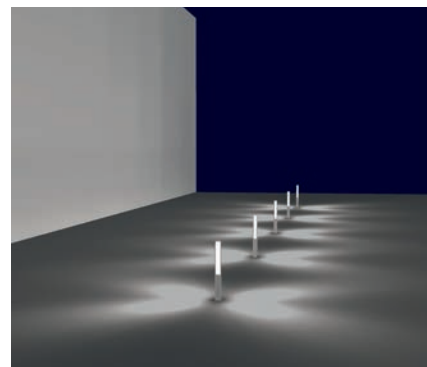
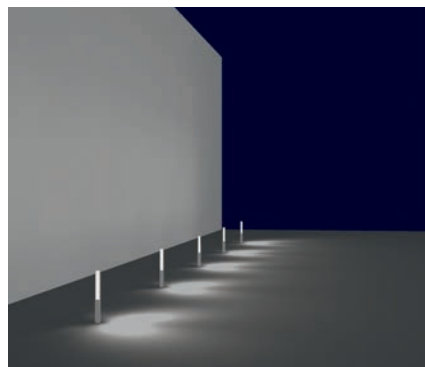
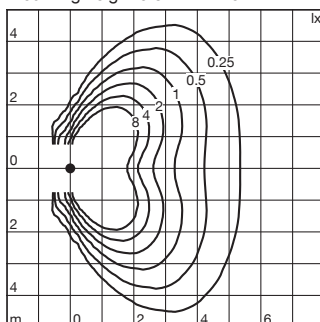
LED	3000	> 80	500	20	11.9	4050737462011	5AA431512W
LED	4000	> 80	500	20	11.9	4050737461991	5AA431512N

Light emission, double-sided

LED	3000	> 80	1000	20	11.8	4050737462059	5AA431522W
LED	4000	> 80	1000	20	11.8	4050737462035	5AA431522N

- please order planted section separately if required
- please order junction box separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25

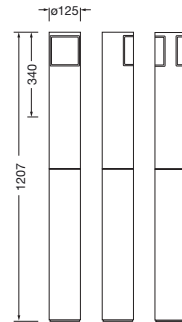
Mounting height 0.8 m Tilt 0°



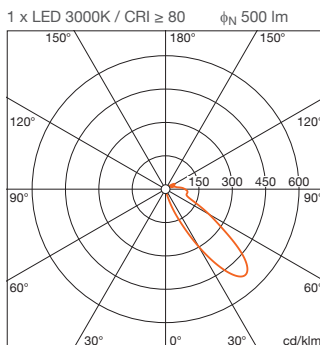




LED



4050737462097  
5AA441512W



$I_{max}$  1516 cd/klm at  $\gamma$  55°

C 0/180 C 90/270

**CL LED Bollard 120**

Bollard for mounting on foundation or planted section

- with one or two-sided light emission; with secondary reflector system for glare-free illumination; with transparent cover
- LED operating electronics integrated in housing

- aluminum housing, solid base with integrated gear tray; powder-coated in Siteco® metallic gray (DB 702S); cover of impact-resistant PC
- protection rating: IP65
- insulation class: II
- impact resistance: IK10

• rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data



**Light source**

K	R <sub>a</sub>	Im	W	
---	----------------	----	---	--

Order no.  
**OSRAM**

Order no.  
**Siteco**

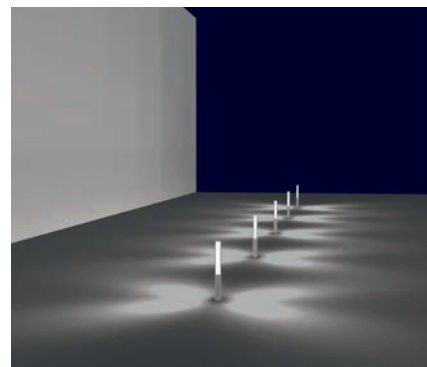
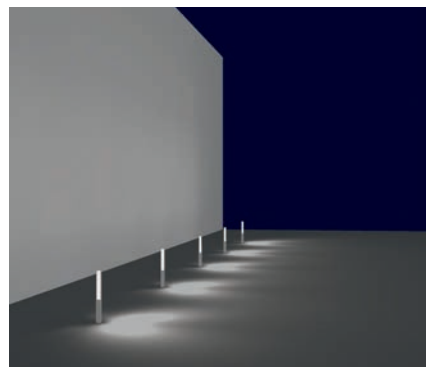
Light emission, single-sided

LED	3000	> 80	500	20	17.3	4050737462097	5AA441512W
LED	4000	> 80	500	20	17.3	4050737462073	5AA441512N

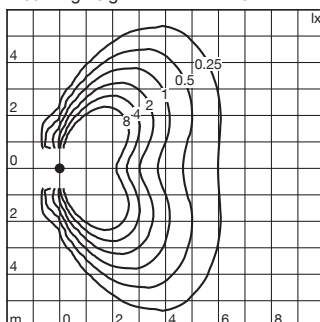
Light emission, double-sided

LED	3000	> 80	1000	20	17.2	4050737462134	5AA441522W
LED	4000	> 80	1000	20	17.2	4050737462110	5AA441522N

- please order planted section separately if required
- please order junction box separately
- please see the notes on the EU directive concerning energy labeling of electrical lamps and luminaires (EU) 874/2012 on page 15.25



Mounting height 1.14 m Tilt 0°



**CL LED Bollard 30 | ... 60 | ... 90 | ... 120 mounting accessories**



**Planted section**

for safe anchorage of bollard luminaire in various grounds | planted sections of steel, galvanized | with suitable aperture ring for fixing luminaire

Designation	d x h (mm)	Order no. OSRAM	Order no. Siteco
For CL Bollard 30/60	150 x 250	4039806849175	5AA40007X
For CL Bollard 90/120	150 x 500	4039806849151	5AA40006X

**CL LED Bollard 30 | ... 60 | ... 90 | ... 120 electrical accessories**



**Cable junction box**

for 1 or 2 feeder cables to 4 x 10mm<sup>2</sup> or 3 cables to 4 x 6mm<sup>2</sup> | with one D01 fuse base with E14 screw cap | housing of PC | IP43 | insulation class II

Designation	Order no. OSRAM	Order no. Siteco
Cable junction box	4039806853189	5NY70005XK

WWW.TESLI.COM



For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

## CITY-LIGHT bollards and pillars



The LED bollard and pillar luminaires of the CITY-LIGHT family can adapt to a wide variety of lighting tasks. With intelligently graded construction sizes and a modern design they blend harmoniously with their architectural surroundings.

With the LED versions of this luminaire family, the classic electrical insert has been replaced by the LED Module 520 especially developed by Siteco for this purpose. The modular construction ensures that forthcoming, more modern LED generations with higher performance levels can be upgraded later with ease.

The glare-free, directed light distribution is achieved via a precisely matched combination of high-performance LED, optical lens systems, highly specular reflectors and transparent luminaire enclosures. The LED Module 520 has symmetric or asymmetric light distribution and is available either with warm white or neutral white color temperature.

The LED Module 520 is equipped with microprocessor-controlled LED operating electronics. This makes available a series of functions. These have been combined into three performance packages: "Basic", "Plus" and "Premium". All make use of the outstanding property of LED light sources in reducing luminous flux without loss. These values are either factory-set ("Basic" package), can be individually set with the Siteco® Service Box ("Plus" package) or centrally set via Street Light Control ("Premium" package). The "Plus" and "Premium" versions offer the widest spectrum of efficient control of LED luminaires according to requirements.

Most optical components and electrical inserts and the LED Module 520 for this luminaire family can be interchanged and are identical to components of the lantern-design town and park luminaires, enabling outstanding availability of replacement parts and the rapid, maintenance-friendly exchange of components for greater flexibility for design.

### New:

#### LED town and park luminaires with new LED Module 540

Ready for order: Q3/2014

Detailed information

[www.siteco.com/LEDModule540](http://www.siteco.com/LEDModule540)

Rapid advances in LED technology lead to permanent improvements in energy efficiency. This has the result that luminous flux or power consumption can also change correspondingly. The latest values can be found in the photometric test report for the specific products and in the current download files of the photometric planning data.



### Features

- diverse application areas due to timeless design
- solid, robust appearance
- modular construction for simplified spare parts availability; electrical insert identical to post-top luminaires of CITY-LIGHT, LANTERN and MUSHROOM LUMINAIRE families
- extremely weather-resistant coating in Siteco® metallic gray (DB 702S)
- shielding on building side; emission range 180°
- CITY-LIGHT 260 D light pillar: secondary light emission aperture for illumination of ground

### Lighting technology

Versions with LED Module 520 with transparent cover: glare-free, directed light distribution via a precisely matched combination of high-performance LED, either with warm white or neutral white color temperature, optimal lens system with spreader, highly specular reflector and transparent luminaire cover:

- symmetric light distribution
- asymmetric light distribution without light emission into the rear area

CITY-LIGHT 260 D pillar with lamellae reflector for secondary light emission illuminating the ground

### Electrics

Housing with inspection door, equipped with mounting bracket for cable junction box

### “Basic” performance package:

LED module with 3-pole connection terminal, max. 2.5mm<sup>2</sup> (2-pole for mains supply + 1-pole for 230V control voltage for power reduction) | control signal:  $U_{St} = 230V \rightarrow 100\%$  luminous flux;  $U_{St} = 0V \rightarrow$  approx. 50% luminous flux

### “Plus” performance package:

LED module with 5-pole connection terminal, max. 2.5mm<sup>2</sup> (2-pole for mains supply + 1-pole for 230V control voltage for power reduction + 2-pole for Siteco® Digital Interface (SDI)) | SDI for configuring luminaire with the Siteco® Service Box (with integration of luminaire into digital control system on request) | alternatively: luminous flux reduction via 230V control voltage

### “Premium” performance package:

LED module with 2-pole connection terminal, max. 2.5mm<sup>2</sup> (control and monitoring of the luminaire from a central control point without supplementary control wires; data transmission according to standardized LON protocol)

See the 'LED Module 520' product family in the 'Facade and path luminaires' section for specifications of the control and monitoring functions of the luminaires with LED module, and further information about the efficient control of outdoor luminaires

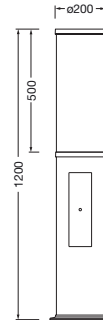
### Housing

Luminaire housing of extruded aluminum, with inspection door; glass-fiber-reinforced polyester canopy element; housing and canopy with weather-resistant surface coating in Siteco® metallic gray (DB 702S) | secured, detachable upper luminaire parts | transparent cover of impact-resistant, UV-stabilized PMMA | mounting on foundation or planted section | protection rating: IP54 | insulation class: II

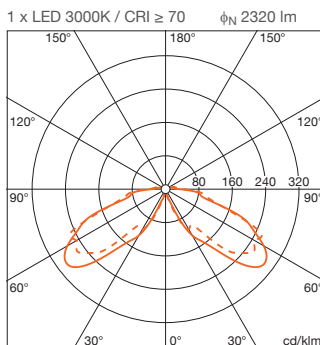




LED



4050737013534  
5XA52817WS28



— C 0/180    - - - C 90/270

Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 120 LED**  
**Bollard | symmetric distribution**

Bollard for mounting on foundation or planted section

- with white LED, symmetric distribution; with light dispersing element for luminance reduction; with transparent cover
- microprocessor-controlled LED operating electronics; depending on version with

differing control function for light management and monitoring\*

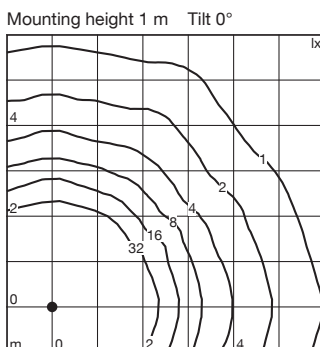
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
- "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
- "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
- Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire



Light source	K	Ra	Im	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	Kg	CONTROL	EGG LLLCG	Order no. OSRAM	Order no. Siteco
with LED Module 520											
LED	3000	> 70	2320	42	42	20	10.7		Basic	4050737013534	5XA52817WS28
LED	4000	> 70	2630	42	43	20	10.7		Basic	4050737013497	5XA52817NS28
LED	3000	> 70	1830	28	42	17	10.7		Plus	4050737026466	5XA52818WS28
LED	4000	> 70	1990	28	42	17	10.7		Plus	4050737026428	5XA52818NS28
LED	3000	> 70	1830	29	42	17	10.7	X	Premium	4050737026541	5XA52819WS28
LED	4000	> 70	1990	29	42	17	10.7	X	Premium	4050737026503	5XA52819NS28

- please order the 'bollard cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

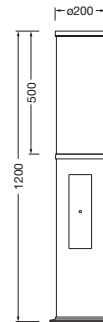


**Accessories (for details see page 12.82 ff.)**

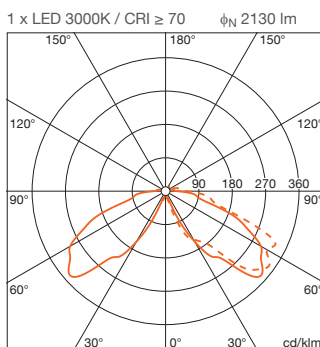
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Bollard cable set, L = 1 m, for "Plus" version	0.3	4050737028866	5EA6Y00L05
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EA6TEF01
Cable junction box	0.5	4039806199973	5NY70012XK



LED



4050737013510  
5XA52817WA28



Luminous intensity class according to EN13201-2: ---

**CITY-LIGHT 120 LED**  
**Bollard | asymmetric distribution**

Bollard for mounting on foundation or planted section

- with white LED, asymmetric distribution, without light emission into the rear area; with light dispersing element for luminance reduction; with transparent cover
- microprocessor-controlled LED operating electronics; depending on version with

differing control function for light management and monitoring\*

- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

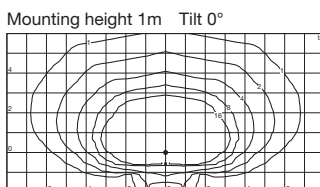
- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
  - "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
  - "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
  - Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire



Light source	K	Ra	lm	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	Kg	CONTROL	ECG LLCG	Order no.	Order no.
										OSRAM	Siteco
with LED Module 520											
LED	3000	> 70	2130	35	35	17	10.7		Basic	4050737013510	5XA52817WA28
LED	4000	> 70	2320	35	36	17	10.7		Basic	4050737013473	5XA52817NA28
LED	3000	> 70	1480	24	35	14	10.7		Plus	4050737026442	5XA52818WA28
LED	4000	> 70	1610	24	35	14	10.7		Plus	4050737026404	5XA52818NA28
LED	3000	> 70	1480	24	35	14	10.7	X	Premium	4050737026527	5XA52819WA28
LED	4000	> 70	1610	24	35	14	10.7	X	Premium	4050737026480	5XA52819NA28

- please order the 'bollard cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

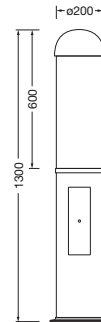
**Accessories (for details see page 12.82 ff.)**



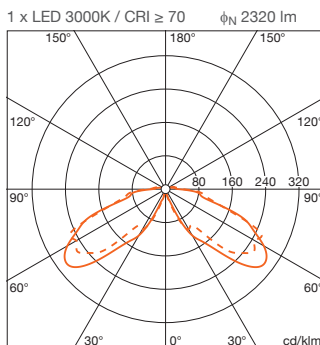
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Bollard cable set, L = 1m, for "Plus" version	0.3	4050737028866	5EAGY00L05
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EAGTEF01
Cable junction box	0.5	4039806199973	5NY70012XK



LED



4050737013541  
5XA52817WS58



— C 0/180    - - - C 90/270

Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 120 E LED**  
**Bollard | symmetric distribution**

Bollard for mounting on foundation or planted section

- with white LED, symmetric distribution; with light dispersing element for luminance reduction; with transparent cover
- microprocessor-controlled LED operating electronics; depending on version with

differing control function for light management and monitoring\*

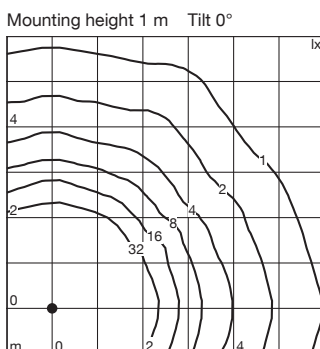
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
- "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
- "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
- Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire



Light source	K	R <sub>a</sub>	lm	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	kg	CONTROL	ECG LLOG	Order no. OSRAM	Order no. Siteco
with LED Module 520											
LED	3000	> 70	2320	42	42	20	10.5		Basic	4050737013541	5XA52817WS58
LED	4000	> 70	2630	42	42	20	10.5		Basic	4050737013503	5XA52817NS58
LED	3000	> 70	1830	29	42	17	10.5		Plus	4050737026473	5XA52818WS58
LED	4000	> 70	1990	29	42	17	10.5		Plus	4050737026435	5XA52818NS58
LED	3000	> 70	1830	29	42	17	10.6	X	Premium	4050737026558	5XA52819WS58
LED	4000	> 70	1990	29	42	17	10.6	X	Premium	4050737026510	5XA52819NS58

- please order the 'bollard cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required



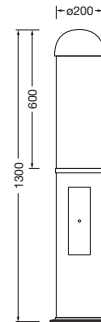
**Accessories (for details see page 12.82 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Bollard cable set, L = 1 m, for "Plus" version	0.3	4050737028866	5EA6Y00L05
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EA6TEF01
Cable junction box	0.5	4039806199973	5NY70012XK

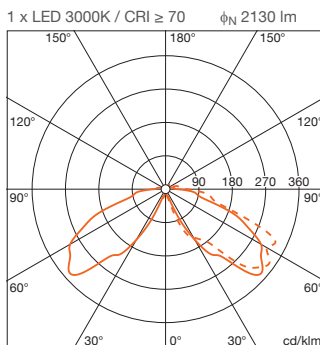




LED



4050737013527  
5XA52817WA58



Luminous intensity class according to EN13201-2: ---

**CITY-LIGHT 120 E LED**  
**Bollard | asymmetric distribution**

Bollard for mounting on foundation or planted section

- with white LED, asymmetric distribution, without light emission into the rear area; with light dispersing element for luminance reduction; with transparent cover
- microprocessor-controlled LED operating electronics; depending on version with

differing control function for light management and monitoring\*

- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

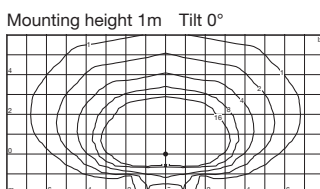
- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
  - "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
  - "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
  - Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire



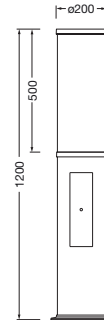
Light source	K	R <sub>a</sub>	lm	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	kg	CONTROL	ECG LLLG	Order no. OSRAM	Order no. Siteco
with LED Module 520											
LED	3000	> 70	2130	35	35	17	10.5		Basic	4050737013527	5XA52817WA58
LED	4000	> 70	2320	35	35	17	10.5		Basic	4050737013480	5XA52817NA58
LED	3000	> 70	1480	24	35	14	10.5		Plus	4050737026459	5XA52818WA58
LED	4000	> 70	1610	24	35	14	10.5		Plus	4050737026411	5XA52818NA58
LED	3000	> 70	1480	24	35	14	10.6	X	Premium	4050737026534	5XA52819WA58
LED	4000	> 70	1610	24	35	14	10.6	X	Premium	4050737026497	5XA52819NA58

- please order the 'bollard cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

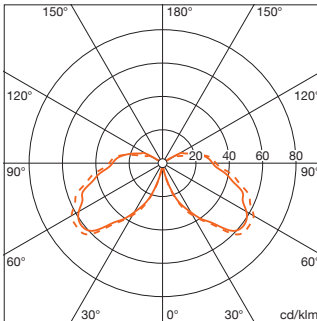
**Accessories (for details see page 12.82 ff.)**



Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Bollard cable set, L = 1m, for "Plus" version	0.3	4050737028866	5EA6Y00L05
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EA6TEF01
Cable junction box	0.5	4039806199973	5NY70012XK



4039806348579 + 4039806058560  
5NA528E1MS28 + 5NA52004XS  
1 x HSE 50W/220 LL  $\phi$  4000 lm



C 0/180 C 90/270

Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 120 Bollard**

Bollard for mounting on foundation or planted section  
 - open distribution, with transparent or frosted cover depending on version; symmetric wide distribution with light distribution directed downwards via fan-shaped reflector

- with LLCG, pf-corrected, with power reduction depending on version\*
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

\* power reduction via 230V control voltage



**Light source**



**Order no. OSRAM**

**Order no. Siteco**

PMMA, transparent

1x HSE 50 W <sup>1)</sup>	E27		11.0	4039806348579	5NA528E1MS28
1x HSE 70 W	E27	X	11.2	4039806348470	5NA528E1MR28
2x TC-LEL 18/24 W	2G11		11.0	4039806280367	5LA52822KS28

PMMA, frosted

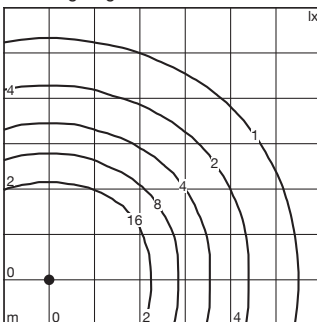
1x HSE 50 W <sup>1)</sup>	E27		11.0	4039806348593	5NA528E1MS38
1x HSE 70 W	E27	X	11.2	4039806348494	5NA528E1MR38
2x TC-LEL 18/24 W	2G11		11.0	4039806280381	5LA52822KS38

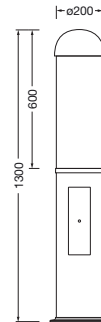
- 1) ballast with 2x power tapping 50/70W
- please order fan-shaped reflector separately
- please order junction box separately
- please order planted section separately if required

**Accessories (for details see page 12.82 ff.)**

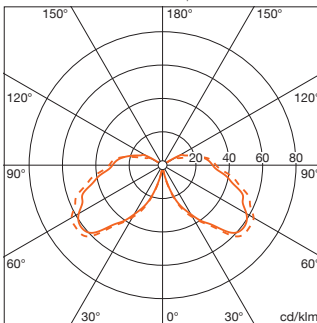
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Fan-shaped reflector, symmetric wide distribution	1.3	4039806058560	5NA52004XS
Cable junction box	0.5	4039806199973	5NY70012XK

Mounting height 1 m Tilt 0°





4039806348616 + 4039806058560  
5NA528E1MS58 + 5NA52004XS  
1 x HSE 50W/220 LL  $\phi$  4000 lm



C 0/180 C 90/270

Luminous intensity class according to EN13201-2: G1

### CITY-LIGHT 120 E Bollard

Bollard for mounting on foundation or planted section  
 — open distribution, with transparent or frosted cover depending on version; symmetric wide distribution with light distribution directed downwards via fan-shaped reflector

- with LLCG, pf-corrected, with power reduction depending on version\*
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

\* power reduction via 230V control voltage



#### Light source



Order no. OSRAM

Order no. Siteco

PMMA, transparent

Light source	W	X	kg	Order no. OSRAM	Order no. Siteco
1x HSE 50 W <sup>1)</sup>	E27		10.9	4039806348616	5NA528E1MS58
1x HSE 70 W	E27	X	11.0	4039806348531	5NA528E1MR58
2x TC-LEL 18/24 W	2G11		10.8	4039806280404	5LA52822KS58

PMMA, frosted

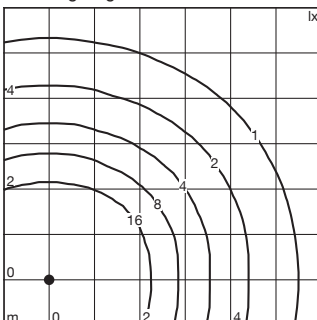
1x HSE 50 W <sup>1)</sup>	E27		10.8	4039806348630	5NA528E1MS68
1x HSE 70 W	E27	X	11.0	4039806348555	5NA528E1MR68
2x TC-LEL 18/24 W	2G11		10.8	4039806280428	5LA52822KS68

- 1) ballast with 2x power tapping 50/70W  
 — please order fan-shaped reflector separately  
 — please order junction box separately  
 — please order planted section separately if required

#### Accessories (for details see page 12.82 ff.)

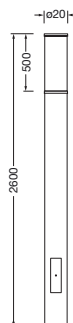
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Fan-shaped reflector, symmetric wide distribution	1.3	4039806058560	5NA52004XS
Cable junction box	0.5	4039806199973	5NY70012XK

Mounting height 1 m Tilt 0°

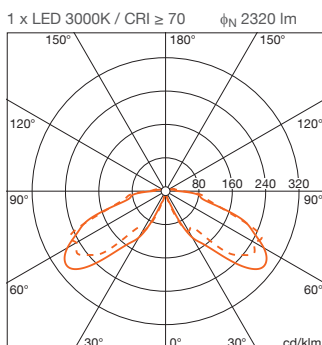




LED



4050737013640  
5XA52917WS28



— C 0/180  
- - - C 90/270

Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 260 LED**  
**Pillar | symmetric distribution**

Pillar for mounting on foundation or planted section

- with white LED, symmetric distribution; with light dispersing element for luminance reduction; with transparent cover
- microprocessor-controlled LED operating electronics; depending on version with

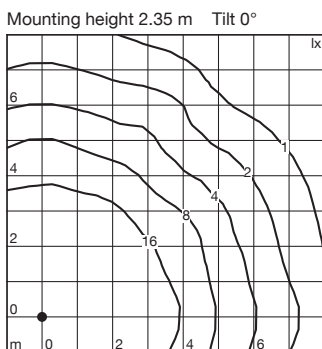
- differing control function for light management and monitoring\*
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
- "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
- "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
- Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire



Light source	K	R <sub>a</sub>	lm	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	kg	CONTROL	ECG LLOG	Order no. OSRAM	Order no. Siteco
with LED Module 520											
LED	3000	> 70	2320	42	42	20	20.9		Basic	4050737013640	5XA52917WS28
LED	4000	> 70	2630	42	42	20	20.9		Basic	4050737013589	5XA52917NS28
LED	3000	> 70	1830	29	42	17	20.9		Plus	4050737026657	5XA52918WS28
LED	4000	> 70	1990	29	42	17	20.9		Plus	4050737026596	5XA52918NS28
LED	3000	> 70	1830	29	42	17	20.9	X	Premium	4050737026770	5XA52919WS28
LED	4000	> 70	1990	29	42	17	20.9	X	Premium	4050737026718	5XA52919NS28

- please order the 'pillar cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

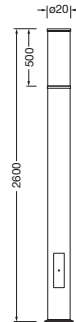


**Accessories (for details see page 12.82 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pillar cable set, L = 2m, for "Plus" version	0.6	4050737028897	5EA6Y00L06
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EA6TEF01
Cable junction box	0.5	4039806199973	5NY70012XK

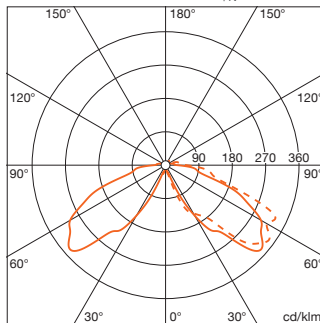


LED



4050737013619  
5XA52917WA28

1 x LED 3000K / CRI  $\geq$  70  $\phi_N$  2130 lm



— C 0/180  
- - - C 90/270

Luminous intensity class according to EN13201-2: ---

**CITY-LIGHT 260 LED**  
**Pillar | asymmetric distribution**

Pillar for mounting on foundation or planted section

- with white LED, asymmetric distribution, without light emission into the rear area; with light dispersing element for luminance reduction; with transparent cover
- microprocessor-controlled LED operating electronics; depending on version with

- differing control function for light management and monitoring\*
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

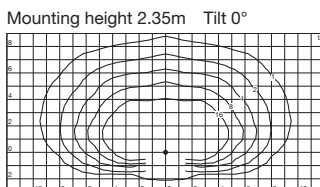
- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
- "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
- "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
- Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire



Light source	K	R <sub>a</sub>	lm	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	kg	CONTROL	ECG LLCG	Order no. OSRAM	Order no. Siteco
with LED Module 520											
LED	3000	> 70	2130	35	35	17	20.9		Basic	4050737013619	5XA52917WA28
LED	4000	> 70	2320	35	35	17	20.9		Basic	4050737013558	5XA52917NA28
LED	3000	> 70	1480	24	35	14	20.9		Plus	4050737026626	5XA52918WA28
LED	4000	> 70	1610	24	35	14	20.9		Plus	4050737026565	5XA52918NA28
LED	3000	> 70	1480	24	35	14	20.9	X	Premium	4050737026749	5XA52919WA28
LED	4000	> 70	1610	24	35	14	20.9	X	Premium	4050737026688	5XA52919NA28

- please order the 'pillar cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

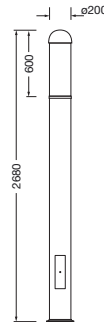
**Accessories (for details see page 12.82 ff.)**



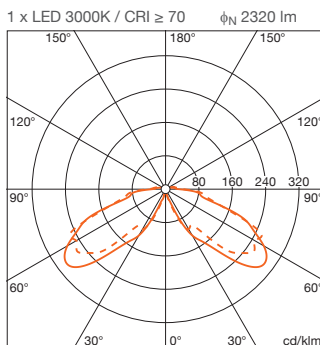
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pillar cable set, L = 2m, for "Plus" version	0.6	4050737028897	5EAGY00L06
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EAGTEF01
Cable junction box	0.5	4039806199973	5NY70012XK



LED



4050737013657  
5XA52917WS58



Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 260 E LED**  
**Pillar | symmetric distribution**

Pillar for mounting on foundation or planted section

- with white LED, symmetric distribution; with light dispersing element for luminance reduction; with transparent cover
- microprocessor-controlled LED operating electronics; depending on version with

differing control function for light management and monitoring\*

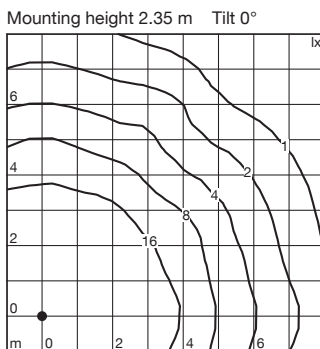
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
- "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
- "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
- Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire



Light source	K	R <sub>a</sub>	lm	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	Kg	CONTROL	ECG LLCG	Order no. OSRAM	Order no. Siteco
with LED Module 520											
LED	3000	> 70	2320	42	42	20	16.2		Basic	4050737013657	5XA52917WS58
LED	4000	> 70	2630	42	42	20	16.2		Basic	4050737013596	5XA52917NS58
LED	3000	> 70	1830	29	42	17	16.2		Plus	4050737026664	5XA52918WS58
LED	4000	> 70	1990	29	42	17	16.2		Plus	4050737026602	5XA52918NS58
LED	3000	> 70	1830	29	42	17	16.3	X	Premium	4050737026787	5XA52919WS58
LED	4000	> 70	1990	29	42	17	16.3	X	Premium	4050737026725	5XA52919NS58

- please order the 'pillar cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

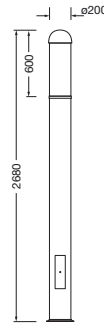


**Accessories (for details see page 12.82 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pillar cable set, L = 2m, for "Plus" version	0.6	4050737028897	5EA6Y00L06
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EA6TEF01
Cable junction box	0.5	4039806199973	5NY70012XK

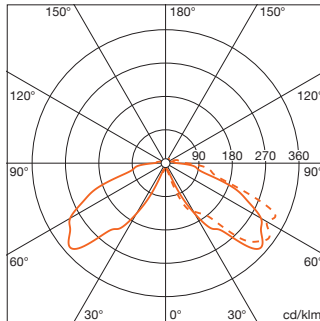


LED



4050737013626  
5XA52917WA58

1 x LED 3000K / CRI ≥ 70    φ<sub>N</sub> 2130 lm



— C 0/180    - - - C 90/270

Luminous intensity class according to EN13201-2: ---

**CITY-LIGHT 260 E LED**  
**Pillar | asymmetric distribution**

Pillar for mounting on foundation or planted section

- with white LED, asymmetric distribution; with light dispersing element for luminance reduction; with transparent cover
- microprocessor-controlled LED operating electronics; depending on version with

- differing control function for light management and monitoring\*
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
- "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
- "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
- Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire

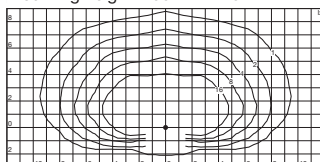


Light source	K	R <sub>a</sub>	lm	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	kg	CONTROL	ECG LLOG	Order no. OSRAM	Order no. Siteco
with LED Module 520											
LED	3000	> 70	2130	35	35	17	16.2		Basic	4050737013626	5XA52917WA58
LED	4000	> 70	2320	35	35	17	16.2		Basic	4050737013565	5XA52917NA58
LED	3000	> 70	1480	24	35	14	16.2		Plus	4050737026633	5XA52918WA58
LED	4000	> 70	1610	24	35	14	16.2		Plus	4050737026572	5XA52918NA58
LED	3000	> 70	1480	24	35	14	16.3	X	Premium	4050737026756	5XA52919WA58
LED	4000	> 70	1610	24	35	14	16.3	X	Premium	4050737026695	5XA52919NA58

- please order the 'pillar cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

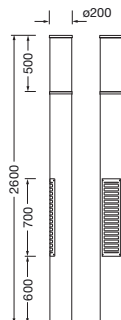
**Accessories (for details see page 12.82 ff.)**

Mounting height 2.35m Tilt 0°



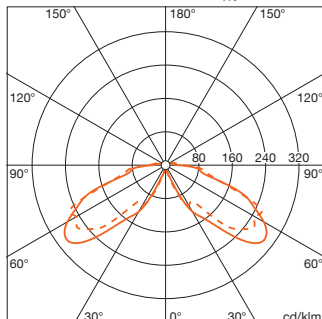
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pillar cable set, L = 2m, for "Plus" version	0.6	4050737028897	5EA6Y00L06
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EA6TEF01
Cable junction box	0.5	4039806199973	5NY70012XK





4050737013664  
5XA52917WS58D

1 x LED 3000K / CRI ≥ 70  $\phi_N$  2320 lm



C 0/180 C 90/270

Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 260 D LED**

**Pillar | symmetric distribution, with supplementary light emission near to ground**

Pillar for mounting on foundation or planted section

- with white LED, symmetric distribution; with light dispersing element for luminance reduction; with transparent cover; with secondary light emission via opal cover near to ground
- microprocessor-controlled LED operating electronics; depending on version with

- differing control function for light management and monitoring\*; secondary light emission with ECG
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

- \* all versions with temperature monitoring for protection of LED from thermal overload
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
- "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
- "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
- Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire

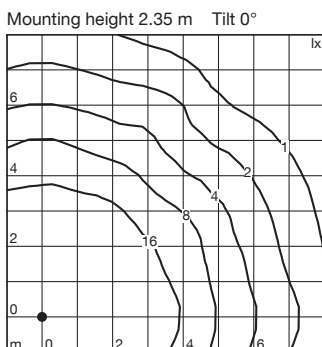


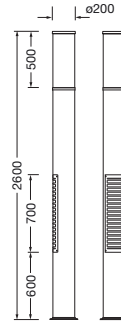
Light source	K	Im	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	Light source 2	Control	ECG/LLCG	Order no. OSRAM	Order no. Siteco
with LED Module 520										
LED	3000	2320	42	42	20	1x TC-LEL 40 2G11	15.5	Basic	4050737013664	5XA52917WS58D
LED	4000	2630	42	42	20	1x TC-LEL 40 2G11	15.5	Basic	4050737013602	5XA52917NS58D
LED	3000	1830	29	42	17	1x TC-LEL 40 2G11	15.5	Plus	4050737026671	5XA52918WS58D
LED	4000	1990	29	42	17	1x TC-LEL 40 2G11	15.5	Plus	4050737026619	5XA52918NS58D
LED	3000	1830	29	42	17	1x TC-LEL 40 2G11	15.6 X	Premium	4050737026794	5XA52919WS58D
LED	4000	1990	29	42	17	1x TC-LEL 40 2G11	15.6 X	Premium	4050737026732	5XA52919NS58D

- please order the 'pillar cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

**Accessories (for details see page 12.82 ff.)**

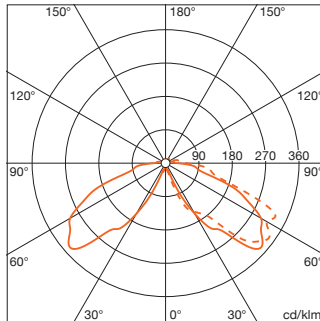
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pillar cable set, L = 2m, for "Plus" version	0.6	4050737028897	5EA6Y00L06
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EA6TEF01
Cable junction box	0.5	4039806199973	5NY70012XK





4050737013633  
5XA52917WA58D

1 x LED 3000K / CRI ≥ 70  $\phi_N$  2130 lm



— C 0/180  
- - - C 90/270

Luminous intensity class according to EN13201-2: ---

**CITY-LIGHT 260 D LED**

**Pillar | asymmetric distribution, with supplementary light emission near to ground**

Pillar for mounting on foundation or planted section

- with white LED, asymmetric distribution, without light emission into the rear area; with light dispersing element for luminance reduction; with transparent cover; with secondary light emission via opal cover near to ground
- microprocessor-controlled LED operating electronics; depending on version with

- differing control function for light management and monitoring\*;
- secondary light emission with ECG
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

\* all versions with temperature monitoring for protection of LED from thermal overload

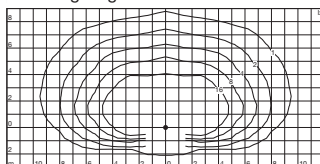
- "Basic" version: with luminous flux reduction via 230V control voltage | no luminous flux constancy
- "Plus" version: with luminous flux constancy over complete service life | with integrated, programmable timer for luminous flux reduction at two levels | settable luminous flux for max. operation and for both reduction levels | all parameters can be set with the Service Box | on request: can be integrated via SDI into existing digital control systems and controlled from a central control point | alternatively: luminous flux reduction via 230V control voltage
- "Premium" version: functional range as with "Plus" version, but for individual monitoring and control of the luminaire from a central control point from any distance via LON PowerLine without supplementary control wire (instead of SDI)
- Luminaire can be operated with factory pre-setting. The pre-setting with the "Plus" and "Premium" versions can be modified with the mounted or dismantled luminaire



Light source	K	lm	W <sub>start</sub>	W <sub>end</sub>	W <sub>red</sub>	Light source 2	Control	ECG/LLGS	Order no.	Order no.
									OSRAM	Siteco
with LED Module 520										
LED	3000	2130	35	35	17	1x TC-LEL 40	2G11 15.5	Basic	4050737013633	5XA52917WA58D
LED	4000	2320	35	35	17	1x TC-LEL 40	2G11 15.5	Basic	4050737013572	5XA52917NA58D
LED	3000	1480	24	35	14	1x TC-LEL 40	2G11 15.5	Plus	4050737026640	5XA52918WA58D
LED	4000	1610	24	35	14	1x TC-LEL 40	2G11 15.5	Plus	4050737026589	5XA52918NA58D
LED	3000	1480	24	35	14	1x TC-LEL 40	2G11 15.6 X	Premium	4050737026763	5XA52919WA58D
LED	4000	1610	24	35	14	1x TC-LEL 40	2G11 15.6 X	Premium	4050737026701	5XA52919NA58D

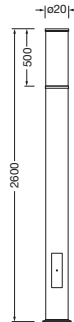
- please order the 'pillar cable set' separately for configuration of the LED module, "Plus" version with the installed luminaire
- please order junction box separately
- please order planted section separately if required

Mounting height 2.35m Tilt 0°

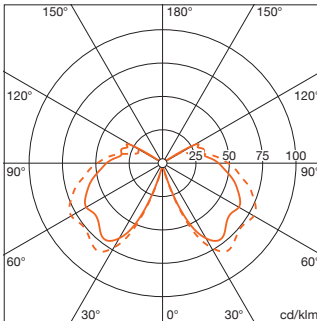


**Accessories (for details see page 12.82 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Pillar cable set, L = 2m, for "Plus" version	0.6	4050737028897	5EA6Y00L06
Siteco® Service Box, for "Plus" version	1.7	4039806998927	5EA6TEF01
Cable junction box	0.5	4039806199973	5NY70012XK



4039806350343 + 4039806058423  
5NA529E1MS28 + 5NA52000XS  
1 x HSE 50W/220 LL  $\phi$  4000 lm



C 0/180 C 90/270

Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 260 Pillar**

Pillar for mounting on foundation or planted section

- open distribution, with transparent or frosted cover depending on version; symmetric wide distribution via fan-shaped reflector or shield, asymmetric wide distribution (with reduced light emission into the rear area) via fan-shaped reflector with shielding on building side; fan-shaped reflector with light distribution directed downwards
- with LLCG, pf-corrected, with power reduction depending on version\*
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

\* power reduction via 230V control voltage

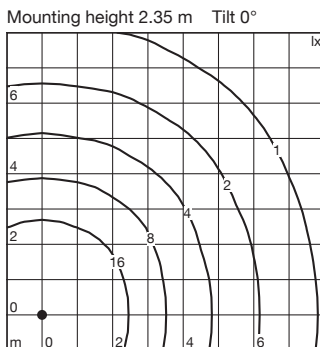


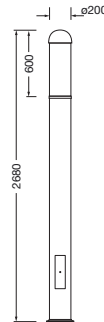
Light source				Order no. OSRAM	Order no. Siteco
PMMA, transparent					
1x HSE 50 W <sup>1)</sup>	E27		21.2	4039806350343	5NA529E1MS28
1x HSE 70 W	E27	X	21.4	4039806350237	5NA529E1MR28
2x TC-LEL 18/24 W	2G11		21.2	4039806280565	5LA52922KS28
PMMA, frosted					
1x HSE 50 W <sup>1)</sup>	E27		21.2	4039806350374	5NA529E1MS38
1x HSE 70 W	E27	X	21.3	4039806350268	5NA529E1MR38
2x TC-LEL 18/24 W	2G11		21.1	4039806280596	5LA52922KS38

- 1) ballast with 2x power tapping 50/70W
- please order fan-shaped reflector or shielding separately
  - please order junction box separately
  - please order planted section separately if required

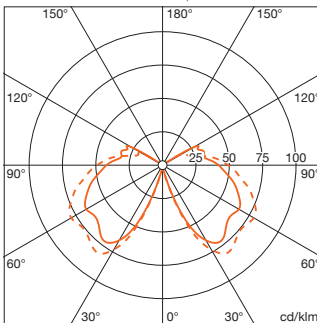
**Accessories (for details see page 12.82 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Fan-shaped reflector, rotationally symmetric wide distribution, for 1x HSE	0.6	4039806058423	5NA52000XS
Fan-shaped reflector, asymmetric wide distribution, for 1x HSE	0.6	4039806058485	5NA52002XS
Fan-shaped reflector, rotationally symmetric wide distribution, for 1/2x TC-LEL	0.9	4039806072207	5NA52005XS
Fan-shaped reflector, asymmetric wide distribution, for 1/2x TC-LEL	0.9	4039806072221	5NA52005XS1
Lamp shield, symmetric wide distribution, for 1x HSE	0.4	4039806058522	5NA52003XS
Cable junction box	0.5	4039806199973	5NY70012XK





4039806350398 + 4039806058423  
5NA529E1MS58 + 5NA52000XS  
1 x HSE 50W/220 LL  $\phi$  4000 lm



C 0/180 C 90/270

Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 260 E Pillar**

Pillar in cylindrical form for mounting on foundation or planted section

- open distribution, with transparent or frosted cover depending on version; symmetric wide distribution via fan-shaped reflector or shield, asymmetric wide distribution (with reduced light emission into the rear area) via fan-shaped reflector with shielding on building

- side; fan-shaped reflector with light distribution directed downwards
- with LLCG, pf-corrected, with power reduction depending on version\*
- housing and canopy element of diecast aluminum, Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

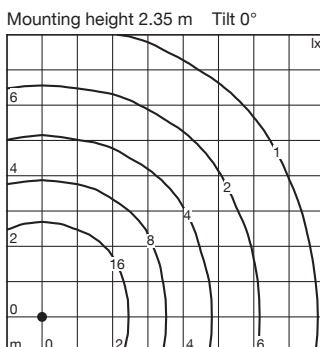
\* power reduction via 230V control voltage



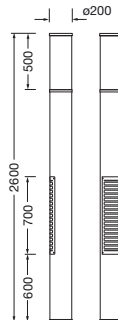
Light source				Order no. OSRAM	Order no. Siteco
PMMA, transparent					
1x HSE 50 W <sup>1)</sup>	E27		16.6	4039806350398	5NA529E1MS58
1x HSE 70 W	E27	X	16.7	4039806350305	5NA529E1MR58
PMMA, frosted					
1x HSE 50 W <sup>1)</sup>	E27		16.5	4039806350411	5NA529E1MS68
1x HSE 70 W	E27	X	16.7	4039806350329	5NA529E1MR68

- 1) ballast with 2x power tapping 50/70W
- please order fan-shaped reflector or shielding separately
  - please order junction box separately
  - please order planted section separately if required

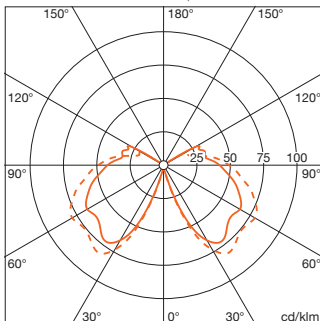
**Accessories (for details see page 12.82 ff.)**



Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Fan-shaped reflector, rotationally symmetric wide distribution, for 1x HSE	0.6	4039806058423	5NA52000XS
Fan-shaped reflector, asymmetric wide distribution, for 1x HSE	0.6	4039806058485	5NA52002XS
Lamp shield, symmetric wide distribution, for 1x HSE	0.4	4039806058522	5NA52003XS
Cable junction box	0.5	4039806199973	5NY70012XK



4039806350350 + 4039806058423  
5NA529E1MS28D + 5NA52000XS  
1 x HSE 50W/220 LL  $\phi$  4000 lm



C 0/180 C 90/270

Luminous intensity class according to EN13201-2: G1

**CITY-LIGHT 260 D**

**Pillar | with supplementary light emission near to ground**

Pillar for mounting on foundation or planted section

- open distribution, with transparent or frosted cover depending on version; symmetric wide distribution via fan-shaped reflector or shield, asymmetric wide distribution (with reduced light emission into the rear area) via fan-shaped reflector with shielding on building side; fan-shaped reflector with light distribution directed downwards; with

secondary light emission via opal cover near to ground

- with LLCG, pf-corrected, with power reduction\* depending on version; secondary light emission with ECG
- aluminum housing; glass-fiber-reinforced polyester canopy element; housing and canopy in Siteco® metallic gray (DB 702S); cover of PMMA
- protection rating: IP54
- insulation class: II

\* power reduction via 230V control voltage

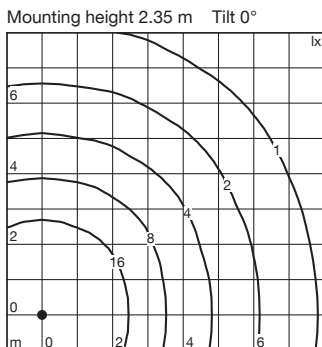


Light source	Light source 2	W <sub>red</sub>	Order no. OSRAM	Order no. Siteco
PMMA, frosted				
1x HSE 50 W <sup>1)</sup>	E27 1x TC-LEL 40 2G11	15.9	4039806350350	5NA529E1MS28D
1x HSE 70 W	E27 1x TC-LEL 40 2G11 X	16.0	4039806350244	5NA529E1MR28D
2x TC-LEL 18/24 W	2G11 1x TC-LEL 40 2G11	15.8	4039806280572	5LA52922KS28D

- 1) ballast with 2x power tapping 50/70W
- please order fan-shaped reflector or shielding separately
  - please order junction box separately
  - please order planted section separately if required

**Accessories (for details see page 12.82 ff.)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Fan-shaped reflector, rotationally symmetric wide distribution, for 1x HSE	0.6	4039806058423	5NA52000XS
Fan-shaped reflector, asymmetric wide distribution, for 1x HSE	0.6	4039806058485	5NA52002XS
Fan-shaped reflector, rotationally symmetric wide distribution, for 1/2x TC-LEL	0.9	4039806072207	5NA52005XS
Fan-shaped reflector, asymmetric wide distribution, for 1/2x TC-LEL	0.9	4039806072221	5NA52005XS1
Lamp shield, symmetric wide distribution, for 1x HSE	0.4	4039806058522	5NA52003XS
Cable junction box	0.5	4039806199973	5NY70012XK



**Siteco® Service Box electrical accessories**

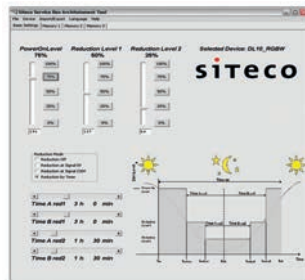


**Siteco® Service Box**

for parameterizing the operating electronics of all “Plus” version Siteco® LED road luminaires | maximum energy efficiency via individual adaptation of lighting level, switching time and reduction level | setting of static colors and dynamic color sequences with suitable luminaires | software\* included with Service Box | with plug-in coupling for connecting Y-cable | plastic housing; plug-in coupling with protection cap | IP54 | insulation class II

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Siteco® Service Box	2.4	4039806998927	5EA6TEF01

— incl. Y-cable for looping the Service Box into luminaire supply cable | incl. 'workshop' cable set for parameterizing the unmounted luminaire in the workshop; safety plug on one end  
 \* adoption of complete color sequences and software updates possible via PC | incl. mini USB interface for connection to PC



**Siteco® Architainment Suite**

on all Siteco® Service Boxes, or free download via the following link:

**www.siteco.com > Service > Downloads > Software > PC tools > Architainment Suite**

**CITY-LIGHT 120 LED | ... 260 LED electrical accessories**

**Mast cable set**

for wiring of junction box in mast to LED Module 520 (“Plus” version) in the mounted luminaire | with 5-pole plug-in coupling for integration of Siteco® Service Box, for manual parameterization of luminaire (e.g. luminous flux, timer etc.)

Designation	Order no. OSRAM	Order no. Siteco
Bollard cable set, l = 1.0m	4050737028866	5EA6Y00L05
Pillar cable set, l = 2.0m	4050737028897	5EA6Y00L06

**Cable junction box**

for 2 feeder cables to 5x 16mm<sup>2</sup> or 3 cables to 5x 10mm<sup>2</sup> | two D01 fuse bases with E14 screw caps | plastic housing, IP44 | insulation class II

Designation	Order no. OSRAM	Order no. Siteco
Terminals L1, L2, L3, N, PE(N)	4039806199973	5NY70012XK

— for further versions (connection options, fusing, protection rating) please see the "Accessories" section

For detailed information about intelligent control of Siteco luminaires, see **chapter 13**

**CITY-LIGHT 120 LED | ... 260 LED mounting accessories**



**Planted section**

for safe anchorage of bollard or pillar in foundation or concentrated ground | planted section of steel, galvanized | with suitable aperture ring for fixing luminaire  
 Dimensions:  $d_a \times h = 255 \times 485\text{mm}$

Designation	Order no. OSRAM	Order no. Siteco
For CITY-LIGHT 120 LED   ... 260 LED	4039806059147	5NA52800BF

**CITY-LIGHT 120 LED | ... 260 LED spare parts**

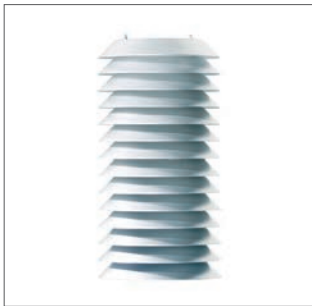


**Optical enclosure**

transparent | PMMA (LED modules provide best efficiency with luminaires with transparent covers)

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
clear	1.4	4039806059666	5NA54900XG

**CITY-LIGHT 120 optical accessories**



**Fan-shaped reflector**

for all lamp types (HSE, TC-LEL) | symmetric illumination | incl. anti-glare ring for covering control gear block

Designation	Order no. OSRAM	Order no. Siteco
Fan-shaped reflector, symmetric, F7	4039806058560	5NA52004XS



HSE  
E27



TC-LEL  
2G11

**CITY-LIGHT 260 electrical accessories**



**Cable junction box**

for 2 feeder cables to  $5 \times 16\text{mm}^2$  or 3 cables to  $5 \times 10\text{mm}^2$  | two D01 fuse bases with E14 screw caps | plastic housing | IP44 | insulation class II

Designation	Order no. OSRAM	Order no. Siteco
Terminals L1, L2, L3, N, PE(N)	4039806199973	5NY70012XK

— for further versions (connection options, fusing, protection rating) please see the "Accessories" section



**CITY-LIGHT 260 optical accessories**



**Fan-shaped reflector**

for high-pressure lamps (1x HSE 50/70/100W) | symmetric distribution, or asymmetric (with shielding on building side) | incl. anti-glare ring for covering control gear block

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Symmetric, F5	0.4	4039806058423	5NA52000XS
Asymmetric (with shielding on building side), F5H	0.4	4039806058485	5NA52002XS



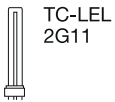
HSE  
E27



**Fan-shaped reflector**

for compact fluorescent lamps (2x TC-LEL 18/24W) | symmetric distribution, or asymmetric (with shielding on building side) | incl. anti-glare ring for covering control gear block

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Symmetric, F6	0.4	4039806072207	5NA52005XS
Asymmetric (with shielding on building side), F6H	0.4	4039806072221	5NA52005XS1



TC-LEL  
2G11



**Lamp shield**

for high-pressure lamps (1x HSE 50/70W) | symmetric illumination | incl. anti-glare ring for covering control gear block

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Lamp shield B3	0.1	4039806058522	5NA52003XS



HSE  
E27



**CITY-LIGHT 120 | ... 260 mounting accessories**



**Planted section**

for safe anchorage of bollard or pillar in foundation or concentrated ground | planted section of steel, galvanized | with suitable aperture ring for fixing luminaire  
 Dimensions:  $d_a \times h = 255 \times 485\text{mm}$

Designation	Order no. OSRAM	Order no. Siteco
For CITY-LIGHT 120   ...260	4039806059147	5NA52800BF

**CITY-LIGHT 120 | ... 260 spare parts**



**Optical enclosure**

transparent or frosted | PMMA

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Cover, transparent	1.4	4039806059666	5NA54900XG
Cover, frosted	1.4	4039806210357	5NA54903XG



www.tesli.com





W







**DALI Pro 9047 (industrial and sports halls (separating wall function) and complex control tasks)**



Operating elements  
Page 13.5



Sensors  
Page 13.10



Relays  
Page 13.15



Controller  
Page 13.16

**DALI Multi 914, basic version (individual and group offices)**



Operating elements  
Page 13.23



Sensors  
Page 13.25



Commissioning remote control  
Page 13.27

**DALI Multi 914, networkable version (classrooms and open-plan offices)**



Operating elements  
Page 13.33



Sensors  
Page 13.35



Commissioning remote control  
Page 13.37

**Basic Industry 913 (simple daylight-dependent lighting control)**



Operating elements  
Page 13.43



Sensors  
Page 13.46



Relays  
Page 13.49



Controller  
Page 13.50

**Components DALI (simple dimming of the lighting installation)**



Rotary dimmer  
Page 13.59



Repeater  
Page 13.65

**Components 1...10V (simple daylight-dependent lighting control)**



Light Sensors  
Page 13.71

**Components switching contact (simple operation of the lighting installation)**



Timer module 916  
Page 13.77



Sensors  
Page 13.83

**DALieco 9043 (components for luminaires with integrated multi-sensor)**



Operating elements  
Page 13.89



Sensors  
Page 13.87



Commissioning  
Page 13.90

# DALI Pro 9047



## Brief description

Light management systems in the indoor luminaire field make a considerable contribution to the energy-efficient operation of lighting installations. In addition, such systems ensure that the requirements concerning the quality of light and the flexibility of the lighting with regard to the utilization of the space are optimized at all times.

The DALI Pro 9047 is suited to complex applications in area and building floor management, daylight-dependent control and dynamic light management systems. Daylight-dependent lighting control is realized using the multi-sensors for presence, motion and daylight dependence, which switch the lighting on in the case of absence and keep it at the set level. The DALI Pro 9047 control unit can control four lines, each having 16 groups and 16 scenes. Each line can accommodate up to 64 DALI-compatible end units so that one controller can contact a total of up to 256 addresses. The input units are available as a variety of glass operating panels and an LCD touch panel. Its 5.7" TFT display shows 16 million colors and can be adapted to suit with regard to function and illustration. This allows you to save images and colors individually. A sophisticated replaceable external frame rounds off the attractive yet functional design of the input unit. Incorporation of customer-specific switches, push-buttons or sensors creates a push-button interface with four floating inputs. Con-

figuration and commissioning of the controller is particularly easy using Windows-based PC software. Plug & Play setting is preconfigured for immediate deployment without any commissioning requirement, for example on the building site.

## Functions

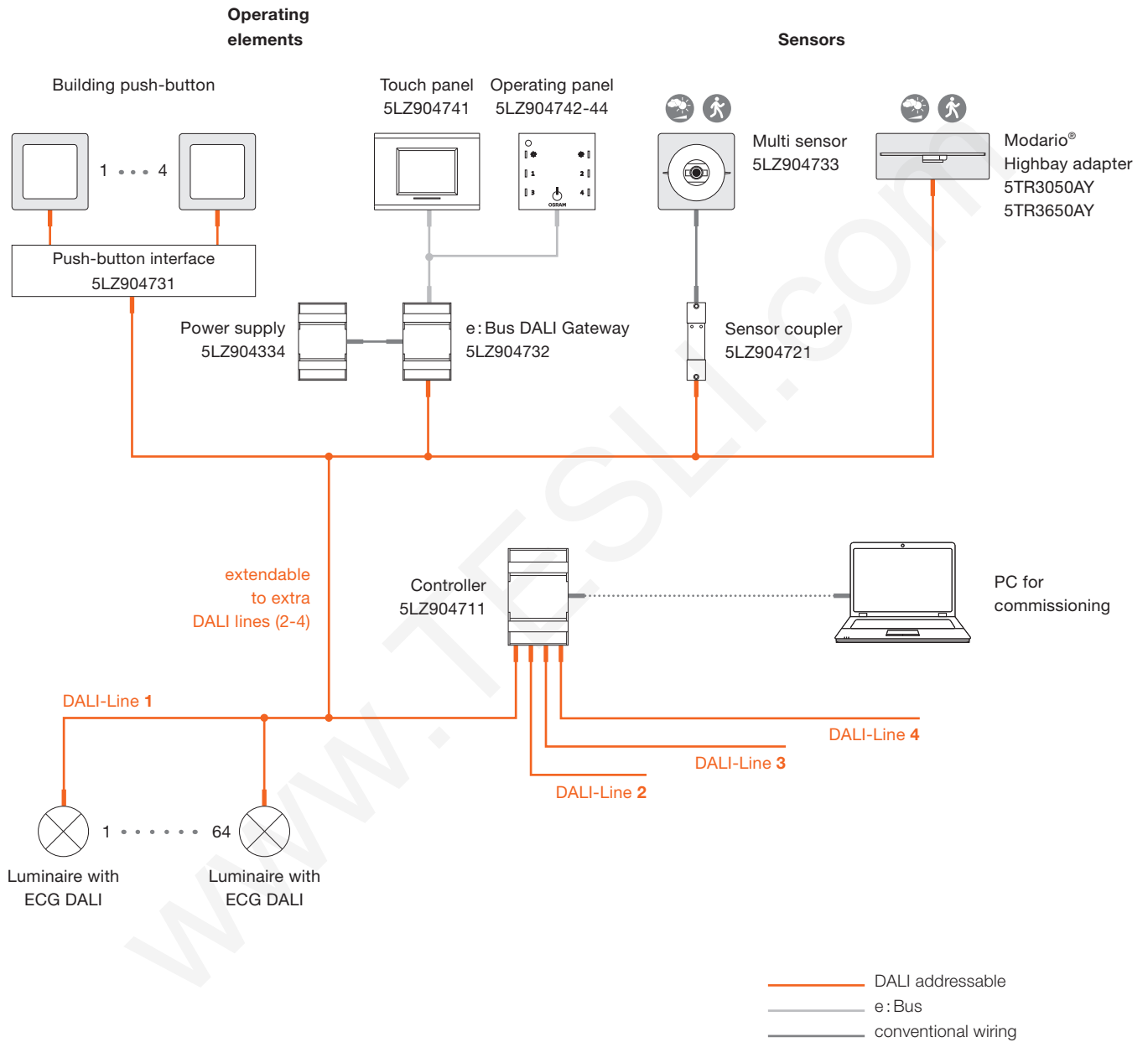
- presence and motion sensing
- daylight-dependent lighting control
- manual control of the lighting installation using a touch panel
- flexibility as a result of individual and group addressing

## Areas of application

Higher-level DALI control systems for:

- open-plan offices
- industrial halls
- sports halls (separating wall function)
- complex control tasks

# DALI Pro 9047

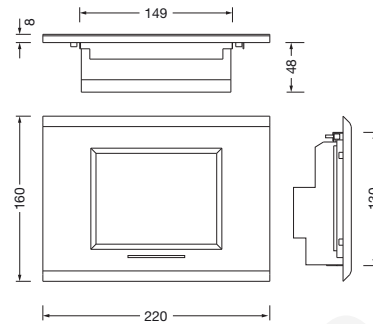


**Conventional wiring:**  
e.g. with screened line NYM5G 1.5mm<sup>2</sup>;  
maximum line length = 100m

**DALI wiring:**  
e.g. with screened line NYM5G 1.5mm<sup>2</sup>;  
maximum line length = 300m

**e: Bus wiring:**  
AWG 16, Twisted Pair





**DALI Pro 9047 – operating elements  
LCD touch panel**


LCD touch panel

- calling up ON/OFF/BRIGHTER/DIMMER functions and calling up scenes
- 5.7" high-resolution LCD touch screen, 16 million colors
- customer-specific, configurable user interface with Touch Panel Designer software\*
- design frame made from plastic, high-gloss black
- USB-A connection for incorporation of a configuration PC
- configuration of button assignment via software\*\*
- power supply via e:bus DALI Gateway
- power consumption e:bus: I = 300mA
- wiring e:bus: AWG 16 (1.3mm), Twisted Pair
- max. line length: 100m
- protection rating: IP20

\* Software "Touch Panel Designer" can be downloaded free of charge at [www.osram.com](http://www.osram.com)

\*\* Software "DALI Professional" can be downloaded free of charge at [www.osram.com](http://www.osram.com)



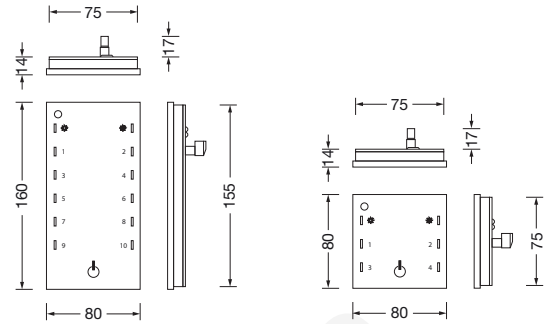
Designation		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
LCD touch panel	0.8	4050737059983	5LZ904741

- e:bus DALI Gateway please order separately
- please order recessed box separately

**Required accessories (for details see pages 13.8 and 13.19)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
e:bus DALI Gateway, DIN rail mounting in an electrical distribution	0.1	4050737059921	5LZ904732
Recessed box for hollow walls	0.1	4050737060002	5LZ904741HW
Recessed box for solid walls	0.1	4050737060026	5LZ904741MW

For details of electrical connection, see page **page 13.17 ff.**



**DALI Pro 9047 – operating elements**  
**Operating panel**

- |   |  |
|---|--|
| Operating panel   | — power supply via e:bus DALI Gateway        |
| — calling up ON/OFF/BRIGHTER/DIMMER functions and calling up scenes | — power consumption: e:bus: I = 18mA         |
| — configuration of button assignment via software*                  | — wiring e:bus: AWG 16 (1.3mm), Twisted Pair |
| — activation of operating elements via capacitive touch sensors     | — maximum line length: 100m                  |
| — display of functional state via LED                               | — installation in flush type box             |
| — operational touch pad made from satinized glass                   | — protection rating: IP20                    |

\* Software "DALI Professional" can be downloaded free of charge at [www.osram.com](http://www.osram.com)

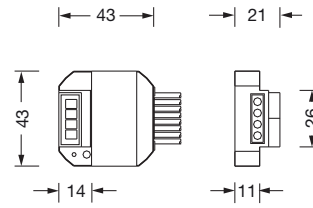


Designation	Version		Order no. OSRAM	Order no. Siteco
Operating panel	6 push-buttons	0.2	4050737060057	5LZ904742
Operating panel	12 push-buttons	0.2	4050737060064	5LZ904743
Operating panel	6 push-buttons + jog wheel	0.2	4050737060088	5LZ904744

**Required accessories (for details see pages 13.8 and 13.19)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
e:bus DALI Gateway, DIN rail mounting in an electrical distribution	0.1	4050737059921	5LZ904732

Details of electrical connection can be seen on **page 13.17 ff.**



### DALI Pro 9047 – operating elements Push-button interface


#### Push-button interface

- incorporation of customer-specific push-buttons and switches in the systems: DALI Pro 9047, Wago I/O and KNX\*
- functions of push-buttons and switches configured freely with software\*\*
- installation in flush type box
- plastic casing, gray
- protection rating: IP20
- DALI power consumption: I = 6mA

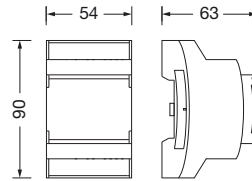
\* Incorporation of KNX DALI Gateway, "Siemens 5WG1141-1AB21" is possible

\*\* Software "DALI Professional" can be downloaded free of charge at [www.osram.com](http://www.osram.com)



Designation		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Push-button interface	0.1	4050737059907	5LZ904731

Details of electrical connection can be seen on  
**page 13.17 ff.**



**DALI Pro 9047 – operating elements**  
**e:bus DALI Gateway**

- e:bus DALI Gateway
- communication interface between e:bus and controller
  - power supply of operating panels and touch panels
  - e:bus supply: I = 800mA
  - wiring e:bus: AWG 16 (1.3mm), Twisted Pair
  - maximum line length: 100m
  - for installation in distribution box
  - plastic casing, gray
  - protection rating: IP20
  - insulation class: II
  - line voltage:  $U_N = 24VDC$



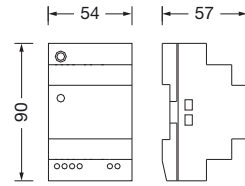
Designation	Part units		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
e:Bus DALI Gateway	3	0.1	4050737059921	5LZ904732

– please order power supply separately

**Required accessories (for details see page 13.9)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Power supply	0.2	4050737059853	5LZ904334

Details of electrical connection can be seen on page 13.17 ff.




**DALI Pro 9047 – operating elements**  
**Power supply**

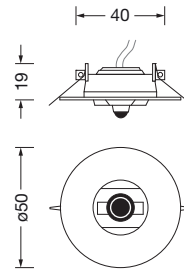
- Power supply
- for e:bus DALI Gateway
- for installation in distribution box
- plastic casing, black
- protection rating: IP20
- insulation class: II

- line voltage:  $U_N = 100 \dots 240 \text{VAC } 50 \text{Hz}$
- secondary voltage:  
 $U_S = 22.2 \dots 26.4 \text{VDC}$
- secondary current:  $I_{\text{sec}} = 1300 \text{mA}$



Designation	Part units		Order no. OSRAM	Order no. Siteco
Power supply	3	0.2	4050737059853	5LZ904334

Details of electrical connection can be seen on  
**page 13.17 ff.**



**DALI Pro 9047 – sensors**  
**Multi-sensor**

Multi-sensor: PIR sensor and light sensor

- sensor head can be inclined
- for installation in ceilings
- tool-free fixing with spring clips
- plastic casing, white
- protection rating: IP20
- insulation class: II
- mounting height:  $h = 2 \dots 4\text{m}$

Presence and motion:

- PIR sensor
- sensor range circular
- opening angle: = approx.  $80^\circ$
- motion detection:  $d = \text{approx. } 6.5\text{m}$

Light sensor:

- opening angle: = approx.  $90^\circ$
- minimum distance light sensor – window ledge:  $a = 0.7 \times (H_{\text{sensor}} - H_{\text{window ledge}})$



Designation		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Multi-sensor	0.1	4050737059945	5LZ904733

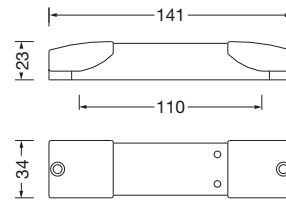
**Required accessories (for details see page 13.11)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Sensor coupler	0.1	4050737056005	5LZ904721

**Accessories (for details see page 13.19)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Surface-mounted casing	0.1	4050737059976	5LZ904733DAW

Details of electrical connection can be seen on page 13.17 ff.



**DALI Pro 9047 – sensors**  
**Sensor coupler**

- Sensor coupler
- as communication interface between multi-sensor and controller
  - incorporation in the systems: DALI Pro 9047, Wago I/O and KNX\*
  - supply of sensor coupler via DALI
  - for installing in ceiling
  - cable strain relief of sensor lines and DALI lines
  - plastic casing, white
  - protection rating: IP20
  - DALI power consumption: I = 5mA

\* Incorporation of KNX DALI Gateway, "Siemens 5WG1141-1AB21" is possible



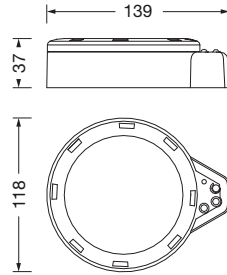
Designation		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Sensor coupler	0.1	4050737056005	5LZ904721

**Required accessories (for details see page 13.10)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Multi-sensor	0.1	4050737059945	5LZ904733

Details of electrical connection can be seen on **page 13.17 ff.**





**DALI Pro 9047 – sensors  
Highbay adapter**

Highbay adapter

- incorporation in the systems:  
DALI Pro 9047, Wago I/O and KNX\*
- motion sensor as accessory:  
VISION or highbay sensor for tool-free installation
- for ceiling surface mounting
- plastic casing, white
- protection rating: IP20
- insulation class: I

- line voltage:  $U_N = 120 \dots 277 \text{VAC}$  50/60Hz
- mounting height:  $h = 4 \dots 12 \text{m}$
- DALI power consumption:  $I = 7 \text{mA}$

Light sensor:

- opening angle: = approx.  $40^\circ$
- observe minimum distance from light sensor to window ledge
- potentiometer for setting the sensitivity

\* Incorporation of KNX DALI Gateway, "Siemens 5WG1141-1AB21" is possible

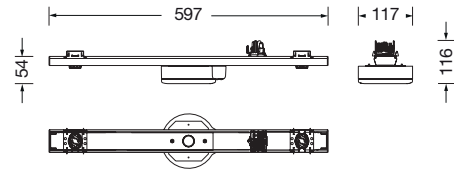


Designation		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Highbay adapter	1.0	4050737619767	5LZ904722

**Accessories (for details see page 13.83)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Sensor, VISION, mounting height max. 4.5m	1.0	4050737623948	5LZ904004
Sensor, Highbay, mounting height max. 10m	1.0	4050737619774	5LZ904005

Details of electrical connection can be seen on **page 13.17 ff.**



**DALI Pro 9047 – sensors  
Modario® IP20 Highbay adapter**

Highbay adapter for mounting to Modario® trunking rail

- for incorporation of a Modario® trunking system into the control systems
- DALI Pro 9047, Wago I/O and KNX\*
- with integrated light sensor
- motion sensor as accessory: VISION or highbay sensor for tool-free installation
- casing of sheet steel, pure white (similar to RAL 9010); twist lock catches with metal clips for rapid fixing to trunking rails
- can be positioned in module size 299mm
- sensor casing of plastic, white
- protection rating: IP20

- insulation class: I
- mounting height: h = 4...12m
- DALI power consumption: I = 7mA

Light sensor:

- opening angle: = approx. 40°
- observe minimum distance from light sensor to window ledge
- potentiometer for setting the sensitivity

\* Incorporation of KNX DALI Gateway, "Siemens 5WG1141-1AB21" is possible

System dimension: 1 system size: 1 system unit (1x SE) = 299mm

**Electrics**

Highbay adapter wired ready for connection, with 5-pole connection system suitable for 10-core wired trunking rail with 3-phase pre-selection via moving of contact pin prior to installation in rail

\*\* combination with emergency light inserts not permissible



Designation	System dimension	l (mm)	Mounting height		Order no. OSRAM	Order no. Siteco
Brilliant white						
Modario® Highbay adapter, mounting height 4...12m	2x SE	598	4...12m	0.9	4050737523316	5TR3050AY
White aluminum (RAL 9006)						
Modario® Highbay adapter, mounting height 4...12m	2x SE	598	4...12m	5.3	4050737619743	5TR3650AY

- please order controller separately
- suitable for 10-core wired Modario® trunking rail
- not suitable for combinations of Modario® sensor module with Modario® emergency light inserts

Details of electrical connection can be seen on page 13.17 ff.

**Required accessories (for details see page 13.16)**

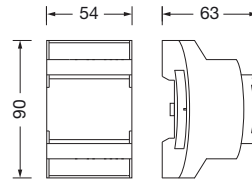
<b>Designation</b>	<b>Wt. (kg)</b>	<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
Controller, 9 TE	0.4	4050737056302	5LZ904711

**Accessories (for details see page 13.83)**

<b>Designation</b>	<b>Wt. (kg)</b>	<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
Sensor, VISION, mounting height max. 4.5m	1.0	4050737623948	5LZ904004
Sensor, Highbay, mounting height max. 10m	1.0	4050737619774	5LZ904005

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**DALI Pro 9047  
Relay unit**

Relay unit

- 3 floating relay contacts, individually programmable
- 3x relay contact:  $I_{max} = 6A$  (Ohm);
- no. of ECG units manufacturer/type-dependent
- plastic casing, gray
- for installation in distribution box
- protection rating: IP20
- insulation class: II
- DALI power consumption:  $I = 2mA$
- line voltage:  $U_N = 24VDC$



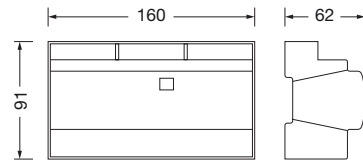
Designation	Part units	Version		Order no. OSRAM	Order no. Siteco
Relay unit	3	Distribution installation	0.2	4050737097718	5LZ904750

— please order power supply separately

**Required accessories (for details see page 13.9)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Power supply	0.2	4050737059853	5LZ904334

Details of electrical connection can be seen on **page 13.17 ff.**



**DALI Pro 9047  
Controller**

Controller for setting up a DALI light management system with up to 4 DALI lines\*

- parameterizing of groups, scenes and sequences with software\*\*
  - 4 relay contacts, floating  
I<sub>max</sub>= 5A/230V (Ohm); number of ECG units manufacturer/type-dependent
  - for installation in distribution box
- plastic casing, gray
  - protection rating: IP20
  - insulation class: I
  - line voltage: U<sub>N</sub>= 100...240VAC 50...60Hz

\* max. 200mA/64 DALI addresses per DALI line

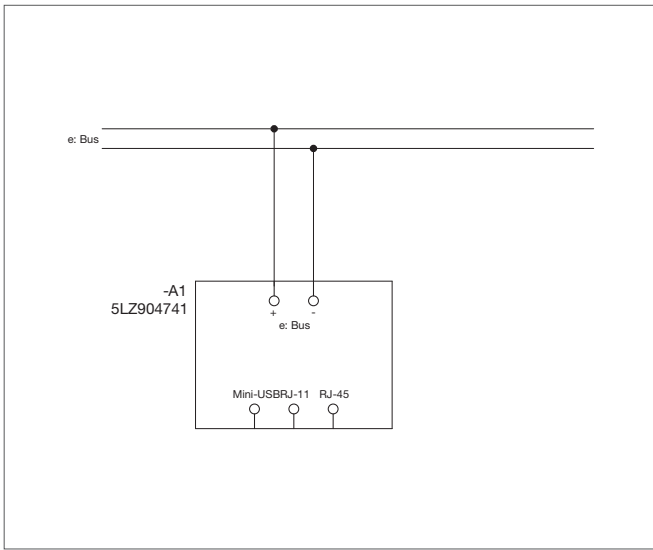
\*\*Software "DALI Professional" can be downloaded free of charge at [www.osram.com](http://www.osram.com)



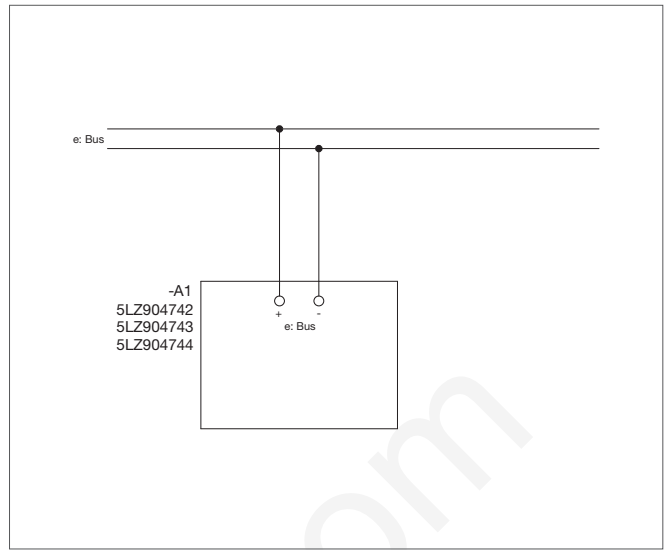
Designation	Part units		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Controller	9	0.4	4050737056302	5LZ904711

Details of electrical connection can be seen on page 13.17 ff.

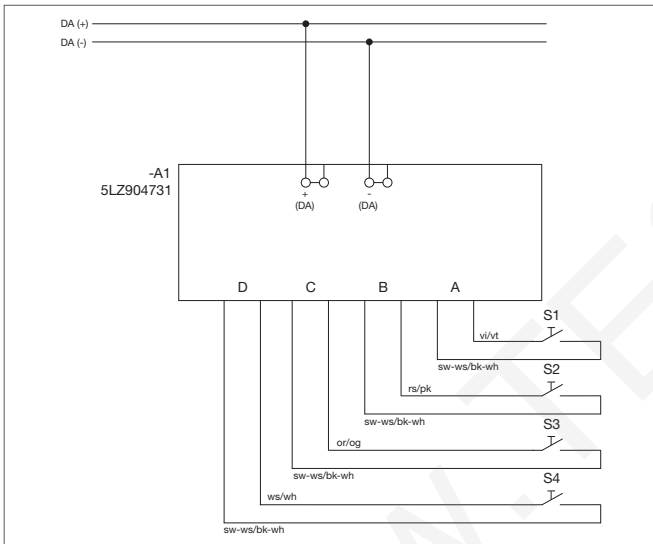
Operating elements – LCD touch panel



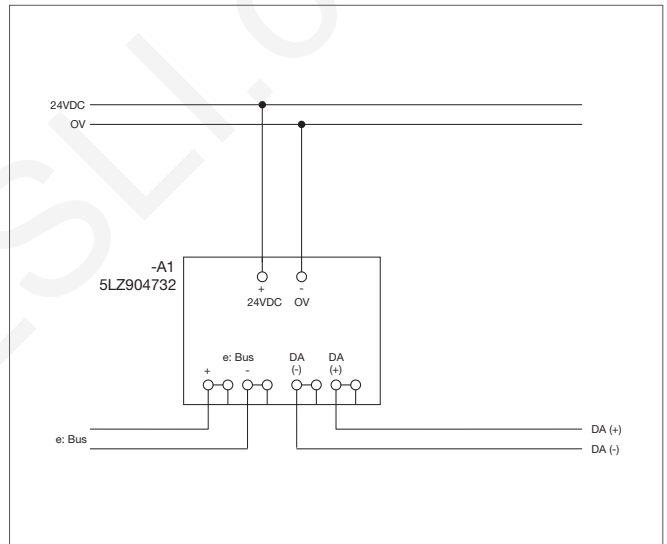
Operating elements – operating panel



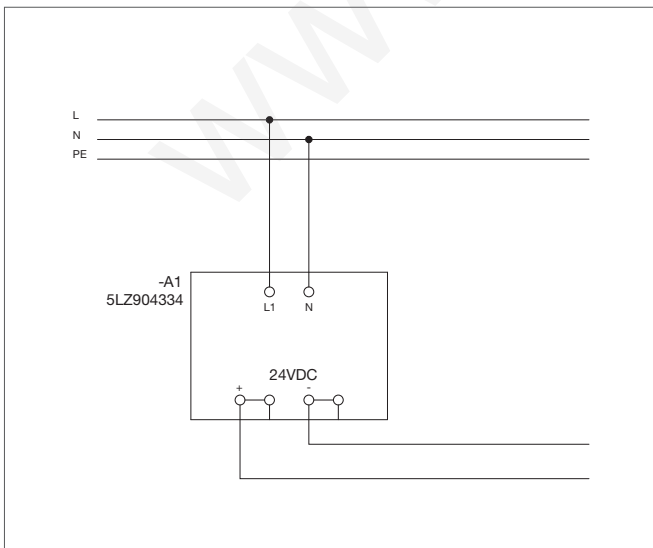
Operating elements – push-button interface



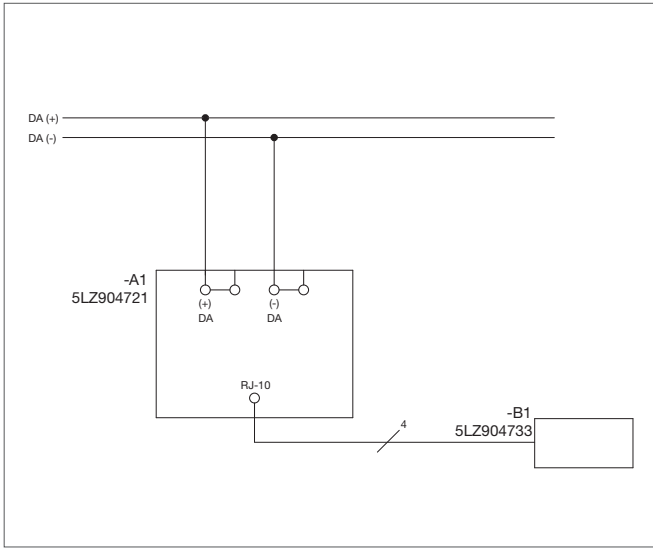
Operating elements – e:bus DALI Gateway



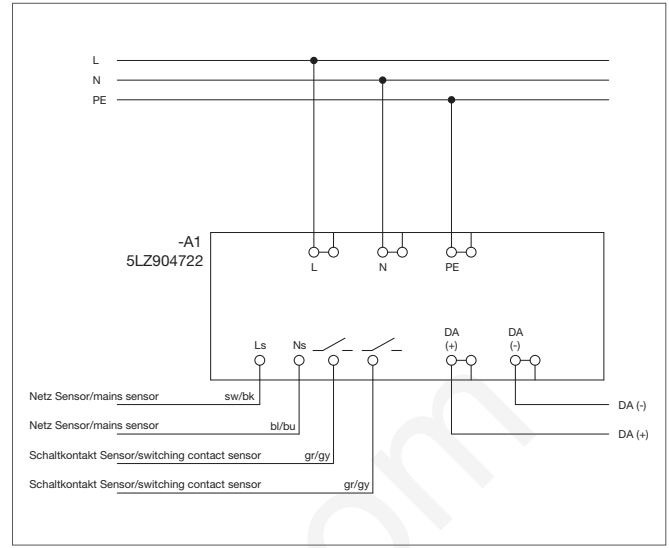
Operating elements – power supply



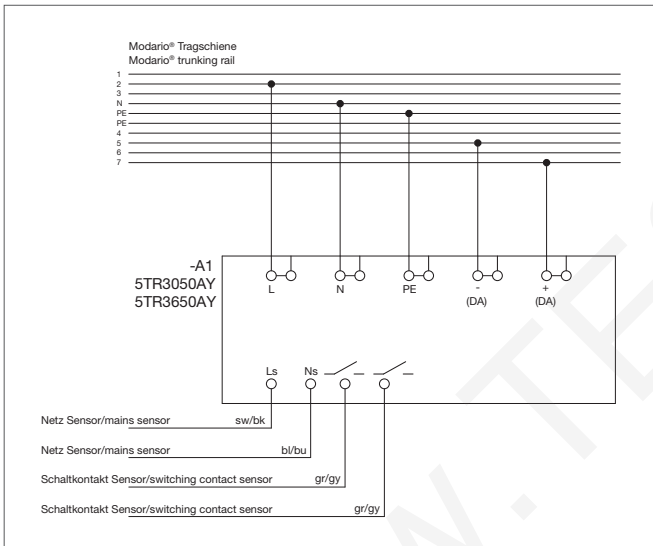
Sensors – multi-sensor and sensor coupler



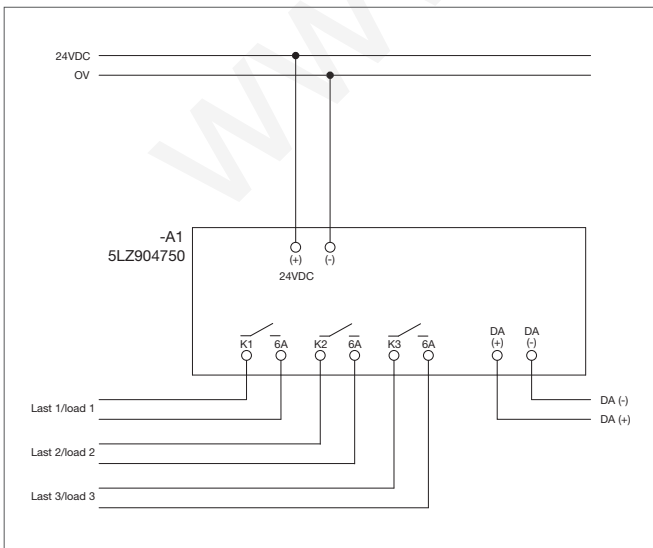
Sensors – highbay adapter



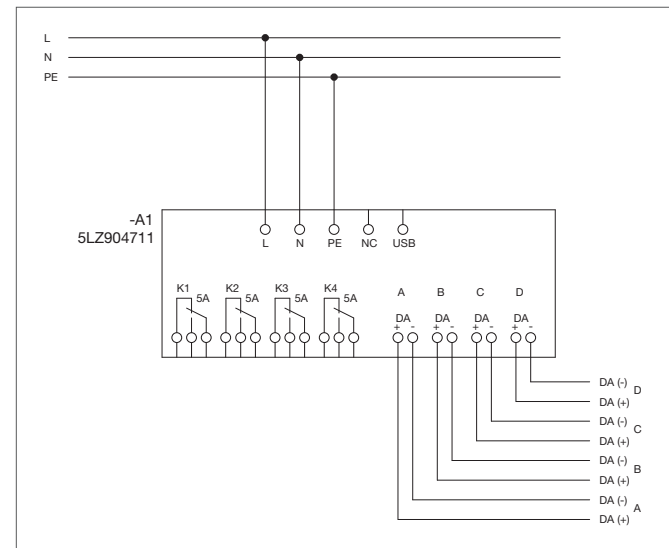
Sensors – Modario® IP20 highbay adapter



Relay unit

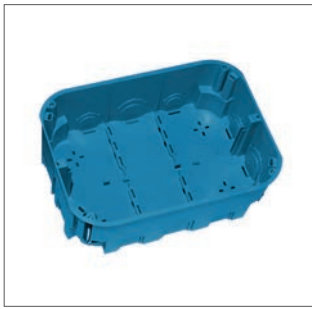


Controller





**Professional installation accessories**

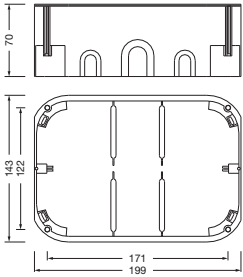


**Recessed box for hollow walls**

Recessed box | for LCD touch panel | installation in a cavity wall | fixing the recessed box in the building with clamping clips\* | pre-embossed line inlets | screw fixing for the LCD touch panel | casing made of blue plastic

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Recessed box for hollow walls	0.2	4050737060002	5LZ904741HW

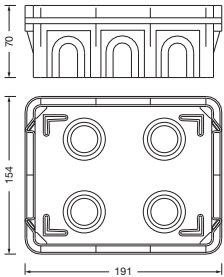
\* Thickness of dry wall > 10mm



**Recessed box for solid walls**

Recessed box | for LCD touch panel | installation in a solid wall | pre-embossed line inlets | screw fixing for the LCD touch panel | casing made of blue plastic

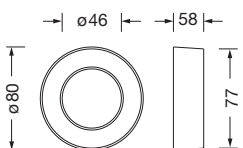
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Recessed box for solid walls	0.2	4050737060026	5LZ904741MW



**Surface-mounted casing**

Surface mounting box | for multi-sensor | pre-embossed line inlet | casing made of white plastic

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Surface-mounted casing	0.1	4050737059976	5LZ904733DAW





## DALI Multi 914 – basic version



### Brief description

DALI Multi 914 facilitates daylight-dependent lighting control indoors and reacts to the presence of persons in the detection range. It makes sure that, if there is presence, and considering the daylight level, the requirements concerning the lighting level are guaranteed at all times. It makes a considerable contribution to the energy-efficient operation of lighting installations.

DALI Multi 914 is designed as an island solution for independent lighting control and is suitable for recessed or surface mounting on the ceiling. The lighting level can be manually influenced using the remote control or the push-button.

This allows simple operation of lighting installations that are equipped with ECG DALI units.

### Functions

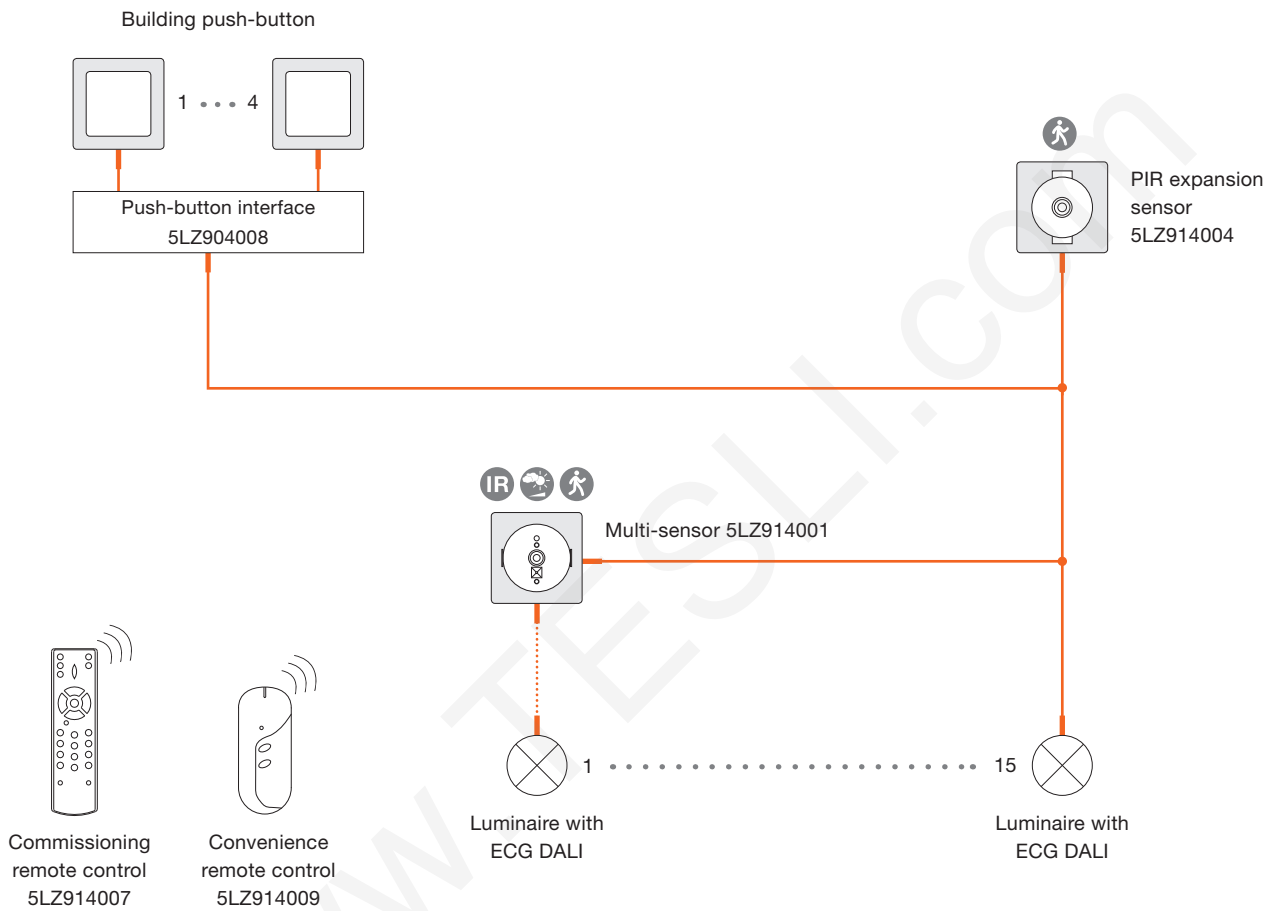
- presence and motion sensing
- daylight-dependent lighting control
- manual control of lighting installation

### Areas of application

DALI isolated solution for:

- individual offices
- open-plan offices
- conference rooms
- common rooms

# DALI Multi 914 – basic version

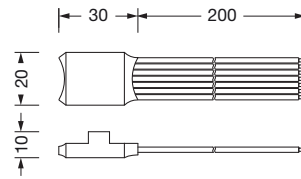


— Window line, DALI broadcast  
 ..... Corridor line, DALI broadcast

max. 15 luminaires distributed on window and corridor lines

## System size

Number of PIR expansion sensors	Number of ECG DALI units distributed on window and corridor lines
0	15
1	14
2	13



**DALI Multi 914 – basic version**  
**Push-button interface**

Push-button interface

- for connecting 4 customer-specific push-buttons
- allocation of push-buttons to lighting groups

- functions see “Multi-sensor basic version”
- DALI output
- for switch box installation
- protection rating: IP20



**Designation**

Push-button interface



0.1

**Order no.**

**OSRAM**

4050737018546

**Order no.**

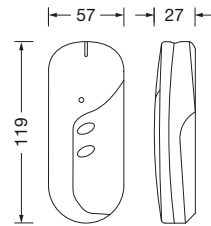
**Siteco**

5LZ914008

Details of electrical connection can be seen on **page 13.28**



IR



### DALI Multi 914 – basic version Convenient remote control

- Convenient remote control
- ON/OFF/BRIGHTER/DARKER
- setting of group addresses via selection switch
- plastic casing, white
- range: max. 5m
- including 2 LR03/AAA batteries



#### Designation



Order no.  
**OSRAM**

Order no.  
**Siteco**

Convenient remote control

0.1

4050737020426

5LZ914009

#### Accessories (for details see page 13.29)

#### Designation

Wt. (kg)

Order no.  
**OSRAM**

Order no.  
**Siteco**

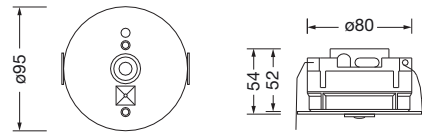
Wall bracket

0.1

4050737020433

5LZ914010





**DALI Multi 914 – basic version**  
**Multi-sensor**

Multi-sensor as part of basic equipment

- fully-automatic or semi-automatic operation, manual operation via customer's push-button or convenient remote control
- with PIR sensor, light sensor and IR receiver
- for 2 DALI lines (broadcast)
- output DALI1 and DALI2 with specified dimming difference (window – corridor)
- 10 modes with pre-set functional spectrum; can be configured via commissioning remote control
- plastic casing, white
- mounting height:  $H \leq 3.5\text{m}$
- for installation in ceilings
- protection rating: IP20
- insulation class: I
- line voltage:  $U_N = 100 \dots 240\text{VAC}$   
50...60Hz
- DALI outlet: max. 15 ECG DALI units

Presence and motion:

- PIR sensor
- detection area rectangular
- opening angle:  $= 82^\circ / = 100^\circ$
- presence detection: approx. 4 x 5m
- motion detection: approx. 6 x 8m

Light sensor:

- opening angle:  $= \text{approx. } 72^\circ$
- minimum distance light sensor – window ledge:  $a = 0.7 \times (H_{\text{sensor}} - H_{\text{window ledge}})$

Scope of functions:

- push-button S1: Window luminaires ON/OFF/dimming
- push-button S2: Window and corridor luminaires ON/OFF/dimming
- push-button S3: Corridor luminaires ON/OFF/dimming
- push-button S4: not used



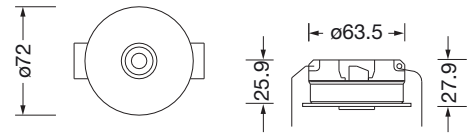
Designation	Version		Order no. OSRAM	Order no. Siteco
Multi-sensor	Basic version	0.1	4050737018478	5LZ914001

**Accessories (for details see pages 13.23, 13.24, 13.26, 13.27 and 13.29)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ceiling box, multi-sensor	0.1	4050737018492	5LZ914003
Convenient remote control	0.1	4050737020426	5LZ914009
Push-button interface	0.1	4050737018546	5LZ914008
PIR expansion sensor	0.1	4050737018508	5LZ914004
Commissioning remote control	0.1	4050737018539	5LZ914007

Details of electrical connection can be seen on **page 13.28**





### DALI Multi 914 – basic version PIR expansion sensor

PIR expansion sensor

- for expansion of the detection range
- plastic casing, white
- mounting height:  $H \leq 3.5\text{m}$
- for installation in ceilings
- protection rating: IP20

Presence and motion:

- PIR sensor
- detection area rectangular
- opening angle:  $= 82^\circ / = 100^\circ$
- presence detection: approx. 4 x 5m
- motion detection: approx. 6 x 8m



#### Designation

PIR expansion sensor



0.1

Order no.

**OSRAM**

4050737018508

Order no.

**Siteco**

5LZ914004

- Multi-sensor in basic version to be ordered separately

#### Required accessories (for details see Page 13.25)

##### Designation

Multi-sensor

Wt. (kg)

0.1

Order no.

**OSRAM**

4050737018478

Order no.

**Siteco**

5LZ914001

#### Accessories (for details see Page 13.29)

##### Designation

Ceiling box, PIR expansion sensor

Wt. (kg)

0.1

Order no.

**OSRAM**

4050737018515

Order no.

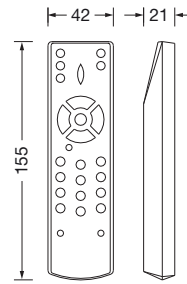
**Siteco**

5LZ914005

Details of electrical connection can be seen on  
**page 13.28**



IR



**DALI Multi 914 – basic version  
Commissioning remote control**

Commissioning remote control

- setting the basic and extended system functions: Lighting level, assignment of luminaires across four lighting groups, test function for PIR detection range, selection of pre-specified modes, behavior with mains voltage return, system resetting

- casing of plastic, graphite
- range: max. 5m
- including 2 LR03/AAA batteries



**Designation**



**Order no.  
OSRAM**

**Order no.  
Siteco**

Commissioning remote control

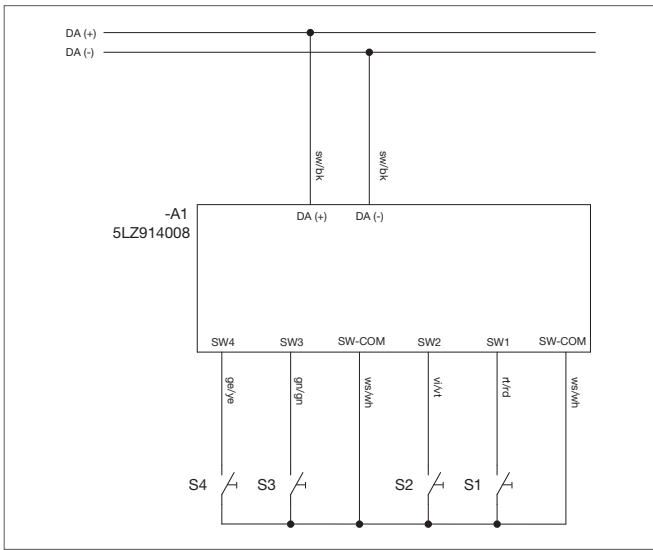
0.1

4050737018539

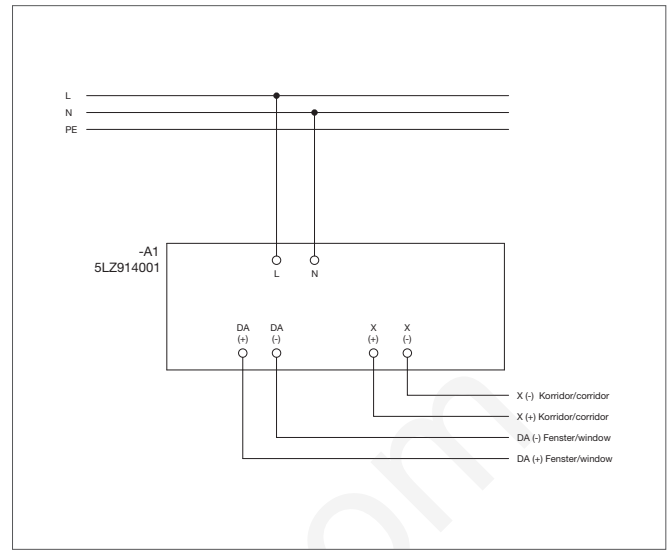
5LZ914007



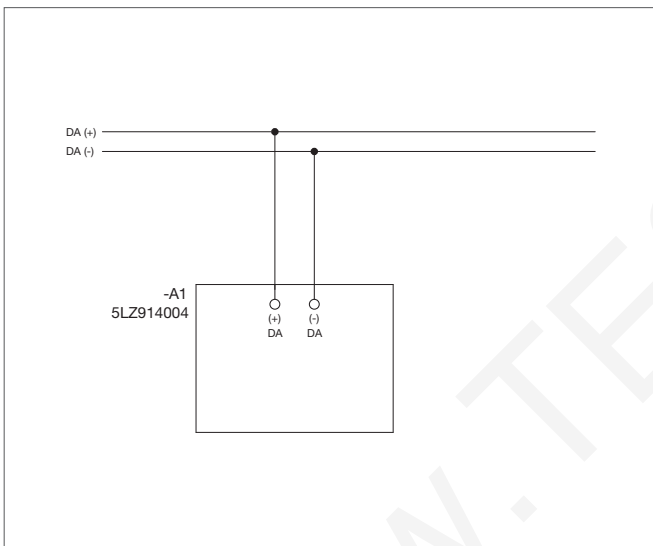
**Basic version – push-button interface**



**Basic version – multi-sensor**



**Basic version – PIR expansion sensor**



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**DALI Multi 914 – basic version – accessories**



**Surface-mounted ceiling box**

for mounting the multi-sensor and PIR expansion sensor on ceilings, casing made from plastic, white

Designation	Order no. OSRAM	Order no. Siteco
Ceiling box for multi-sensor basic version	4050737018492	5LZ914003
Ceiling box for PIR expansion sensor	4050737018515	5LZ914005



**Wall bracket**

for convenient remote control, casing made of plastic, white

Designation	Order no. OSRAM	Order no. Siteco
Wall bracket	4050737020433	5LZ914010

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# DALI Multi 914 – networkable version



## Brief description

DALI Multi 914 facilitates daylight-dependent lighting control indoors and reacts to the presence of persons in the detection range. It makes sure that, if there is presence, and considering the daylight level, the requirements concerning the lighting level are guaranteed at all times. It makes a considerable contribution to the energy-efficient operation of lighting installations.

DALI Multi 914 is designed as an island solution for independent lighting control and is suitable for recessed or surface mounting on the ceiling. The individual islands can be networked to be able to cover larger areas. The lighting level can be manually influenced using the remote control or the push-button. This allows simple operation of lighting installations that are equipped with ECG DALI units.

## Functions

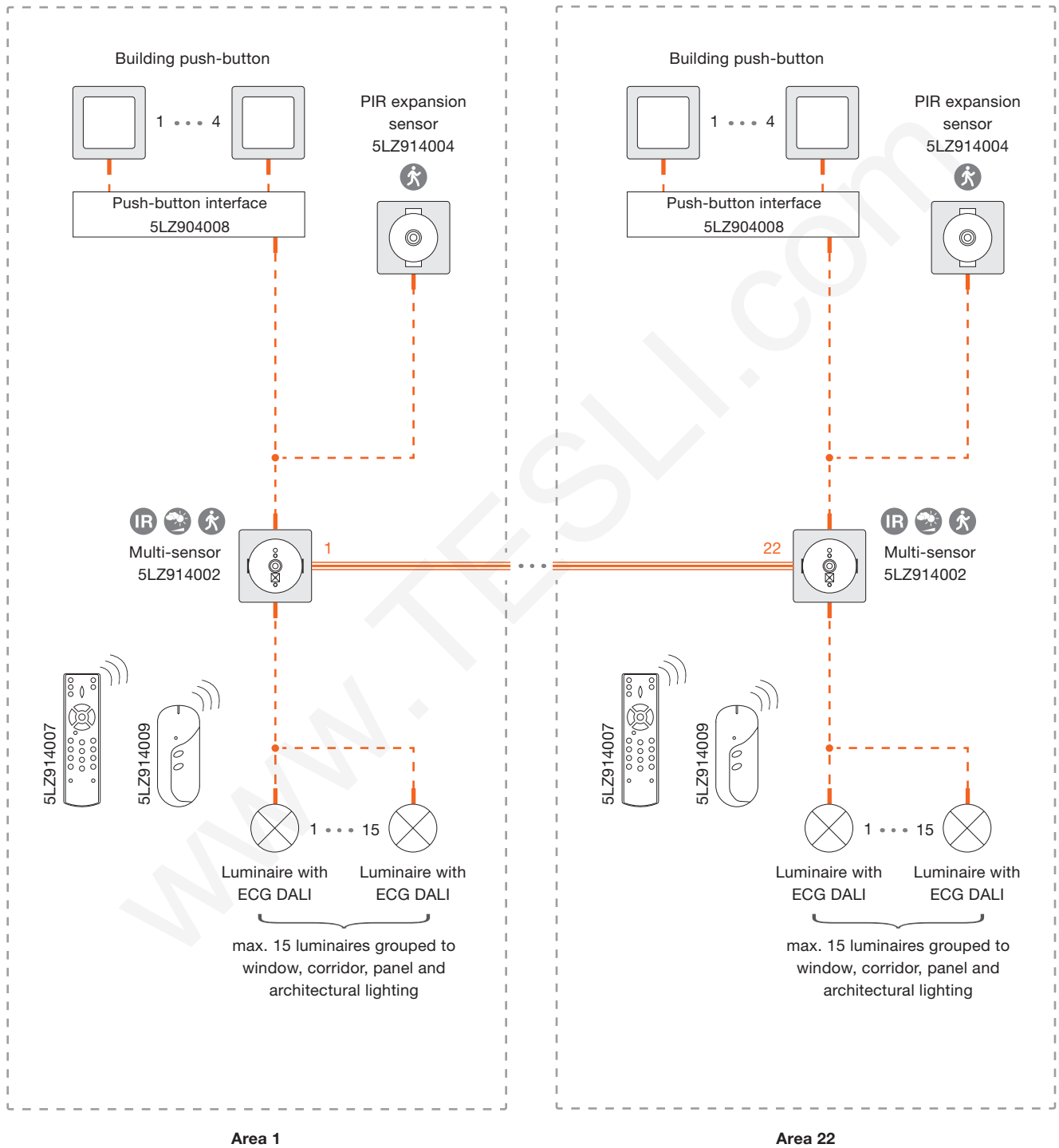
- presence and motion sensing
- daylight-dependent lighting control
- manual control of lighting installation
- classroom function

## Areas of application

DALI isolated solution for:

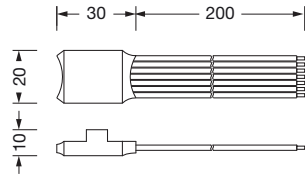
- open-plan offices
- classrooms
- corridors

# DALI Multi 914 – networkable version



- - - - - DALI addressable  
===== Networking line





**DALI Multi 914 – networkable version**  
**Push-button interface**

Push-button interface

- for connecting 4 customer-specific push-buttons
- allocation of push-buttons to lighting groups
- functions see “multi-sensor – networkable version”
- DALI output
- for switch box installation
- protection rating: IP20



**Designation**

Push-button interface



0.1

**Order no.**

**OSRAM**

4050737018546

**Order no.**

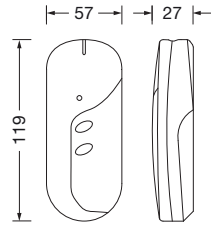
**Siteco**

5LZ914008

Details of electrical connection can be seen on **page 13.38**



IR



**DALI Multi 914 – basic version**  
**Convenient remote control**

- Convenient remote control
- ON/OFF/BRIGHTER/DARKER
- setting the group addresses

- plastic casing, white
- range: max. 5m
- including 2 LR03/AAA batteries



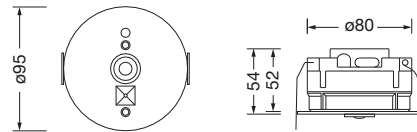
Designation		Order no. OSRAM	Order no. Siteco
Convenient remote control	0.1	4050737020426	5LZ914009

– please order wall bracket separately if required

**Accessories (for details see page 13.29)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Wall bracket	0.1	4050737020433	5LZ914010





**DALI Multi 914 – networkable version  
Multi-sensor**

Multi-sensor in networkable version

- fully-automatic or semi-automatic operation, manual operation via customer's push-button or convenient remote control
- with PIR sensor, light sensor and IR receiver
- for one DALI line (broadcast)
- expanded movement detection in the DALI line via PIR expansion sensors
- 10 modes with pre-set functional spectrum; can be configured via commissioning remote control
- plastic casing, white
- for installation in ceilings; ceiling surface mounting possible with supplementary surface-mounted casing
- mounting height:  $H \leq 3.5\text{m}$
- protection rating: IP20
- insulation class: I
- line voltage:  $U_N = 100 \dots 240\text{VAC}$   
50...60Hz
- DALI outlet: max. 15 ECG DALI units
- networking of max. 22 multi-sensors via communication input

Presence and motion:

- PIR sensor
- detection area rectangular
- opening angle:  $= 82^\circ / = 100^\circ$
- presence detection: approx. 4 x 5m
- motion detection: approx. 6 x 8m

Light sensor:

- opening angle:  $= \text{approx. } 72^\circ$
- minimum distance light sensor – window ledge:  $a = 0.7 \times (H_{\text{sensor}} - H_{\text{window ledge}})$

Scope of functions:

- push-button S1: Window luminaires ON/OFF/dimming
- push-button S2: Window, corridor and architectural luminaires ON/OFF/dimming, panel luminaires OFF
- push-button S3: Corridor luminaires ON/OFF/dimming
- push-button S4: Panel luminaires ON/OFF/dimming

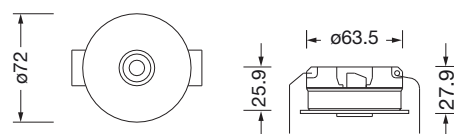


Designation	Version		Order no. OSRAM	Order no. Siteco
Multi-sensor	networkable version	0.1	4050737018485	5LZ914002

**Accessories (for details see pages 13.33, 13.34, 13.36 and 13.37)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ceiling box, multi-sensor	0.1	4050737018492	5LZ914003
Convenient remote control	0.1	4050737020426	5LZ914009
Push-button interface	0.1	4050737018546	5LZ914008
PIR expansion sensor	0.1	4050737018508	5LZ914004
Commissioning remote control	0.1	4050737018539	5LZ914007

Details of electrical connection can be seen on **page 13.38**



**DALI Multi 914 – networkable version**  
**PIR expansion sensor**

PIR expansion sensor

- for expansion of the PIR detection range
- plastic casing, white
- mounting height:  $H \leq 3.5\text{m}$
- for installation in ceilings
- protection rating: IP20
- insulation class: II

Presence and motion:

- PIR sensor
- detection area rectangular
- opening angle:  $= 82^\circ / = 100^\circ$
- presence detection: approx. 4 x 5m
- motion detection: approx. 6 x 8m



Designation		Order no. OSRAM	Order no. Siteco
PIR expansion sensor	0.1	4050737018508	5LZ914004

– multi-sensor in basic version to be ordered separately

**Required accessories (for details see page 13.25)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Multi-sensor	0.1	4050737018478	5LZ914001

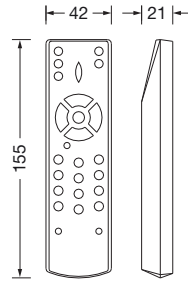
**Accessories (for details see page 13.29)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Ceiling box, PIR expansion sensor	0.1	4050737018515	5LZ914005

Details of electrical connection can be seen on **page 13.38**



IR



**DALI Multi 914 – networkable version  
Commissioning remote control**

Commissioning remote control

- Setting the basic and extended system functions: Lighting level, assignment of luminaires across four lighting groups, test function for PIR detection range, selection of pre-specified modes, behavior with mains voltage return, system resetting

- casing of plastic, graphite
- range: max. 5m
- including 2 LR03/AAA batteries



**Designation**



**Order no.  
OSRAM**

**Order no.  
Siteco**

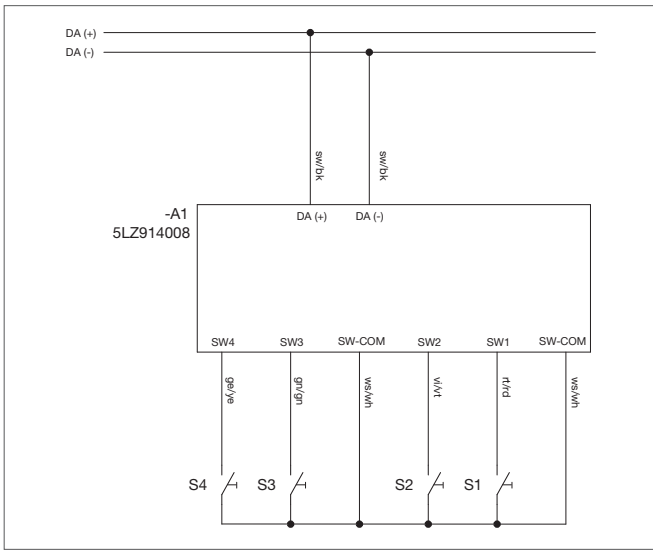
Commissioning remote control

0.1

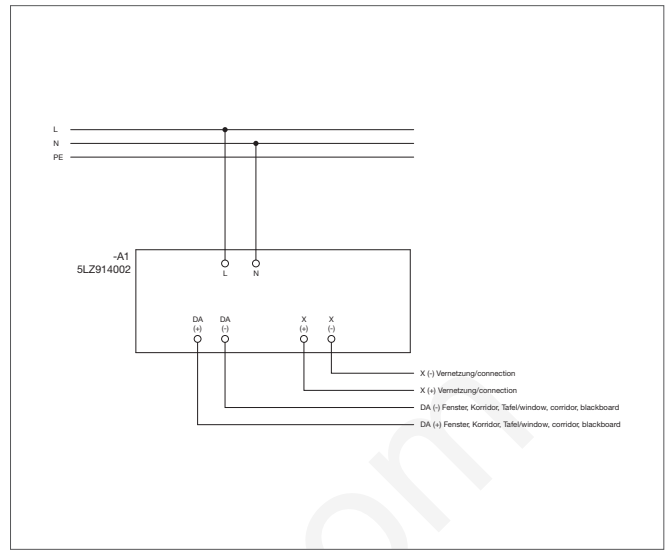
4050737018539

5LZ914007

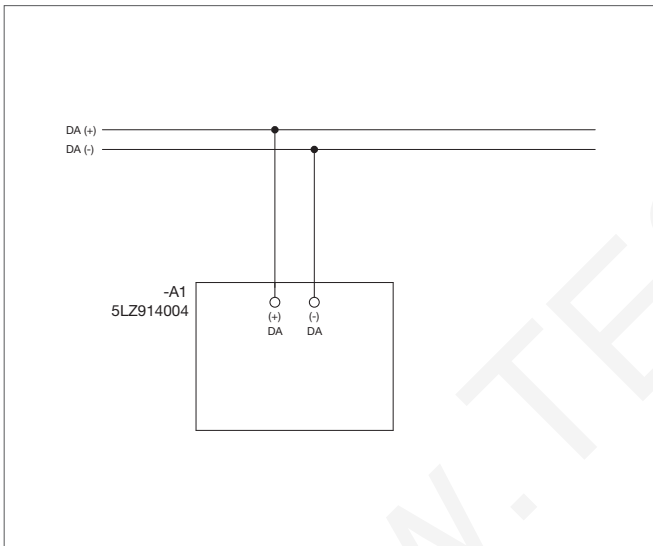
Networkable version – push-button interface



Networkable version – multi-sensor



Networkable version – PIR expansion sensor



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**DALI Multi 914 – networkable version – accessories**



**Surface-mounted ceiling box**

for mounting the multi-sensor and PIR expansion sensor on ceilings, casing made from plastic, white

Designation	Order no. OSRAM	Order no. Siteco
Ceiling box for multi-sensor basic version	4050737018492	5LZ914003
Ceiling box for PIR expansion sensor	4050737018515	5LZ914005



**Wall bracket**

for convenient remote control, casing made of plastic, white

Designation	Order no. OSRAM	Order no. Siteco
Wall bracket	4050737020433	5LZ914010

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# Basic Industry 913



## Brief description

Basic Industry 913 is a complete LMS modular system which can operate a wide range of applications using just a few components and simple commissioning. At the core is the controller which can be combined with various sensors and operating elements. In general, the Basic Industry modular system allows the standard control functions of motion detection and daylight-dependent lighting regulation for production halls and logistics areas. Basic Industry 913 can operate up to 100 ECG units in DALI Broadcast Addressing and is commissioned without PC programming.

## Functions

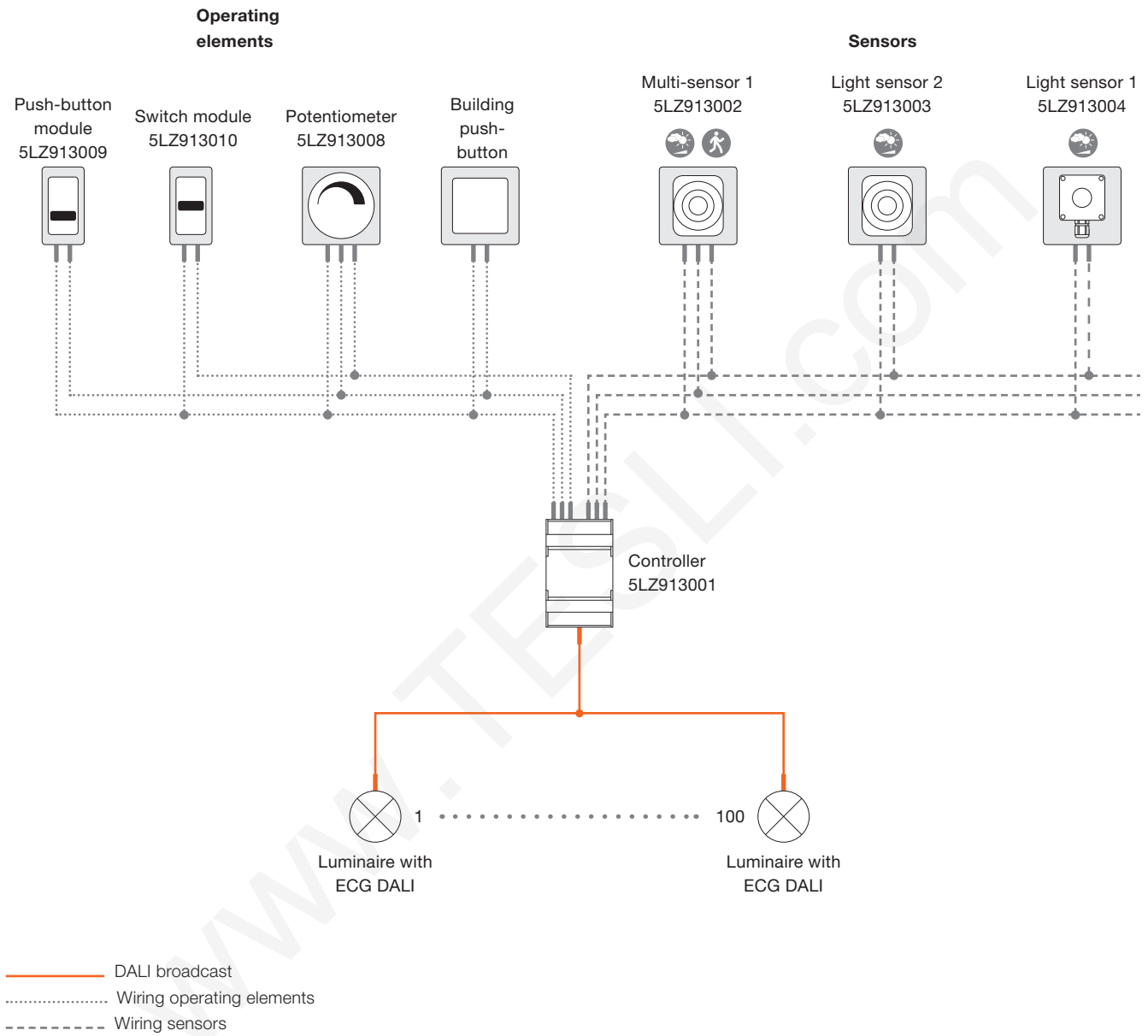
- presence and motion sensing
- daylight-dependent lighting control
- converter from 1....10V to DALI
- operation of DALI luminaires on PLC

## Areas of application

DALI isolated solution for:

- industrial halls
- logistics areas
- sports halls

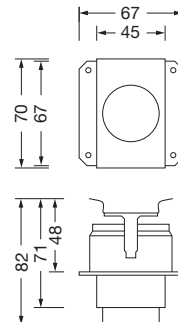
# Basic Industry 913



**DALI wiring:** e.g. with sheathed cable NYM5G 1.5mm<sup>2</sup>; maximum line length = 300m

**Sensor wiring:** max. 6 sensors; e.g. with sheathed cable NYM5G 1.5mm<sup>2</sup> or NYM7G 1.5mm<sup>2</sup>; total line length = 100m






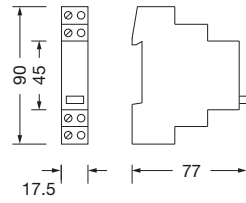
**Basic Industry 913 – operating elements**  
**Potentiometer**

- Potentiometer
- setting the nominal lighting intensity using a rotary knob
  - max. 1 potentiometer per controller can be connected
  - for DIN rail mounting
  - protection rating: IP20
  - total line length (operating elements controller):  
 l = max. 100m (with A = 1.5mm<sup>2</sup> Cu)



Designation	Part units		Order no. OSRAM	Order no. Siteco
Potentiometer	4	0.1	4050737468587	5LZ913008

Details of electrical connection can be seen on **page 13.51 ff.**



**Basic Industry 913 – operating elements**  
**Push-button module**

Push-button module

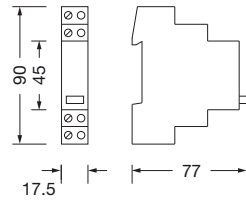
- for connection to the push-button inputs on the controller
- operation possible in 1 or 2 push-button mode\*
- for DIN rail mounting
- protection rating: IP20
- total line length (operating elements controller):  
 $l = \text{max. } 100\text{m (with } A = 1.5\text{mm}^2 \text{ Cu)}$

\* Details see "Controller"



Designation	Part units		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Push-button module	1.5	0.1	4050737468808	5LZ913009

Details of electrical connection can be seen on **page 13.51 ff.**



### Basic Industry 913 – operating elements Switch module

Switch module

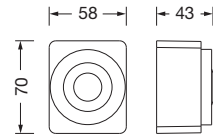
- for switching the lighting installation ON/OFF\*, for changing over between two regulated lighting scenes or for easy realization of the 100 hour burn-in function
- for DIN rail mounting
- protection rating: IP20
- total line length (operating elements controller):  
l = max. 100m (with A = 1.5mm<sup>2</sup> Cu)

\* Details see "Controller"



Designation	Part units		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Switch module	1.5	0.1	4050737468273	5LZ913010

Details of electrical connection can be seen on  
**page 13.51 ff.**



### Basic Industry 913 – sensors Multi-sensor type 1

#### Multi-sensor

- for daylight-dependent lighting regulation, integrated PIR motion sensors for motion-dependent control of the lighting installation
- plastic casing, white
- mounting height:  $h \leq 2.5\text{m}$
- for ceiling surface mounting
- protection rating: IP20
- total line length (sensors – controller):  
 $l = \text{max. } 100\text{m}$  (with  $A = 1.5\text{mm}^2 \text{ Cu}$ )

#### Motion:

- PIR sensor
- sensor range circular
- opening angle: = approx.  $90^\circ$
- motion detection:  $d = \text{approx. } 5\text{m}$

#### Light sensor:

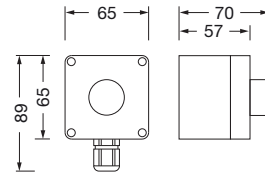
- opening angle: = approx.  $100^\circ$
- observe minimum distance from light sensor to window ledge



Designation	Version		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Multi-sensor	Type 1	0.1	4050737468662	5LZ913002

Details of electrical connection can be seen on  
**page 13.51 ff.**





**Basic Industry 913 – sensors**  
**Light sensor type 2**

Light sensor


- for daylight-dependent lighting control
- plastic casing, gray
- mounting height: H = 2.5...10m
- for ceiling surface mounting
- protection rating: IP20
- total line length (sensors – controller):  
 l = max. 100m (with A = 1.5mm<sup>2</sup> Cu)

Light sensor:

- opening angle: = approx. 90°
- observe minimum distance from  
 light sensor to window ledge

\*5...10m only permissible with anti-glare tube 2

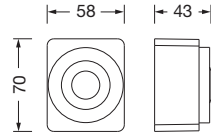


Designation	Version		Order no. OSRAM	Order no. Siteco
Light sensor	Type 2	0.2	4050737468549	5LZ913004

**Accessories (for details see page 13.53)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare tube type 2	0.1	4050737468624	5LZ913TB2

Details of electrical connection can be seen on  
**page 13.51 ff.**



**Basic Industry 913 – sensors**  
**Light sensor type 1**

Light sensor

- for daylight-dependent lighting control
- plastic casing, white
- mounting height: H = 2.5...6.5m
- for ceiling surface mounting
- protection rating: IP20
- total line length (sensors – controller):  
 l = max. 100m (with A = 1.5mm<sup>2</sup> Cu)

Light sensor:

- opening angle: = approx. 100°
- observe minimum distance from  
 light sensor to window ledge

\*3.5...6.5m only permissible with anti-glare tube 1

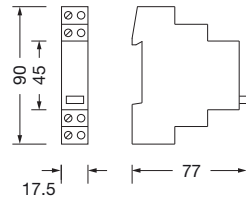
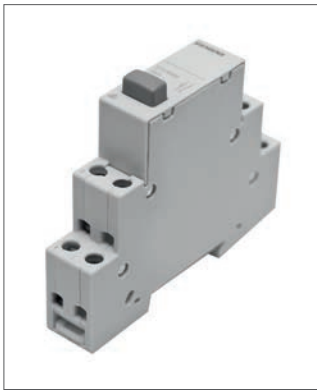


Designation	Version		Order no. OSRAM	Order no. Siteco
Light sensor	Type 1	0.1	4050737468525	5LZ913003

**Accessories (for details see page 13.53)**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Anti-glare tube type 1	0.1	4050737468600	5LZ913TB1

Details of electrical connection can be seen on **page 13.51 ff.**




**Basic Industry 913**  
**Relay unit**

Relay unit

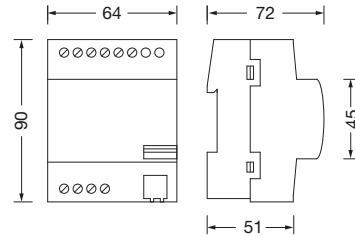
- for incorporation of customer-specific switch or sensors into the controller
- for switching the smallest of voltages and currents

- plastic casing, gray
- for installation in distribution box
- protection rating: IP20
- line voltage:  
 $U_N = 24 \dots 240 \text{VAC } 48 \dots 63 \text{Hz/DC}$



Designation	Part units		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Relay unit	1.5	0.2	4050737623955	5LZ913011

Details of electrical connection can be seen on **page 13.51 ff.**



**Basic Industry 913 Controller**

**Controller**

- for the control of a maximum of 100 DALI luminaires
- DALI broadcast addressing
- integrated DALI power supply
- connection of 2 building operation push-buttons and/or one potentiometer for commissioning and operation of the controller
- connection of max. 6 sensors
- for installation in distribution box
- plastic casing, gray
- protection rating: IP20
- insulation class: II
- total line length:  $l = \text{max. } 300\text{m}$  (with  $A = 1.5\text{mm}^2 \text{ Cu}$ )
- line voltage:  $U_N = 110 \dots 240\text{VAC}$  50...60Hz

**Scope of functions:**

- selector switch Item1: Implementation 0/1...10V on DALI; ON/OFF with building switch
- selector switch Item2: Implementation 0/1...10V on DALI; ON/OFF with control voltage
- selector switch Item3: ON/OFF/dimming/ set value stipulation with 1 building push-button
- selector switch Item4: ON/OFF/dimming/ set value stipulation with 2 building push-buttons
- second selector switch: Setting the motion sensor delay period (1–32min)



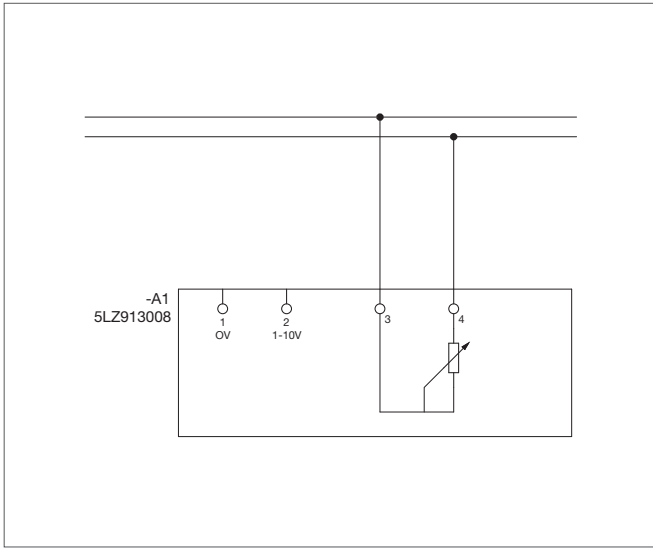
Designation	Part units		Order no. OSRAM	Order no. Siteco
Controller	4	0.2	4050737468686	5LZ913001

**Mandatory accessories (for details see pages 13.46, 13.48, 13.47, 13.43, 13.44, 13.45, 13.49)**

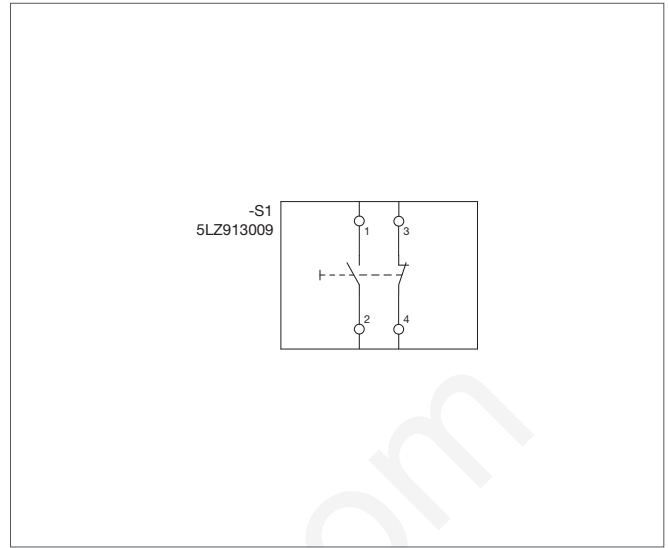
Designation	Part units	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Multi-sensor 1		0.1	4050737468662	5LZ913002
Light sensor 1		0.1	4050737468525	5LZ913003
Light sensor 2		0.1	4050737468549	5LZ913004
Potentiometer	4	0.1	4050737468587	5LZ913008
Push-button module	1.5	0.1	4050737468808	5LZ913009
Switch module	1.5	0.1	4050737468273	5LZ913010
Relay unit	1.5	0.1	4050737623955	5LZ913011

Details of electrical connection can be seen on page 13.51 ff.

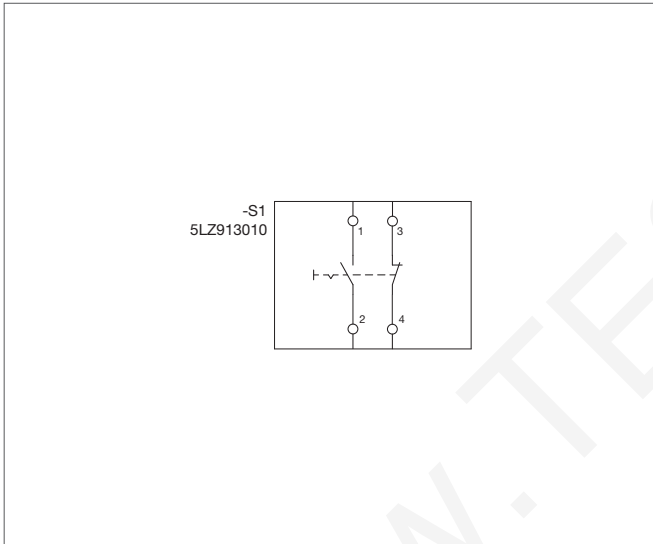
Operating elements – potentiometer



Operating elements – push-button module



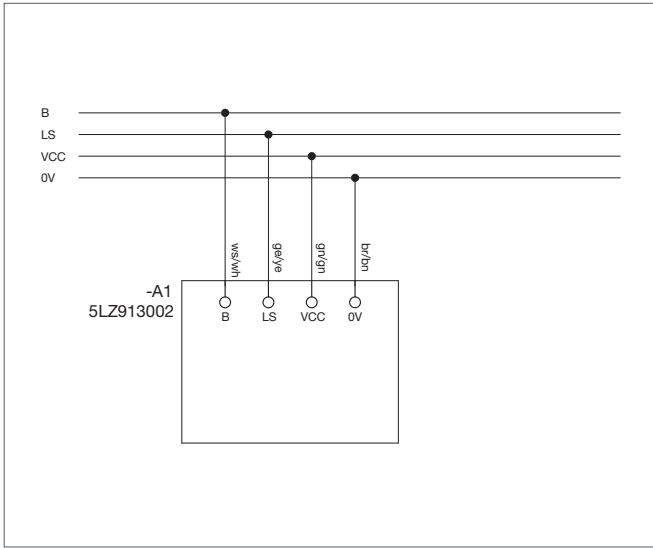
Operating elements – switch module



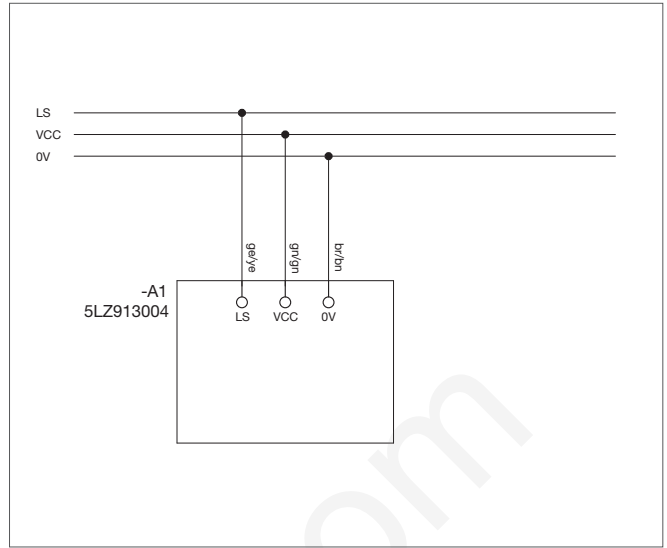
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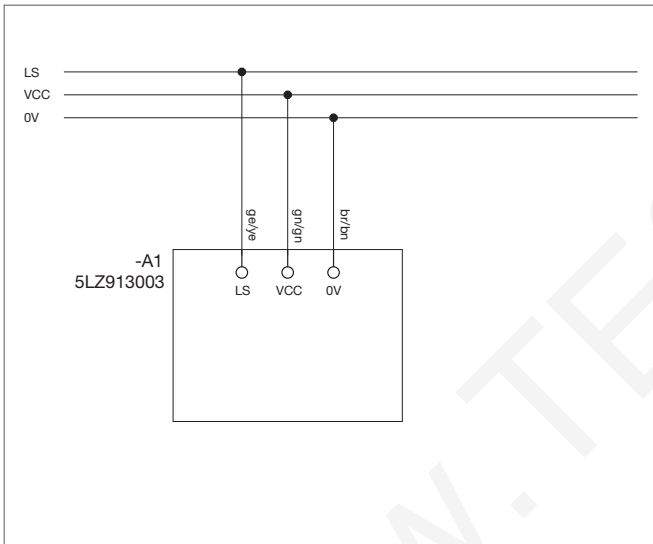
Sensors – multi-sensor type 1



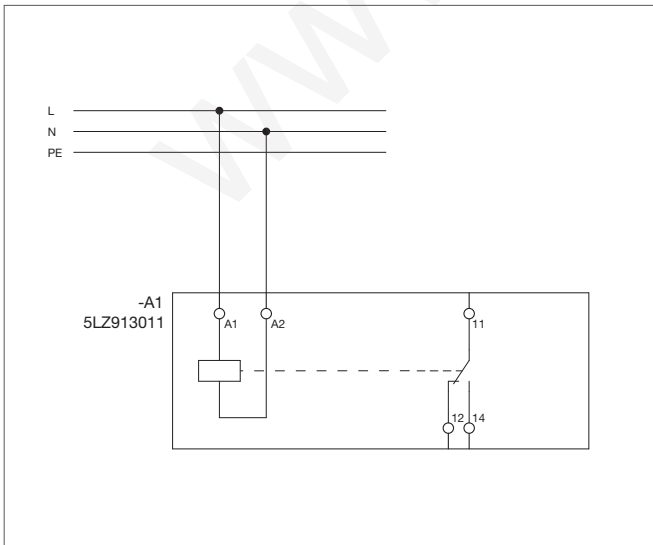
Sensors – light sensor type 2



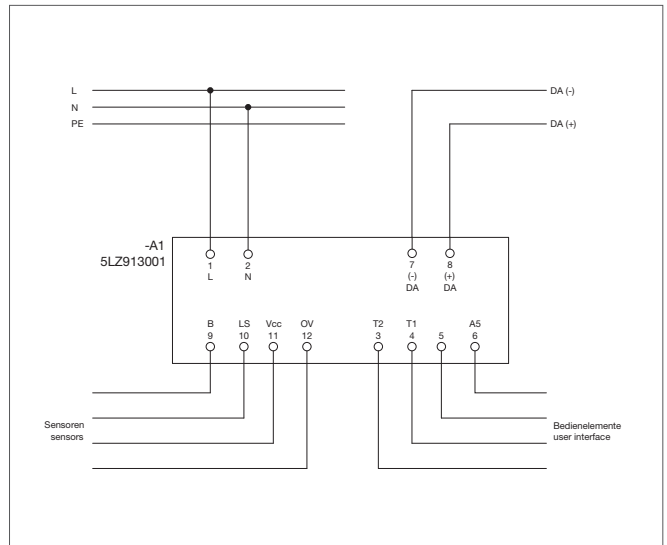
Sensors – light sensor type 1



Relay unit



Controller



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### Basic Industry 913 – accessories

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#### Anti-glare tube

for fitting to the light sensor head

Designation	Order no. OSRAM	Order no. Siteco
Anti-glare tube for light sensor 1	4050737468600	5LZ913TB1
Anti-glare tube for light sensor 2	4050737468624	5LZ913TB2

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# Components DALI – rotary dimmer



## Brief description

Rotary dimmers enable the setting and saving of customer-specific lighting scenes for indoor areas. The rotary dimmer is designed for independent lighting control and can be installed in a flush type box. This allows simple operation of all luminaires that are equipped with ECG DALI.

## Functions

- manual operation of luminaires with ECG DALI

## Areas of application

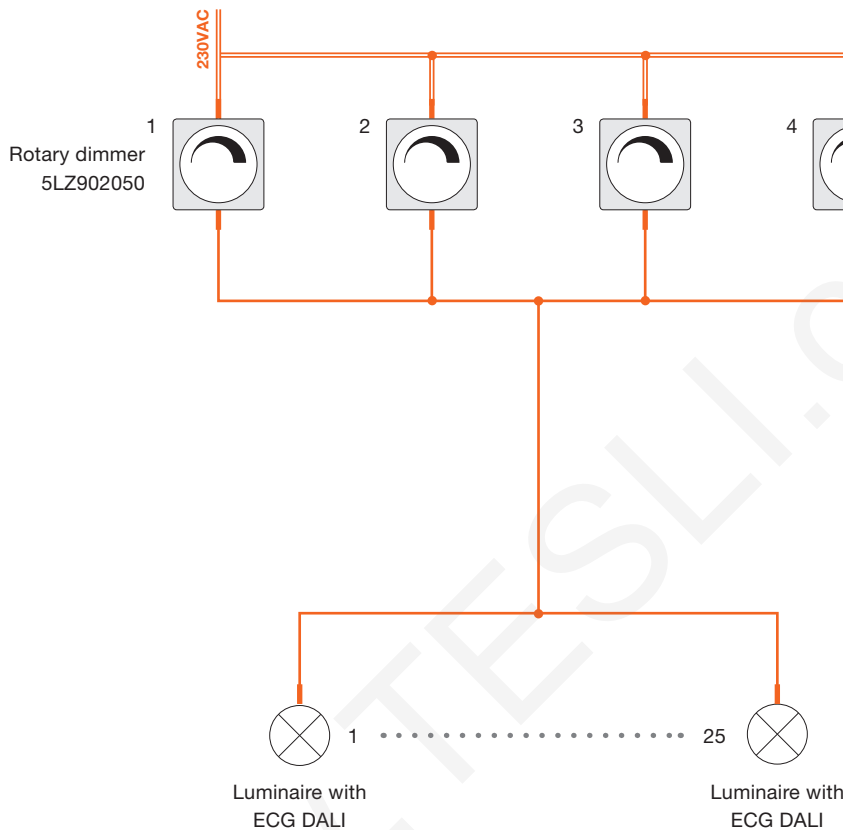
DALI isolated solution for:



- conference rooms
- industrial halls
- gymnastics halls





# Components DALI – rotary dimmer with active switching type



 Mains voltage 230VAC  
 DALI broadcast

**DALI wiring:**

e.g. with screened line NYM5G 1.5mm<sup>2</sup>;  
total line length = 300m

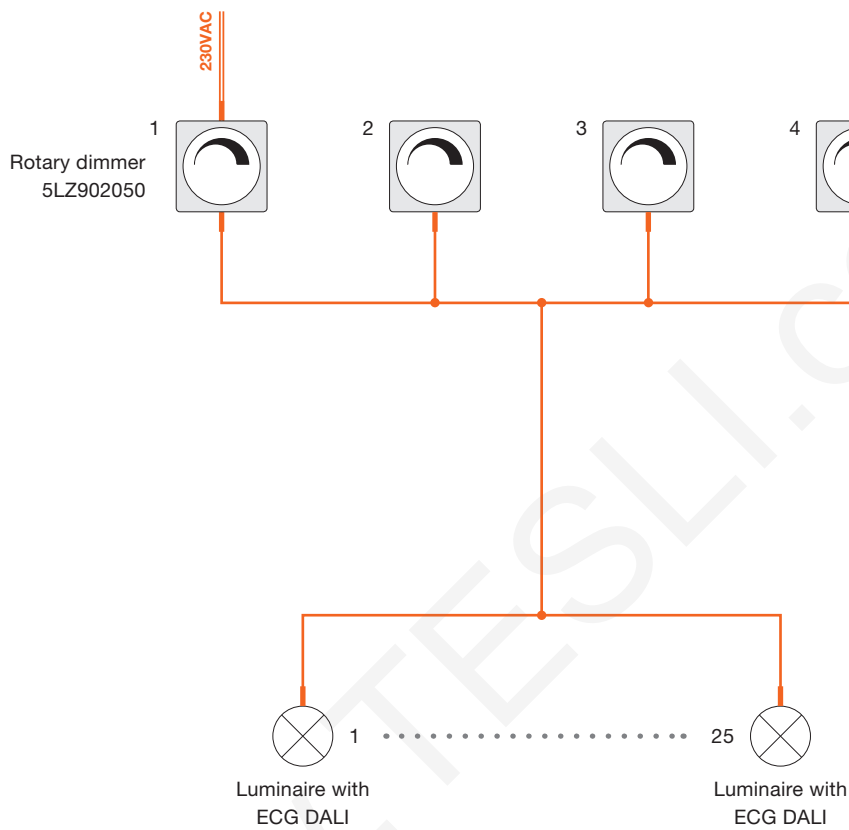
**Operation with rotary dimmer(s):**


- ON/OFF with short press
- BRIGHTER/DARKER by turning
- SAVE SCENE by double press

**System size**

Active rotary dimmer	Max. number of ECG DALI units
1	25
2	50
3	75
4	100

# Components DALI – rotary dimmer with passive switching type



 Mains voltage 230VAC  
 DALI broadcast

## DALI wiring:

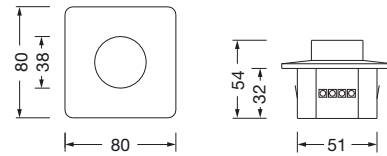
e.g. with screened line NYM5G 1.5mm<sup>2</sup>;  
total line length = 300m

## Operation with rotary dimmer(s):

ON/OFF with short press  
BRIGHTER/DARK by turning  
SAVE SCENE by double press

## System size

Number of rotary dimmers (mains supply)	Number of rotary dimmers (DALI supply)	Max. number of ECG DALI units
1	0	25
1	1	24
1	2	23
1	3	22
1	4	21



### Rotary dimmer

#### Rotary dimmer

- can be used as active or passive rotary dimmer
- for installing in recessed boxes\*
- incl. rotary button and frame of white plastic
- protection rating: IP20
- insulation class: II
- line voltage:  $U_N = 230VAC$  50...60Hz

#### Switching method as passive rotary dimmer:

- per island there are max. 4 rotary dimmers possible: a rotary dimmer as active rotary dimmer with mains connection; max. three additional as passive rotary dimmers supplied via DALI

• compatible with switch ranges of various manufacturers, e.g.  
 Berker, program: Q1 | K1 | S.1 | B.1 | Arsys  
 Gira, program: System 55 | S-Color | Area  
 Siemens, program: Delta Profil | Delta Style | Delta i-System | Delta Vita

- active rotary dimmer for supply of max. 25 DALI participants (luminaires or passive rotary dimmers)
- common control of these luminaires via each rotary dimmer

#### Switching method as active rotary dimmer:

- max. of 4 rotary dimmers are possible per island: each rotary dimmer with mains connection
- each rotary dimmer supplies a maximum of 25 DALI luminaires
- common control of these luminaires via each rotary dimmer

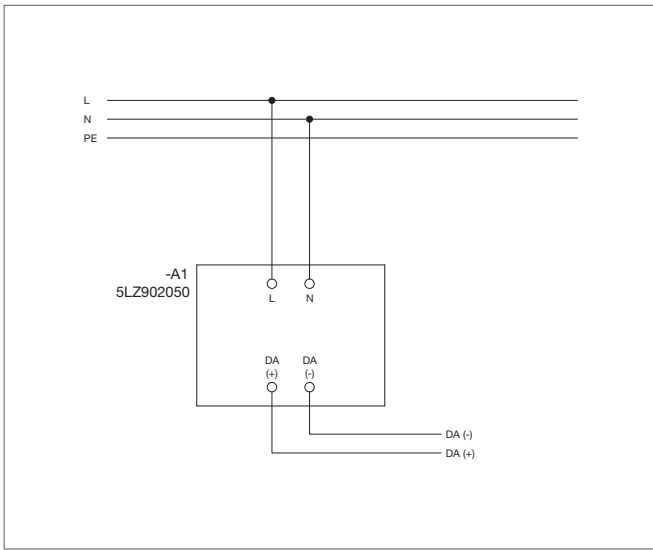


Designation		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Rotary dimmer	0.1	4050737018423	5LZ902050



Details of electrical connection can be seen on **page 13.60**

### Rotary dimmer



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# Components DALI – repeater



## Brief description

The repeater can be used either in the Touch DIM mode as an island solution for independent lighting control or for incorporation in a higher-level control system. Depending on the version, it can be installed in a luminaire, in the intermediate ceiling or in a distributor. This means that all luminaires can be operated with ECG DALI units.

## Functions

- simple dimming of lighting installations using building's push-buttons (Touch DIM mode)
- Increasing the number of luminaires on a higher-level DALI control system

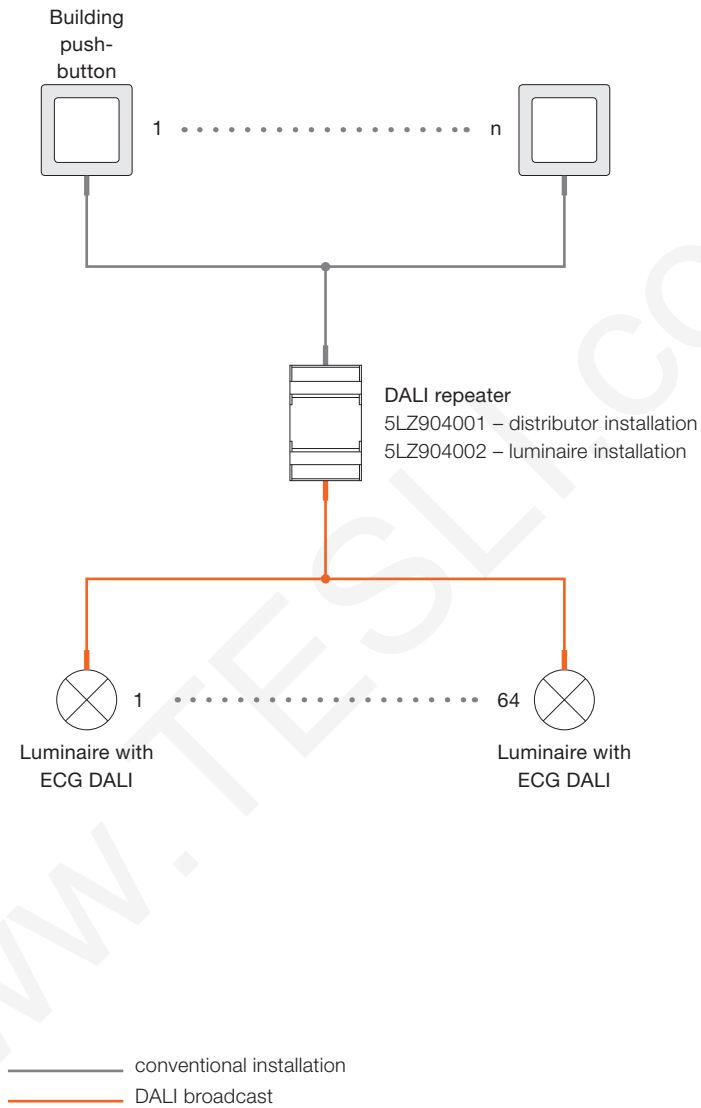
## Areas of application

DALI isolated solution for:

- industrial halls
- workshops
- conference rooms



# Components DALI – repeater in Touch DIM mode



**Conventional wiring:**

e.g. with screened line NYM5G 1.5mm<sup>2</sup>;  
 maximum line length = 100m

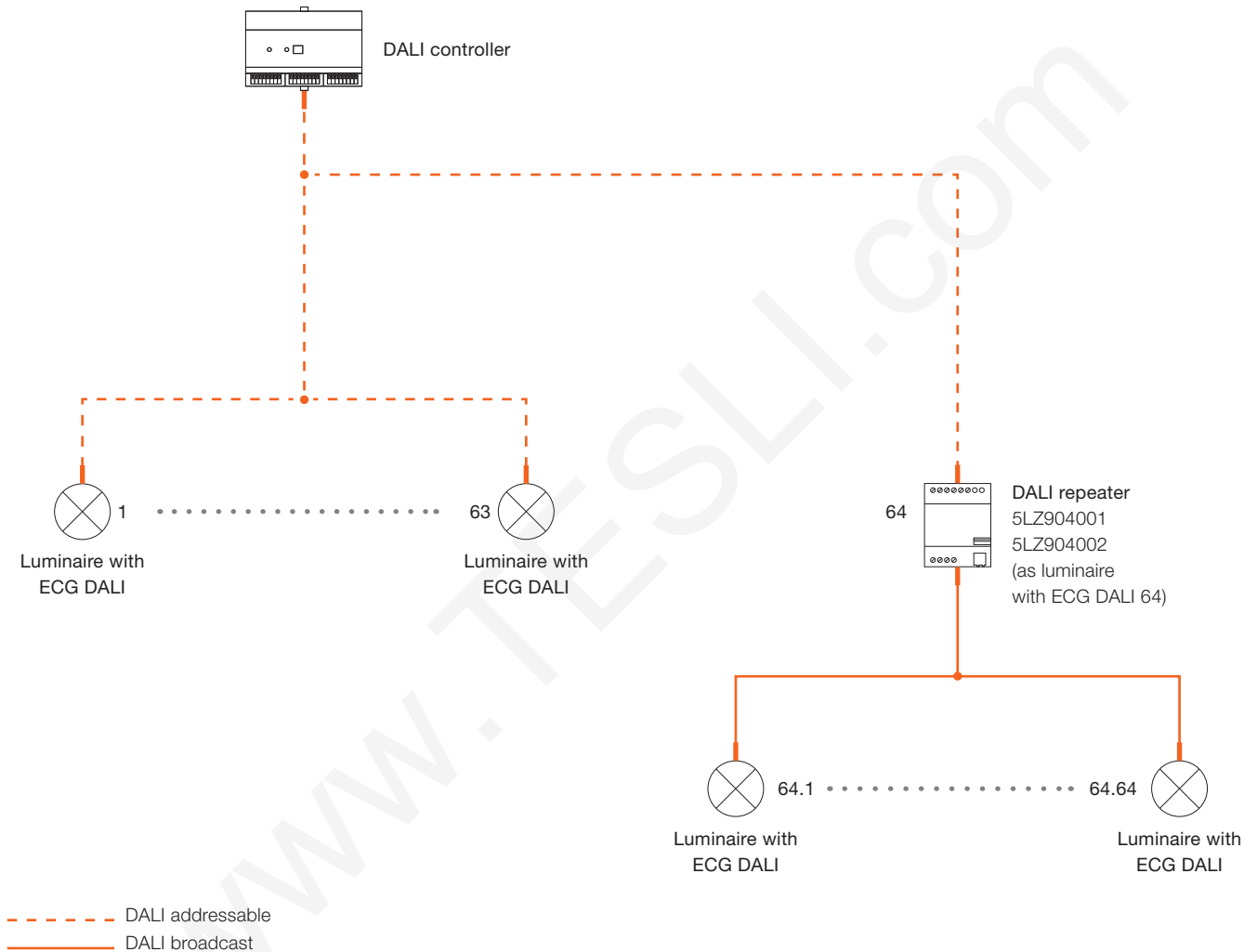
**DALI wiring:**

e.g. with screened line NYM5G 1.5mm<sup>2</sup>;  
 total line length = 300m with A = 1.5mm<sup>2</sup>

**Operation with push-button(s):**

- ON/OFF with short press
- BRIGHTER/DARKER with long press
- SAVE SCENE by double press

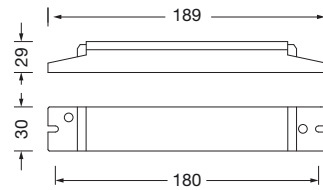
# Components DALI – repeater on higher-level control system



**DALI wiring:**

e.g. with screened line NYM5G 1.5mm<sup>2</sup>;  
 maximum line length = 300m





### DALI-Repeater | for installation in luminaire

#### DALI-Repeater

- for manual control via push-button or control by higher-level DALI controller
- broadcast control of max. 64 ECG DALI units
- plastic casing, gray
- for installation in luminaires or for ceiling recessing with use of supplementary casing
- protection rating: IP20
- insulation class: I
- DALI power supply:  $I_{sec} = \text{max. } 130\text{mA}$
- line voltage:  $U_N = 100 \dots 240\text{VAC}$  50...60Hz

#### Functions in Touch DIM mode:


- operation with building push-buttons
- ON/OFF with short press

- BRIGHTER/DARKER with long press
- SAVE SCENE with double press
- per repeater, up to 64 ECG DALI units in DALI broadcast addressing can be communicated with

#### Operation in higher-level DALI control unit:

- control via controller
- one DALI address is required per repeater
- expansion of the number of ECG DALI units
- per repeater, up to 64 ECG DALI units in DALI broadcast addressing can be communicated with
- signaling of defective light source



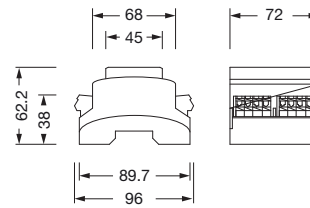
Designation	Version		Order no. OSRAM	Order no. Siteco
DALI-Repeater	Luminaire installation	0.1	4050737018447	5LZ904002

### Accessories (for details see page 13.68)

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Insert casing, ceiling flush mounting in the intermediate ceiling	0.1	4039806549754	5LZ904605

Details of electrical connection can be seen on **page 13.67**





### DALI-Repeater | for installation in distributor

#### DALI-Repeater

- for manual control via push-button or control by higher-level DALI controller
- broadcast control of max. 64 ECG DALI units
- plastic casing, gray
- for installation in distribution box
- protection rating: IP20
- insulation class: I
- DALI power supply:
  - $I_{\text{sec}} = \text{max. } 130\text{mA}$
- line voltage:  $U_{\text{N}} = 100 \dots 240\text{VAC}$   
50...60Hz

#### Functions in Touch DIM mode:


- operation with building push-buttons
- ON/OFF with short press
- BRIGHTER/DARKER with long press
- SAVE SCENE with double press

- per repeater, up to 64 ECG DALI units in DALI broadcast addressing can be communicated with
- integrated switching contact for switching off the mains voltage upon DALI command "light off"

#### Operation in higher-level DALI control unit:

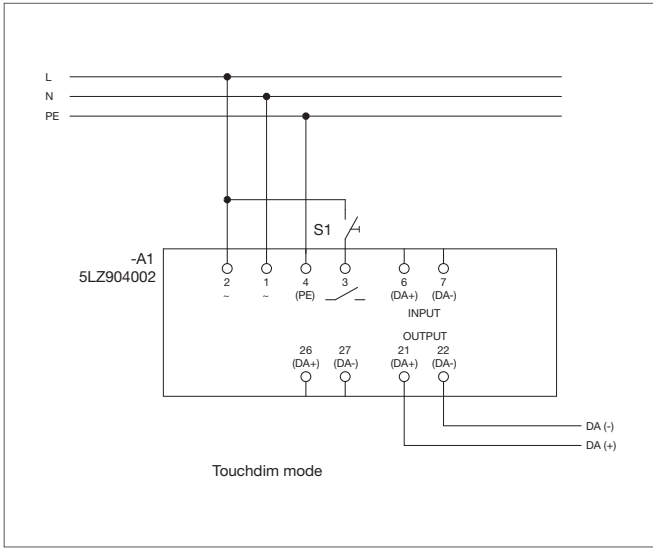
- control via controller
- one DALI address is required per repeater
- expansion of the number of ECG DALI units
- signaling of defective light source
- per repeater, up to 64 ECG DALI units in DALI broadcast addressing can be communicated with
- integrated switching contact for switching off the mains voltage upon DALI command "light off"



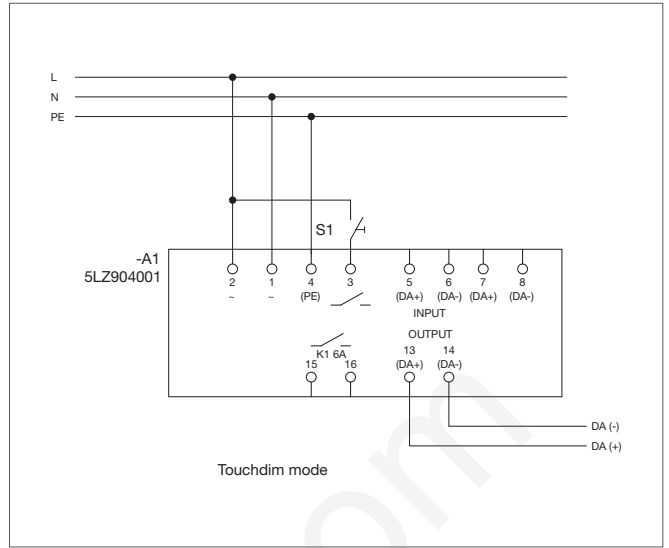
Designation	Version	Part units		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
DALI-Repeater	Distribution installation	4	0.2	4050737018430	5LZ904001

Details of electrical connection can be seen on **page 13.67**

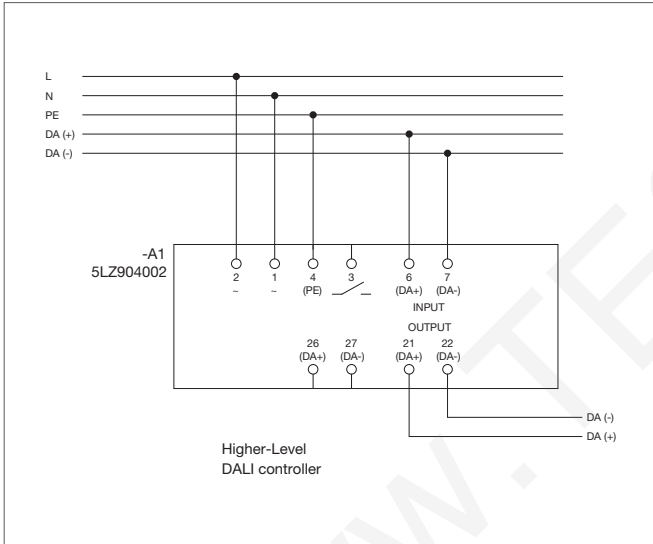
**Repeater | for installation in luminaire**



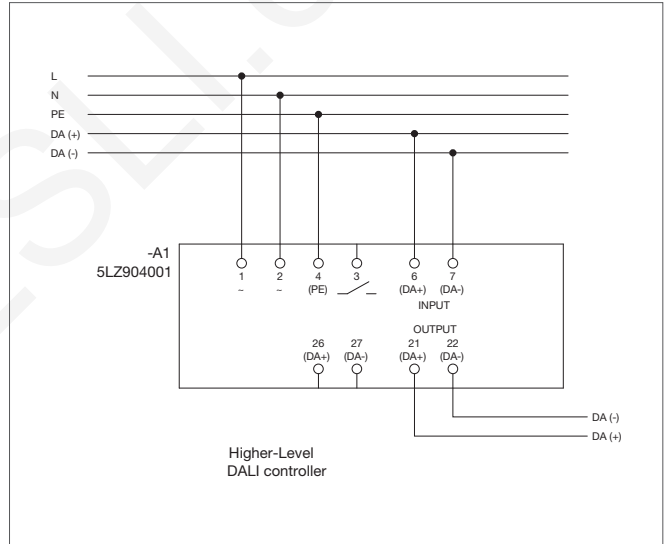
**Repeater | for installation in distributor**



**Repeater | for luminaire mounting higher-level control system**



**Repeater | for distributor mounting higher-level control system**





## Components DALI casing accessories



### Casing for laying-in ceilings

for installation in DALI repeater luminaire | casing made of plastic, transparent | with integrated strain reliefs for mains and control side

Designation	Order no. OSRAM	Order no. Siteco
Casing for ceiling laying-in of DALI repeater	4039806549754	5LZ904605

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# Components 1...10V light sensors



## Brief description

Light sensors facilitate daylight-dependent lighting control indoors. They ensure that, depending on the daylight level, the requirements concerning the lighting level are ensured at all times.

The light sensors are either clipped to the fluorescent lamp, integrated in the DUS® quick-fit trunking like a luminaire insert, or mounted on the ceiling. This allows simple and cost-effective retrofitting and operating of virtually all luminaires equipped with ECG 1...10V.

## Functions

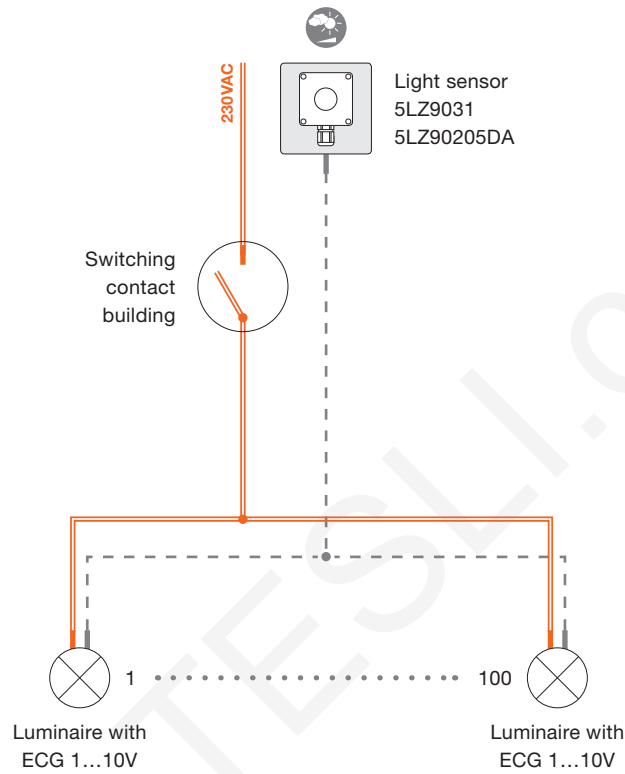
- daylight-dependent lighting control

## Areas of application

1...10V island solution for:

- workshops
- manufacturing areas
- upgrade of existing lighting installations (with ECG 1...10V)

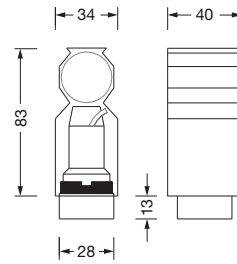
# Components 1...10V light sensors



— Mains voltage 230VAC  
- - - 1...10V line

**1...10V wiring:**  
e.g. with screened line NYM5G 1.5mm<sup>2</sup>





**Components 1...10V light sensors  
For clipping to T16 and T26 lamps**

Light sensor


- for daylight-dependent lighting control
- setpoint setting via potentiometer at sensor head
- dimming of ECG 1...10V
- ON/OFF via building installation
- casing of plastic
- spring steel mounting bracket
- for clipping to light source
- protection rating: IP20

- insulation class: II
- no. of ECG units: approx. 100 ECG units, manufacturer/type-dependent
- mounting height: H= 2.5...10m (5...10m only permissible with anti-glare tube 2)

Light sensor:

- opening angle: = approx. 90°
- observe minimum distance from light sensor to window ledge

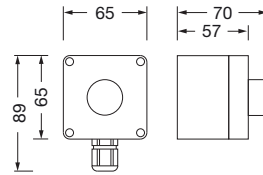


Designation	Version		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Light sensor	1...10V	0.1	4039806378712	5LZ9031

**Accessories (for details see page 15.75)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Anti-glare tube type 2	0.1	4050737468624	5LZ913TB2

Details of electrical connection can be seen on **page 13.74**



**Components 1...10V light sensors  
For ceiling mounting**

Light sensor


- for daylight-dependent lighting control
- setpoint setting via potentiometer at sensor head
- dimming of ECG 1...10V
- ON/OFF via building installation
- plastic casing, gray
- for ceiling surface mounting
- protection rating: IP20
- insulation class: II

- no. of ECG units: approx. 100 ECG units, manufacturer/type-dependent
- mounting height: H= 2.5...10m (5...10m only permissible with anti-glare tube 2)

Light sensor:

- opening angle: = approx. 90°
- observe minimum distance from light sensor to window ledge

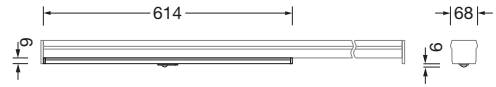


Designation	Version		Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Light sensor	1...10V	0.1	4050737469003	5LZ90205DA

**Accessories (for details see page 15.75)**

Designation	Wt. (kg)	Order no. <b>OSRAM</b>	Order no. <b>Siteco</b>
Anti-glare tube type 2	0.1	4050737468624	5LZ913TB2

Details of electrical connection can be seen on **page 13.74**



**Components 1...10V light sensors**  
**For installation in DUS® IP20 trunking systems**


- DUS® IP20 light sensor insert
- can be positioned in module size 307mm\*
  - with light sensor for daylight-dependent lighting control
  - setpoint setting via potentiometer at sensor head
  - casing of sheet steel, pure white (similar to RAL 9010); twist lock catches with metal clips for rapid fixing to trunking rails
- for mounting to DUS® trunking rail
  - protection rating: IP20
  - insulation class: I
  - mounting height:  $h = 2.5 \dots 3\text{m}$
- Light sensor:
- opening angle: = approx. 72°
  - observe minimum distance from light sensor to window ledge

\* System size: 1 system unit (1x SE) = 307mm

**Electrics**

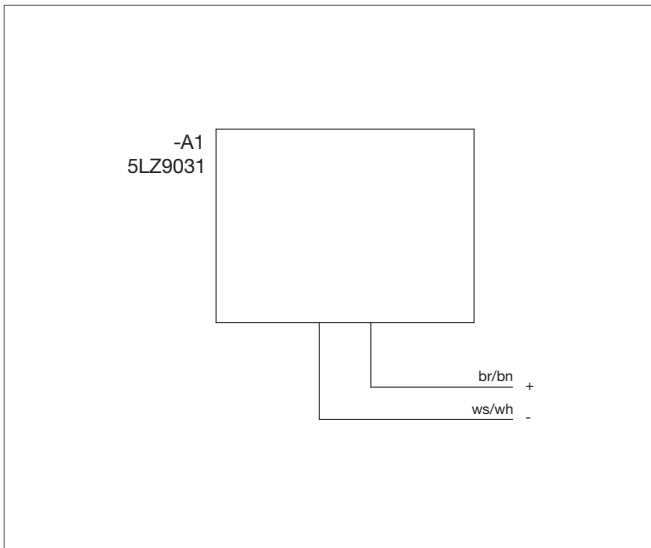
Light sensor insert wired ready-to-use, suitable for 7-core wired carrier rail | for daylight-dependent lighting control of approx. 20 luminaire inserts, 1 or 2 lamps (approx. 10 power modules) with ECG 1...10V units | ON/OFF is realized by the building's installation



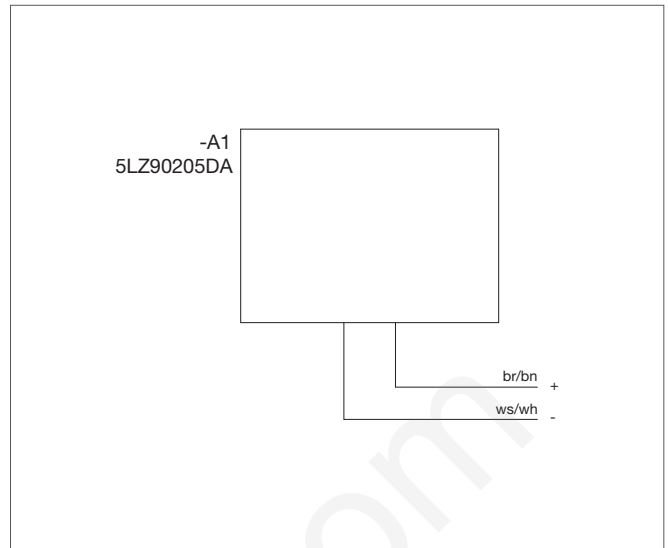
Designation		Order no. OSRAM	Order no. Siteco
Luminaire insert, light management system, mounting height 2.5m<math> < h < 3\text{m}</math>	0.4	4050737054131	5LJ9056HPL

Details of electrical connection can be seen on **page 13.74**

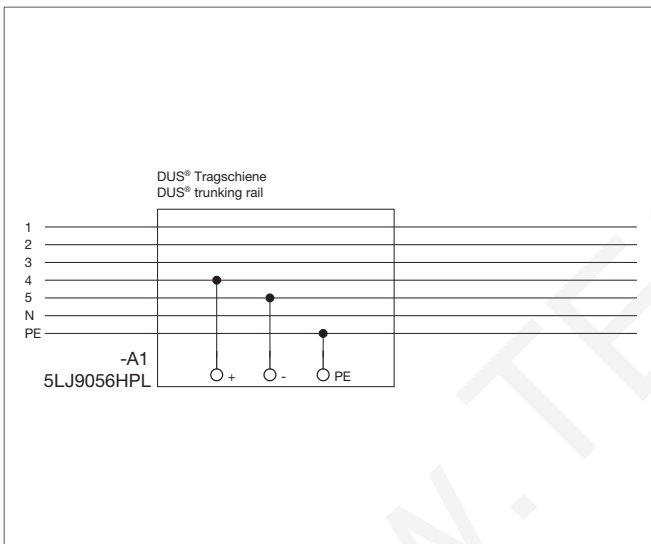
For clipping to T16 and T26 lamps



For ceiling mounting



For installation in DUS® IP20 trunking systems





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**Components 1...10V accessories**

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**Anti-glare tube**

for attachment to the light sensor head, for light sensors 5LZ9031 and 5LZ90205DA

**Designation**

**Order no. OSRAM**

**Order no. Siteco**

---

Anti-glare tube for light sensor 2

4050737468624

5LZ913TB2

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# Timer module 916



## Brief description

The timer module 916 facilitates indoor lighting control. Large-area presence and motion detection can be realized in combination with Modario® sensor modules in new installations and in renovation work without integrated DALI interface.

Control signals from the Modario® sensor modules start the programmed timer function. The lighting installation is switched on and operated with timer control.

Modification settings are carried out directly at the timer module 916. Complicated changes to the Modario® sensor module – possibly with the help of platforms or ladders – are not necessary.

In addition to large storage areas, this system can also be used to implement individual controls for racking aisles, corridors and stairways.

## Functions

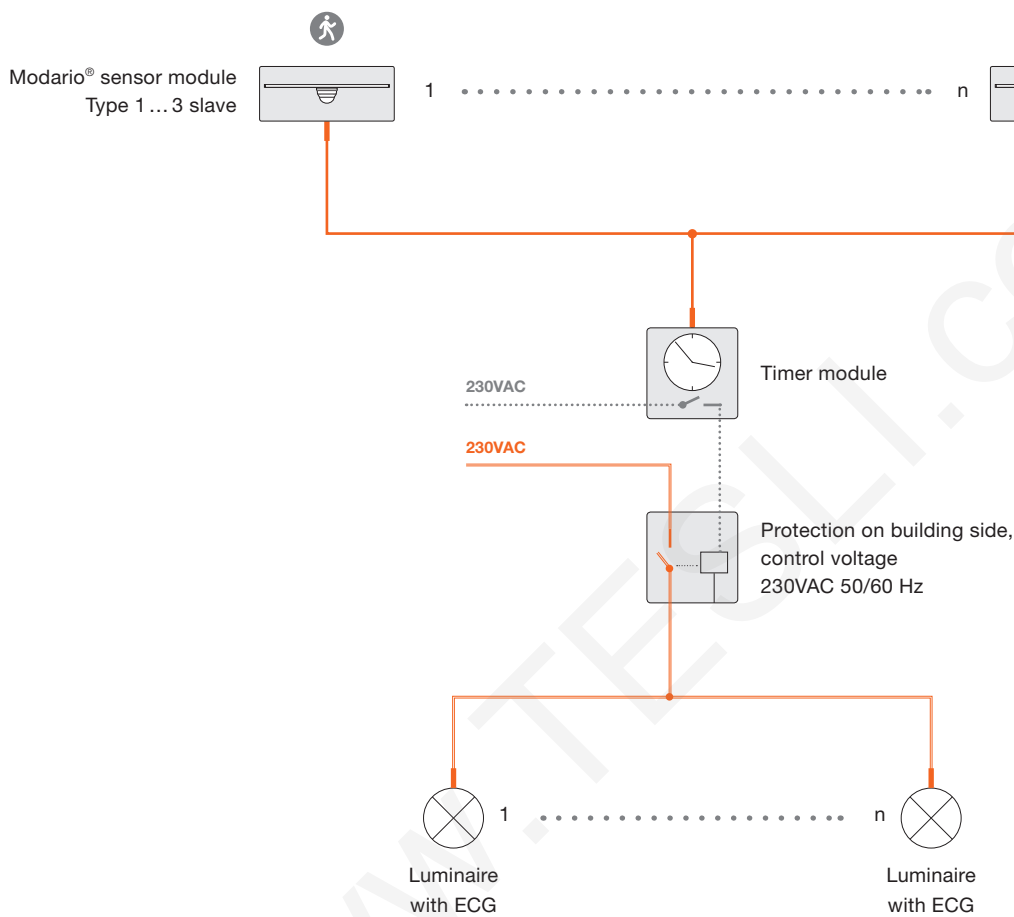
- motion-dependent control of non-dimmable ECG units

## Areas of application

Island solution for:

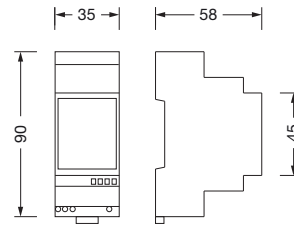
- highbay warehouses
- shelving warehouses
- stores
- stairwells

# Components switching contact – timer module



- Power current circuit 230VAC
- - - - - Control current circuit 230VAC
- Connection with Modario® sensor module slave






**Components switching contact  
Timer module 916**

Timer module for switching building contactor with delay period

- actuated by Modario® slave sensor modules, switching sensors or push-buttons
- changeover contact
- LCD display
- text-based menu guiding
- integrated operating hours counter
- switching contact: changeover (zero-voltage secure)
- max. switching voltage: 400VAC
- max. switching power: 2000VA ohmic load
- delay period adjustable (0.1sec...999h)
- line voltage:  $U_N = 230VAC$  50...60Hz
- insulation class: II
- protection rating: IP20



Designation	Part units		Order no. OSRAM	Order no. Siteco
Timer module	2	0.1	4050737468648	5LZ916001

**Mandatory accessories**

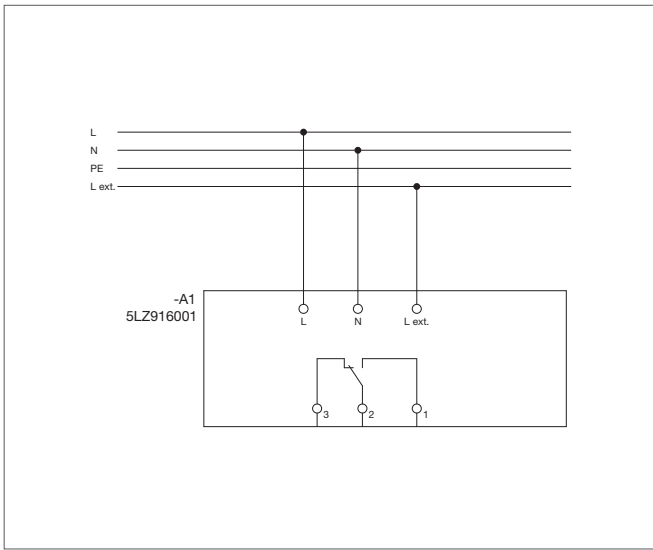
Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Sensor module Type 1, slave, mounting height 3m<h<5m	0.5	4050737056746	5TR3050SBL
Sensor module Type 1, slave, mounting height 3m<h<5m	0.4	4050737054186	5TR3650SBL
Sensor module Type 2, slave, mounting height 6m<h<10m	0.9	4050737056333	5TR3050SBH
Sensor module Type 3, slave, mounting height 6m<h<10m	1.1	4050737056722	5TR3050SBHR
Sensor, VISION, mounting height max. 4.5m	1.0	4050737623948	5LZ904004
Sensor, Highbay, mounting height max. 10m	1.0	4050737619774	5LZ904005
Push-button module	0.1	4050737468808	5LZ913009

**Accessories**

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Light sensor, mounting to the lamp, mounting height max. 10m	0.1	4039806378712	5LZ9031
Light sensor, mounting on the ceiling, mounting height max. 10m	0.1	4050737469003	5LZ90205DA

Details of electrical connection can be seen on **page 13.80**

### Timer module 916





## Components switching contact – sensors



### Brief description

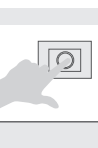
Sensors with switching contact facilitate motion-dependent control of lighting installations. Used as simple motion sensors, you can directly switch luminaires on and off. In addition, these sensors can also be combined with the Modario® highbay adapter. In this way the sensors can be incorporated in DALIPro 9047 in a modular way and can control up to 256 luminaires.

### Functions

- motion detection

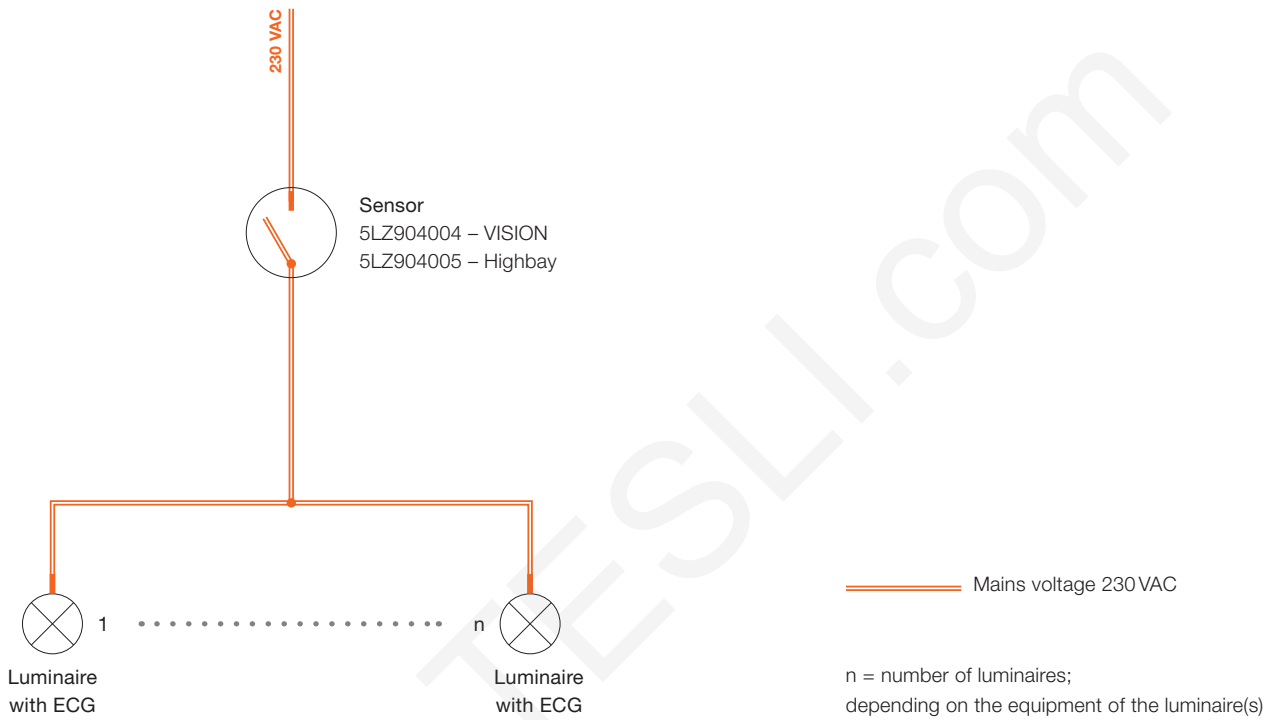
### Areas of application

- storage areas
- manufacturing areas



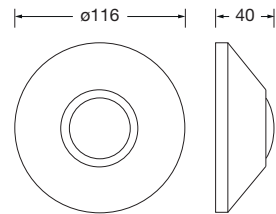


# Components switching contact – sensors



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### Components switching contact Sensors

#### Sensor

- for detecting persons or vehicles
- floating relay contact
- plastic casing, white
- for ceiling surface mounting
- protection rating: IP20
- switching output: number of ECG units manufacturer/type-dependent; delay period adjustable (0.5/2.5/5.0/7.5/.../20min)
- line voltage:  $U_N = 120 \dots 277 \text{VAC } 50/60 \text{Hz}$


#### Motion detection VISION:

- PIR sensor
- sensor range circular
- mounting height:  $H \leq 4.5 \text{m}$
- opening angle: approx.  $130^\circ$
- motion detection tangential:  $d = \text{approx. } 21 \text{m}$

#### Motion detection highbay:

- PIR sensor
- sensor range circular
- Mounting height:  $6 \text{m} \leq H \leq 10 \text{m}$
- opening angle: approx.  $60^\circ$
- Motion detection tangential:  $d = \text{approx. } 12 \text{m}$



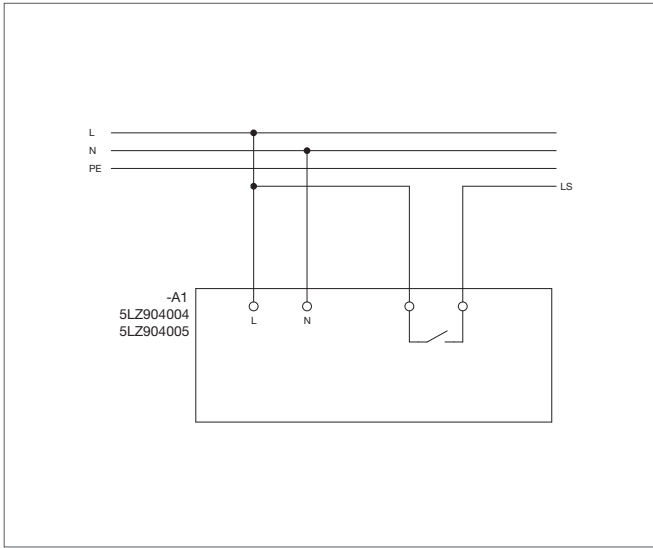
Designation	Version		Order no. OSRAM	Order no. Siteco
Sensor	VISION	1.0	4050737623948	5LZ904004
Sensor	Highbay	1.0	4050737619774	5LZ904005

### Accessories

Designation	Wt. (kg)	Order no. OSRAM	Order no. Siteco
Highbay adapter	1.0	4050737619767	5LZ904722
Modario® Highbay adapter, mounting height 4...12m	0.9	4050737523316	5TR3050AY
Modario® Highbay adapter, mounting height 4...12m	5.3	4050737619743	5TR3650AY
Timer module	0.1	4050737468648	5LZ916001

Details of electrical connection can be seen on **page 13.84**

### Sensors



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# DALleco 9043



Luminaires with DALleco facilitate independent DALI island solutions for offices, conference rooms and ancillary areas and corridors. DALleco integrates intelligence in the lighting installation and permits daylight-dependent and motion/presence-dependent control. In this way, the system makes a considerable contribution to energy and CO<sub>2</sub> savings indoors.

The core of the system is formed by a master luminaire with an integrated multi-sensor and controller to which standard luminaires with standard ECG DALI units are connected. In order to extend the detection area we have slave luminaires with integrated PIR expansion sensors available.

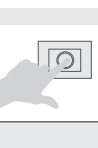
Commissioning of the system is carried out simply and in an uncomplicated manner using intuitive remote control. Six saved operating modes pre-define the significant settings for the application areas individual office, open-plan office, conference room, corridor, stairway and medical room. At the same time the user can intervene in the lighting installation manually at any time and can control the lighting via building push-buttons (ON/OFF/dimming) or via an optional convenient remote control.

## Functions

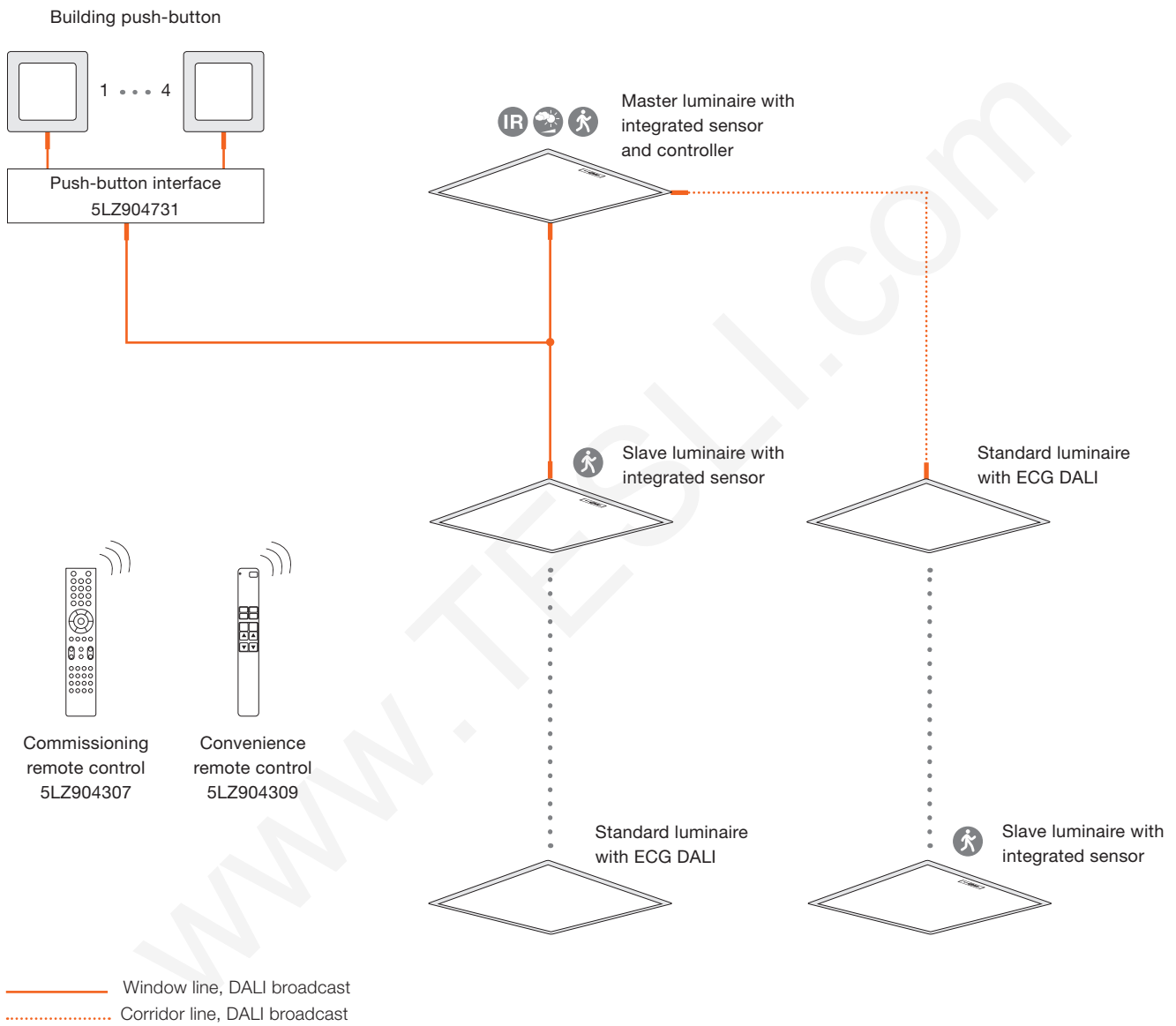
- presence and motion sensing
- daylight-dependent lighting control
- manual control of lighting installation

## Areas of application

- individual offices
- open-plan offices
- conference rooms
- corridors
- stairwells
- medical rooms



# DALIeco 9043



- max. 32 luminaires with ECG DALI
- max. 1 master luminaire + 2 slave luminaires
- max. 4 push-button interfaces

Push-button interfaces and slave luminaires can be distributed at will on window and corridor lines



# DALleco 9043



## Luminaires Master luminaires

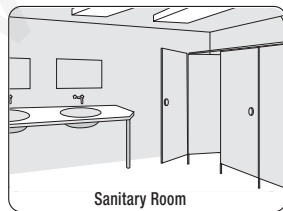
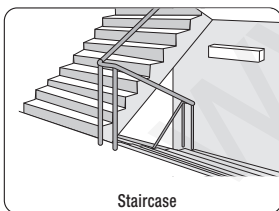
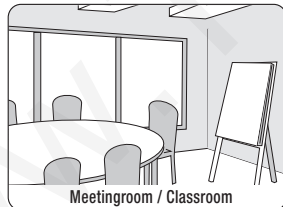
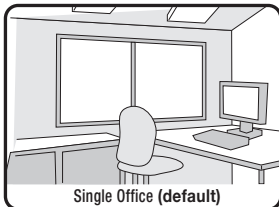
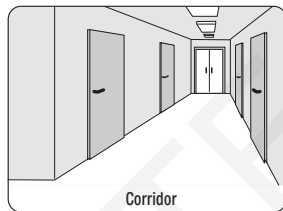
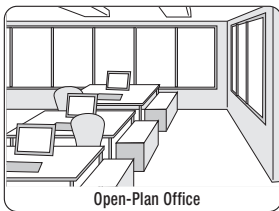
### Integrated multi-sensor

- presence detector
- motion sensor
- light sensor
- IR receiver

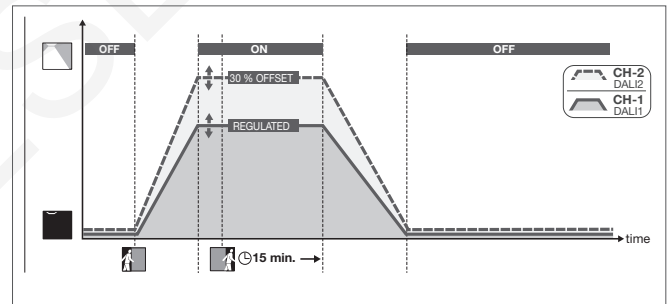
### Integrated controller

- 6 pre-configured modes
- two DALI lines CH1 “Window” and CH2 “corridor”
- push-button interface can be incorporated

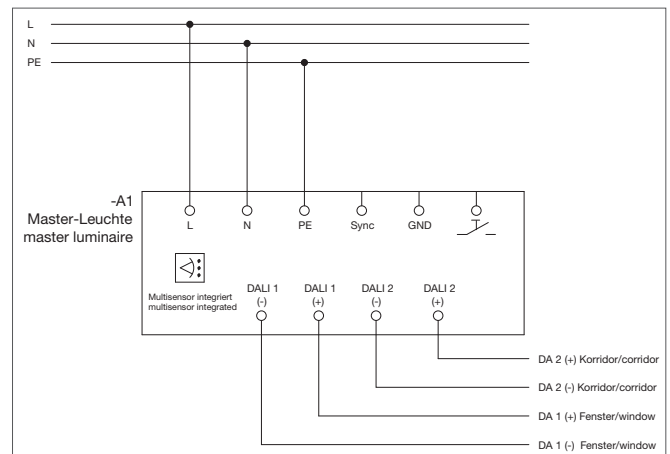
## Modes



## Mode single office (factory setting)



## Electrical connection master luminaire



# DALIeco 9043



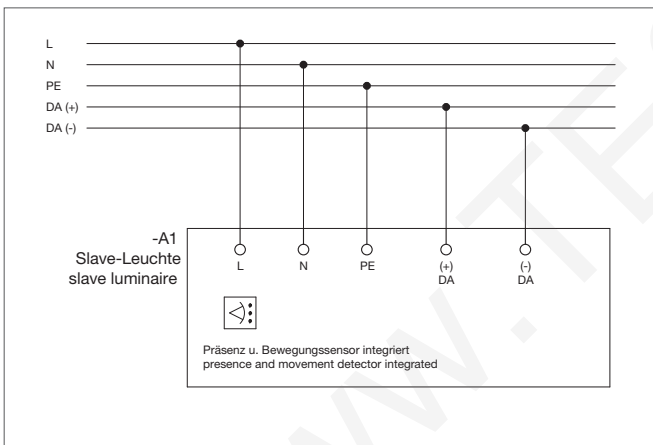
## Luminaires Slave luminaires

### Integrated multi-sensor

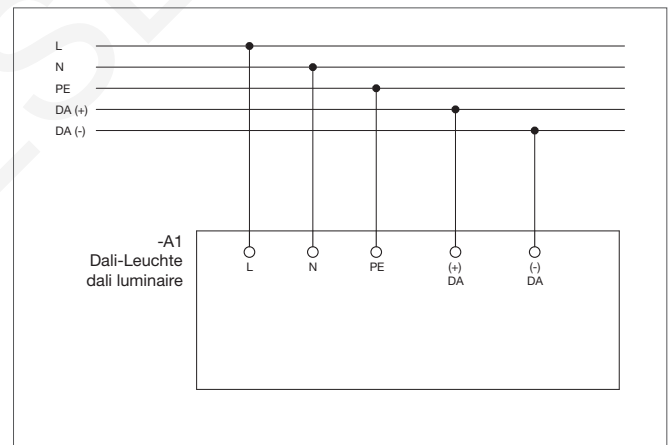
- presence detector
- motion sensor

For extension of the detection area  
for presence and motion detection

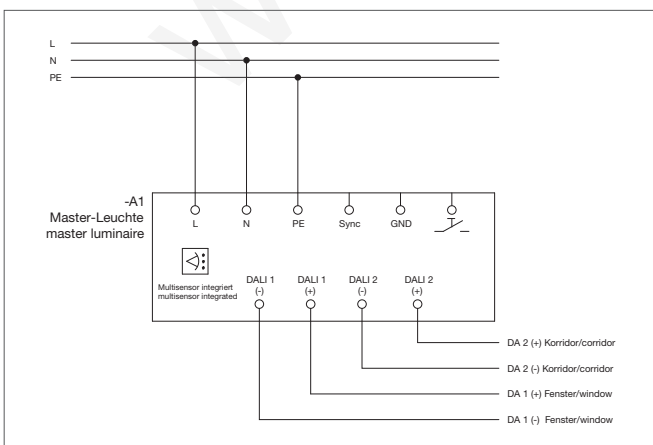
## Electrical connection slave luminaire



## Electrical connection DALI luminaire



## Electrical connection Master Luminaire





# DALIeco 9043



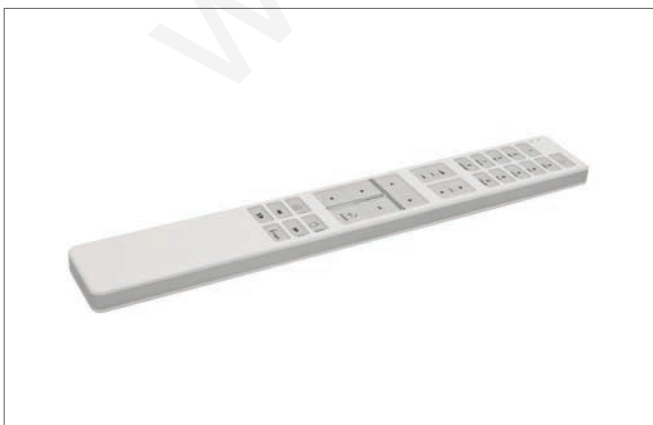
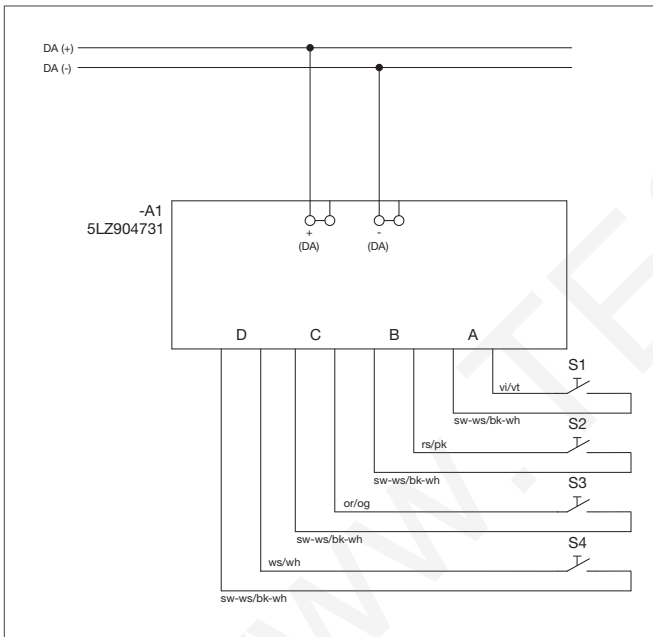
**Operating elements**  
**Push-button interface 5LZ904731**

Operation of the lighting installation by user incorporation of max. 4 customer-specific push-buttons

**Scope of functions:**

- push-button S1: "CH1" window luminaires ON/OFF/dimming
- push-button S2: "CH2" corridor luminaires ON/OFF/dimming
- push-button S3: "CH1" + "CH2" ON
- push-button S4: "CH1" + "CH2" OFF

**Electrical connection push-button interface**



**Operating elements**  
**Convenient remote control 5LZ904309**

Operation of lighting installation by user

**Scope of functions:**

- "CH1" window luminaires ON/OFF/dimming
- "CH2" corridor luminaires ON/OFF/dimming
- "CH1" + "CH2" central ON/OFF
- saving and call-up of 4 lighting scenes
- activation/deactivation of holiday function

# DALIeco 9043



## Commissioning

### Commissioning remote control 5LZ904307

Commissioning by the installer/Facility manager

### Adjustment possibilities (depending on mode):

- mode selection:
  - single office
  - open-plan office
  - classroom/conference room
  - corridor
  - stairway
  - sanitary area
- nominal lighting intensity
- delay time
- background lighting intensity
- background lighting time
  
- manual ON/OFF of the lighting installation
- start 100h burn-in function
- activate walk test for presence and motion sensor

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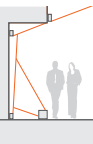


### Cove Light AC



Cove Light AC  
Page 14.3

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# Cove Light AC



## Plug & play portfolio

### Now even more simple solutions from Traxon e:cue

Simply put, the term “plug & play” means a product that contains all the requisite hardware and that needs no other supplements or configuration for use. This is why plug & play and control solutions are highly popular because they are quick and easy to install and require little or no programming, thereby saving time during installation and project implementation. Essentially, this is an uncomplicated solution promising error-free handling.

Traxon offers a series of plug & play solutions in its portfolio. The products in the Cove Light AC series are the best-known plug & play luminaires, and as suitable components for indoors and outdoors they meet a diversity of applications for architecture, hotels, restaurants and the retail sector.

## The Cove Light AC series

### The flexible and efficient solution for atmospheric ambience

Lighting design focuses on various levels of lighting that influence the atmosphere and moods within all types of surroundings. Each level needs individual methods of lighting. This is why Traxon has developed the Cove Light AC series, a portfolio of various Cove Light products meeting the specific requirements of ambient lighting. With integrated optics, Cove Light AC provides hybrid solutions that can do much more than simple cove lighting. Wall illumination effects can be created for example. The Cove Light ACs are available with various color temperatures and have highly flexible applications due to their compact constructions.



### Features

- excellent price-performance ratio
- highly efficient luminaire with very diverse applications
- high light intensity and high efficiency
- low energy consumption
- homogeneous, high-quality light due to very precise binning (Cove Light AC HO)
- up to 30% more luminous flux and up to 25% more efficiency than similar current market products (Cove Light AC HE)
- simple cabling (plug & play) and connection (Cove Light AC, HO, HE and Dim)

### Lighting technology

- high-power LED
- an alternative to standard luminaires fitted with incandescent or fluorescent lamps (Cove Light AC HE)
- rotation: up to 180° (lockable in 5° steps)

### Electrics

- operation via mains voltage, supplementary power supply unit not required
- flicker-free dimming from 5%...100% (Cove Light AC HO and Dim)

### Applications

- hotels and restaurants
- planar illumination
- accent lighting
- indirect lighting
- architecture
- commerce
- alcove lighting
- living quarters



Al Gurg project office, Dubai, UAE

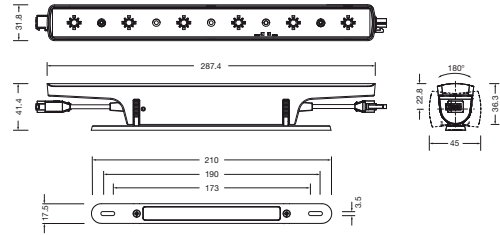
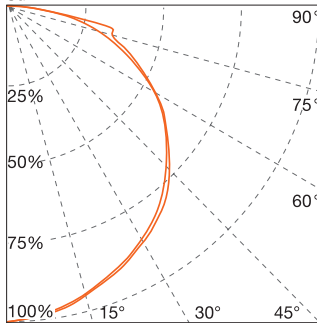


Diagram based on 6500 K version Cd



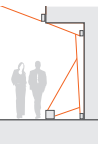
### Cove Light AC (CE)

- dimmable via forward phase control
- luminous flux: 985...1.312lm/m
- series switching distance: up to 150 luminaires (230V)
- available beam angles: 135° x 135° (wide angle, without reflector), 100° x 55° (focused, with reflector)
- available with color temperatures: 2,700K, 3,000K, 4,000K (3,500K, 6,500K on request)
- available with light colors: warm white, neutral white, cool white
- protection rating: IP20

		K	V	W	lm	lm/W		Order no. OSRAM	Order no. Siteco
6	135x135	2700	230	7	315	45	0.2	4006584774210	OTXCA0000001
6	135x135	3000	230	7	323	46	0.2	4006584774272	OTXCA0000003
6	135x135	4000	230	7	361	51	0.2	4006584774364	OTXCA0000006

### Accessories

Designation	Order no. OSRAM
Cove Light AC connection cable CE 3M	4006584793617
Cove Light AC connection cable 1M	4006584793624





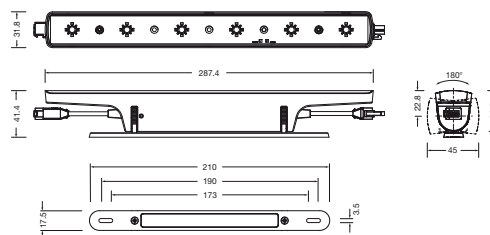
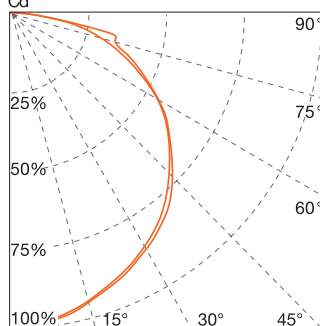





Diagram based on 6500 K version



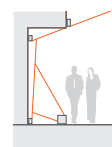
### Cove Light AC Dim (CE)

- dimmable via forward phase control
- luminous flux: 985...1.312lm/m
- series switching distance: up to 150 luminaires (230V)
- available beam angles: 135° x 135° (wide angle, without reflector), 100° x 55° (focused, with reflector)
- available with color temperatures: 2,700K, 3,000K, 4,000K (3,500K, 6,500K on request)
- available with light colors: warm white, neutral white, cool white
- protection rating: IP20

		<b>K</b>	<b>V</b>	<b>W</b>	<b>lm</b>	<b>lm/W</b>		<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
6	135x135	2700	230	7	339	49	0.2	4006584774487	OTXCD0000010
6	135x135	3000	230	7	351	52	0.2	4006584774548	OTXCD0000012
6	135x135	4000	230	7	380	56	0.2	4006584774661	OTXCD0000016

### Accessories

<b>Designation</b>	<b>Order no. OSRAM</b>
Cove Light AC connection cable CE 3M	4006584793617
Cove Light AC connection cable 1M	4006584793624
DMX2PC UNIVERSAL DIMMER	4006584817443



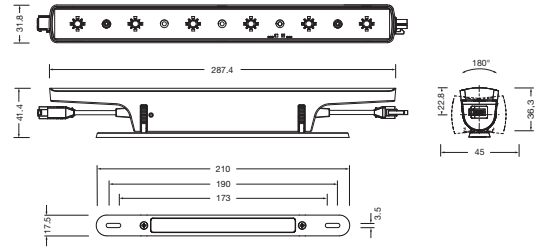
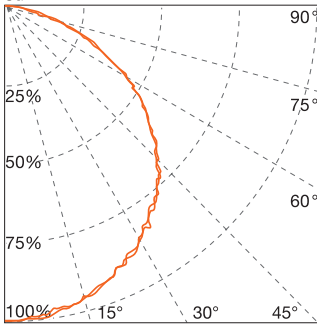


Diagram based on version HE 3000 K 120°x120° Cd



### Cove Light AC HE (CE)

- luminaire efficacy: 60...68lm/W
- power consumption: 10.2W/m
- series switching distance: up to 300 luminaires (230V)
- available with color temperatures: 2,700K, 3,000K, 4,000K
- available with light colors: warm white, neutral white
- wide beam angle: 120° x 120°
- protection rating: IP20

		<b>K</b>	<b>V</b>	<b>W</b>	<b>lm</b>	<b>lm/W</b>		<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
6	120x120	2700	230	3.5	185	60	0.2	4006584774722	OTXCE0000018
6	120x120	3000	230	3.5	193	62	0.2	4006584774753	OTXCE0000019
6	120x120	4000	230	3.5	212	68	0.2	4006584774784	OTXCE0000020

### Accessories

<b>Designation</b>	<b>Order no. OSRAM</b>
Cove Light AC connection cable CE 3M	4006584793617
Cove Light AC connection cable 1M	4006584793624



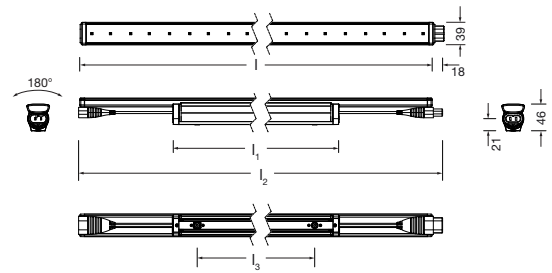
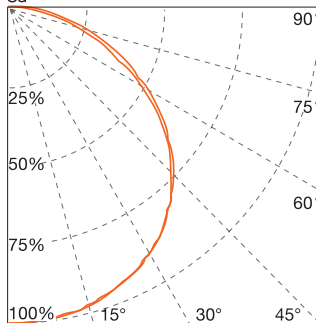


Diagram based on version  
HO-9 2700 K 120°x120°  
Cd



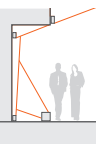
### Cove Light AC HO-9 (CE) Cove Light AC HO-27 (CE)

- dimmable via forward phase control
- power consumption: 33W/m
- luminous flux: 2,165...2,455lm/m
- luminaire efficacy: 60lm/W (2,700K), 68lm/W (4,000K)
- available with color temperatures: 2,700K, 3,000K, 4,000K (3,500K, 6,500K on request)
- available with light colors: warm white, neutral white, cool white (on request)
- available with luminaire lengths: 305mm, 610mm, 915mm
- four beam angles available: 120° x 120°, 120° x 55°, 40° or 50° x 10°
- series switching distance: up to 300 luminaires (230V)
- protection rating: IP20

			<b>K</b>	<b>V</b>	<b>W</b>	<b>lm</b>	<b>lm/W</b>		<b>Order no. OSRAM</b>	<b>Order no. Siteco</b>
Cove Light AC HO-9 (CE)										
9	120x120	2700	230	11	656	60	0.4		4006584774814	OTXC00000021
9	120x120	3000	230	11	694	63	0.4		4006584774845	OTXC00000022
9	120x120	4000	230	11	744	68	0.4		4006584774906	OTXC00000024
Cove Light AC HO-27 (CE)										
27	120x120	2700	230	33	1985	60	1.05		4006584775101	OTXC00000029
27	120x120	3000	230	33	2082	63	1.05		4006584775132	OTXC00000030
27	120x120	4000	230	33	2276	69	1.05		4006584775194	OTXC00000032

### Accessories

<b>Designation</b>	<b>Order no. OSRAM</b>
Cove Light AC HO connection cable CE 2M	4006584776207
Cove Light AC HO connection cable 2M	4006584776221
DMX2PC UNIVERSAL DIMMER	4006584817443

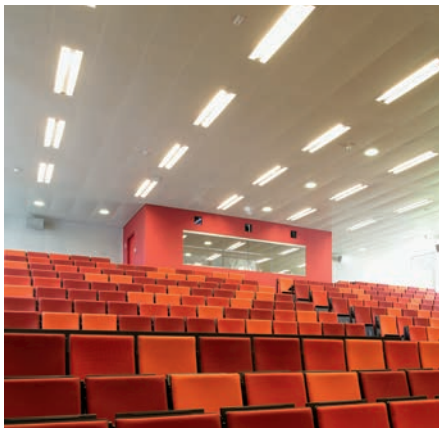




www

# Contents

1	Photometric data explanations	15.3
2	Emission angles	15.8
3	Explanation of symbols	15.10
4	Lamp technology	15.19
5	Lamp data	15.21
6	Information on the energy consumption designation	15.25
7	Single battery	15.31
8	Light Solutions Center – LSC	15.33
9	LIGHTIFY™ Pro	15.34
10.1	Order number index – OSRAM–Siteco	15.35
10.2	Order number index – Siteco–OSRAM	15.59
11	General business conditions	15.83
12	Guarantee declarations	15.83





# 1 Photometric data explanations

**1** |  $\Phi$ : Luminous flux of lamp in [lm] according to lamp manufacturer specifications, measured at 25°C ambient temperature and unshielded. With LED, the net luminaire luminous flux

**2** | Quantity, type and light color of lamp, usually according to the ZVEI lamp designation system

**3** | Light distribution as polar curve. Specification of  $\gamma$  angle in [°]  
Specification of luminous intensities  $I$  in [cd/klm].  
The actual luminous intensities are calculated via multiplication with luminous flux of the lamp in [lm] divided by 1000. The centre of the auxiliary circle (scale of luminous intensities  $I$ ) or initial point of the auxiliary lines (scale of  $\gamma$  angle) is the light focal point of the luminaire or median point of the light emission aperture

**4** | Continuous line:  
Luminous intensities  $I$  at C180°  
Dotted line:  
Luminous intensities  $I$  at C270°

**5** | Continuous line:  
Luminous intensities  $I$  at C0°  
Dotted line:  
Luminous intensities  $I$  at C90°

**6** | Order number of luminaire, with accessories where applicable

**7** | UGR value: Specification for direct glare control (unified glare rating) with indoor luminaires. Extract from the standard table for room width  $X = 4x$  H, room length  $Y = 8x$  H, with reflection factors  $\rho_{\text{ceiling}} = 70\%$ ,  $\rho_{\text{wall}} = 50\%$  and  $\rho_{\text{floor}} = 20\%$   
H: distance between eye level of seated viewer (1.2m) and luminaire level.  
Value left: with luminaire/lamp axis parallel to X, across direction of view.  
Value right: with luminaire/lamp axis parallel to Y and along direction of view.

$S = 0.25 \times H$ : axis distance of luminaires among each other. This is not realistic but is used for the specification of the table.

With luminaires having more than 15% indirect component, these are determined with 50cm suspension distance from ceiling.

The UGR process cannot be used for luminaires with more than 65% indirect component.

**8** | Luminaire light output ratio  $\eta_{\text{LB}}$  in [%]:  
This specifies how much (%) of the luminous flux  $\Phi$  of the lamps actually leaves the luminaire at an ambient temperature of 25°C. Siteco specifies this at 100% for luminaires with LED (see 1).

**9** |  $\phi_{\downarrow}$ : component of luminous flux emitted to the lower hemisphere (direct component,  $\gamma \leq 90^\circ$ ), in [%] from total luminous flux  $\phi \times \eta_{\text{LB}}$  leaving the luminaire.

**10** |  $\phi_{\uparrow}$ : component of luminous flux emitted to the upper hemisphere (indirect component,  $\gamma > 90^\circ$ ), in [%] from total luminous flux  $\phi \times \eta_{\text{LB}}$  leaving the luminaire.

**11** | Luminance levels  $L$  at luminaire in [cd/m<sup>2</sup>] on levels C0° and C180° or C90° and C270° with various  $\gamma$  angles:  
L80: luminance with  $\gamma = 80^\circ$ ,  
L70: luminance with  $\gamma = 70^\circ$ ,  
L65: luminance with  $\gamma = 65^\circ$   
VDU-compliant glare reduction (CAT) when for  $\gamma \geq 65^\circ$  the following applies in all C levels:  
 $L < 1000\text{cd/m}^2$ ,  $L < 1500\text{cd/m}^2$  or  
 $L < 3000\text{cd/m}^2$ , depending on luminance and polarity of the screen.  
See EN 12461-1, tab. 4

**The specifications in the photometric data are based on measurement results with goniophotometers and Ulbricht spheres according to valid measurement criteria and are only significant for the specified luminaire type in combination with the specified light sources. Depending on the type of luminaire, the most reasonable or possible specifications are selected.**

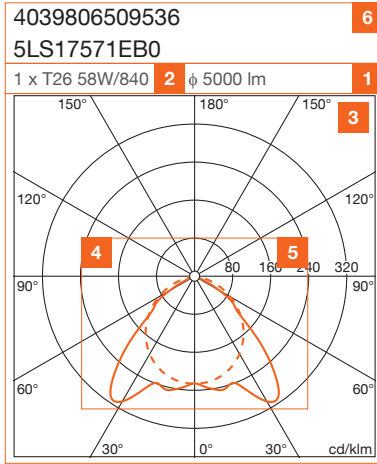
More detailed photometric specifications for all products at [www.siteco.com](http://www.siteco.com)

**12** |  $I_{\text{max}}$ : maximum value of luminous intensity  $I$  in [cd/klm] and  $\gamma$  angle at which this is emitted.

**13** |  $\alpha 50\%$ : half-peak divergence in [°]. This specifies at which angle the luminous intensity  $I$  still consists of 50% of the maximum value.  
 $\alpha 10\%$ : One-tenth peak divergence in [°]. This specifies at which angle the luminous intensity  $I$  still consists of 10% of the maximum value.  
Angle specifications usually define the sum of angles in the levels C0° and C180° or C90° and C270°, e.g.  $2 \times 10^\circ$

**14** | Light distribution as Cartesian diagram with levels C0° and C180°, and C90° and C270°

**Light distribution curve**



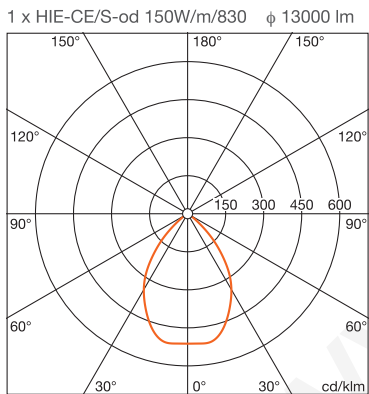
<b>8</b>	<b>9</b>	<b>10</b>
$\eta_{LB}$ 68.6%	$\phi_{\downarrow}$ 100%	$\phi_{\uparrow}$ 0%

<b>Luminance values (cd/m<sup>2</sup>)</b>		<b>11</b>
	C 0/180	C 90/270
L <sub>80</sub>	210	1181
L <sub>70</sub>	224	2480
L <sub>65</sub>	1005	2852

<b>UGR</b>	17	20.3	<b>7</b>
X 4H	Y 8H	$\rho$ 70/50/20	S 0.25H

**Supplementary photometric explanations for downlights and suspended hall luminaires**

4039806526090 + 4039806210456  
 + 4039806213259  
 5NJ60031DN + 5NJ332000  
 + 5NJ300000



$\eta_{LB}$ 67.2%	<b>12</b>
$I_{max}$ 514 cd/klm at $\gamma$ 10°	

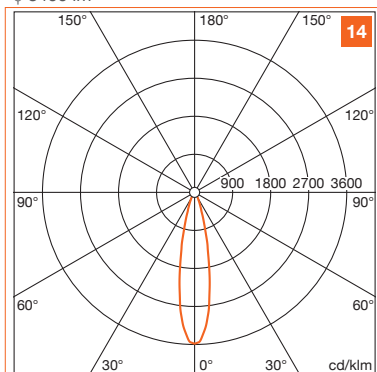
<b>Luminance values (cd/m<sup>2</sup>)</b>	
	C 0/180
L <sub>80</sub>	9
L <sub>70</sub>	4
L <sub>65</sub>	19

$\alpha_{50\%}$	2 x 37.0°	<b>13</b>
$\alpha_{10\%}$	2 x 51.3°	

<b>UGR</b>	16.9	16.9
X 4H	Y 8H	$\rho$ 70/50/20
		S 0.25H

**Supplementary photometric explanations for narrow-distribution spotlights/projectors for outdoor applications**

4006584739424  
 5TR32A71KD2N  
 1 x HIT -TC-CE 35W/942 G8.5  
 $\phi$  3400 lm



$\eta_{LB}$ 80%	<b>14</b>
$I_{max}$ 3579 cd/klm at $\gamma$ 0°	

<b>Luminance values (cd/m<sup>2</sup>)</b>		<b>14</b>
	C 0/180	
L <sub>80</sub>	0	
L <sub>70</sub>	0	
L <sub>65</sub>	4678	

$\alpha_{50\%}$	2 x 11.1°
$\alpha_{10\%}$	2 x 22.5°

<b>UGR</b>	18.4	18.4
X 4H	Y 8H	$\rho$ 70/50/20
		S 0.25H

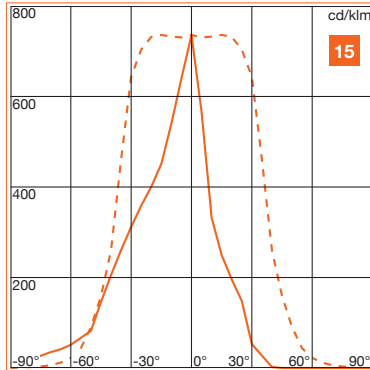
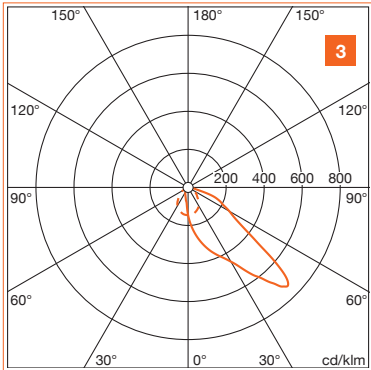


Supplementary photometric explanations for asymmetric floodlights

4039806858986

5NA758E1TB21

1 x HIT-h45 400W/c/640  $\phi$  42000 lm



$I_{max}$ 736 cd/klm	Tilt 45°	16
A 0 (C 0/180)	B 0	15

$I_{max}$  736 cd/klm Tilt 45°

15 | Light distribution as Cartesian diagram with levels A0° (identical with levels C0° and C180°) and level B0°

16 | Inclination: with floodlights, the luminaire is tilted before measuring so far that the maximum in levels A0 and B0 with  $\alpha/\beta = 0^\circ$ . In this way, the width of the light emission can be more precisely determined than with a measurement with C levels, thus enabling a higher measurement accuracy.

Some luminaires were measured with C levels; here, no tilt is specified. The tilt angle in the Cartesian diagram corresponds to the angle to which the floodlight in the polar curve emits light asymmetrically to the vertical.

Light cone diagram

In the case of rotationally symmetric distribution luminaires, the light cone diagram describes the illuminance values occurring on the measuring plane with respect to the distance to the luminaire, vertically to the light direction. The cone shell and thus the circular intersections between cone and planes are described by the half-peak divergence, i.e. the angle at which the light output is still 50% of the maximum light output. Within these circles, the medial illuminance  $E_m$  and the maximal illuminance  $E_{max}$  are specified with a maintenance factor of 0.8.

H(m)	$\phi$ (m)	$E_{max}$ (lx)	$E_m$ (lx)
2	5.93	93	61
3	8.90	41	27
4	11.86	23	15
5	14.83	15	10
6	17.79	10	7

maintenance factor = 0.8

17 | Distance of plane to luminaire in [m]

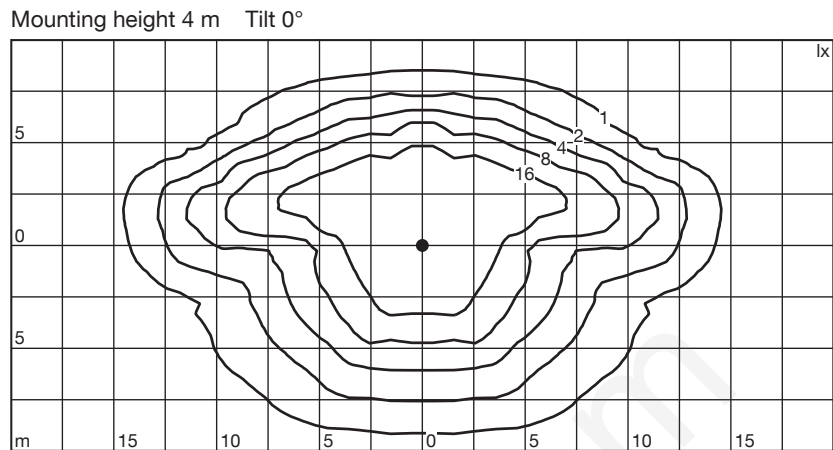
18 | Diameter of light cone in [m]

19 | Maximal horizontal illuminance  $E_{max}$  in the light cone in [lx]

20 | Mean horizontal illuminance  $E_m$  in the light cone in [lx]

### Isolux curves/individual luminaire

Isolux curves represent illuminance distribution upon virtual or real surfaces, e.g. on a road, on a floor or a wall. Points of equal illuminance  $E$  in [lx] ('Isolux') are connected with a curve. The illuminance values depend on the distance between the luminaire and the surface. A maintenance factor of 0.8 is applied. Isolux curves demonstrate the effect of the lighting characteristics of a luminaire (rotosymmetric/asymmetric/linear).



### Number of luminaires in the room

A tabular representation of the required number of luminaires per square metre for a specified nominal horizontal illuminance value  $E_m$  in [lx], on the working plane 0.75m for two standard mounting heights  $L_h$  [m]. With surface-mounted and recessed luminaires, the mounting height corresponds to the room height. With suspended luminaires, the room height  $R_h$  increases compared to the mounting height  $L_h$  by the length of suspension. These values are based on standard reflection factors  $\rho_{ceiling} = 70\%$ ,  $\rho_{wall} = 50\%$ ,  $\rho_{floor} = 20\%$  and a maintenance factor of 0.8. For calculating the tabular values according to other lamp variations, the specified number of luminaires in the table must be multiplied by the corresponding factor.

#### No. of luminaires in room

Reflection factors 70/50/20

$E_m$ (lx)	100		200		500	
	10.0	14.0	10.0	14.0	10.0	14.0
20 m <sup>2</sup>	11	16	21	31	53	78
30 m <sup>2</sup>	13	19	26	38	65	95
40 m <sup>2</sup>	15	22	30	43	74	108
50 m <sup>2</sup>	16	24	33	48	82	121
75 m <sup>2</sup>	20	29	40	58	100	146
100 m <sup>2</sup>	23	33	46	67	115	167
500 m <sup>2</sup>	59	77	117	153	293	384

Maintenance factor 0.8

$R_h = L_h$

### Isolux curves/workstation illumination

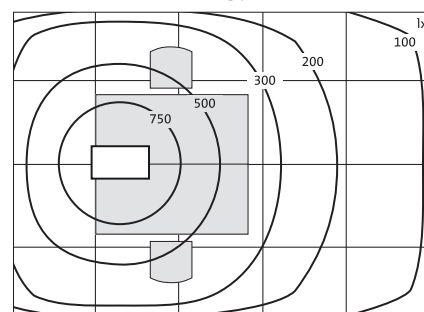
The Isolux diagram represents the distribution of the horizontal illuminance  $E$  in [lx] upon a virtual plane at a height of 0.75m above the floor (the working plane).

An all-round distance of 0.5m to the wall surface is maintained. Points of equal illuminance ("Isolux") are connected with a curve. A standard office room is used with a length of 5m, width of 3.5m and a clearance height of 2.7m.

The room surfaces have reflection values of  $\rho_{ceiling} = 80\%$ ,  $\rho_{wall} = 50\%$ ,  $\rho_{floor} = 30\%$ .

The room contains a double workstation with a table length of 1.6m and a table width of 2 x 0.8m. The room is illuminated with a floorstanding luminaire. A maintenance factor of 0.8 was used. Below the diagram, the medial horizontal illuminance  $E_m$  in [lx] is specified within the room or on the table surface at a height of 0.75m.

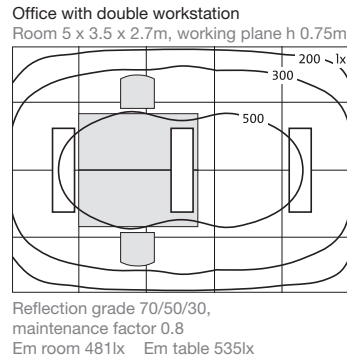
Office with double workstation  
Room 5 x 3.5 x 2.7m, working plane h 0.75m



Reflection grade 80/50/30, maintenance factor 0.8  
 $E_m$  room 447lx  $E_m$  table 643lx

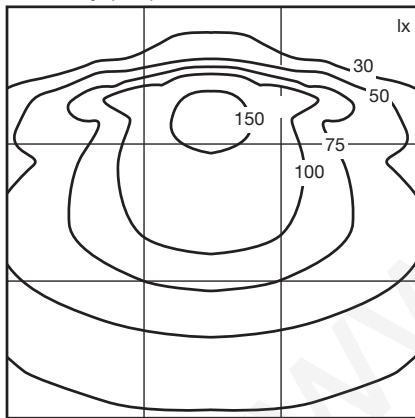
**Isolux curves/room illumination**

The Isolux diagram represents the distribution of the horizontal illuminance  $E$  in [lx] upon a virtual plane at a height of 0.75m above the floor (the working plane). An all-round distance of 0.5m to the wall surface is maintained. Points of equal illuminance (“Isolux”) are connected with a curve. A standard office room is used with a length of 5m, a width of 3.5m and a clearance height of 2.7m. The room surfaces have reflection values of  $\rho_{\text{ceiling}} = 70\%$ ,  $\rho_{\text{wall}} = 50\%$ ,  $\rho_{\text{floor}} = 20\%$ . The room contains a double workstation with a table length of 1.6m and a table width of 2 x 0.8m. The room is illuminated with three direct/indirect-distribution suspended luminaires. A maintenance factor of 0.8 was used. Below the diagram, the medial horizontal illuminance  $E_m$  in [lx] is specified within the room or on the work surface at a height of 0.75m. According to EN 12464-1, the following uniform values  $g_1 = E_{\text{min}} / E_m$  must be maintained: area of visual task:  $g_1 \geq 0.6$ ; immediate vicinity:  $g_1 \geq 0.4$   
EN 12464-1



**Isolux curves/wallwasher table**

5DC11JD7VL355H 30 W  
Proximity (DW) 1m



<b>Planning parameter</b>	<b>Presentation luminaires within the room</b>
Reflection grade 70/50/20 Maintenance factor 0.8 Height 3m	

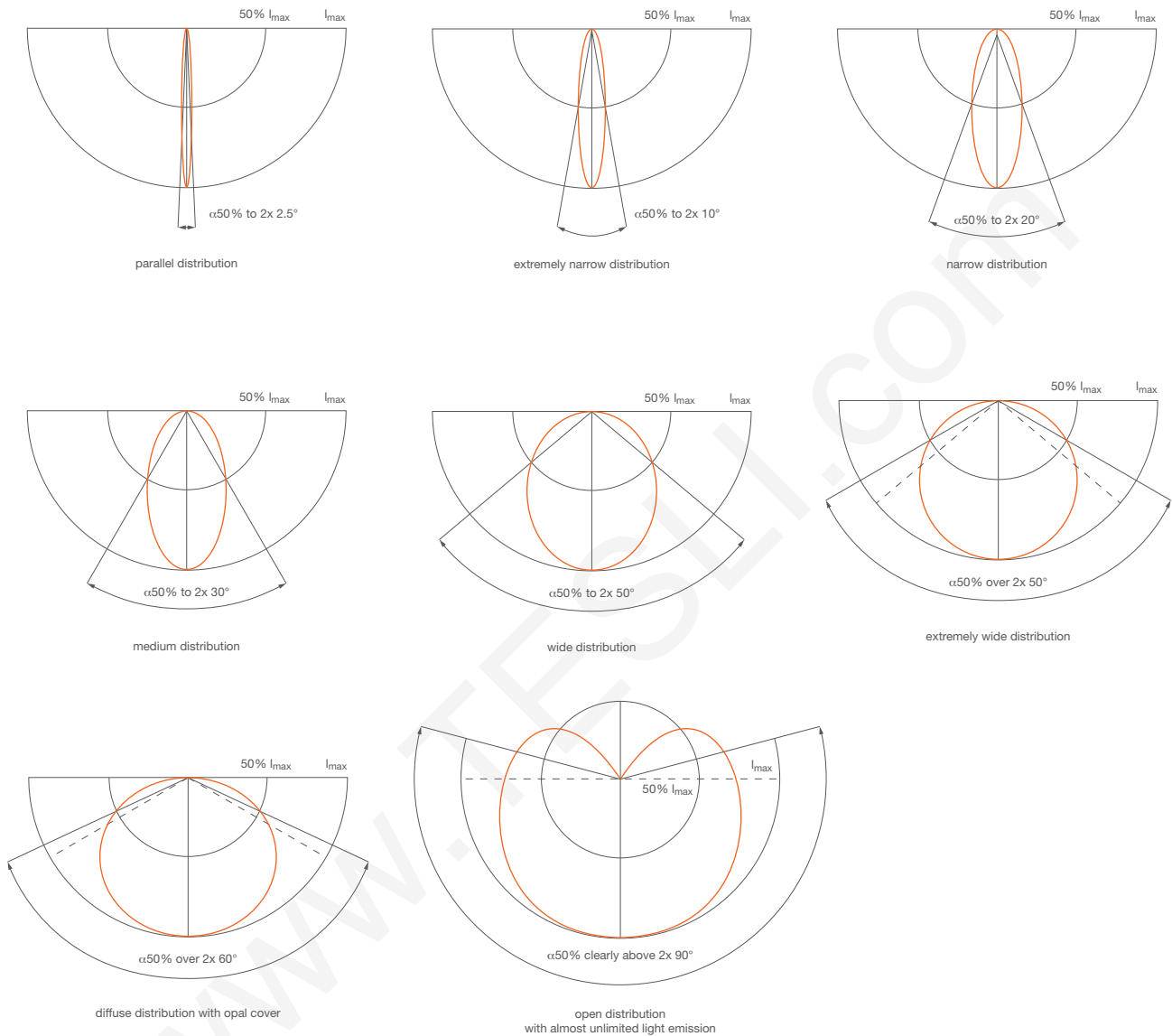
DW (m)	1.00	1.00	1.25	1.25	1.50	1.50	<b>Distance luminaire/wall in m</b>
DL (m)	0.75	1.00	1.00	1.25	1.25	1.50	<b>Distance luminaire/vertical luminaire</b>
En (lx)	240	230	198	151	129	124	<b>Medial vertical illuminance value</b>

The Isolux diagram represents the distribution of the vertical illuminance  $E_v$  in [lx] upon a virtual wall surface of 3x 3m or 6x 6m height (vertical working plane). Points of equal illuminance (“Isolux”) are connected with a curve.

The room surfaces have the reflection factors  $\rho_{\text{ceiling}} = 70\%$ ,  $\rho_{\text{wall}} = 50\%$ ,  $\rho_{\text{floor}} = 20\%$ . The wall is targeted with a luminaire with asymmetric distribution, positioned with a specified distance to the wall (DW) and centric to the wall.

The table shows the medial vertical illuminance values  $E_m$  in [lx] of two luminaires with the specified distance to the wall (DW) and the distance of luminaire to luminaire (DL). A maintenance factor of 0.8 was used.

## 2 Emission angles



































For specifying the beam distribution characteristics of Siteco luminaires, the designations specified above are used with a half-peak

divergence of  $\alpha_{50\%}$ . This specifies at which angle the luminous intensity  $I$  still consists of 50% of the maximum value.





## 3 Explanation of symbols

	Color temperature in K		Beam angle in °		Length $X_2$ in mm
	Color rendering index		Ambient temperature range in °C		Length Y in mm
	Luminous flux in lm		Light color		Diameter d in mm
	Power in W		Control		Diameter for recessed mounting
	System wattage in W		Form/version		
	System power (W) at the start of the rated service life		Color		
	System power (W) at the end of the rated service life		Length l in mm		
	System power (W) with power reduction to 50% luminous flux		Length $l_1$ in mm		
	Luminous efficacy		Length $l_2$ in mm		
	Voltage in V		Width b in mm		
	Base		Width $b_1$ in mm		
	Weight in kg		Height h in mm		
	Type of control gear		Length X in mm		
	No. of LED per module		Length $X_1$ in mm		



	Floorstanding uplight direct/indirect asymmetric medium/wide distribution		Suspended ground wallwasher		Surface-mounted ceiling luminaire direct wide/diffuse distribution with ceiling illumination
	Floorstanding uplight direct/indirect symmetric medium/wide distribution		Suspended wallwasher		Surface-mounted ceiling luminaire direct asymmetric narrow distribution
	Suspended luminaire direct narrow distribution		Spotlight in suspended system rail direct narrow distribution		Ceiling surface-mounted wall- washer
	Suspended luminaire direct medium/wide distribution		Symmetric spot in suspended system rail direct, medium/wide distribution		Asymmetric ceiling surface-mounted floor wallwasher
	Suspended luminaire direct wide/diffuse distribution		Symmetric spot in suspended system rail direct wide distribution		Symmetric spot ceiling surface mounting direct medium/wide distribution
	Suspended ceiling washer		Surface-mounted ceiling luminaire direct narrow distribution		Recessed ceiling luminaire direct narrow distribution
	Suspended luminaire indirect medium/wide distribution		Surface-mounted ceiling luminaire direct medium/wide distribution		Recessed ceiling luminaire direct wide distribution
	Suspended luminaire direct/indirect wide/diffuse distribution		Surface-mounted ceiling luminaire direct wide diffuse distribution		Recessed ceiling luminaire direct wide/diffuse distribution
	Suspended luminaire direct/indirect narrow distribution with ceiling illumination		Surface-mounted ceiling luminaire direct diffuse distribution		Recessed ceiling wallwasher tiltable
	Suspended luminaire direct/indirect medium/wide distribution		Surface-mounted ceiling luminaire direct narrow distribution with ceiling illumination		Recessed ceiling directional spot tiltable narrow distribution
	Suspended luminaire direct/indirect wide/diffuse distribution		Surface-mounted ceiling luminaire direct medium/wide distribution with ceiling illumination		Recessed ceiling directional spot tiltable medium distribution





Semi-recessed ceiling luminaire  
direct narrow distribution



Surface-mounted wall luminaire  
direct/indirect  
symmetric narrow distribution



Asymmetric  
floodlight/projector  
asymmetric  
medium/wide distribution



Semi-recessed ceiling luminaire  
direct medium/wide distribution



Surface-mounted wall luminaire  
direct/indirect asymmetric  
medium distribution



Symmetric  
floodlight/projector  
installation in ground  
symmetric narrow distribution



Semi-recessed ceiling luminaire  
direct wide/diffuse distribution



Surface-mounted wall luminaire  
diffuse distribution



Symmetric floodlight/projector  
installation in ground  
wide distribution



Semi-recessed ceiling luminaire  
direct wide/diffuse distribution



Symmetric floodlight/  
projector/spot in system rail  
ceiling surface mounting  
narrow distribution



Symmetric floodlight/projector  
mast mounting  
narrow distribution



Surface-mounted wall luminaire  
indirect asymmetric  
narrow distribution



Asymmetric floodlight  
ceiling surface mounting



Asymmetric floodlight, mast  
mounting



Surface-mounted wall luminaire  
indirect medium/wide distribution



Recessed ceiling wallwasher



Surface-mounted wall luminaire  
indirect asymmetric  
medium distribution



Recessed ceiling floor  
wallwasher



Wall surface-mounted ceiling washer



Wall-recessed ceiling  
washer



Surface-mounted wall luminaire  
direct asymmetric narrow distribution



Symmetric floodlight/projector  
wall surface mounting  
narrow distribution



Surface-mounted wall luminaire  
direct asymmetric narrow distribution



Symmetric floodlight/projector  
wall surface mounting  
medium/wide distribution



Surface-mounted wall luminaire  
direct symmetric  
medium/wide distribution



Asymmetric floodlight  
wall surface mounting  
medium/wide distribution

### Certification symbols

	<p>Luminaires with the VDE symbol have been approved by the VDE inspection and certification institute. The basis for approval are the safety regulations applicable in Germany</p>		<p>Luminaire is suitable for use with railway platforms/tracks. The angle-dependent maximum luminous intensities correspond to the specifications of German Railways</p>		<p>Luminaires approved for explosion-hazard zone 2 according to Ex-guideline 94/9/EG. Explosion-hazard zone 2 according to ElexV 1996: areas where explosive atmospheres from gases, vapors or haze are not expected, but if they still occur then probably only seldomly and for a short time</p>
	<p>The ENEC symbol (European Norm Electrical Certification) is a European inspection and certification symbol for luminaires and electrical components within luminaires. It testifies to compliance with the European standards for safety and work practice. A 10 signifies that inspection was carried out by the VDE. The VDE symbol can be additionally attached to the luminaire</p>		<p>Luminaire tested for protection against flying balls according to the latest European standard EN 12193 (or DIN VDE 0710)</p>		<p>Luminaires approved for explosion-hazard zone 22 according to Ex-guideline 94/9/EG. Explosion-hazard zone 22 according to ElexV 1996: Areas where explosive atmospheres from whirled-up dust are not expected, but if they still occur then probably only seldom and for a short time</p>
	<p>Live parts are equipped with protective isolation in addition to the basis isolation. Connection of an earth conductor is not permitted unless a special terminal for through-wiring is integrated</p>		<p>Protection against electric shock is implemented with basis isolation and connection of all touchable metal components with the earth conductor</p>		<p>Luminaire tested for impact energy of 2.00 joules. IK07 designation according to EN 50102</p>
	<p>Protection against electric shock is based on the use of safety extra-low-voltage</p>		<p>Luminaires with the D symbol are according to EN 60 598-2-24 suitable for workplaces in danger of fire from dust or fibers. The luminaire, in addition to the D symbol requirement, also corresponds to VDS 2499 requirements with the specified material for the optical enclosure. The FF designation is still used due to its high level of familiarity. The requirements of the no longer valid VDE 0710-5 are complied to with the specified diffuser material and distances. A label in the luminaire informs about further characteristics</p>		<p>Luminaire tested for impact energy of 10.00 joules. IK09 designation according to EN 50102</p>
	<p>Successful vibration testing for verification of safety with vibration induced from earthquakes and comparable load cases (e.g. required for use in nuclear power plants). Test certificates on request</p>		<p>Luminaires with the D symbol are according to EN 60 598-2-24 suitable for workplaces in danger of fire from dust or fibers. The luminaire, in addition to the D symbol requirement, also corresponds to VDS 2499 requirements with the specified material for the optical enclosure. The FF designation is still used due to its high level of familiarity. The requirements of the no longer valid VDE 0710-5 are complied to with the specified diffuser material and distances. A label in the luminaire informs about further characteristics</p>		<p>Luminaire tested for impact energy of 20.00 joules. IK10 designation according to EN 50102</p>
	<p>Luminaire is suitable for max. temperatures deviating from EN 60 598. In compliance with EN 60 598, luminaires are designed for nominal ambient temperatures of +25°C. Partial operation at +35°C is possible</p>				

### Product technology/quality criteria

	<p>Safety and convenience package for protecting luminaire and for gentle lamp operation</p> <ul style="list-style-type: none"> <li>– Ignitor with digital automatic power disconnection</li> <li>– Ballast with thermal protection</li> <li>– Power reduction (ECO) with integral timer for lamp start at full load</li> </ul>		<p>Radio management for transmission of control commands in 433.42 MHz ISM band</p>		<p>The CE symbol only documents compatibility with European guidelines valid for the product. The CE designation is not an "approval seal" but a management designation expressing the free movement of products in the European domestic market according to designated industry products</p>
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### Product technology/quality criteria



DALI (Digital Adressable Lighting Interface) is an interface definition for controlling digitally dimmable ballasts. A maximum of 64 DALI ballasts can be operated on one control line. These can be grouped in a maximum of 16 overlapped groups. A maximum of 16 lighting scenes can be stored. The definition of the protocol is regulated in the appendix of EN 60929



Symbol for good industrial design. Products designated with the iF logo have been distinguished by the IndustrieForum Design Hanover for outstanding product design



Recycling symbol of the corrugated board industry



No application for our packaging (see Interseroh)



All luminaire packaging from Siteco Beleuchtungstechnik GmbH is accepted free of charge by the company of Interseroh and disposed of in an environmentally friendly way



Recycling symbol with material specification

### Product technology/quality criteria for light management systems



Movement detection



Daylight control



Infrared receiver



Push-button control



Detection range entered



Exiting of detection range

### Information symbols with installation instructions

**IP20**

Protection against touching active, live parts with fingers

**IP 44**

Protection against access into luminaire housing via a 1 mm thick wire and against ingress of splash water

**IP60**

Dust-tight luminaire

**IP23**

Protection against touching live parts with fingers and against the ingress of spray water (e.g. rain). According to EN 60598, luminaires are inspected in their specific installation situations. With indoor luminaires this is the normative recess box that protects against the ingress of water into the luminaire. This special protection can be recognized by the specification IPX3 "Lichtaustrittsöffnung/aperture"

**IP50**

Dust-protected luminaire

**IP65**

Dust-tight and water-jet protected luminaire

**IP54**

Dust and splash water-protected luminaire

**IP66**

Dustproof and protected against strong water jets. Note: With tunnel luminaires with the additional specification of 6 bars. The luminaire is tested with a pressure of 6 bars with a water jet nozzle according to RVS 09.02.41 Section 6.3.8

**IP40**

Protection against access into luminaire housing via a 1 mm thick wire

**IP55**

Dust and water jet-protected luminaire

**IP67**

Dustproof and protected against temporary immersion in water







**IP43**

Protection against access into luminaire housing via a 1 mm thick wire and against ingress of spray water


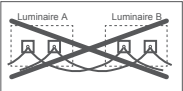



















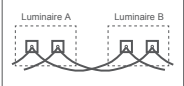


**Warnings**

	Caution, pay special attention		Lamp must be approved for use in "open" luminaires. ("open" luminaires also include luminaires with plastic enclosure or with plastic reflector)		A minimum distance (e.g. 0.5m here) to illuminated surfaces must be maintained
	Caution! Voltage, disconnect from power before opening		Hot surface e.g. in ballast area: only use suitable cables or observe suitable cable routing		The connection cable must not be subjected to tensile loads after installation
	Disconnect mains plug		Do not use countersunk screws for installation		Luminaire may only be installed in open ceiling cavities. Installation in noise/fire prevention boxes is impermissible
	Unplug mains connector before starting any maintenance work		Luminaire may only be mounted away from the hand area. This area consists of 2.5 m upwards and 1.25 m to the side and below from the stand location of the person		
	Do not touch		Note end mark/identification (no limit stop fitted)		The recessed luminaire is not suitable for covering with thermal insulating material.
	Breakable		Precise alignment must be ensured		After installation, luminaire must not be too near lower edge of unfinished ceiling otherwise function or safety is impaired. Notes on required distances in installation instructions
	Do not look at light source		Caution: the luminaire contains a conventional ballast with two power tapplings. With device replacement, correct clamping according to state of delivery must be observed		
	ESD (electrostatic discharge)		Luminaire is suitable for use in protected installations outdoors. It must not be exposed to outdoor weathering. X and Y are minimal dimensions for protruding over luminaire edge. Indoor luminaires are fundamentally unsuitable for use in unprotected installations outdoors		Recessed luminaire not suitable for direct fixing to normal, flammable surfaces (only suitable for fixing to non-flammable surfaces)
	Warning of danger to hands from e.g. crushing or sharp edges		Warning of hot lamp bulbs. Danger of burning exists with all lamps shortly after switching off		Surface-mountable luminaire not suitable for direct fixing to normal, flammable surfaces (only suitable for fixing to non-flammable surfaces)
	Warning of hot lamp bulbs. Danger of burning exists with all lamps shortly after switching off		Luminaire only suitable for operation with a cover glass		
	Luminaire only suitable for operation with a cover glass		Damaged protective covers must be replaced immediately. Operation with damaged cover not permissible		



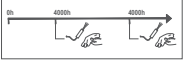


**Symbols**

	Sections of the installation instructions bearing this symbol refer to the condition on delivery		Luminaire is suitable for use indoors		Adjustment possibilities for lamp position described
	Luminaire is suitable for use indoors and in unprotected installations outdoors		Luminaire is suitable for use in unprotected installations outdoors		Adjustment possibilities for reflector position described




















## Symbols

	Lamp position horizontal		Luminaire not suitable for looping through		Unit of measure
	LED		Watt rating and number of lamps to be fitted		Weight unit
	Humidity, limitation		Circuit, pf-corrected		Windage area in shown projection without evaluation with air resistance coefficient (max. value is 1.2 according to EN 60598-2-3)
	Position of earth conductor		Control gear suitable for specified lamp rating		QR CODE
	Protective earth. Earthing of product in system, installation or device required for correct functionality, but not part of protection against electric shock		Cable not subjected to tensile load		Must not be cleaned with a damp cloth
	Protective earth connection		Replaceability (time period, cable designation), also see MA 243299		Special cleaning instruction for specific luminaire materials
	Capacitance of the pf correction capacitor		Further information in the installation instructions for accessory parts. Observe specifications of lamp manufacturers when fitting lamps		Cleaning with Hoover with suitable attachment nozzle
	Luminaire suitable for looping through		Information		At end of service life, luminaire must be recycled. For recycling companies see <a href="http://www.siteco.com">www.siteco.com</a> EAR number for Siteco: DE 84791082

## General information

	Wear protective gloves (avoid fingerprints)		Installation and maintenance only by duly qualified personnel		Specification of recommended cleaning intervals and processes (e.g. clean luminaire with water jet and soft lint-free cloth every 4000 hours)
	“Two-man mounting” recommended due to reasons of safety		Cleaning only with a soft lint-free cloth		

<b>LED</b>	LED white		<b>HIT-CE E27</b> Metal halide lamp with tubular bulb and ceramic burner, screw base		<b>HIT G12</b> Metal halide lamp with tubular bulb and quartz burner, plug-in base
<b>LED RGB</b>	Light emitting diodes RGB		<b>HIT-CE E40</b> Metal halide lamp with tubular bulb and ceramic burner, screw base		<b>HIT G22</b> Metal halide lamp with tubular bulb and quartz burner, suitable for hot re-ignition, plug-in base
	<b>HIE-CE-P E27</b> Metal halide lamp with elliptical bulb and ceramic burner, burst-proof, screw base		<b>HIT-CEs-Od E40</b> Metal halide lamp with tubular bulb and ceramic burner, screw base		<b>HIT GY22</b> Metal halide lamp with tubular bulb and quartz burner, suitable for hot re-ignition, plug-in base
	<b>HIE-C E27</b> Metal halide lamp with elliptical bulb and ceramic burner, screw base		<b>HIT-DE-CE RX7s</b> Metal halide lamp with tubular bulb and ceramic burner, double-ended		<b>HSE-I E27</b> High-pressure sodium vapor lamp with elliptical bulb, internal ignitor, screw base
	<b>HIE E27</b> Metal halide lamp with elliptical bulb and quartz burner, screw base		<b>HIT-DE-CE RX7s-24</b> Metal halide lamp with tubular bulb and ceramic burner, double-ended		<b>HSE E27</b> High-pressure sodium vapor lamp with elliptical bulb, screw base
	<b>HIE E40</b> Metal halide lamp with elliptical bulb and quartz burner, screw base		<b>HIT-DE Fc2</b> Metal halide lamp with tubular bulb and quartz burner, double-ended		<b>HSE E40</b> High-pressure sodium vapor lamp with elliptical bulb, screw base
	<b>HIPAR51 CE-P GX10</b> Metal halide lamp with reflector and ceramic burner, burst-proof, bayonet base		<b>HIT-DE Fc2</b> Metal halide lamp with tubular bulb and ceramic burner, double-ended		<b>HST-CRI GX12-1</b> High-pressure sodium vapor lamp with tubular bulb and ceramic burner, plug-in base
	<b>HIR111 CE-P GX8.5</b> Metal halide lamp with reflector and ceramic burner, burst-proof, bayonet base		<b>HIT-DE K12s-36 I=187</b> Metal halide lamp with quartz burner, double-ended		<b>HST-DE Fc2</b> High-pressure sodium vapor lamp with tubular bulb, double-ended
	<b>HIT-CE-P E27</b> Metal halide lamp with elliptical bulb and ceramic burner, burst-proof, screw base		<b>HIT-DE K12s-36 I=274</b> Metal halide lamp with quartz burner, double-ended		<b>HST-DE RX7s</b> High-pressure sodium vapor lamp with tubular bulb, double-ended
	<b>HIT-CE-P E40</b> Metal halide lamp with tubular bulb and ceramic burner, burst-proof, screw base		<b>HIT-DE RX7s</b> Metal halide lamp with tubular bulb and quartz burner, double-ended		<b>HST-DE RX7s-24</b> High-pressure sodium vapor lamp with tubular bulb, double-ended
	<b>HIT-CE-od PGZ12</b> Metal halide lamp with tubular bulb and ceramic burner, bayonet base		<b>HIT-TC-CE GU6.5</b> Metal halide lamp with tubular bulb and ceramic burner, bayonet base		<b>HST E27</b> High-pressure sodium vapor lamp with tubular bulb, screw base
	<b>HIT-CE G12</b> Metal halide lamp with tubular bulb and ceramic burner, plug-in base		<b>HIT-TC-CE G8.5</b> Metal halide lamp with tubular bulb and ceramic burner, plug-in base		<b>HST E40</b> High-pressure sodium vapor lamp with tubular bulb, screw base
	<b>HIT-CE G22</b> Metal halide lamp with tubular bulb and ceramic burner, suitable for hot re-ignition, plug-in base		<b>HIT-TC-CE GU8.5</b> Metal halide lamp with tubular bulb and ceramic burner, plug-in base		<b>T16-R 2GX13</b> Circular fluorescent lamp for ECG, plug-in base
	<b>HIT-CE GY22</b> Metal halide lamp with tubular bulb and ceramic burner, suitable for hot re-ignition, plug-in base		<b>HIT-TC-CE PGJ5</b> Metal halide lamp with tubular bulb and ceramic burner, bayonet base		<b>T16 G5</b> Fluorescent tube, d= 16mm, for ECG, double-ended
	<b>HIT-CE/S-od E27</b> Metal halide lamp with tubular bulb and ceramic burner, for HS ballast, screw base		<b>HIT E40</b> Metal halide lamp with tubular bulb and quartz burner, screw base		<b>T26 G13</b> Fluorescent tube, d= 26 mm, for LLCG or ECG, double-ended

	TC-DD GR8	Fluorescent lamp, loop-shaped for LLCG, plug-in base		QPAR51 GU10	High-voltage tungsten halogen lamp with reflector, bayonet base
	TC-DEL G24q-1	Twin double tube compact fluorescent lamp for ECG, plug-in base		A E27	High-voltage tungsten halogen lamp with elliptical bulb, screw base
	TC-DEL G24q-2	Twin double tube compact fluorescent lamp for ECG, plug-in base		IT E14	High-voltage incandescent lamp with tubular bulb, screw base
	TC-DEL G24q-3	Twin double tube compact fluorescent lamp for ECG, plug-in base		QT32 E27	High-voltage tungsten halogen lamp with tubular bulb, screw base
	TC-D G24d-1	Twin double tube compact fluorescent lamp for LLCG, plug-in base		QT-DE- 11/12 R7s	High-voltage tungsten halogen lamp with tubular bulb, double-ended
	TC-LEL 2G11	Twin tube compact fluorescent lamp for LLCG and ECG, plug-in base		QT12 GY6.35	Low-voltage tungsten halogen lamp with tubular bulb, plug-in base
	TC-SEL 2G7	Twin tube compact fluorescent lamp for ECG, plug-in base		QR-CBC 51/IRC GU5.3	Low-voltage tungsten halogen lamp with reflector, plug-in base
	TC-S G23	Twin tube compact fluorescent lamp for LLCG, plug-in base			
	TC-TELI GX24q-5	Triple double tube compact fluorescent lamp for higher ambient temperatures, for ECG, plug-in base			
	TC-TEL GX24q-1	Triple double tube compact fluorescent lamp for ECG, plug-in base			
	TC-TEL GX24q-3	Triple double tube compact fluorescent lamp for ECG, plug-in base			
	TC-TEL GX24q-4	Triple double tube compact fluorescent lamp for ECG, plug-in base			
	TC-T GX24d-1	Triple double tube compact fluorescent lamp for LLCG, plug-in base			
	TC-T GX24d-3	Triple double tube compact fluorescent lamp for LLCG, plug-in base			
	TCR-TSE GX53	Triple double tube reflector compact flat fluorescent lamp, integrated ECG			



## 4 New lamp technology with (compact) fluorescent lamps

Since the commercial launching of fluorescent lamps in the 1930s, these have been technically improved in a continuous fashion.

Improvements/modifications affected:

- color rendering
- light colors
- service life
- luminous flux
- temperature dependence of luminous flux
- efficiency
- construction forms
- dimming
- ballasts

Two current developments: with conventional fluorescent lamps, mercury in liquid or gas form is sealed in the lamp bulb. The mercury is excited to emit UV radiation by applying voltage to electrodes, and the UV radiation on the phosphorous material on the inside of the bulb is transformed to light.

This process strongly depends on temperature. The lamp wattage [W], luminous flux [lm] and luminous efficacy [lm/W] depend on mercury vapor pressure. At very low temperatures ( $<0^{\circ}\text{C}$ ), fluorescent lamps emit very low light quantities (e.g. 25% at  $0^{\circ}\text{C}$ ), the maximum lamp wattage is usually achieved between  $30^{\circ}\text{C}$  and  $35^{\circ}\text{C}$ , maximum luminous flux between  $35^{\circ}\text{C}$  and  $40^{\circ}\text{C}$  and maximum luminous efficacy between  $40^{\circ}\text{C}$  and  $45^{\circ}\text{C}$ . Above these temperatures, these values decrease.

Luminous flux decreases because the UV radiation emitted is absorbed again in the mercury vapor. The temperature at the coolest location in the bulb, the cold spot temperature, is essential for mercury vapor pressure.

### Amalgam lamps

Since the beginning of the 21st century, tubular fluorescent lamps and compact fluorescent lamps that use so-called amalgam technology have been available (e.g. OSRAM "CONSTANT").

With amalgam technology, an amalgam body (alloy of mercury with other metals) is additionally contained in the lamp bulb. This absorbs a part of the mercury and thus regulates the mercury vapor pressure. The result of this is that mercury vapor pressure and therefore luminous flux remains almost constant over a wider temperature range.

Tubular amalgam lamps already have a higher luminous flux than conventional fluorescent lamps at  $25^{\circ}\text{C}$ . Luminaires equipped with amalgam lamps usually have a higher luminaire light output ratio (factor up to 1.5). This effect is greater with higher temperatures in the luminaires. Amalgam lamps are also highly suitable for applications with lower ambient temperatures (e.g. road lighting, cold store lighting).

In principle, all normal lamps can be replaced with amalgam lamps of equal wattage and with the same bases. Amalgam lamps feature longer start-up behaviour than normal fluorescent lamps and are therefore not suitable for security lighting. The lamps light with a reddish hue in the start-up phase.

Amalgam lamps have different dimming behaviour to normal lamps and should therefore not be dimmed below 30% as the color otherwise shifts towards red. Please also observe the technical information from the lamp manufacturers.

**“ECO lamps”**

Recently, tubular fluorescent lamps and compact fluorescent lamps have been offered that are marketed as ECO lamps, e.g. OSRAM DULUX T/E HE, OSRAM T5 ES. These lamps in principle are constructed identically to normal lamps but the gas filling and phosphorous material have been improved.

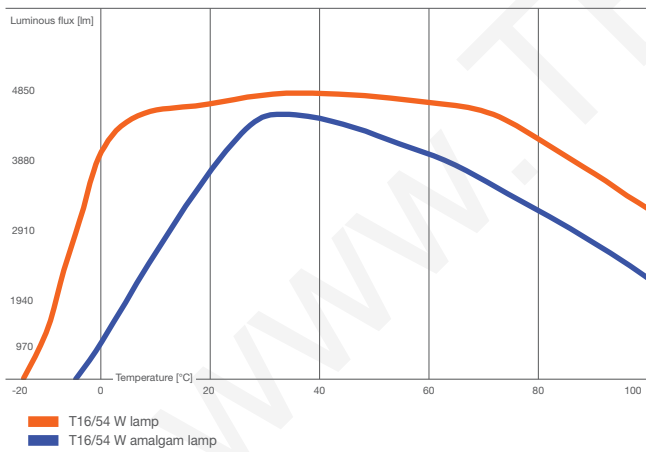
Temperature behaviour is almost identical to that of normal fluorescent lamps.

In principle, all normal fluorescent lamps can be replaced with ECO lamps that are intended for operation with the same ballast.

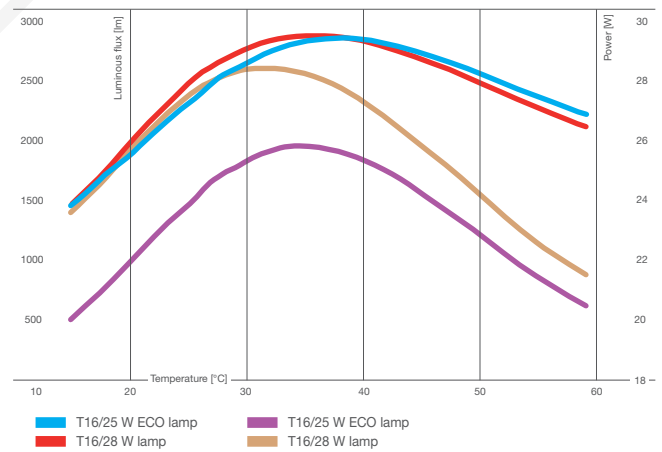
If these lamps are operated with current-controlled ballasts (this usually applies to all non-dimmable ECG), the connected load is reduced by an average of almost 10% with the same luminous flux. This, however, fluctuates depending on the type of luminaire and wattage.

If these lamps are operated with wattage-controlled ballasts (this usually applies to all ECG dimmable), the luminous flux is increased by an average of up to 10% with the same consumption in undimmed condition. This, however, fluctuates depending on the type of luminaire and wattage. ECO lamps (as with normal fluorescent lamps) are suitable for operation in luminaires where in operation the cold spot of the lamp is about 35 to 45°C, as here the maximum values for luminous flux (lm) and luminous efficacy (lm/W) are achieved. Please also observe the technical information from the lamp manufacturers.

**Comparison of the luminous flux of T16/54 W lamp with T16/54 W amalgam lamp**



**Comparison of the luminous flux and consumption of T16/28 W lamp with T16/25 W ECO lamp**



# 5 Lamp data

ZVEI	Wattage [watts]	Base	Luminous flux at 25°C [lm]	Light color	Color rendering	ILCOS	Manufacturer designation (usually OSRAM)
<b>Fluorescent tubes</b>							
T7	8	W4.3x8.5d	540	ww	2A	FDH-8/30/2A-L/P-W4.3	FM 8 W/730
T7	8	W4.3x8.5d	540	nw	2A	FDH-8/40/2A-L/P-W4.3	FM 8 W/740
T7	13	W4.3x8.5d	930	ww	2A	FDH-13/30/2A-L/P-W4.3	FM 13 W/730
T7	13	W4.3x8.5d	930	nw	2A	FDH-13/40/2A-L/P-W4.3	FM 13 W/740
T16	14	G5	1200	ww	1B	FDH-14/30/1B-L/P-G5-16/549	HE 14 W/830
T16	14	G5	1200	nw	1B	FDH-14/40/1B-L/P-G5-16/549	HE 14 W/840
T16	19	G5	1800	nw	1B	FDH-19/40/1B-L/P-G5-16/849	HE ES 19 W/840
T16	21	G5	1900	ww	1B	FDH-21/30/1B-L/P-G5-16/849	HE 21 W/830
T16	21	G5	1900	nw	1B	FDH-21/40/1B-L/P-G5-16/849	HE 21 W/840
T16	25	G5	2450	ww	1B	FDH-25/30/1B-L/P-G5-16/1150	HE ES 25 W/830
T16	25	G5	2450	nw	1B	FDH-25/40/1B-L/P-G5-16/1150	HE ES 25 W/840
T16	28	G5	2600	ww	1B	FDH-28/30/1B-L/P-G5-16/1149	HE 28 W/830
T16	28	G5	2600	nw	1B	FDH-28/40/1B-L/P-G5-16/1149	HE 28 W/840
T16	32	G5	3100	ww	1B	FDH-32/30/1B-L/P-G5-16/1450	HE ES 32 W/830
T16	32	G5	3100	nw	1B	FDH-32/40/1B-L/P-G5-16/1450	HE ES 32 W/840
T16	35	G5	3320	ww	1B	FDH-35/30/1B-L/P-G5-16/1449	HE 35 W/830
T16	35	G5	3320	nw	1B	FDH-35/40/1B-L/P-G5-16/1449	HE 35 W/840
T16	24	G5	1750	ww	1B	FDH-24/30/1B-L/P-G5-16/549	HO 24 W/830
T16	24	G5	1750	nw	1B	FDH-24/40/1B-L/P-G5-16/549	HO 24 W/840
T16	39	G5	3100	ww	1B	FDH-39/30/1B-L/P-G5-16/849	HO 39 W/830
T16	39	G5	3100	nw	1B	FDH-39/40/1B-L/P-G5-16/849	HO 39 W/840
T16	50	G5	4450	ww	1B	FDH-50/30/1B-L/P-G5-16/1150	HO ES 50W/830
T16	50	G5	4450	nw	1B	FDH-50/40/1B-L/P-G5-16/1150	HO ES 50W/840
T16	54	G5	4450	ww	1B	FDH-54/30/1B-L/P-G5-16/1149	HO 54 W/830
T16	54	G5	4450	nw	1B	FDH-54/40/1B-L/P-G5-16/1149	HO 54 W/840
T16	45	G5	4310	ww	1B	FDH-45/30/1B-L/P-G5-16/1450	HO ES 45W/830
T16	45	G5	4310	nw	1B	FDH-45/40/1B-L/P-G5-16/1450	HO ES 45W/840
T16	49	G5	4310	ww	1B	FDH-49/30/1B-L/P-G5-16/1449	HO 49 W/830
T16	49	G5	4310	nw	1B	FDH-49/40/1B-L/P-G5-16/1449	HO 49 W/840
T16	73	G5	6150	ww	1B	FDH-73/30/1B-L/P-G5-16/1450	HO ES 73 W/830
T16	73	G5	6150	nw	1B	FDH-73/40/1B-L/P-G5-16/1450	HO ES 73 W/840
T16	80	G5	6150	ww	1B	FDH-80/30/1B-L/P-G5-16/1449	HO 80 W/830
T16	80	G5	6150	nw	1B	FDH-80/40/1B-L/P-G5-16/1449	HO 80 W/840
T16-I	24	G5	1900	ww	1B	FDH-24/30/1B-L/P-G5-16/550	HO CONSTANT 24 W/830
T16-I	24	G5	1900	nw	1B	FDH-24/40/1B-L/P-G5-16/550	HO CONSTANT 24 W/840
T16-I	39	G5	3400	ww	1B	FDH-39/30/1B-L/P-G5-16/850	HO CONSTANT 39 W/830
T16-I	39	G5	3400	nw	1B	FDH-39/40/1B-L/P-G5-16/850	HO CONSTANT 39 W/840
T16-I	49	G5	4450	ww	1B	FDH-49/30/1B-L/P-G5-16/1450	HO CONSTANT 49 W/830
T16-I	49	G5	4450	nw	1B	FDH-49/40/1B-L/P-G5-16/1450	HO CONSTANT 49 W/840
T16-I	54	G5	4850	ww	1B	FDH-54/30/1B-L/P-G5-16/1150	HO CONSTANT 54 W/830
T16-I	54	G5	4850	nw	1B	FDH-54/40/1B-L/P-G5-16/1150	HO CONSTANT 54 W/840
T16-I	80	G5	6800	ww	1B	FDH-80/30/1B-L/P-G5-16/1450	HO CONSTANT 80 W/830
T16-I	80	G5	6800	nw	1B	FDH-80/40/1B-L/P-G5-16/1450	HO CONSTANT 80 W/840
T26	18	G13	1350	ww	1B	FD-18/30/1B-E-G13-26/590	L 18 W/830
T26	18	G13	1350	nw	1B	FD-18/40/1B-E-G13-26/590	L 18 W/840
T26	36	G13	3350	ww	1B	FD-36/30/1B-E-G13-26/1200	L 36 W/830
T26	36	G13	3350	nw	1B	FD-36/40/1B-E-G13-26/1200	L 36 W/840
T26	58	G13	5200	ww	1B	FD-58/30/1B-E-G13-26/1500	L 58 W/830
T26	58	G13	5200	nw	1B	FD-58/40/1B-E-G13-26/1500	L 58 W/840
<b>Compact fluorescent lamps</b>							
TC-S	9	G23	600	ww	1B	FSD-9/30/1B-I-G23	DULUX S 9 W/830
TC-S	9	G23	600	nw	1B	FSD-9/40/1B-I-G23	DULUX S 9 W/840
TC-S	11	G23	900	ww	1B	FSD-11/30/1B-I-G23	DULUX S 11 W/830
TC-S	11	G23	900	nw	1B	FSD-11/40/1B-I-G23	DULUX S 11 W/840
TC-SEL	11	2G7	900	ww	1B	FSD-11/30/1B-E-2G7	DULUX S/E 11 W/830
TC-SEL	11	2G7	900	nw	1B	FSD-11/40/1B-E-2G7	DULUX S/E 11 W/840
TC-D	13	G24d-1	900	ww	1B	FSQ-13/30/1B-I-G24d-1	DULUX D 13 W/830
TC-D	13	G24d-1	900	nw	1B	FSQ-13/40/1B-I-G24d-1	DULUX D 13 W/840
TC-DEL	18	G24q-2	1200	ww	1B	FSQ-18/30/1B-E-G24q-2	DULUX D/E 18 W/830
TC-DEL	18	G24q-2	1200	nw	1B	FSQ-18/40/1B-E-G24q-2	DULUX D/E 18 W/840
TC-DEL	26	G24q-3	1800	ww	1B	FSQ-26/30/1B-E-G24q-3	DULUX D/E 26 W/830
TC-DEL	26	G24q-3	1800	nw	1B	FSQ-26/40/1B-E-G24q-3	DULUX D/E 26 W/840
TC-T	26	GX24d-3	1800	ww	1B	FSM-26/30/1B-I-GX24d-3	DULUX T PLUS 26 W/830
TC-T	26	GX24d-3	1800	nw	1B	FSM-26/40/1B-I-GX24d-3	DULUX T PLUS 26 W/840
TC-TEL	26	GX24q-3	1800	ww	1B	FSMH-26/30/1B-GX24q-3	DULUX T/E PLUS 26 W/830
TC-TEL	26	GX24q-3	1800	nw	1B	FSMH-26/40/1B-GX24q-3	DULUX T/E PLUS 26 W/840
TC-TEL	32	GX24q-3	2400	ww	1B	FSMH-32/30/1B-GX24q-3	DULUX T/E PLUS 32 W/830
TC-TEL	32	GX24q-3	2400	nw	1B	FSMH-32/40/1B-GX24q-3	DULUX T/E PLUS 32 W/840
TC-TEL	42	GX24q-4	3200	ww	1B	FSMH-42/30/1B-GX24q-4	DULUX T/E PLUS 42 W/830
TC-TEL	42	GX24q-4	3200	nw	1B	FSMH-42/40/1B-GX24q-4	DULUX T/E PLUS 42 W/840
TC-TELI	26	GX24q-3	1800	ww	1B	FSM-26/30/1B-E-GX24q-3	DULUX T/E CONSTANT 26 W/830
TC-TELI	26	GX24q-3	1800	nw	1B	FSM-26/40/1B-E-GX24q-3	DULUX T/E CONSTANT 26 W/840
TC-TELI	32	GX24q-3	2400	ww	1B	FSM-32/30/1B-E-GX24q-3	DULUX T/E CONSTANT 32 W/830
TC-TELI	32	GX24q-3	2400	nw	1B	FSM-32/40/1B-E-GX24q-3	DULUX T/E CONSTANT 32 W/840
TC-TELI	42	GX24q-4	3200	ww	1B	FSM-42/30/1B-E-GX24q-4	DULUX T/E CONSTANT 42 W/830
TC-TELI	42	GX24q-4	3200	nw	1B	FSM-42/40/1B-E-GX24q-4	DULUX T/E CONSTANT 42 W/840
TC-TELI	57	GX24q-5	3900	ww	1B	FSMH-57/30/1B-GX24q-5	
TC-TELI	57	GX24q-5	3900	nw	1B	FSMH-57/40/1B-GX24q-5	
TC-LEL	18	2G11	1200	ww	1B	FSD-18/30/1B-E-2G11	DULUX L 18 W/830
TC-LEL	18	2G11	1200	nw	1B	FSD-18/40/1B-E-2G11	DULUX L 18 W/840
TC-LEL	24	2G11	1800	ww	1B	FSD-24/30/1B-E-2G11	DULUX L 24 W/830
TC-LEL	24	2G11	1800	nw	1B	FSD-24/40/1B-E-2G11	DULUX L 24 W/840
TC-LEL	36	2G11	2900	ww	1B	FSD-36/30/1B-E-2G11	DULUX L 36 W/830
TC-LEL	36	2G11	2900	nw	1B	FSD-36/40/1B-E-2G11	DULUX L 36 W/840
TC-LEL	40	2G11	3500	ww	1B	FSDH-40/30/1B-2G11	DULUX L 40 W/830
TC-LEL	40	2G11	3500	nw	1B	FSDH-40/40/1B-2G11	DULUX L 40 W/840
TC-LEL	55	2G11	4800	ww	1B	FSDH-55/30/1B-2G11	DULUX L 55 W/830
TC-LEL	55	2G11	4800	nw	1B	FSDH-55/40/1B-2G11	DULUX L 55 W/840
TC-LEL	80	2G11	6500	ww	1B	FSDH-80/30/1B-2G11	DULUX L 80 W/830
TC-LEL	80	2G11	6500	nw	1B	FSDH-80/40/1B-2G11	DULUX L 80 W/840
TC-LELI	40	2G11	3500	nw	1B	FSDH-40/40/1B-2G11	DULUX L CONSTANT 40 W/840
TC-LELI	55	2G11	4800	nw	1B	FSDH-55/40/1B-2G11	DULUX L CONSTANT 55 W/840
TC-LELI	80	2G11	6500	nw	1B	FSDH-80/40/1B-2G11	DULUX L CONSTANT 80 W/840a

ZVEI	Wattage [watts]	Base	Luminous flux at 25°C [lm]	Light color	Color rendering	ILCOS	Manufacturer designation (usually OSRAM)
<b>Circular fluorescent lamps</b>							
T16-R	40	2GX13	3400	ww	1B	FC-40/30/1B-E-2GX13-16	FC 40 W/830
T16-R	40	2GX13	3400	nw	1B	FC-40/40/1B-E-2GX13-16	FC 40 W/840
T16-R	55	2GX13	4200	ww	1B	FC-55/30/1B-E-2GX13-16	FC 55 W/830
T16-R	55	2GX13	4200	nw	1B	FC-55/40/1B-E-2GX13-16	FC 55 W/840
T16-RI	40	2GX13	3300	ww	1B	FSCH-40/30/1B-L/P-2GX13-16	PHILIPS MASTER TL5 Circular 40W/830
T16-RI	40	2GX13	3300	nw	1B	FSCH-40/40/1B-L/P-2GX13-16	PHILIPS MASTER TL5 Circular 40W/840
T16-RI	55	2GX13	4200	ww	1B	FSCH-55/30/1B-L/P-2GX13-16	PHILIPS MASTER TL5 Circular 55W/830
T16-RI	55	2GX13	4200	nw	1B	FSCH-55/40/1B-L/P-2GX13-16	PHILIPS MASTER TL5 Circular 55W/840
<b>Fluorescent lamps, loop-shaped</b>							
TC-DD	16	GR8	1050	ww	1B	FSS-16/27/1B-I-GR8	CFL SQUARE 16 W/827
TC-DD	16	GR8	1050	nw	1B	FSS-16/35/1B-I-GR8	CFL SQUARE 16 W/835
<b>Metal halide lamps with elliptical bulb and quartz burner</b>							
HIE m	70	E27	4700	ww	2A	MES/UB-70/30/2A-H-E27-55/141	HQI-E 70 W/WDL CO
HIE m	70	E27	5100	nw	1B	MES/UB-70/42/1B-H-E27-55/141	HQI-E 70 W/WDL CO
HIE m	250	E40	20500	nw	2B	ME-E250/37/2B-H 133/S-E40-88.9/216	HQI-E 250 W/N/SI CO
HIE/S m	250	E40	17000	tw	1A	MES/UB-250/52/1A-H-E40-91/226	HQI-E/P 250 W/D CO
HIE/S m	250	E40	18000	tw	1A	ME/UB-250/52/1A-H-E40-91/226	HQI-E 250/D PRO
HIE m	400	E40	36500	nw	2B	ME-400/37/2B-H 133/S-E40-117.5/297	HQI-E 400 W/N/SI CO
HIE/S m	400	E40	40000	nw	2B	ME/UB-400/38-44/2B-H-E40-122/290/H45	HQI-E 400 W/N CO
HIE/S m	400	E40	28000	tw	1A	MES/UB-400/47-52/1A-H-E40-122/290	HQI-E/P 400 W/D CO
HIE/S m	400	E40	34000	tw	1A	ME/UB-400/52-57/1A-H-E40-122/290	HQI-E 400 W/D PRO
HIE m	1000	E40	100000	nw	2B	ME-1000/38/2B-H-E40-165/380/H45	HQI-E 1000 W/N
<b>Metal halide lamps with elliptical bulb and quartz burner</b>							
HIE-CE m	35	E27	3800	ww	1B	MT/UB-35/30/1B-H-E27-71/156	HCI-ET 35 W/830 WDL PB
HIE-CE m	70	E27	7200	ww	1B	MT/UB-70/30/1B-H-E27-71/156	HCI-ET 70 W/830 WDL PB
HIE-CE-P m	35	E27	3200	ww	1B	MES/UB-35/30/1B-H-E27-57/144	HCI-E/P 35 W/830 WDL PB coated
HIE-CE-P m	70	E27	6700	ww	1B	MES/UB-70/30/1B-H-E27-57/144	HCI-E/P 70 W/830 WDL PB coated
<b>Metal halide lamps with tubular bulb and ceramic burner</b>							
HIT-TC-CE	20	GU6.5	1700	ww	1B	MT/UB-20/30/1B-H-GU6.5-13.3/30	HCI-TF 20 W/830 WDL PB
HIT-TC-CE	35	GU6.5	3600	ww	1A	MT/UB-35/30/1A-H-GU6.5-13.3/30	HCI-TF 35 W/930 WDL PB
HIT-TC-CE	20	G8.5	1700	ww	1B	MT/UB-20/30/1B-H-G8.5-17/85	HCI-TC 20 W/830 WDL PB
HIT-TC-CE	35	G8.5	3700	ww	1B	MT/UB-35/30/1B-H-G8.5-17/85	HCI-TC 35 W/830 WDL PB
HIT-TC-CE	35	G8.5	3100	ww	1A	MT/UB-35/30/1A-H-G8.5-17/85	HCI-TC 35 W/930 WDL PB Shoplight
HIT-TC-CE	35	G8.5	4000	ww	1A	MT/UB-35/30/1A-H-G8.5-17/85	HCI-TC 35 W/930 WDL PB Plus
HIT-TC-CE	35	G8.5	3500	nw	1A	MT/UB-35/42/1A-H-G8.5-17/85	HCI-TC 35 W/942 NDL PB
HIT-TC-CE	50	G8.5	5250	ww	1B	MT/UB-50/30/1B-H-G8.5-17/85	HCI-TC 50 W/830 WDL PB
HIT-TC-CE	50	G8.5	5400	ww	1A	MT/UB-50/30/1A-H-G8.5-17/85	HCI-TC 50 W/930 WDL PB Plus
HIT-TC-CE	70	G8.5	7200	ww	1B	MT/UB-70/30/1B-H-G8.5-17/85	HCI-TC 70 W/830 WDL PB
HIT-TC-CE	70	G8.5	6800	ww	1A	MT/UB-70/30/1A-H-G8.5-17/85	HCI-TC 70 W/930 WDL PB Shoplight
HIT-TC-CE	70	G8.5	7700	ww	1A	MT/UB-70/30/1A-H-G8.5-17/85	HCI-TC 70 W/930 WDL PB Plus
HIT-TC-CE	70	G8.5	6800	nw	1A	MT/UB-70/42/1A-H-G8.5-17/85	HCI-TC 70 W/942 NDL PB
HIT-CE c	35	G12	3700	ww	1B	MT/UB-35/30/1B-H-G12-20/90	HCI-T 35 W/830 WDL PB
HIT-CE c	35	G12	3100	ww	1A	MT/UB-35/30/1A-H-G12-20/90	HCI-T 35 W/930 WDL PB Shoplight
HIT-CE c	35	G12	4000	ww	1A	MT/UB-35/30/1A-H-G12-20/90	HCI-T 35 W/930 WDL PB Plus
HIT-CE c	35	G12	3400	nw	1A	MT/UB-35/42/1A-H-G12-20/90	HCI-T 35 W/942 NDL PB
HIT-CE c	50	G12	5250	ww	1B	MT/UB-50/30/1B-H-G12-20/90	HCI-T 50 W/830 WDL PB
HIT-CE c	50	G12	5400	ww	1A	MT/UB-50/30/1A-H-G12-20/90	HCI-T 50 W/930 WDL PB Plus
HIT-CE c	70	G12	7400	ww	1B	MT/UB-70/30/1B-H-G12-20/90	HCI-T 70 W/830 WDL PB
HIT-CE c	70	G12	6800	ww	1A	MT/UB-70/30/1A-H-G12-20/90	HCI-T 70 W/930 WDL PB Shoplight
HIT-CE c	70	G12	7800	ww	1A	MT/UB-70/30/1A-H-G12-20/100	HCI-T 70 W/930 WDL PB Plus
HIT-CE c	70	G12	6800	nw	1A	MT/UB-70/42/1A-H-G12-20/90	HCI-T 70 W/942 NDL PB
HIT-CE c	100	G12	10000	ww	1B	MT/UB-100/30/1B-H-G12-20/100	HCI-T 100 W/830 WDL PB
HIT-CE c	100	G12	10500	nw	1A	MT/UB-100/42/1A-H-G12-20/100	HCI-T 100 W/942 NDL PB
HIT-CE c	150	G12	15100	ww	1B	MT/UB-150/30/1B-H-G12-26/100	HCI-T 150 W/830 WDL PB
HIT-CE c	150	G12	14700	nw	1A	MT/UB-150/42/1A-H-G12-26/100	HCI-T 150 W/942 NDL PB
HIT-CE-od c	45	PGZ12	4950	ww	2B	MT-45/628-H-PGZ12-20/132	
HIT-CE-od c	60	PGZ12	7200	ww	2A	MT-60/728-H-PGZ12-20/132	
HIT-CE-od c	60	PGZ12	7020	nw	1B	MT-60/840-H-PGZ12-20/132	
HIT-CE-od c	90	PGZ12	10800	ww	2A	MT-90/728-H-PGZ12-20/143	
HIT-CE-od c	90	PGZ12	10350	nw	1B	MT-90/840-H-PGZ12-20/143	
HIT-CE-od c	140	PGZ12	16500	ww	2A	MT-140/728-H-PGZ12-20/150	
HIT-CE-od c	140	PGZ12	16100	nw	1B	MT-140/840-H-PGZ12-20/150	
HIT-CE/S c	250	G22	27000	ww	1A	MT/UB-250/30/1A-H-G22-34/175	HCI-TM 250 W/930 WDL PB
HIT-CE/S c	250	G22	26000	nw	1A	MT/UB-250/42/1A-H-G22-34/175	HCI-TM 250 W/942 NDL PB
HIT-CE/S c	400	G22	41000	ww	1A	MT/UB-400/30/1A-H-G22-34/175	HCI-TM 400 W/930 WDL PB
HIT-CE/S c	400	G22	40000	nw	1A	MT/UB-400/42/1A-H-G22-34/175	HCI-TM 400 W/942 NDL PB
HIT-CE/S-od c	70	E27	7200	ww	1B	MT/UB-70/30/1B-H-E27-32/155	HCI-TT 70 W/830 WDL
HIT-CE/S-od c	70	E27	6950	nw	1B	MT/UB-70/42/1B-H-E27-32/155	HCI-TT 70 W/942 NDL PB
HIT-CE/S-od c	100	E40	10600	ww	1B	MT/UB-100/30/1B-H-E40-47/204	HCI-TT 100 W/830 WDL
HIT-CE/S-od c	150	E40	15700	ww	1B	MT/UB-150/30/1B-H-E40-47/210	HCI-TT 150 W/830 WDL
HIT-CE/S-od c	150	E40	15600	nw	1A	MT/UB-150/42/1A-H-E40-47/210	HCI-TT 150 W/942 NDL
HIT-CE/S-od c	250	E40	27700	ww	1B	MT/UB-250/30/1B-H-E40-47/226	HCI-TT 250 W/830 WDL
HIT-CE/S-od c	250	E40	26100	nw	1A	MT/UB-250/42/1A-H-E40-47/226	HCI-TT 250 W/942 NDL PB
HIT-DE-CE	70	RX7s	7000	ww	1B	MD/UB-70/30/1B-H-RX7s-22/114,2/H	HCI-TS 70 W/830 WDL PB
HIT-DE-CE	70	RX7s	6700	nw	1A	MD/UB-70/42/1A-H-RX7s-22/114,2/H	HCI-TS 70 W/942 NDL PB
HIT-DE-CE	150	RX7s-24	15000	ww	1B	MD/UB-150/30/1B-H-RX7s-24-25/132/H	HCI-TS 150 W/830 WDL PB
HIT-DE-CE	150	RX7s-24	14800	nw	1A	MD/UB-150/42/1A-H-RX7s-24-25/132/H	HCI-TS 150 W/942 NDL PB
<b>Metal halide lamps with tubular bulb and quartz burner</b>							
HIT/S c	250	E40	19000	tw	1A	MT/UB-250/52/1A-H-E40-46/225	HQI-T 250 W/D PRO
HIT/S c	250	E40	19000	nw	2B	MT-250/37/2B-H 133/S-E40-57.2/248	HQI-T 250 W/N/SI
HIT/S c	400	E40	40000	nw	2B	MT/UB-400/35-40/2B-H-E40-46/273/p45	HQI-T 400 W/N
HIT/S c	400	E40	33000	nw	2B	MT-400/37/2B-H 133/S-E40-57.2/248	HQI-T 400 W/N/SI
HIT/S c	400	E40	34000	tw	1A	MC/UB-400/52-59/1A-H-E40-62/285	HQI-T 400 W/D PRO
HIT/S c	600	G22	58000	tw	1A	MT/UB-600/60/1A-H-G22-34/188	HQI-TM 600 W/960 D
HIT c	1000	G22	97000	tw	1A	MT/UB-1000/60/1A-H-G22-38/188	HQI-TM 1000 W/960 D
HIT c	1000	E40	110000	nw	2B	MT-1000/35/2B-H-E40-76/345/P30	HQI-T 1000 W/N
HIT c	1000	E40	85000	tw	1A	MT-1000/72/1A-H-E40-76/345/P30	HQI-T 1000 W/D
HIT-DE-h45	250	Fc2	22000	ww	1B	MD/UB-250/32/1B-H-Fc2-25/163/P45	HQI-TS 250 W/WDL
HIT-DE-h45	250	Fc2	20000	nw	1B	MD/UB-250/42/1B-H-Fc2-25/163/P45	HQI-TS 250 W/WDL
HIT-DE-h45	250	Fc2	21500	tw	1A	MD/UB-250/51/1A-H-Fc2-25/163/P45	HQI-TS 250 W/D UVS
HIT-DE/S-h45	400	Fc2	36000	nw	1B	MD/UB-400/42/1B-H-Fc2-31/206/P45	HQI-TS 400 W/WDL
HIT-DE/S-h45	400	Fc2	35000	tw	1A	MD/UB-400/52-56/1A-H-Fc2s-31/206/p45	HQI-TS 400 W/D
HIT-DE-h15 I-187	1000	K12s-36	90000	nw	1B	MN-1000/44/1B-H-CABLE LUG-36/187/P15	HQI-TS 1000 W/WDL UVS
HIT-DE-h15 I-187	1000	K12s-36	90000	tw	1B	MN-1000/61/1B-H-CABLE LUG-36/187/p15/s15	HQI-TS 1000 W/D UVS
HIT-DE-h15 I-187	2000	K12s-36	215000	nw	1A	MN-2000/44/1A-H-CABLE LUG-36/187/p15	HQI-TS 2000 W/WDL/S
HIT-DE-h15 I-187	2000	K12s-36	210000	tw	1A	MN-2000/61/1A-E-CABLE LUG-36/187/p15	HQI-TS 2000 W/D/S
HIT-DE-h15 I-187	2000	K12s-36	230000	tw	1B	MN-2000/60/1B-E-CABLE LUG-36/187/P15	HQI-TS 2000 W/D/S/HF
HIT-DE-h15 I-274	2000	K12s-36	230000	nw	2B	MN-2000/42/2B-E-CABLE LUG-36/274/P15	HQI-TS 2000 W/N/L

ZVEI	Wattage [watts]	Base	Luminous flux at 25°C [lm]	Light color	Color rendering	ILCOS	Manufacturer designation (usually OSRAM)
<b>High-pressure sodium vapor lamps with elliptical bulb</b>							
HSE-I	50	E27	3500	ww	4	SE-50/20/4-H/I-E27-71/156	NAV-E 50 W/I
HSE-I	70	E27	5600	ww	4	SE-70/20/4-H/I-E27-71/156	NAV-E 70 W/I
HSE-MF	50	E 27	3800	ww	4	SE-50/20/4-H-E27-71/156	NAV-E 50 W SUPER 4Y
HSE-MF	70	E 27	6300	ww	4	SE-70/20/4-H-E27-71/156	NAV-E 70 W SUPER 4Y
HSE-MF	70	E 27	6300	ww	4	SE-70/20/4-H/SL-E27-71/156	NAV-E 70 W SUPER 6Y
HSE-MF	100	E40	10200	ww	4	SE-100/20/4-H-E40-76/183	NAV-E 100 W SUPER 4Y
HSE-MF	100	E40	10200	ww	4	SE-100/20/4-H-E40-75/186	NAV-E 100 W SUPER 6Y
HSE-MF	150	E40	17000	ww	4	SE-150/20/4-H-E40-91/226	NAV-E 150 W SUPER 4Y
HSE-MF	150	E40	17000	ww	4	SE-150/20/4-H/SL-E40-91/226	NAV-E 150 W SUPER 6Y
HSE-MF	250	E40	31100	ww	4	SE-250/20/4-H-E40-91/226	NAV-E 250 W SUPER 4Y
HSE-MF	400	E40	55500	ww	4	SE-400/20/4-H-E40-122/290	NAV-E 400 W SUPER 4Y
HSE	1000	E40	128000	ww	4	SE-1000/20/4-H-E40-165/370	NAV-E 1000 W
<b>High-pressure sodium vapor lamps with tubular bulb</b>							
HST-MF	50	E27	4200	ww	4	ST-50/20/4-H-E27-38/156	NAV-T 50 W SUPER 4Y
HST-MF	70	E27	6600	ww	4	ST-70/20/4-H-E27-38/156	NAV-T 70 W SUPER 4Y
HST-MF	100	E40	10700	ww	4	ST-100/20/4-H-E40-47/210	NAV-T 100 W SUPER 4Y
HST-MF	150	E40	17500	ww	4	ST-150/20/40-H-E40-47/210	NAV-T 150 W SUPER 4Y
HST-MF	250	E40	33200	ww	4	ST-250/20/4-H-E40-47/257	NAV-T 250 W SUPER 4Y
HST-MF	400	E40	56500	ww	4	ST-400/20/4-H-E40-47/285	NAV-T 400 W SUPER 4Y
HST-MF	600	E40	90000	ww	4	ST-600/20/4-H-E40-47/285	NAV-T 600 W SUPER 4Y
HST	1000	E40	130000	ww	4	ST-1000/20/4-H-E40-66/355	NAV-T 1000 W 230 V
HST-DE-MF-h45	70	RX7s	6600	ww	4	SD-70/20/4-H-RX7s-20/114,2/P45	NAV-TS 70 W SUPER 4Y
HST-DE-MF-h45	150	RX7s-24	15000	ww	4	SD-150/20/4-H-RX7s24-23/132/P45	NAV-TS 150 W SUPER 4Y
HST-DE-h45	250	Fc2	28000	ww	4	SD-250/20/4-H-Fc2-23/206/P45	NAV-TS 250 W
HST-DE-h45	400	Fc2	49000	ww	4	SD-400/20/4-H-Fc2-23/206/P45	NAV-TS 400 W
HST-CRI	50	GX12-1	2400	ww	1B	STH-50/25/1B-GX12-1	
HST-CRI	100	GX12-1	4900	ww	1B	STH-100/25/1B-GX12-1	
<b>Low-voltage tungsten halogen lamps with tubular bulb</b>							
QT12-Uvr-ax 12V	25	GY6.35	500	ww	1A	HSGST/C/UBIB-25-12-GY6.35-12/30	HALOSTAR ECO 25 W 12 V
QT12-Uvr-ax 12V	35	GY6.35	600	ww	1A	HSGST/C/UB-35-12-GY6.35-12/30	HALOSTAR 35 W 12 V
QT12-Uvr-ax 12V	35	GY6.35	860	ww	1A	HSGS/C/AXUBIB-35-12-GY6.35-12/30	HALOSTAR ECO 35 W 12 V
QT12-Uvr-ax 12V	50	GY6.35	720	ww	1A	HSGST/C/UB-50-12-GY6.35-12/30	HALOSTAR 50 W 12 V
QT12-Uvr-ax 12V	50	GY6.35	1180	ww	1A	HSGS/C/AXUBIB-50-12-GY6.35-12/30	HALOSTAR ECO 50 W 12 V
QT12-Uvr-ax 12V	60	GY6.35	1650	ww	1A	HSGST/UB/UI-65-12-GY6.35	HALOSTAR ECO 60 W 12 V
QT-DE12	48	R7s	750	ww	1A	HDG-48-230-R7s-74,9	HALOLINE ECO 48 W 230 V
QT-DE12	80	R7s	1400	ww	1A	HDG-80-230-R7s-74,9	HALOLINE ECO 80 W 230 V
QT-DE12 (I-74,9)	120	R7s	2250	ww	1A	HDG-120-230-R7s-74,9	HALOLINE ECO 120 W 230 V
QT-DE12 (I-114,2)	120	R7s	2250	ww	1A	HDG-120-230-R7s-114,2	HALOLINE ECO 120 W 230 V
QT-DE12	160	R7s	3100	ww	1A	HDG-160-230-R7s-114,2	HALOLINE ECO SST 160 W 230 V
QT-DE12	230	R7s	5000	ww	1A	HDG-230-230-R7s-114,2	HALOLINE ECO 230 W 230 V
QT-DE12	400	R7s	9000	ww	1A	HDG-400-230-R7s-114,2	HALOLINE ECO 400 W 230 V
QT-DE12-h15	750	R7s	16500	ww	1A	HDG-750-230-R7s-191,1	HALOLINE 750 W 230 V
QT-DE12-h15	1000	R7s	22000	ww	1A	HDG-1000-230-R7s-191,1	HALOLINE 1000 W 230 V

Please note: Subject to alteration. The list represents a selection from manufacturers' lamp ranges. It is the responsibility of the user to ascertain suitability of lamps for luminaires.





## 6 Information on the energy consumption designation

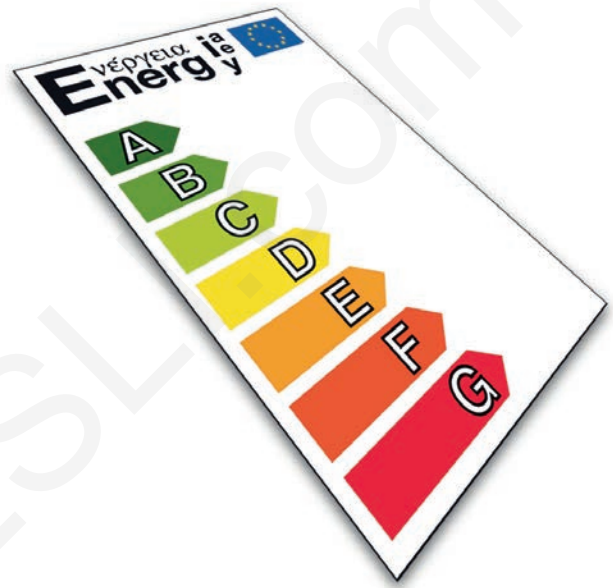
The European Energy Label is being modified step by step or has been newly introduced since 2011 for various electrical devices. Today, it is already applicable for cold stores and freezers, washing machines, dishwashers, air conditioning devices, dryers and televisions. From 1.3.2014, the European directive also applies to luminaires sold to end consumers (Directive 874/2012/EU).

“Luminaire” here designates: a device for the distribution, filtering or conversion of light transferred from one or several lamps, all components required for accommodating, fixing and protecting lamps and auxiliary elements if required, together with equipment for power connection.

“Light sources” are: incandescent lamps, fluorescent lamps, high-pressure discharge lamps, LED lamps or LED modules.

“End consumers” specify people purchasing or with an intention to purchase an electric lamp or luminaire for purposes not applying to their commercial, business, trade or professional activity.

Luminaires fulfilling these criteria must be labelled to inform customers concerning with which compatible lamps of which energy efficiency classes the luminaire can be operated. Luminaires themselves, however, never have an energy efficiency class.



The manufacturers of luminaires are thus liable to make relevant information for the following purposes available:


- any form of advertising
- any form of technical product marketing
- for official tender texts
- for binding tenders


This can be implemented with the Energy Label or in pure text form.


If the luminaire is made available at a POS, the corresponding Energy Label must be made available for free to dealers in electronic form.

More details at [www.osram.com](http://www.osram.com)




### Symbols in the tables:




 Energy efficiency class of compatible light sources




 Energy efficiency class of included light sources




 Energy efficiency class of included LED modules






Product name	Order no. OSRAM	Order no. Siteco				Replaceability LED module
AQUALED 2 L I 830 CG 10°	4008321988898	0XA97371WE100			A++, A+, A	non-replaceable
AQUALED 2 L I 830 CG 36°	4008321988904	0XA97371WB100			A++, A+, A	non-replaceable
AQUALED 2 L I 830 SG 10°	4008321988973	0XA97371WE200			A++, A+, A	non-replaceable
AQUALED 2 L I 830 SG 36°	4008321988980	0XA97371WB200			A++, A+, A	non-replaceable
AQUALED 2 L I 840 CG 10°	4008321988911	0XA97371NE100			A++, A+, A	non-replaceable
AQUALED 2 L I 840 CG 36°	4008321988928	0XA97371NB100			A++, A+, A	non-replaceable
AQUALED 2 L I 840 SG 10°	4008321988997	0XA97371NE200			A++, A+, A	non-replaceable
AQUALED 2 L I 840 SG 36°	4008321989000	0XA97371NB200			A++, A+, A	non-replaceable
AQUALED 2 M 230 V 830	4008321988836	0XA97271WD200			A++, A+, A	non-replaceable
AQUALED 2 M 230 V 840	4008321988843	0XA97271ND200			A++, A+, A	non-replaceable
AQUALED 2 M 230 V B	4008321988850	0XA97271BD200			A++, A+, A	non-replaceable
AQUALED 2 M 24 V 830	4008321988805	0XA97201WD200			A++, A+, A	non-replaceable
AQUALED 2 M 24 V 840	4008321988812	0XA97201ND200			A++, A+, A	non-replaceable
AQUALED 2 M 24 V B	4008321988829	0XA97201BD200			A++, A+, A	non-replaceable
AQUALED 2 S 230 V 830	4008321988775	0XA97171WD200			A++, A+, A	non-replaceable
AQUALED 2 S 230 V 840	4008321988782	0XA97171ND200			A++, A+, A	non-replaceable
AQUALED 2 S 230 V B	4008321988799	0XA97171BD200			A++, A+, A	non-replaceable
AQUALED 2 S 24 V 830	4008321988744	0XA97101WD200			A++, A+, A	non-replaceable
AQUALED 2 S 24 V 840	4008321988751	0XA97101ND200			A++, A+, A	non-replaceable
AQUALED 2 S 24 V B	4008321988768	0XA97101BD200			A++, A+, A	non-replaceable
AQUALED 2 XL I 830 CG 10°	4008321989055	0XA97471WE100			A++, A+, A	non-replaceable
AQUALED 2 XL I 830 CG 36°	4008321989062	0XA97471WB100			A++, A+, A	non-replaceable
AQUALED 2 XL I 830 SG 10°	4008321989130	0XA97471WE200			A++, A+, A	non-replaceable
AQUALED 2 XL I 830 SG 36°	4008321989147	0XA97471WB200			A++, A+, A	non-replaceable
AQUALED 2 XL I 840 CG 10°	4008321989079	0XA97471NE100			A++, A+, A	non-replaceable
AQUALED 2 XL I 840 CG 36°	4008321989086	0XA97471NB100			A++, A+, A	non-replaceable
AQUALED 2 XL I 840 SG 10°	4008321989154	0XA97471NE200			A++, A+, A	non-replaceable
AQUALED 2 XL I 840 SG 36°	4008321989161	0XA97471NB200			A++, A+, A	non-replaceable
AQUALINE T5 RTP/R 1X24 W	4008321173744	OLS60971Y	A+, A			
AQUALINE T5 RTP/R 1X54 W	4008321173751	OLS60971J	A+, A			
AQUALINE T5 RTP/R 1X80 W	4008321173768	OLS60971X	A+, A			
AQUALINE T5 RTP/R 2X54 W	4008321173799	OLS60972J	A+, A			
AQUALINE T5 RTP/R 2X80 W	4008321173829	OLS60973X	A+, A			
ARKTIKA-P LED 3000 K	4008321867704	OMB2512L45830			A++, A+, A	non-replaceable
ARKTIKA-P LED 4000 K	4008321867698	OMB2512L45840			A++, A+, A	non-replaceable
ARKTIKA-P LED D	4052899078741	OMB251DL45830			A++, A+, A	non-replaceable
ARKTIKA-P LED D	4052899078758	OMB251DL45840			A++, A+, A	non-replaceable
CALYX SPOT I Single	4052899908475	OMC8617155827C			A++, A+, A	non-replaceable
CALYX SPOT I Single Flex	4052899908482	OMC8617155825CF			A++, A+, A	non-replaceable
CALYX SPOT I Duo	4052899908499	OMC7617210827C			A++, A+, A	non-replaceable
CALYX SPOT I Triple	4052899908505	OMC7617315827C			A++, A+, A	non-replaceable
CALYX SPOT I Quadro	4052899908512	OMC7617420827C			A++, A+, A	non-replaceable
CB90, 1x26W, TCT, LLCG, TSG, rec	4039806246349	5LA90011LA100	A, B, C, D, E			
CL-Bollard120, LED, ECG, PC	4050737462073	5AA441512N			A++, A+, A	non-replaceable
CL-Bollard120, LED, ECG, PC	4050737462097	5AA441512W			A++, A+, A	non-replaceable
CL-Bollard120, LED, ECG, PC	4050737462110	5AA441522N			A++, A+, A	non-replaceable
CL-Bollard120, LED, ECG, PC	4050737462134	5AA441522W			A++, A+, A	non-replaceable
CL-Bollard30, LED, ECG, PC	4050737461830	5AA411512N			A++, A+, A	non-replaceable
CL-Bollard30, LED, ECG, PC	4050737461854	5AA411512W			A++, A+, A	non-replaceable
CL-Bollard30, LED, ECG, PC	4050737461878	5AA411522N			A++, A+, A	non-replaceable
CL-Bollard30, LED, ECG, PC	4050737461892	5AA411522W			A++, A+, A	non-replaceable
CL-Bollard60, LED, ECG, PC	4050737461915	5AA421512N			A++, A+, A	non-replaceable
CL-Bollard60, LED, ECG, PC	4050737461939	5AA421512W			A++, A+, A	non-replaceable
CL-Bollard60, LED, ECG, PC	4050737461953	5AA421522N			A++, A+, A	non-replaceable
CL-Bollard60, LED, ECG, PC	4050737461977	5AA421522W			A++, A+, A	non-replaceable
CL-Bollard90, LED, ECG, PC	4050737461991	5AA431512N			A++, A+, A	non-replaceable
CL-Bollard90, LED, ECG, PC	4050737462011	5AA431512W			A++, A+, A	non-replaceable
CL-Bollard90, LED, ECG, PC	4050737462035	5AA431522N			A++, A+, A	non-replaceable
CL-Bollard90, LED, ECG, PC	4050737462059	5AA431522W			A++, A+, A	non-replaceable
CL-Ceiling10MIDI, LED, ECG, TSG, surf	4050737462318	5AA620511N			A++, A+, A	non-replaceable

Product name	Order no. OSRAM	Order no. Siteco				Replaceability LED module
CL-Ceiling10MIDI,LED,ECG,TSG,surf	4050737461496	5AA620511W			A++, A+, A	non-replaceable
CL-Ceiling10MINI,LED,ECG,TSG,surf	4050737461472	5AA610501N			A++, A+, A	non-replaceable
CL-Ceiling10MINI,LED,ECG,TSG,surf	4050737462431	5AA610501W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737463827	5AA162506N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737463841	5AA162506W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737465524	5AA163506N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737463865	5AA163506W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737463889	5AA164506N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737463902	5AA164506W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464046	5AA262506N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464060	5AA262506W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464084	5AA262516N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464107	5AA262516W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464121	5AA263506N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464145	5AA263506W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464169	5AA263516N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464183	5AA263516W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464206	5AA264506N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464220	5AA264506W			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464244	5AA264516N			A++, A+, A	non-replaceable
CL-Linear60,LED,ECG,TSG,surf	4050737464268	5AA264516W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737463926	5AA172506N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737463940	5AA172506W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737463964	5AA173506N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737463988	5AA173506W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464008	5AA174506N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464022	5AA174506W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464282	5AA272506N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464305	5AA272506W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464329	5AA272516N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464343	5AA272516W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464367	5AA273506N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464701	5AA273506W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464381	5AA273516N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464404	5AA273516W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464428	5AA274506N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464442	5AA274506W			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464466	5AA274516N			A++, A+, A	non-replaceable
CL-Linear90,LED,ECG,TSG,surf	4050737464480	5AA274516W			A++, A+, A	non-replaceable
CL-Spotlight10,LED,ECG,TSG,surf	4050737462332	5AA322503N			A++, A+, A	non-replaceable
CL-Spotlight10,LED,ECG,TSG,surf	4050737462356	5AA322503NE			A++, A+, A	non-replaceable
CL-Spotlight10,LED,ECG,TSG,surf	4050737462370	5AA322503W			A++, A+, A	non-replaceable
CL-Spotlight10,LED,ECG,TSG,surf	4050737462394	5AA322503WE			A++, A+, A	non-replaceable
CL-Wall10MAXI,LED,ECG,TSG,surf	4050737462776	5AA530503N			A++, A+, A	non-replaceable
CL-Wall10MAXI,LED,ECG,TSG,surf	4050737462752	5AA530503W			A++, A+, A	non-replaceable
CL-Wall10MAXI,LED,ECG,TSG,surf	4050737462813	5AA530513N			A++, A+, A	non-replaceable
CL-Wall10MAXI,LED,ECG,TSG,surf	4050737462790	5AA530513W			A++, A+, A	non-replaceable
CL-Wall10MAXI,LED,ECG,TSG,surf	4050737462738	5AA530523N			A++, A+, A	non-replaceable
CL-Wall10MAXI,LED,ECG,TSG,surf	4050737462714	5AA530523W			A++, A+, A	non-replaceable
CL-Wall10MIDI,LED,ECG,TSG,surf	4050737462653	5AA520501N			A++, A+, A	non-replaceable
CL-Wall10MIDI,LED,ECG,TSG,surf	4050737462639	5AA520501W			A++, A+, A	non-replaceable
CL-Wall10MIDI,LED,ECG,TSG,surf	4050737462691	5AA520511N			A++, A+, A	non-replaceable
CL-Wall10MIDI,LED,ECG,TSG,surf	4050737462677	5AA520511W			A++, A+, A	non-replaceable
CL-Wall10MIDI,LED,ECG,TSG,surf	4050737462615	5AA520521N			A++, A+, A	non-replaceable
CL-Wall10MIDI,LED,ECG,TSG,surf	4050737462592	5AA520521W			A++, A+, A	non-replaceable
CL-Wall10MINI,LED,ECG,TSG,surf	4050737462530	5AA510501N			A++, A+, A	non-replaceable
CL-Wall10MINI,LED,ECG,TSG,surf	4050737462516	5AA510501W			A++, A+, A	non-replaceable
CL-Wall10MINI,LED,ECG,TSG,surf	4050737462578	5AA510511N			A++, A+, A	non-replaceable
CL-Wall10MINI,LED,ECG,TSG,surf	4050737462554	5AA510511W			A++, A+, A	non-replaceable
CW91,1x13W,TCD,LLCG,TSG,rec ALU	4039806206985	5LA91111FA308			A, B, C, D, E	

Product name	Order no. OSRAM	Order no. Siteco				Replaceability LED module
CW91,1x13W,TCDD,LLCG,TSG,rec	4039806206886	5LA91011FA300	A, B, C, D, E			
CW91,1x16W,TCDD,LLCG,TSG,rec	4039806207005	5LA91111FB308	A, B, C, D, E			
CW91,1x26W,TCT,LLCG,TSG,rec	4039806206923	5LA91011LA300	A, B, C, D, E			
CW91,1x26W,TCT,LLCG,TSG,rec ALU	4039806207029	5LA91111LA308	A, B, C, D, E			
CW91,1x26W,TCT,LLCG,TSG,rec	4039806207166	5LA91211LA308	A, B, C, D, E			
CW91,1x60W,A60,TSG,rec	4039806207081	5LA91011BW300	E			
CW96,1x13W,TCDD,LLCG,TSG,rec	4039806207623	5LA96011FA300	A, B, C, D, E			
CW96,1x13W,TCDD,LLCG,TSG,rec	4039806418777	5LA96211FA300	A, B, C, D, E			
CW96,1x60W,QTDE,TSG,rec	4039806207647	5LA96011M0300	D, E			
KIT LED CLASSIC PAR16 35	4008321664990	0LR50H77Q3			A++, A+, A	non-replaceable
KIT LED PRO PAR 16 35 round white	4008321982063	0LR50H67Q3V1			A++, A+, A	non-replaceable
KIT LED PRO PAR 16 50 round white	4008321982094	0LR50H67W3			A++, A+, A	non-replaceable
KIT LED PRO R B	4008321982049	0LR50H67Q7			A++, A+, A	non-replaceable
KIT LED PRO R B	4008321982087	0LR50H67W7			A++, A+, A	non-replaceable
LEDVANCE AREA 1200X300 3000 K	4008321817280	0MQ12W77J3R1			A++, A+, A	non-replaceable
LEDVANCE AREA 1200X300 4000 K	4008321817297	0MQ12W77J3S1			A++, A+, A	non-replaceable
LEDVANCE AREA 600X600 3000 K	4008321817167	0MQ12W77Y3R1			A++, A+, A	non-replaceable
LEDVANCE AREA 600X600 4000 K	4008321817174	0MQ12W77Y3S1			A++, A+, A	non-replaceable
LEDVANCE AREA 625X625 3000 K	4052899016446	0MQ11W77Y3R1			A++, A+, A	non-replaceable
LEDVANCE AREA 625X625 4000 K	4052899016453	0MQ11W77Y3S1			A++, A+, A	non-replaceable
LEDVANCE DOWNLIGHT S 830 L80 AL	4052899927339	0DS11B77V2R			A++, A+, A	non-replaceable
LEDVANCE DOWNLIGHT S 830 L80 WT	4052899927346	0DS11B77V3R			A++, A+, A	non-replaceable
LEDVANCE DOWNLIGHT S 840 L80 AL	4052899927353	0DS11B77V2S			A++, A+, A	non-replaceable
LEDVANCE DOWNLIGHT S 840 L80 WT	4052899927360	0DS11B77V3S			A++, A+, A	non-replaceable
LEDVANCE LINEAR S 830	4008321821959	0FS2C77B2R			A++, A+, A	non-replaceable
LEDVANCE LINEAR S 840	4008321821973	0FS2C77B2S			A++, A+, A	non-replaceable
LEDVANCE LINEAR L 830	4008321821997	0FL2C77T2R			A++, A+, A	non-replaceable
LEDVANCE LINEAR L 840	4008321822017	0FL2C77T2S			A++, A+, A	non-replaceable
LEAF-Ceiling LED	4052899908451	0ML2517L18835			A++, A+, A	non-replaceable
LEAF-Pendant LED	4052899908468	0ML2417L18835			A++, A+, A	non-replaceable
LED RONDEL 20 W	4052899908635	0MD5247L54830			A++, A+, A	non-replaceable
LED RONDEL 20 W SENSOR	4052899910195	0MD5247L548301			A++, A+, A	non-replaceable
LUMILUX FLATLITE T5-F/P 24 W	4008321908537	0FP1111Y830	A+, A	A+		
LUMILUX FLATLITE T5-F/P 39 W	4008321908544	0FP1111K830	A+, A	A+		
LUMILUX FLATLITE T5-F/P 49 W	4008321908568	0FP1111F830	A+, A	A+		
LUMILUX FLATLITE T5-F/P 54 W	4008321908551	0FP1111U830	A+, A	A+		
LUMILUX VARIO EL-F 18 W	4008321908476	0FJ1471A827	A, B	A		
LUMILUX VARIO EL-F 30 W	4008321908483	0FJ1471D827	A, B	A		
LUMILUX VARIO EL-F 36 W	4008321908490	0FJ1471C827	A, B	A		
LUMILUX COMBI EL-F 10 W WT	4050300003542	0FJ1071S827	A	A		
LUMILUX COMBI EL-F 18 W WT	4050300003573	0FJ1071A827	A, B	A		
LUMILUX COMBI EL-F 30 W WT	4050300003597	0FJ1071D827	A, B	A		
LUMILUX COMBI EL-F 36 W WT	4050300003634	0FJ1071C827	A, B	A		
LUMILUX COMBI EL-F 58 W WT	4050300005195	0FJ1071E827	A, B	A		
LUMILUX COMBI EL-F UNP 18 W WT	4050300148724	0FJ0071A0	A, B			
LUMILUX COMBI EL-F UNP 30 W WT	4050300484679	0FJ0071D0	A, B			
LUMILUX COMBI EL-F UNP 36 W WT	4050300148748	0FJ0071C0	A, B			
LUMILUX COMBI EL-F UNP 58 W WT	4050300993959	0FJ0071E0	A, B			
LUMILUX COMBI EL-F/D 18 W	4008321917478	0FJR1271A827	A, B	A		
LUMILUX COMBI EL-F/D 30 W	4008321917492	0FJR1271D827	A, B	A		
LUMILUX COMBI EL-F/D 36 W	4008321917515	0FJR1271C827	A, B	A		
LUMILUX COMBI EL-F/D 58 W	4008321917539	0FJ1271E827	A, B	A		
LUMILUX COMBI EL-F/P 10 W WT	4050300346502	0FJ1171S827	A	A		
LUMILUX COMBI EL-F/P 18 W WT	4050300346588	0FJ1171A827	A, B	A		
LUMILUX COMBI EL-F/P 30 W WT	4050300346700	0FJ1171D827	A, B	A		
LUMILUX COMBI EL-F/P 36 W WT	4050300346908	0FJ1171C827	A, B	A		
LUMILUX COMBI EL-F/P 58 W WT	4050300346984	0FJ1171E827	A, B	A		
LUMILUX COMBI EL-N 10 W WT	4050300003443	0FJ2071S827	A	A		
LUMILUX COMBI EL-N 18 W WT	4050300003474	0FJ2071A827	A, B	A		
LUMILUX COMBI EL-N 30 W WT	4050300002163	0FJ2071D827	A, B	A		

Product name	Order no. OSRAM	Order no. Siteco				Replaceability LED module
LUMILUX COMBI EL-N 36 W WT	4050300003511	0FJ2071C827	A, B	A		
LUMILUX COMBI EL-N 58 W WT	4050300986517	0FJ2071E827	A, B	A		
LUMILUX COMBI EL-N/P 10 W WT	4050300346540	0FJ2171S827	A	A		
LUMILUX COMBI EL-N/P 18 W WT	4050300346625	0FJ2171A827	A, B	A		
LUMILUX COMBI EL-N/P 30 W WT	4050300346663	0FJ2171D827	A, B	A		
LUMILUX COMBI EL-N/P 36 W WT	4050300346861	0FJ2171C827	A, B	A		
LUMILUX COMBI EL-N/P 58 W WT	4050300346946	0FJ2171E827	A, B	A		
LUMILUX COMBI LED 10 W 3000 K	4052899909298	0LJ211710830			A++, A+, A	non-replaceable
LUMILUX COMBI LED 10 W 4000 K	4052899909304	0LJ211710840			A++, A+, A	non-replaceable
LUMILUX COMBI LED 18 W 3000 K	4052899909311	0LJ211717830			A++, A+, A	non-replaceable
LUMILUX COMBI LED 18 W 4000 K	4052899909328	0LJ211717840			A++, A+, A	non-replaceable
LUMILUX BRIK EL 8 W	4050300440880	0LS5297108840	A, B	A		
LUMILUX BRIK EL 13 W	4050300440903	0LS5297113840	A, B	A		
LUMILUX DUO EL-F/P 2X18 W HF	4050300774206	0LL21P72AL830	A, B	A		
LUMILUX DUO EL-F/P 2X36 W HF	4050300774237	0LL21P72CL830	A, B	A		
LUMILUX DUO EL-F/P 2X58 W HF	4050300774268	0LL21P72EL830	A, B	A		
LUMILUX DUO EL-F/R 2X18 W HF	4050300774299	0LL21572AL830	A, B	A		
LUMILUX DUO EL-F/R 2X36 W HF	4050300774329	0LL21572CL830	A, B	A		
LUMILUX DUO EL-F/R 2X58 W HF	4050300774350	0LL21572EL830	A, B	A		
LUMINESTRA EL 8 W/827	4050300008738	0FB2171J827	A, B	A		
LUMINESTRA EL 13 W/827	4050300008745	0FB2171T827	A, B	A		
LUMINESTRA LED 8 W/830	4008321524461	0FA2271AK830			A++, A+, A	non-replaceable
LUMINESTRA LED 8 W/840	4008321524485	0FA2271AK840			A++, A+, A	non-replaceable
LUMINESTRA LED 13 W/830	4008321710581	0FA2271BD830			A++, A+, A	non-replaceable
LUMINESTRA LED 13 W/840	4008321710604	0FA2271BD840			A++, A+, A	non-replaceable
MINI5 ECO 8 W/827	4008321931399	0FR2171J827	A, B	A		
MINI5 ECO 8 W/840	4008321931511	0FR2171J840	A, B	A		
MINI5 ECO 13 W/827	4008321931412	0FR2171T827	A, B	A		
MINI5 ECO 13 W/840	4008321931535	0FR2171T840	A, B	A		
MINI5 ECO 14 W/827	4008321931436	0FR217M827	A+, A	A+		
MINI5 ECO 14 W/840	4008321931559	0FR2171M840	A+, A	A+		
MINI5 ECO 21 W/827	4008321931450	0FR2171N827	A+, A	A+		
MINI5 ECO 21 W/840	4008321931573	0FR2171N840	A+, A	A+		
MINI5 ECO UNP 8 W	4008321300911	0FR2171J0	A, B			
MINI5 ECO UNP 13 W	4008321300935	0FR2171T0	A, B			
MINI5 ECO UNP 14 W	4008321300959	0FR2171M0	A+, A			
MINI5 ECO UNP 21 W	4008321300973	0FR2171N0	A+, A			
NEPTUNE LED Small	4052899910560	0LS1277L25840			A++, A+, A	non-replaceable
NEPTUNE LED Medium	4052899910577	0LS1277L50840			A++, A+, A	non-replaceable
NEPTUNE LED Large	4052899921962	0LS1277L60840			A++, A+, A	non-replaceable
NEPTUNE POLY T5 1X28 W	4008321659903	0LS12271P	A+, A			
NEPTUNE POLY T5 1X49 W	4008321660008	0LS12271F	A+, A			
NEPTUNE POLY T5 2X28 W	4008321659989	0LS12272P	A+, A			
NEPTUNE POLY T5 2X49 W	4008321660022	0LS12272F	A+, A			
NOXLITE LED CIRCULAR 20 W	4052899905627	0NA74710GS225			A++, A+, A	non-replaceable
NOXLITE LED CIRCULAR 20 W SENSOR	4052899905634	0NA74710GS215			A++, A+, A	non-replaceable
NOXLITE HALOGEN SOLO WALL	4052899901612	0NA74411EB216	C, D	D		
NOXLITE HALOGEN DUO WALL	4052899901599	0NA74412FB216	C, D	D		
OSRAM ECOPACK T8 DIM 18W	4050300561981	0LN1061A0	A, B			
OSRAM ECOPACK T8 DIM 36W	4050300562025	0LN1061C0	A, B			
OSRAM ECOPACK T8 DIM 58W	4050300562070	0LN1061E0	A, B			
OSRAM ECOPACK T8 18W	4050300562124	0LN1071A0	A, B			
OSRAM ECOPACK T8 36W	4050300528359	0LN1071C0	A, B			
OSRAM ECOPACK T8 58W	4050300528373	0LN1071E0	A, B			
OSRAM ECOPACK T5 DALI 14/24W	4008321259578	0LN10D1B0	A+, A			
OSRAM ECOPACK T5 DALI 21/39W	4008321259592	0LN10D1L0	A+, A			
OSRAM ECOPACK T5 DALI 28/54W	4008321259615	0LN10D1H0	A+, A			
OSRAM ECOPACK T5 DALI 35/49/80W	4008321259639	0LN10D1Q0	A+, A			
OSRAM ECOPACK T5 DIM 14/24W	4008321259493	0LN1061B0	A+, A			
OSRAM ECOPACK T5 DIM 21/39W	4008321259516	0LN1061L0	A+, A			

Product name	Order no. OSRAM	Order no. Siteco				Replaceability LED module
OSRAM ECOPACK T5 DIM 28/54W	4008321259530	OLN1061H0	A+, A			
OSRAM ECOPACK T5 DIM 35/49/80W	4008321259554	OLN1061Q0	A+, A			
OSRAM ECOPACK T5 FH DIM 14W	4050300659213	OLN1161M830	A+, A	A+		
OSRAM ECOPACK T5 FH DIM 21W	4050300659237	OLN1161N830	A+, A	A+		
OSRAM ECOPACK T5 FH DIM 28W	4050300659251	OLN1161P830	A+, A	A+		
OSRAM ECOPACK T5 FH DIM 35W	4050300659275	OLN1161R830	A+, A	A+		
OSRAM ECOPACK T5 14/24W	4008321257413	OLN1071B0	A+, A			
OSRAM ECOPACK T5 21/39W	4008321257437	OLN1071L0	A+, A			
OSRAM ECOPACK T5 28/54W	4008321257451	OLN1071H0	A+, A			
OSRAM ECOPACK T5 35/49/80W	4008321259479	OLN1071Q0	A+, A			
OSRAM ECOPACK T5 FQ 24W	4050300797762	OLN1071Y840	A+, A	A+		
OSRAM ECOPACK T5 FQ 39W	4050300859187	OLN1071K840	A+, A	A+		
OSRAM ECOPACK T5 FQ 54W	4050300859200	OLN1071U840	A+, A	A+		
OSRAM ECOPACK T5 FQ 80W	4050300859385	OLN1071X840	A+, A	A+		
OSRAM ECOPACK T5 FH 14W	4050300513249	OLN1171M830V2	A+, A	A+		
OSRAM ECOPACK T5 FH 21W	4050300513263	OLN1171N830V2	A+, A	A+		
OSRAM ECOPACK T5 FH 28W	4050300513287	OLN1171P830V2	A+, A	A+		
OSRAM ECOPACK T5 FH 35W	4050300513300	OLN1171R830V2	A+, A	A+		
OSRAM DULUX CARRÉ 11 W	4050300012100	OMD41551R	A	A		
OSRAM DULUX CARRÉ 2X11 W	4050300314921	OMD41552R	A	A		
OSRAM DULUX RONDEL 2X9 W	4050300328737	OMD41552U	A	A		
POWERPOLE WT	4008321992451	OSS88711WTS1			A++, A+, A	non-replaceable
PUNCTOLED I 10.5 W	4008321999368	ODP10061S3			A++, A+, A	non-replaceable
PUNCTOLED I 2x4.5 W	4008321999320	ODP10062U3			A++, A+, A	non-replaceable
PUNCTOLED I 2x8.5 W	4008321999344	ODP10062V3			A++, A+, A	non-replaceable
PUNCTOLED II 10W	4052899904088	ODP1C67S3			A++, A+, A	non-replaceable
PUNCTOLED II 15W	4052899904095	ODP1C67T3			A++, A+, A	non-replaceable
PUNCTOLED II 20W	4052899904101	ODP1C67P3			A++, A+, A	non-replaceable
PUNCTOLED IP65 10 W WT	4052899910652	ODP10C67S365			A++, A+, A	non-replaceable
PUNCTOLED IP65 2X5.5 W WT	4052899910645	ODP10C62V365			A++, A+, A	non-replaceable
QOD Starter Set	4008321962911	OME6712L35830			A++, A+, A	by end consumer
QOD Add-on	4008321962935	OME6711L35830			A	non-replaceable
QOD CHROME Add-on	4008321646972	OME6711L35830C			A	non-replaceable
QOD CHROME SET	4008321646958	OME6712335830C			A++, A+, A	by end consumer
QOD DOMINO SHORT 2X4 W	4008321974983	OME6712L088300S			A++, A+, A	non-replaceable
QOD DOMINO SHORT 3X4 W	4008321975010	OME6712L128300S			A++, A+, A	non-replaceable
QOD DOMINO LONG 3X4 W	4008321975041	OME6712L128300L			A++, A+, A	non-replaceable
QOD DOMINO LONG 5X4 W	4008321975072	OME6712L208300L			A++, A+, A	non-replaceable
QOD M CEILING	4052899910683	OME271715830			A++, A+, A	non-replaceable
QOD M WT	4008321974921	OME6717L13830			A++, A+, A	non-replaceable
QOD L WT	4008321974952	OME6717L28830			A++, A+, A	non-replaceable
SLIMLITE EL WT 13 W	4050300620121	OFN271T827	A, B	A		
SLIMLITE EL WT 8 W	4050300620145	OFN271J827	A, B	A		
SLIMSHAPE LED 13 W	4008321974501	OFC271BA830X			A++, A+, A	non-replaceable
SLIMSHAPE LED 13 W SENSOR	4008321975195	OFC271BA830			A++, A+, A	non-replaceable
SLIMSHAPE LED 8 W	4008321977519	OFC271AB830X			A++, A+, A	non-replaceable
SLIMSHAPE LED 8 W SENSOR	4008321975164	OFC271AL830			A++, A+, A	non-replaceable
SOFTLITE T5 24W	4050300535630	OML23L71YL840	A+, A	A+		
SOFTLITE EL 24 W	4050300535630	OML23L71YL840	A+, A	A+		
SOFTLITE EL 39 W	4050300535654	OML23L71KL840	A+, A	A+		
SOFTLITE T5 54W	4050300535678	OML23L71JL840	A+, A	A+		
SOFTLITE EL 54 W	4050300535678	OML23L71JL840	A+, A	A+		
SOFTLITE EL 80 W	4050300535692	OML23L71XL840	A+, A	A+		
TRESOL 4.5 W SI	4008321587220	OMT5717L45830			A++, A+, A	non-replaceable
TRESOL 10 W SI	4008321984159	OMT1717L10830			A++, A+, A	non-replaceable
TRESOL Bloc 2X4.5 W SI	4008321985484	OMT8617L09830			A++, A+, A	non-replaceable
TRESOL Bloc 2X4.5 W WT	4008321990143	OMT8617L09830W			A++, A+, A	non-replaceable



# 7 Single battery

## Luminaires with single battery

### Equipping and functionality:

Luminaires are wired ready for connection, with 4-pole mains connection (3-pole for “normal mains” with switched phase\* + single pole for additional unswitched phase\*) | luminaires fulfill the requirements of the luminaire standard EN 60598-1 and the relevant part 2 of the standard for recessed and surface mounted luminaires | with ECG for normal operation and with single battery\* (control device, battery for 1-hour or 3-hour operation and with LED for optical self-test functioning control of battery)

$$U_{nom} = 220...240V/AC\ 50...60Hz$$

\*The switched phase (mains supply) and the unswitched phase must have the same phase angle | the battery is charged via the non-switched phase and the luminaire is informed of the operational condition:

- non-switched phase in operation: → normal operation (luminaire operation via mains, normal on/off switching)
- non-switched phase missing: → operation with reduced luminous flux (operation with battery) | luminaire is switched on, even when luminaire was switched off with mains operation

### LED signals:

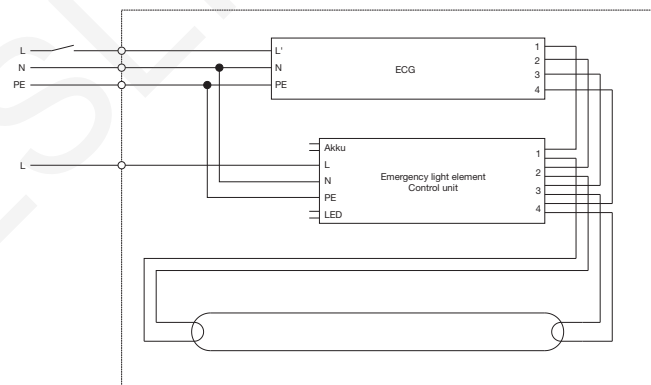
green LED: battery connected and charged  
 green blinking LED: battery being charged  
 red blinking LED: battery not connected or defective  
 yellow blinking LED: autom. discharging/charging of battery

### Operation with reduced luminous flux:

reduced luminous flux (see table on page 25) with 2-lamp luminaires: operation of one lamp with luminaires with ECG DALI or ECG 1...10V: luminous flux as specified, independent of dimming status

Permissible ambient temperature for luminaire with single battery: 0°C...25°C.

### Schematic circuit diagram:



## Single-battery emergency light element for on-site installation

### Short description

Single-battery emergency light element for retroactive, on-site installation, consisting of control device, NiMH battery for 1h or 3h operation and LED for optical self-testing. Suitable for emergency operation of fluorescent lamps (T16, T26 or TC lamps without integral glow starter), for single-lamp and multi-lamp ECG, ECG dimmable or LLCG.

### Scope of delivery

Housing of control device of sheet steel (for screw fixing). Gas-tight and maintenance-friendly battery (with cable retainers and self-adhesive mounting elements, LED (with LED clip) and self-adhesive color spots (for color-identification of luminaire and lamp).

### Electrics

All components wired ready for connection: control device with screwless terminals, max. 1.5mm<sup>2</sup>; battery and LED

with pre-assembled connection cable.

$$U_{nom} = 220...240V/50...60Hz; I_{nom} (230V) = 4...50mA; \lambda = 0.7$$

For luminaires with single-battery emergency light element, a 4-pole mains connection is required (3-pole for “normal mains” with switched phase\* + 1-pole for additional unswitched phase\* for emergency light element).

### Functionality and further explanation

(see description “Luminaires with single-battery emergency light element”)

Emergency operation with reduced luminous flux (see table, page 26)

with twin-lamp and multi-lamp luminaires: operation with one lamp (independent of ballast)

with luminaires with ECG DALI or ECG 1...10V:

luminous flux as specified, independent of dimming status.

Recommended applications

For installations according to VDE 108 or EN 60598-2-22

### Emergency components for on-site installation

**Single-battery emergency light element** for on-site installation in luminaires | for 1-hour or 3-hour operation | components: control unit, battery (capacitance according to required operating life and selected lamp rating) and LED (for optical self-testing of battery) | suitable for emergency light operation of fluorescent lamps (T16, T26 or TC lamps without integral glow starter) | for installation in luminaires with single or multi-lamp ECG, ECG dimmable or LLCG

Protection rating: IP20  
Insulation class: I

Permissible ambient temperature:  
 — single-battery emergency light element: 5°C...+45°C (charge)  
 0°C...+70°C (emergency light operation)



Lamps	L (mm)	W (mm)	H (mm)	L1 (mm)	L2 (mm)	D (mm)	Order no.
Emergency light element							
Inverter	235	30	21				5LY11103R
+ NiMh battery 3.0 Ah	740			215	145	19	
Inverter	235	30	21				5LY11104R
+ NiCd battery 4.5 Ah	680			180	120	33	
Inverter	235	30	21				5LY11105R
+ NiCd battery 7.0 Ah	830			270	260	33	

Inverter dimensions: L x W x H; mounting distance l = 225mm  
 Dimensions battery 1: L1 x D; connection cable to inverter: l1 = 260mm  
 Dimensions battery 2: L2 x D; interconnecting cable between batteries: l2 = 120mm

### Luminous flux with emergency operation (% of nominal luminous flux)

Lamp	T26				T16						T16				
	18W	36W	38W	58W	8W	11W	14W	21W	28W	35W	24W	39W	49W	54W	80W
Lum. flux	18%	13%	13%	10%	31%	28%	26%	22%	21%	15%	19%	14%	9%	14%	9%

required battery capacitance dependent upon required operational life and lamp

1h (Ah)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
3h (Ah)	4.5	4.5	7.0	7.0	4.5	4.5	4.5	7.0	7.0	7.0	4.5	7.0	7.0	7.0	7.0

Lamp	TC-LEL						TC-DEL			TC-TEL				TC-SEL		
	18W	24W	36W	40W	55W	80W	13W	18W	26W	18W	26W	32W	42W	7W	9W	11W
Lum. flux	17%	17%	16%	14%	12%	8%	27%	26%	22%	26%	18%	19%	16%	31%	30%	28%

required battery capacitance dependent upon required operational life and lamp

1h (Ah)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
3h (Ah)	4.5	4.5	4.5	7.0	7.0	7.0	4.5	4.5	4.5	4.5	4.5	7.0	7.0	4.5	4.5	4.5

– with twin-lamp and multi-lamp luminaires: operation with one lamp



## 8 Light Solutions Center – LSC

Showroom, think tank and communication platform



**The technology and design of luminaires are processes that are continually in a state of development. The OSRAM Light Solutions Center at Traunreut in Germany accompanies these processes. It is a forum for our guests, customers and partners, in fact for all those who value good light.**

The Light Solutions Center offers scope for technology, know-how, dialogue and inspiration – the experience of light and transfer of knowledge under one roof. We present our products and their unique light effects in an unusual and stimulating way: Experience lighting and tools for light in the context of their specific application sectors. Practically, competently and solution-oriented, ranging from single components such as ECG, light engines and control software to completely integrated LED luminaires for professional applications.

We offer you a versatile and exciting range of experiences that all have one thing in common: transforming the infinite facets and fascination of light into reality and to concisely explain the individual components that contribute to this.

We would be pleased to welcome you as our guest and offer you training options in the field of lighting designed to your specific requirements. Become inspired by light and its unlimited possibilities for creativity.

Simply speak to your sales representative. We can organise your personal training program selected from our wide spectrum of training components, and can also organize the entire planning from arrival until departure.

### **Find out more about:**

- energy-efficient solutions for indoors and outdoors with the aid of innovative lighting systems
- the contribution of daylight systems, lighting control and LED towards ergonomics, safety and environmental compatibility
- lighting solutions for special applications such as offices, retail spaces, industry, roads and public plazas
- design possibilities with light
- current standards and their consequences for lighting design

## 9 LIGHTIFY™ Pro from OSRAM: intelligent light made easy

More comfort, flexibility and networking: The requirements for lighting functionality are increasingly changing. In future, these will be easily and cost-efficiently fulfilled with LIGHTIFY™ Pro from OSRAM: with the radio-controlled solution based on the ZigBee LightLink standard, existing luminaires can be simply upgraded, supplemented or commissioned via smartphone or a tablet PC. All configurations can be adapted and modified to individual needs at any time.

For the professional sector, LIGHTIFY™ Pro-based sensor technology with integrated daylight and motion detection rounds off the portfolio, and simple, rapid commissioning is implemented with the LIGHTIFY™ Pro commissioning app via a tablet PC. The system can also be conveniently controlled via a smartphone, tablet PC or desktop PC.

All benefits at a glance:

- intuitive commissioning: user-friendly drag-&-drop function
- grouping: single or group control of lamps and luminaires
- flexibility: configurations individually adapted to user needs
- cost control: high energy saving potential compared to standard lighting solutions due to use of sensors

Find out more about OSRAM LIGHTIFY™ Pro components and OSRAM LIGHTIFY™ Pro luminaires at [www.osram.com/lightify](http://www.osram.com/lightify)

### Wireless is the key – communication in the LIGHTIFY™ Pro system



\* For commissioning, a hotspot mode in the gateway can be activated to provide WLAN access for smart devices without an IT building infrastructure.

# 10.1 Order number index OSRAM–Siteco

Order no. OSRAM	Order no. Siteco	Page
4006584738502	5TR32B71MD2N	8.22, 8.81
4006584738526	5TR32B71MD3M	8.22, 8.81
4006584738540	5DS32B71MD3R	5.14
4006584738564	5DS32B71MD1R	5.14
4006584738588	5TR32A71MD3M	8.21, 8.80
4006584738601	5TR32A71MD2N	8.21, 8.80
4006584738625	5DS32A71MD3R	5.11
4006584738649	5DS32A71MD1R	5.11
4006584738700	5DS32B77VL3R8H	5.12
4006584738724	5DS32B77VL1R8H	5.12
4006584738762	5DS32A77VL3R8H	5.9
4006584738786	5DS32A77VL1R8H	5.9
4006584739097	5DS32A71KD2R	5.11
4006584739424	5TR32A71KD2N	8.21, 8.80
4006584739448	5DS32B71KD2R	5.14
4006584739462	5DS32A71MD2R	5.11
4006584739486	5DS32B71MD2R	5.14
4006584739509	5DS32A77VL2R8C	5.9
4006584739523	5DS32B77VL2R8C	5.12
4006584739547	5DS32A77VL2R8H	5.9
4006584739561	5DS32B77VL2R8H	5.12
4006584740024	5TR32B77VL3M8E	8.19, 8.78
4006584740048	5TR32B77VL2N8E	8.19, 8.78
4006584740062	5DS32B77VL3R8E	5.12
4006584740086	5DS32B77VL1R8E	5.12
4006584740109	5DS32B77VL2R8E	5.12
4006584740123	5TR32A77VL3M8E	8.17, 8.76
4006584740147	5TR32A77VL2N8E	8.17, 8.76
4006584740161	5DS32A77VL3R8E	5.9
4006584740185	5DS32A77VL1R8E	5.9
4006584740208	5DS32A77VL2R8E	5.9
4006584740260	5DS32B77VL3R8K	5.12
4006584740284	5DS32B77VL1R8K	5.12
4006584740307	5DS32B77VL2R8K	5.12
4006584740369	5DS32A77VL3R8K	5.9
4006584740383	5DS32A77VL1R8K	5.9
4006584740406	5DS32A77VL2R8K	5.9
4006584740482	5TR32B71KD3M	8.22, 8.81
4006584740505	5DS32B71KD3R	5.14
4006584740529	5DS32B71KD1R	5.14
4006584740543	5DS32A71KD1R	5.11
4006584740567	5TR32A71KD3M	8.21, 8.80
4006584740581	5DS32A71KD3R	5.11
4006584740604	5TR32B71KD2N	8.22, 8.81
4006584740963	5DS32B77VL3R8C	5.12
4006584740987	5DS32B77VL1R8C	5.12
4006584741021	5DS32A77VL3R8C	5.9
4006584741045	5DS32A77VL1R8C	5.9
4006584747474	5DS32A77VL3R9C	5.10
4006584747498	5DS32A77VL1R9C	5.10
4006584747559	5DS32B77VL3R9C	5.13
4006584747573	5DS32B77VL1R9C	5.13
4006584747634	5DS32A77VL2R9C	5.10
4006584747658	5DS32B77VL2R9C	5.13
4006584747672	5DS32A77VL1R9E	5.10
4006584747696	5DS32A77VL2R9E	5.10
4006584747719	5DS32A77VL3R9E	5.10
4006584747733	5TR32A77VL3M9E	8.18, 8.77

Order no. OSRAM	Order no. Siteco	Page
4006584747757	5TR32A77VL2N9E	8.18, 8.77
4006584747771	5DS32B77VL1R9E	5.13
4006584747795	5DS32B77VL2R9E	5.13
4006584747818	5DS32B77VL3R9E	5.13
4006584747832	5TR32B77VL3M9E	8.20, 8.79
4006584747856	5TR32B77VL2N9E	8.20, 8.79
4006584747870	5DS32A77VL3R9H	5.10
4006584747894	5DS32A77VL1R9H	5.10
4006584747955	5DS32B77VL3R9H	5.13
4006584747979	5DS32B77VL1R9H	5.13
4006584748037	5DS32A77VL2R9H	5.10
4006584748051	5DS32B77VL2R9H	5.13
4006584748075	5DS32A77VL1R9K	5.10
4006584748099	5DS32A77VL2R9K	5.10
4006584748112	5DS32A77VL3R9K	5.10
4006584748174	5DS32B77VL1R9K	5.13
4006584748198	5DS32B77VL2R9K	5.13
4006584748211	5DS32B77VL3R9K	5.13
40065847474210	OTXCA0000001	14.5
40065847474272	OTXCA0000003	14.5
40065847474364	OTXCA0000006	14.5
40065847474487	OTXCD0000010	14.6
4006584774548	OTXCD0000012	14.6
4006584774661	OTXCD0000016	14.6
4006584774722	OTXCE0000018	14.7
4006584774753	OTXCE0000019	14.7
4006584774784	OTXCE0000020	14.7
4006584774814	OTXC0000021	14.8
4006584774845	OTXC0000022	14.8
4006584774906	OTXC0000024	14.8
4006584775101	OTXC0000029	14.8
4006584775132	OTXC0000030	14.8
4006584775194	OTXC0000032	14.8
4006584776207	–	14.8
4006584776221	–	14.8
4006584793617	–	14.5, 14.6, 14.7
4006584793624	–	14.5, 14.6, 14.7
4006584817443	–	14.6, 14.8
4008321079886	OLN111001B	7.10
4008321079909	OLN111001L	7.10
4008321080424	OLN111001H	7.10
4008321080448	OLN111001Q	7.10
4008321173744	OLS60971Y	9.76
4008321173751	OLS60971J	9.76
4008321173762	OLS60971X	9.76
4008321173799	OLS60972J	9.76
4008321173829	OLS60973X	9.76
4008321185372	OLS61511YG	9.76, 9.77
4008321185402	OLS61511JG	9.76, 9.77
4008321185419	OLS61511XG	9.76, 9.77
4008321193926	OLS61501JG	9.76, 9.77
4008321193971	OLS61501XG	9.76, 9.77
4008321257413	OLN1071B0	7.10
4008321257437	OLN1071L0	7.10
4008321257451	OLN1071H0	7.10
4008321259479	OLN1071Q0	7.10
4008321259493	OLN1061B0	7.10
4008321259516	OLN1061L0	7.10

Order no. OSRAM	Order no. Siteco	Page
4008321259530	OLN1061H0	7.10
4008321259554	OLN1061Q0	7.10
4008321259578	OLN10D1B0	7.10
4008321259592	OLN10D1L0	7.10
4008321259615	OLN10D1H0	7.10
4008321259639	OLN10D1Q0	7.10
4008321300911	OFR2171J0	7.22
4008321300935	OFR2171T0	7.22
4008321300959	OFR2171M0	7.22
4008321300973	OFR2171N0	7.22
4008321366672	OLF12173ML840	4.76
4008321366689	OLF12173ML830	4.76
4008321366702	OLF12174ML840	4.76
4008321366719	OLF12174ML830	4.76
4008321380852	OLF121D3ML840	4.76
4008321380883	OLF121D4ML840	4.76
4008321380937	OLF12474ML840	4.77
4008321524461	OFA2271AK830	7.36
4008321524485	OFA2271AK840	7.36
4008321587220	OMT5717L45830	5.72
4008321646958	OME6712335830C	7.48
4008321646972	OME6711L35830C	7.48
4008321659903	OLS12271P	9.68
4008321659989	OLS12272P	9.68
4008321660008	OLS12271F	9.68
4008321660022	OLS12272F	9.68
4008321664990	OLR50H77Q3	5.64
4008321710581	OFA2271BD830	7.36
4008321710604	OFA2271BD840	7.36
4008321808830	OFZ100CC36	7.33
4008321808837	OFZ100CC100	7.33
4008321808851	OFZ100PC18	7.33
4008321808875	OFZ100YC	7.33
4008321808899	OFZ100CG90	7.33
4008321808912	OFZ100S	7.33
4008321817167	OMQ12W77Y3R1	4.39
4008321817174	OMQ12W77Y3S1	4.39
4008321817280	OMQ12W77J3R1	4.38
4008321817297	OMQ12W77J3S1	4.38
4008321821959	OFS2C77B2R	7.32
4008321821973	OFS2C77B2S	7.32
4008321821997	OFL2C77T2R	7.32
4008321822017	OFL2C77T2S	7.32
4008321850515	OXA97300XB	12.46
4008321850522	OXA97400XB	12.47
4008321854261	OXA97100XB	12.42, 12.43, 12.44, 12.45
4008321867698	OMB2512L45840	2.38
4008321867704	OMB2512L45830	2.38
4008321908476	OFJ1471A827	7.30
4008321908483	OFJ1471D827	7.30
4008321908490	OFJ1471C827	7.30
4008321908537	OPF1111Y830	6.72
4008321908544	OPF1111K830	6.72
4008321908551	OPF1111U830	6.72
4008321908568	OPF1111F830	6.72
4008321917355	OPF9091	6.72
4008321917478	OFJR1271A827	7.28
4008321917492	OFJR1271D827	7.28
4008321917515	OFJR1271C827	7.28
4008321917539	OFJ1271E827	7.28
4008321931399	OFR2171J827	7.22
4008321931412	OFR2171T827	7.22
4008321931436	OFR217M827	7.22
4008321931450	OFR2171N827	7.22
4008321931511	OFR2171J840	7.22
4008321931535	OFR2171T840	7.22
4008321931559	OFR2171M840	7.22

Order no. OSRAM	Order no. Siteco	Page
4008321931573	OFR2171N840	7.22
4008321962911	OME6712335830	7.48
4008321962935	OME6711L35830	7.48
4008321972842	OME91500L	6.58, 7.48
4008321974501	OFC271BA830X	7.38
4008321974921	OME6717L13830	6.58
4008321974952	OME6717L28830	6.58
4008321974983	OME6712L088300S	7.50
4008321975010	OME6712L128300S	7.50
4008321975041	OME6712L128300L	7.50
4008321975072	OME6712L208300L	7.50
4008321975164	OFC271AL830	7.39
4008321975195	OFC271BA830	7.39
4008321977519	OFC271AB830X	7.38
4008321980014	OMT9221OMR	5.72
4008321982049	OLR50H67Q7	5.62
4008321982063	OLR50H67Q3V1	5.62
4008321982087	OLR50H67W7	5.62
4008321982094	OLR50H67W3	5.62
4008321984159	OMT1717L10830	5.70
4008321985484	OMT8617L09830	6.46
4008321988744	OXA97101WD200	12.44
4008321988751	OXA97101ND200	12.44
4008321988768	OXA97101BD200	12.45
4008321988775	OXA97171WD200	12.42
4008321988782	OXA97171ND200	12.42
4008321988799	OXA97171BD200	12.43
4008321988805	OXA97201WD200	12.44
4008321988812	OXA97201ND200	12.44
4008321988829	OXA97201BD200	12.45
4008321988836	OXA97271WD200	12.42
4008321988843	OXA97271ND200	12.42
4008321988850	OXA97271BD200	12.43
4008321988898	OXA97371WE100	12.46
4008321988904	OXA97371WB100	12.46
4008321988911	OXA97371NE100	12.46
4008321988928	OXA97371NB100	12.46
4008321988973	OXA97371WE200	12.46
4008321988980	OXA97371WB200	12.46
4008321988997	OXA97371NE200	12.46
4008321989000	OXA97371NB200	12.46
4008321989055	OXA97471WB100	12.47
4008321989062	OXA97471WB100	12.47
4008321989079	OXA97471NE100	12.47
4008321989086	OXA97471NB100	12.47
4008321989130	OXA97471WE200	12.47
4008321989147	OXA97471WB200	12.47
4008321989154	OXA97471NE200	12.47
4008321989161	OXA97471NB200	12.47
4008321990143	OMT8617L09830W	6.46
4008321992451	OSS88711WTS1	1.12
4008321999320	ODP10062U3	5.66
4008321999344	ODP10062V3	5.66
4008321999368	ODP10061S3	5.66
4039806000019	5LJ90871C	8.132
4039806000033	5LJ90871E	8.132
4039806000149	5LJ90872C	8.132
4039806000163	5LJ90872E	8.132
4039806000316	5LJ90800XB	8.129
4039806000330	5LJ90830ED	8.130, 9.88, 9.90
4039806000354	5LJ90800XK	8.136
4039806000378	5LJ90800XY	8.129, 8.136, 8.171, 9.94
4039806000446	5LJ90810XY	8.129, 8.136, 8.171, 9.94
4039806000569	5LJ90812XK	8.130
4039806001153	5LQ11273A	4.91
4039806001191	5LQ11274A	4.91
4039806001290	5LQ11673A	4.93

Order no. OSRAM	Order no. Siteco	Page
4039806001337	5LQ11674A	4.93
4039806001399	5LQ11773A	4.95
4039806001412	5LQ11774A	4.95
4039806008015	5LP11671C	4.92
4039806008039	5LP11671E	4.92
4039806008176	5LP11672C	4.92
4039806008190	5LP11672E	4.92
4039806008992	5LP11771C	4.94
4039806009012	5LP11771E	4.94
4039806009173	5LP11772C	4.94
4039806009210	5LP11772E	4.94
4039806014870	5LP12671C	4.92
4039806015051	5LP12672C	4.92
4039806015259	5LP12673A	4.93
4039806015358	5LP12674A	4.93
4039806016096	5LP12771C	4.94
4039806016171	5LP12772C	4.94
4039806016317	5LP12773A	4.95
4039806016379	5LP12774A	4.95
4039806018991	5TR56490H	8.62
4039806019011	5TR56490Q	8.62
4039806019042	5TR905642	8.62, 8.63, 8.64
4039806019073	5TR90580H	8.62, 8.63, 8.64
4039806024398	5LP21672C	3.69
4039806024411	5LP21672E	3.69
4039806025494	5LP21772C	3.72
4039806025517	5LP21772E	3.72
4039806035516	5LP41971C	4.100
4039806035530	5LP41971E	4.100
4039806045638	5LP90011	4.100, 4.101
4039806045850	5LP91202X	8.163
4039806045997	5LP91212X	8.163
4039806046079	5LP91303S	2.17, 2.22, 2.35, 2.53, 3.58
4039806046413	5LP95011	4.97, 4.101
4039806046437	5LP95014	4.97, 4.101
4039806046451	5LP95021	4.97, 4.101
4039806046475	5LP95024	4.97, 4.101
4039806046512	5LP97001C	3.70, 4.92, 4.96
4039806046536	5LP97001E	3.70, 4.92, 4.96
4039806050281	5LL21271C	3.67
4039806050328	5LL21271E	3.67
4039806050366	5LL21273A	3.68
4039806050403	5LL21274A	3.68
4039806050489	5LL21275C	3.67
4039806050526	5LL21275E	3.67
4039806051721	5LL21671C	3.70
4039806051769	5LL21671E	3.70
4039806051806	5LL21673A	3.71
4039806051844	5LL21674A	3.71
4039806051929	5LL21675C	3.70
4039806051967	5LL21675E	3.70
4039806052643	5LL21771C	3.73
4039806052681	5LL21771E	3.73
4039806052728	5LL21773A	3.74
4039806052766	5LL21774A	3.74
4039806052827	5LL21775C	3.73
4039806052865	5LL21775E	3.73
4039806054418	5LL96001	4.96
4039806058423	5NA52000XS	12.79, 12.80, 12.81, 12.84
4039806058485	5NA52002XS	12.79, 12.80, 12.81, 12.84
4039806058522	5NA52003XS	12.79, 12.80, 12.81, 12.84
4039806058560	5NA52004XS	12.71, 12.83
4039806059147	5NA52800BF	12.83, 12.85
4039806059666	5NA54900XG	12.83, 12.85
4039806072207	5NA52005XS	12.79, 12.81, 12.84
4039806072221	5NA52005XS1	12.79, 12.81, 12.84
4039806073617	5NY72400XS2	12.37

Order no. OSRAM	Order no. Siteco	Page
4039806077233	5NY72402XT10	12.38
4039806088758	5NY72400XW18	11.22, 12.38
4039806088772	5NY72400XM18	12.37
4039806089359	5LJ90910XC	8.163, 8.184, 9.91
4039806094537	5LE78012CR	8.147
4039806094551	5LE78012ER	8.147, 8.179, 8.180
4039806094650	5LJ90020XC1	8.198
4039806094681	5LJ90020XC2	8.198
4039806094735	5LE78032EGO	8.147, 8.179, 8.181
4039806094759	5LE98311UR	8.194
4039806095275	5LE78512ER	8.146, 8.179, 8.180
4039806096197	5LJ14000XC	8.145, 8.145
4039806096227	5LJ14001CS	8.146
4039806096241	5LJ14001ES	8.146, 8.179, 8.181
4039806096289	5LJ14002XD	8.148, 8.179, 8.182
4039806096326	5LJ14011CS	8.146
4039806096340	5LJ14011ES	8.146, 8.179, 8.181
4039806096388	5LJ14012CB0	8.144
4039806096418	5LJ14012EB0	8.144, 8.179
4039806096456	5LJ14022CB0	8.144
4039806096470	5LJ14022EB0	8.144, 8.179
4039806096579	5LJ14051EB0	8.138, 8.176
4039806101051	5LF91401	2.50, 2.52
4039806101099	5LF91411	2.50, 2.52
4039806106001	5LJ90900	8.162, 8.183, 9.91
4039806106032	5LJ90900XV	8.128
4039806106056	5LJ90901	8.162, 8.183, 9.91
4039806106087	5LJ90910E	8.127, 8.169
4039806106100	5LJ90910XD	8.128
4039806106124	5LJ90912XC	8.164, 8.184, 9.92
4039806106155	5LJ90920E	8.127, 8.169
4039806106193	5LJ90920XV	8.128
4039806106216	5LJ90921XC	8.162, 8.183, 9.91
4039806106247	5LJ90921XC2	8.163, 8.183, 9.91
4039806106261	5LJ90930E	8.127, 8.169
4039806106308	5LJ90930XC	8.162, 8.183, 9.91
4039806106322	5LJ90930XV	8.128
4039806106346	5LJ90940XC	3.76, 9.93
4039806108036	5LF91401A	2.52
4039806108050	5LF91411A	2.52
4039806110114	5LE98111UG	8.195
4039806110138	5LE98111RG	8.195
4039806110237	5LE98011RR	8.194
4039806111746	5LJ90020XCT	8.198
4039806113498	5LF91302A	2.20, 2.21
4039806113511	5LF91312A	2.20, 2.21
4039806113535	5LF91301A	2.21, 2.52
4039806113559	5LF91311A	2.21, 2.52
4039806119421	5LF91301	2.21, 2.50, 2.52
4039806119445	5LF91311	2.21, 2.50, 2.52
4039806119469	5LF91302	2.20, 2.21
4039806119483	5LF91312	2.20, 2.21
4039806120939	5LJ90010XV1	8.196
4039806131720	5LJ65702CS	8.145
4039806131744	5LJ65702ES	8.145
4039806131768	5LJ65701CS	8.145
4039806131782	5LJ65701ES	8.145
4039806131805	5LJ61201ER	8.145
4039806132086	5LJ90090XC	8.198
4039806132192	5LJ90060XC	8.199
4039806132215	5LJ90050XC	8.200, 9.94
4039806132246	5LJ90000ED	8.199
4039806132277	5LJ90050ED	8.197
4039806132307	5LJ90040XC	8.200, 9.94
4039806132628	5LE98011UR	8.194
4039806133106	5LJ90010XC	8.199
4039806133199	5LJ90010ED	8.196

Order no. OSRAM	Order no. Siteco	Page
4039806133243	5LJ91301UB	8.189
4039806133281	5LJ93301UB	8.191
4039806133403	5LJ90911XC	8.164, 8.184, 9.92
4039806133953	5LF90014XC	4.18, 4.22, 4.61, 4.88
4039806134035	5LF90110XC	4.88
4039806137470	5LF91305B	2.50, 2.52
4039806137494	5LF91306B	2.50, 2.52
4039806137517	5LF91305BA	2.52
4039806137531	5LF91306BA	2.52
4039806137593	5LF90024XC	4.18, 4.22, 4.61, 4.88
4039806137814	5LJ14512U	8.151
4039806137838	5LJ14512X	8.151
4039806137852	5LE14601UR	8.152
4039806137876	5LE14601RR	8.152
4039806137913	5LJ90910E1	8.127
4039806137937	5LJ90920E1	8.127
4039806137951	5LJ90930E1	8.127
4039806138460	5LE14501UR	8.152
4039806138484	5LE14501RR	8.152
4039806138507	5LE14502UR	8.152
4039806138521	5LE14502RR	8.152
4039806138705	5LE98311RR	8.194
4039806138941	5LJ14511U	8.150
4039806138965	5LJ14521U	8.150
4039806138989	5LJ14531U	8.150
4039806139009	5LJ14511R	8.150
4039806139023	5LJ14521R	8.150
4039806139047	5LJ14531R	8.150
4039806139351	5LJ90040E01	8.196
4039806139948	5LF90001L	2.20, 2.22, 2.26, 2.50, 2.53, 3.42
4039806141415	5LF28672J	10.26
4039806141439	5LF28672X	10.26
4039806141453	5LF28672F	10.26
4039806141477	5LF28673J	10.26
4039806141491	5LF28673X	10.26
4039806141514	5LF28673F	10.26
4039806141538	5LF28772X	10.27
4039806141552	5LF28772J	10.27
4039806141576	5LF28772F	10.27
4039806141590	5LF28773J	10.27
4039806141613	5LF28773X	10.27
4039806141637	5LF28773F	10.27
4039806141651	5LF90910XV	10.29
4039806141675	5LF9084	10.29
4039806141699	5LF90920X	10.29
4039806144386	5LK91300	8.163, 8.183, 8.197, 9.91
4039806157423	5LR61071SA11AE	6.26
4039806157447	5LR61071SA11AF	6.26
4039806157461	5LR61071TA11AE	6.26
4039806157485	5LR61071TA11AF	6.26
4039806157522	5LR61061SA11AF	6.26
4039806157546	5LR61061TA11AE	6.26
4039806157560	5LR61061TA11AF	6.26
4039806157669	5LR61271SA31AE	6.21
4039806157706	5LR61271TA31AE	6.21
4039806157829	5LR61261SA31AE	6.21
4039806158000	5LR61271SA41AF	6.21
4039806158048	5LR61271TA41AF	6.21
4039806158161	5LR61261SA41AF	6.21
4039806158208	5LR61261TA41AF	6.21
4039806159229	5LM59201	3.8, 3.10
4039806159243	5LM59202	3.9, 3.10
4039806160126	5LM593120S	2.26, 2.28
4039806160140	5LM593020S	2.26, 2.28
4039806160249	5LM593120W	2.26, 2.28
4039806160348	5LM59307	2.26, 2.27

Order no. OSRAM	Order no. Siteco	Page
4039806161185	5LR94683DT	6.7, 6.8, 6.10, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.35
4039806161208	5LR94685EE	6.7, 6.8, 6.9, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34
4039806161369	5LR61071SA11AA	6.27
4039806161383	5LR61071TA11AA	6.27
4039806161420	5LR61061TA11AA	6.27
4039806161444	5LR926800M	5.26, 6.10, 6.36
4039806161468	5LR94685CM	6.35
4039806161482	5LR94685QM	6.35
4039806161505	5LR94685TM	6.35
4039806161529	5LR94685RM	6.35
4039806161543	5LR94685SM	6.35
4039806161567	5LR94685CN	6.35
4039806161581	5LR926800N	5.26, 6.10, 6.36
4039806161703	5LR94685JM	6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.35
4039806162021	5LF90001L	2.26, 2.28, 2.28
4039806166098	5LS31301EK	9.36, 9.48
4039806166111	5LS31311EK	9.36, 9.48
4039806166180	5LS32200XV	8.106, 9.24, 9.36, 9.48, 9.64
4039806166203	5LS32201CS	9.30, 9.35, 9.40, 9.42, 9.47, 9.82
4039806166227	5LS32201ES	9.30, 9.31, 9.32, 9.35, 9.40, 9.41, 9.42, 9.43, 9.47, 9.82
4039806166241	5LS32202CS	9.30, 9.35, 9.40, 9.47, 9.47, 9.80, 9.82
4039806166265	5LS32202ES	9.30, 9.31, 9.32, 9.35, 9.40, 9.41, 9.42, 9.43, 9.47, 9.47, 9.80, 9.82
4039806166289	5LS32211EK	9.36, 9.48
4039806166531	5LS90800ED	8.130, 8.171
4039806166593	5LS90871E	8.174
4039806166630	5LS90872E	8.174
4039806166678	5LS90900XD	8.169, 8.170, 9.88, 9.90
4039806166692	5LS90910XD	8.169, 8.170, 9.88, 9.90
4039806166715	5LS90920E	9.88
4039806166739	5LS90930E	9.88
4039806167521	5LY9086	6.84, 9.37, 9.49, 9.86
4039806167583	5LY9115	2.52, 3.57, 3.64, 3.75, 10.28, 4.101
4039806167606	5LY9116	2.52, 3.57, 3.64, 3.75, 10.28, 4.101
4039806167637	5LY9117	2.52, 3.57, 3.64, 3.75, 10.28, 4.101
4039806167651	5LY9118	2.52, 3.57, 3.64, 3.75, 10.28, 4.101
4039806167712	5LY9140	6.84
4039806168108	5LJ90910XV	8.128, 8.169, 8.170, 9.88, 9.90
4039806168542	5LS44101	9.24, 9.63
4039806168566	5LS44102	9.24, 9.63
4039806170750	5LY90861	9.37, 9.49, 9.86, 9.96
4039806170774	5LS90900XC1	9.37, 9.49, 9.93
4039806171351	5LS44301CS	9.56, 9.57, 9.58, 9.62
4039806171375	5LS44301ES	9.56, 9.57, 9.58, 9.62
4039806171399	5LS44302CS	9.56, 9.57, 9.58, 9.62
4039806171412	5LS44302ES	9.56, 9.57, 9.58, 9.62
4039806171436	5LS44301EK	9.64
4039806171450	5LS44311EK	9.64
4039806171481	5LS44321EK	9.64
4039806171511	5LS44211EK	9.64
4039806171535	5LS44001	9.26, 9.65
4039806171559	5LS44002	9.25, 9.65, 9.93
4039806171573	5LS44201CS	9.56, 9.57, 9.58, 9.62
4039806171597	5LS44201ES	9.56, 9.57, 9.58, 9.62
4039806171610	5LS44202CS	9.56, 9.57, 9.58, 9.62
4039806171634	5LS44202ES	9.56, 9.57, 9.58, 9.62
4039806171696	5LS91120EC	9.17, 9.25, 9.38, 9.50, 9.66, 9.86, 9.97



Order no. OSRAM	Order no. Siteco	Page
4039806171931	5LS31321EK	9.36, 9.48
4039806172914	5LY91401	10.13, 10.23, 10.29
4039806174956	5LJ14012XD	8.144, 8.148, 8.179, 8.182
4039806174987	5LJ14020XD	8.144, 8.148, 8.179, 8.182
4039806175014	5LJ14052XD	8.138, 8.139, 8.176, 8.177
4039806175038	5LJ14055XD	8.138, 8.139, 8.176, 8.177
4039806175076	5LS35071C	9.72
4039806175090	5LS35071E	9.72
4039806175472	5NX76721V	10.45
4039806175854	5LJ48400XJ	2.43, 9.73
4039806175908	5LS90800XD	9.88, 9.90
4039806175991	5LY9111	9.37, 9.49, 9.86, 9.96
4039806176011	5LY9113	8.164, 8.184, 9.37, 9.49, 9.92, 10.29, 10.41
4039806180933	5NJ14301XC	10.32, 10.38, 10.39, 10.40
4039806184290	5LY9001	8.34, 8.100, 8.120, 8.199, 9.17, 9.25, 9.65, 7.8, 7.20
4039806184313	5LY9002	8.34, 8.100, 8.120, 8.199, 9.17, 9.25, 9.65, 7.8, 7.20
4039806184368	5LY9004	8.34, 8.100, 8.120, 8.199, 9.17, 9.25, 9.65, 7.8, 7.20
4039806184405	5LJ90030UD1	8.196
4039806184610	5LS35071A	9.72
4039806184702	5LE98111UH	8.195
4039806184726	5LE98111RH	8.195
4039806187055	5LJ90030EDA1	8.196
4039806187079	5LJ90030ED1	8.196
4039806187116	5LJ90030EDA2	8.196
4039806188328	5LS34000CD	9.72, 9.73
4039806189196	5NY72400XE10	12.38
4039806189431	5LR91150BA	5.48
4039806189455	5LR91160BA	5.82
4039806189561	5LR91160BC	5.82
4039806190024	5NX76121V	10.44
4039806192332	5LS34071J	9.72
4039806193292	5LS23472TR	6.68
4039806193476	5LR91150BJ	5.48
4039806193537	5LR91160BJ	5.82
4039806193919	5LJ14511XDS	8.65, 8.66
4039806193964	5LJ14510XD	8.150, 8.151, 8.153
4039806193995	5LJ14511XD	8.65, 8.66, 8.150, 8.151, 8.153
4039806194022	5LJ14512XD	8.66, 8.152
4039806194336	5LR94681CE	6.7, 6.8, 6.9, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34
4039806194404	5LJ90020XCL	8.198
4039806194626	5LR91680BD	6.11, 6.37
4039806194640	5LR91680BJ	6.11, 6.37
4039806194664	5LR91684BG	6.11, 6.37
4039806194688	5LR91680BC	6.11, 6.37
4039806195517	5LS23472TQ	6.69
4039806197108	5LJ90030XC2	8.197
4039806197252	5LJ14912JU	8.141, 8.154
4039806198839	5LF90002L	2.20, 2.22, 2.26, 2.28, 2.50, 2.53, 3.42, 3.59
4039806198853	5LS23402TWQ	6.70
4039806198877	5LS23402TWR	6.70
4039806199973	5NY70012XK	12.67, 12.68, 12.69, 12.70, 12.71, 12.73, 12.74, 12.75, 12.76, 12.77, 12.78, 12.79, 12.80, 12.81, 12.82, 12.83
4039806201935	5LF90005L	2.20, 2.22, 2.26, 2.28, 2.50, 2.53, 3.42, 3.59
4039806201959	5LJ14912R	8.141, 8.154
4039806202017	5LM59101	4.13, 4.14
4039806203304	5LJ96902	8.163
4039806203359	5LE14601UR1	8.141, 8.142, 8.154
4039806203373	5LE14601RR1	8.141, 8.142, 8.154
4039806203397	5LE14601UR2	8.141, 8.142, 8.154

Order no. OSRAM	Order no. Siteco	Page
4039806203410	5LE14601RR2	8.141, 8.142, 8.154
4039806203755	5LR61071SA14EE	6.29
4039806204905	5LM59102	4.12, 4.14
4039806204929	5LM59103	4.8, 4.9, 4.10, 4.13, 4.14
4039806205209	5LR610D1SA11AE	6.26
4039806205223	5LR610D1SA11AF	6.26
4039806205308	5LR610D1TA11AA	6.27
4039806205360	5LR610D1TA11AE	6.26
4039806205384	5LR610D1TA11AF	6.26
4039806205421	5LR61271SA45CF	6.25
4039806205445	5LR612D1SA41AF	6.21
4039806205520	5LS23471TR	6.68
4039806205575	5NA90011MB100R	12.54
4039806205599	5NA90011ME100R	12.54
4039806205612	5NA90011MS100R	12.54
4039806205643	5NA90011PB100R	12.54
4039806205667	5NA90011PE100R	12.54
4039806205681	5NA90011PS100R	12.54
4039806205698	5NA95011NA100	12.55
4039806205704	5NA95011NS100	12.55
4039806205711	5NA95011PA100	12.55
4039806205728	5NA95011PS100	12.55
4039806205810	5NX95000XG02	12.55
4039806205827	5NX95000XG03	12.55
4039806205834	5NX95000XG04	12.55
4039806205841	5NX95000XG42	12.55
4039806206497	5LR61071TA13MJ	6.30
4039806206510	5LR61071TA13NJ	6.30
4039806206534	5LR61071TA15DE	6.33
4039806206886	5LA91011FA300	12.50
4039806206923	5LA91011LA300	12.50
4039806206985	5LA91111FA308	12.50
4039806207005	5LA91111FB308	12.50
4039806207029	5LA91111LA308	12.50
4039806207081	5LA91011BW300	12.50
4039806207166	5LA91211LA308	12.50
4039806207418	5NX95000XG02	12.50, 12.54, 12.56, 12.57
4039806207425	5NX95000XG04	12.50, 12.54, 12.56, 12.57
4039806207432	5NX95000XG42	12.50, 12.54, 12.56, 12.57
4039806207623	5LA96011FA300	12.51
4039806207647	5LA96011M0300	12.51
4039806207708	5LR61271TA43NJ	6.24
4039806209788	5NJ311000	10.32, 10.38, 10.39
4039806209801	5NJ316000	10.33
4039806210357	5NA54903XG	12.85
4039806210371	5NX95000XG03	12.50, 12.54, 12.56, 12.57
4039806210432	5NJ331000	10.34, 10.36, 10.38, 10.39
4039806210456	5NJ332000	10.34, 10.36, 10.38, 10.39
4039806211712	5LJ14001ES1	8.137
4039806211736	5LJ14011ES1	8.137
4039806211750	5LJ14021ES1	8.137
4039806211774	5LJ90910U	8.127
4039806211798	5LJ90910U1	8.127
4039806211811	5LJ90920U	8.127
4039806211835	5LJ90920U1	8.127
4039806211859	5LJ90930U	8.127
4039806211873	5LJ90930U1	8.127
4039806212399	5LR35771GA61	5.74
4039806212450	5LR35772GA61	5.74
4039806212474	5LR35772LA61	5.74
4039806212634	5LR36771GA61	5.76
4039806212696	5LR36772GA61	5.76
4039806212719	5LR36772LA61	5.76
4039806212870	5LR37771GA61	5.78
4039806212931	5LR37772GA61	5.78
4039806212955	5LR37772LA61	5.78
4039806213259	5NJ300000	10.34, 10.35, 10.38, 10.39, 10.40



Order no. OSRAM	Order no. Siteco	Page
4039806213440	5LR61071TA15CF	6.33
4039806213464	5LR61071TA15DF	6.33
4039806213686	5NJ30000T	10.36, 10.40
4039806213853	5LM59104	4.8, 4.9, 4.10, 4.12, 4.13, 4.14, 4.14
4039806214119	5LR61071SA13VA	6.32
4039806216533	5LR94363DK	5.80
4039806216557	5LR94365CH	5.80
4039806216571	5LR95364CP	5.81
4039806216922	5NX72400XG0208	12.34, 12.36
4039806216939	5NX72400XG0308	12.34, 12.36
4039806216946	5NX72400XG0408	12.34, 12.36
4039806216953	5NX72400XG4208	12.34, 12.36
4039806219565	5LR612D1TA31AE	6.21
4039806219589	5LR926800P	5.26, 6.10, 6.36
4039806220585	5LR36771VA61	5.76
4039806221223	5NA59000XF	10.32, 10.34, 10.35, 10.41
4039806221377	5LR926800G	5.26, 6.10, 6.36
4039806223005	5NX90000XG00R	12.54, 12.56
4039806223012	5NX95000XG00R	12.55, 12.57
4039806223425	5LR35771VA61	5.74
4039806223500	5NX72400XB01	11.22, 12.34, 12.36
4039806225047	5LR37771VA61	5.78
4039806225474	5NJ333000	10.35, 10.38, 10.39
4039806225955	5LR94361AB	5.81
4039806228680	5LR61071SA11AF02	6.28
4039806228703	5LR94364AB	5.81
4039806231796	5LE98111UA	8.193
4039806231819	5LE98211RR2	8.193
4039806231833	5LE98211UR2	8.193
4039806232724	5LE98111RA	8.193
4039806232762	5LR94684CE	6.7, 6.8, 6.9, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34
4039806232786	5LR94688CE	6.7, 6.8, 6.9, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34
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4039806234254	5LR612D1TA41AF	6.21
4039806235022	5LE98411UR2	8.193
4039806235121	5LR61071SA15CE	6.33
4039806238764	5LR61071TA13VA	6.32
4039806240804	5LR61271TA45DF	6.25
4039806241009	5LR61071SA15DF	6.33
4039806241092	5NX90000XG00	12.54, 12.56, 12.56
4039806241108	5NX95000XG00	12.55, 12.57
4039806246349	5LA90011LA100	12.54
4039806246523	5LJ90861C1	8.132
4039806246547	5LJ90861E1	8.132
4039806246660	5LJ90862C1	8.132
4039806246684	5LJ90862E1	8.132
4039806246905	5LR61071SA15DE	6.33
4039806251589	5LR36771VA6102	5.77
4039806251626	5LR37771VA6102	5.79
4039806251688	5LR61071TA11AF02	6.28
4039806251978	5LS31301AD	9.63
4039806251985	5LS31301CD	9.24, 9.63
4039806251992	5LS31301ED	9.24, 9.63
4039806252005	5LS31302AD	9.63
4039806252012	5LS31302CD	9.24, 9.63
4039806252029	5LS31302ED	9.24, 9.63
4039806252036	5LS32201AD	9.35, 9.47
4039806252043	5LS32201CD	9.35, 9.47
4039806252050	5LS32201ED	9.35, 9.47
4039806252067	5LS32202CD	9.35, 9.47
4039806252074	5LS32202ED	9.35, 9.47
4039806255105	5LF913020D	3.58
4039806255136	5LF915010D	3.59

Order no. OSRAM	Order no. Siteco	Page
4039806255617	5NY72400XR	12.37
4039806255709	5LR92204BS	5.26, 6.10, 6.36
4039806255747	5LR92264BB	5.26
4039806256935	5LR92204BT	5.26, 6.10, 6.36
4039806256959	5LR92208BS	5.26, 6.10, 6.36
4039806256973	5LR92208BT	5.26, 6.10, 6.36
4039806257512	5NW92640A	11.17
4039806257796	5NW92640B	11.17
4039806257819	5NW92640C	11.17
4039806258687	5NX724E1MB08	11.21, 12.35
4039806258700	5NX724E1MS08	12.35
4039806258724	5NX724E1PB08	11.21, 12.35
4039806259714	5LS32201EST1	9.47, 9.80
4039806260031	5LR35771VA6102	5.75
4039806260499	5LF90011	4.70
4039806260512	5LF90012	4.70
4039806260536	5LF90021	4.70
4039806260550	5LF90022	4.70
4039806265135	5NW726400C	11.16
4039806265258	5NX724E1PS08	12.35
4039806266149	5LJ90871ED2	8.134
4039806267030	5LF41671F	4.66
4039806267054	5LF41671J	4.66
4039806267078	5LF41671P	4.66
4039806267092	5LF41671R	4.66
4039806267115	5LF41671X	4.66
4039806267139	5LF41672F	4.66
4039806267153	5LF41672J	4.66
4039806267177	5LF41672P	4.66
4039806267191	5LF41672R	4.66
4039806267214	5LF41672X	4.66
4039806267238	5LF41B71F	4.64
4039806267252	5LF41B71J	4.64
4039806267276	5LF41B71P	4.64
4039806267290	5LF41B71R	4.64
4039806267313	5LF41B71X	4.64
4039806267337	5LF41B72F	4.64
4039806267351	5LF41B72J	4.64
4039806267375	5LF41B72P	4.64
4039806267399	5LF41B72R	4.64
4039806267412	5LF41B72X	4.64
4039806269605	5LR91360BB	5.82
4039806269874	5LR91360BD	5.83
4039806269898	5LR91364BG	5.82
4039806270238	5NW726400A	11.16
4039806270252	5NW726400B	11.16
4039806270924	5LJ90900XY	8.129, 8.136, 8.171
4039806271976	5LJ80002XK	2.52, 3.64, 3.75, 8.129, 8.171, 4.96
4039806271983	5LJ80003XK	3.64, 8.129, 8.136, 8.171
4039806271990	5LJ80005XK	8.129, 8.136, 8.171
4039806280367	5LA52822KS28	12.71
4039806280381	5LA52822KS38	12.71
4039806280404	5LA52822KS58	12.72
4039806280428	5LA52822KS68	12.72
4039806280565	5LA52922KS28	12.79
4039806280572	5LA52922KS28D	12.81
4039806280596	5LA52922KS38	12.79
4039806348470	5NA528E1MR28	12.71
4039806348494	5NA528E1MR38	12.71
4039806348531	5NA528E1MR58	12.72
4039806348555	5NA528E1MR68	12.72
4039806348579	5NA528E1MS28	12.71
4039806348593	5NA528E1MS38	12.71
4039806348616	5NA528E1MS58	12.72
4039806348630	5NA528E1MS68	12.72
4039806350237	5NA529E1MR28	12.79

Order no. OSRAM	Order no. Siteco	Page
4039806350244	5NA529E1MR28D	12.81
4039806350268	5NA529E1MR38	12.79
4039806350305	5NA529E1MR58	12.80
4039806350329	5NA529E1MR68	12.80
4039806350343	5NA529E1MS28	12.79
4039806350350	5NA529E1MS28D	12.81
4039806350374	5NA529E1MS38	12.79
4039806350398	5NA529E1MS58	12.80
4039806350411	5NA529E1MS68	12.80
4039806367778	5LS32200EK	9.36, 9.48
4039806367907	5LS44200EK	9.64
4039806369246	5LY9114	6.84
4039806369253	5LY9142	3.76, 6.84, 9.86, 9.93
4039806369291	5LY9183	3.75, 10.28
4039806371393	5NW41421RG1	11.24, 12.40
4039806371409	5NW41421RS2	12.40
4039806371416	5NW41421TG1	11.24, 12.40
4039806371423	5NW41421TS2	12.40
4039806373472	5LJ90871ED3	8.133
4039806373519	5LJ90872ED3	8.133
4039806374011	5NX9000XG01	12.50, 12.56, 12.56
4039806374028	5NX9500XG01	12.57
4039806377012	5NX72400XG18	12.38
4039806378446	5LY9084	9.37, 9.49
4039806378712	5LZ9031	13.71, 13.79
4039806388056	5LJ90871ED01	8.135
4039806388070	5LJ90872ED01	8.135
4039806388254	5LS23472SR	6.68
4039806395979	5LE98411RR2	8.193
4039806400499	5LR35761VA61	5.74
4039806400536	5LR357D1VA61	5.74
4039806400567	5LR36761VA61	5.76
4039806400604	5LR367D1VA61	5.76
4039806400635	5LR37761VA61	5.78
4039806400666	5LR37D1VA61	5.78
4039806405746	5LP12B74A	4.91
4039806405883	5LP21B72C	3.66
4039806405906	5LP21B72E	3.66
4039806407740	5LF91501AD	3.59
4039806408679	5LF91302AD	3.58
4039806411983	5LF9011	4.70
4039806412003	5LF9012	4.70
4039806412027	5LP11B71C	4.90
4039806413536	5LS32901AW	9.50
4039806413550	5LS32901CW	9.50
4039806413574	5LS32901EW	9.50
4039806413802	5LP11B71E	4.90
4039806413826	5LP11B72C	4.90
4039806414106	5LF41B71JW	4.65
4039806414120	5LF41B71PW	4.65
4039806414144	5LF41B72JW	4.65
4039806414168	5LF41B72PW	4.65
4039806414243	5LP11B72E	4.90
4039806414267	5LP12B72C	4.90
4039806414359	5LJ90871ED41	8.135
4039806414373	5LJ90872ED41	8.135
4039806415103	5LR61271TA35CE	6.25
4039806415660	5LF41671FW	4.67
4039806415677	5LF41671JW	4.67
4039806415684	5LF41671PW	4.67
4039806415691	5LF41671RW	4.67
4039806415707	5LF41671XW	4.67
4039806415714	5LF41672FW	4.67
4039806415721	5LF41672JW	4.67
4039806415738	5LF41672PW	4.67
4039806415745	5LF41672RW	4.67
4039806415752	5LF41672XW	4.67

Order no. OSRAM	Order no. Siteco	Page
4039806415868	5LF41B71FW	4.65
4039806415875	5LF41B71RW	4.65
4039806415882	5LF41B71XW	4.65
4039806415899	5LF41B72FW	4.65
4039806415905	5LF41B72RW	4.65
4039806415912	5LF41B72XW	4.65
4039806416032	5LF41W71FW	4.69
4039806416049	5LF41W71JW	4.69
4039806416056	5LF41W71PW	4.69
4039806416063	5LF41W71RW	4.69
4039806416087	5LF41W72FW	4.69
4039806416100	5LF41W72PW	4.69
4039806416117	5LF41W72RW	4.69
4039806417435	5LP12B71C	4.90
4039806417497	5LP12B73A	4.91
4039806418531	5LF91302BD	2.46, 2.47
4039806418555	5LF91502BD	2.46, 2.47
4039806418593	5LR61071TA15CE	6.33
4039806418630	5LR61271TA35DE	6.25
4039806418777	5LA96211FA300	12.51
4039806418920	5MM12475UX	2.46
4039806418944	5MM12476YX	2.46
4039806418968	5MM12477TJ	2.46
4039806420176	5NA90011LB100R	12.54
4039806420183	5NA90011LE100R	12.54
4039806420190	5NA90011LS100R	12.54
4039806422262	5LR61271TA44EF	6.23
4039806425171	5MS43672ULO	6.40
4039806425188	5MS43677VLO	6.40
4039806427038	5NA5771NS2208	10.58
4039806427045	5LR61271SA43KJ	6.24
4039806429001	5LF41W71F	4.68
4039806429018	5LF41W71J	4.68
4039806429025	5LF41W71P	4.68
4039806429032	5LF41W71R	4.68
4039806429100	5LF41W72F	4.68
4039806429124	5LF41W72P	4.68
4039806429131	5LF41W72R	4.68
4039806434333	5LJ90872ED2	8.134
4039806435378	5LR61071SA14VA	6.31
4039806435385	5LR61071TA13WJ	6.30
4039806435392	5LR61071TA14VA	6.31
4039806435408	5LR61071SA13KJ	6.30
4039806435446	5LR61071SA15CF	6.33
4039806435590	5LR61071SA14EF	6.29
4039806435620	5LR61071TA14EE	6.29
4039806435637	5LR61071TA14EF	6.29
4039806435705	5LR61271SA43MJ	6.24
4039806435712	5LR61271SA43NJ	6.24
4039806435729	5LR61271SA43WJ	6.24
4039806435736	5LR61271TA33WJ	6.24
4039806435750	5LR61271TA43WJ	6.24
4039806435811	5LR61271TA33MJ	6.24
4039806435842	5LR61271SA35CE	6.25
4039806435859	5LR61271SA35DE	6.25
4039806435873	5LR61271SA45DF	6.25
4039806435903	5LR61271SA34EE	6.23
4039806435910	5LR61271SA44EF	6.23
4039806435927	5LR61271TA34EE	6.23
4039806436238	5NX722E1HB08	12.34
4039806436252	5NX722E1HS08	12.34
4039806436276	5NX722E1MB08	11.20, 12.34
4039806436290	5NX722E1MS08	12.34
4039806436467	5LY91201	3.58
4039806436474	5LY91202	3.58
4039806436511	5LM59301A	2.20, 2.21
4039806436535	5LM59311A	2.20, 2.21

Order no. OSRAM	Order no. Siteco	Page
4039806437105	5LR61271SA41AF02	6.22
4039806439116	5LJ23101AW	6.85
4039806439130	5LJ23101CW	6.85
4039806439154	5LJ23101EW	6.85
4039806439178	5LJ23102AW	6.85
4039806439192	5LJ23102CW	6.85
4039806439215	5LJ23102EW	6.85
4039806439239	5LJ23104AW	6.85
4039806439253	5LJ23201AW	6.85
4039806439277	5LJ23201CW	6.85
4039806439291	5LJ23201EW	6.85
4039806439314	5LJ23202AW	6.85
4039806439338	5LJ23202CW	6.85
4039806439352	5LJ23202EW	6.85
4039806439376	5LJ23204AW	6.85
4039806440099	5LS32201EW	9.38
4039806440112	5LS32202CW	9.38
4039806440136	5LS32202EW	9.38
4039806440150	5LS32901EWT1	9.50
4039806440174	5LS32902CW	9.50
4039806440198	5LS32902EW	9.50
4039806440211	5LS32902EWT1	9.50
4039806440235	5LS32911AW	9.50
4039806440259	5LS32911CW	9.50
4039806440273	5LS32911EW	9.50
4039806440297	5LS32912CW	9.50
4039806440310	5LS32912EW	9.50
4039806440471	5LS41272EA0007	9.57
4039806440594	5LS44901AW	9.66
4039806440617	5LS44901CW	9.26, 9.66
4039806440631	5LS44901EW	9.26, 9.66
4039806440655	5LS44902AW	9.66
4039806440679	5LS44902CW	9.26, 9.66
4039806440693	5LS44902EW	9.26, 9.66
4039806440716	5LS44911AW	9.66
4039806440730	5LS44911CW	9.26, 9.66
4039806440754	5LS44911EW	9.26, 9.66
4039806440778	5LS44912AW	9.66
4039806440792	5LS44912CW	9.26, 9.66
4039806440815	5LS44912EW	9.26, 9.66
4039806440938	5NA75700XG08	10.64
4039806441034	5NA75800XG08	10.64
4039806442086	5NA75700ES	12.37
4039806442413	5LS32201CW	9.38
4039806443199	5LF90005XC	4.18, 4.22
4039806445803	5LS90871EFO	8.175
4039806445810	5LS90872EFO	8.175
4039806445971	5MS42673ULO	1.8
4039806445988	5MS42674ULO	1.8
4039806449610	5NW13991KA	11.13
4039806449627	5NW13991KB	11.13
4039806449634	5NW13991KC	11.13
4039806449641	5NW13991QA	11.12
4039806449658	5NW13991QB	11.12
4039806449665	5NW13991QC	11.12
4039806449733	5NW13993KA	11.13
4039806449740	5NW13993KB	11.13
4039806449757	5NW13993KC	11.13
4039806449764	5NW13993QA	11.12
4039806449771	5NW13993QB	11.12
4039806449788	5NW13993QC	11.12
4039806455413	5NY75701XW2108	10.52, 10.56, 10.58, 10.64
4039806461957	5LJ10072Y	7.17
4039806462039	5LJ100D1C	7.18
4039806462053	5LJ100D1E	7.18
4039806463401	2LS32972EA05	9.43
4039806463722	5LS41261A	9.56

Order no. OSRAM	Order no. Siteco	Page
4039806496157	5TR10150H	8.7, 8.39
4039806496164	5TR10150Q	8.7, 8.39
4039806496195	5TR101A0H	8.7, 8.39
4039806496201	5TR101A0Q	8.7, 8.39
4039806496256	5TR10250H	8.7, 8.39
4039806496263	5TR10250Q	8.7, 8.39
4039806496294	5TR102A0H	8.7, 8.39
4039806496300	5TR102A0Q	8.7, 8.39
4039806496355	5TR10350H	8.7, 8.39
4039806496362	5TR10350Q	8.7, 8.39
4039806496393	5TR103A0H	8.7, 8.39
4039806496409	5TR103A0Q	8.7, 8.39
4039806498168	5MJ21171H	3.54
4039806498175	5MJ21171Q	3.54
4039806498199	5MJ21172H	3.54
4039806498212	5MJ21172X	3.54
4039806498236	5MJ22271H	3.53
4039806498243	5MJ22271Q	3.53
4039806498267	5MJ22272H	3.53
4039806498281	5MJ22272X	3.53
4039806498304	5MJ22371HS	3.52
4039806498335	5MJ22371OS	3.52
4039806498359	5MJ22372HS	3.52
4039806498397	5MJ22372XS	3.52
4039806498403	5MJ23171H	3.56
4039806498410	5MJ23171Q	3.56
4039806498427	5MJ23172H	3.56
4039806498458	5MJ24371HS	3.55
4039806498465	5MJ24371OS	3.55
4039806498472	5MJ24372HS	3.55
4039806502766	5LR35762LA61	5.74
4039806502780	5LR357D2LA61	5.74
4039806502797	5LR36762LA61	5.76
4039806502810	5LR367D2LA61	5.76
4039806503091	5LR61071SA11AE02	6.28
4039806503107	5LR61271SA31AE02	6.22
4039806503114	5LR612D1SA31AE	6.21
4039806503688	5LR37762LA61	5.78
4039806503695	5LR37D2LA61	5.78
4039806504289	5NA75701SS2208H	10.58
4039806504463	5LM59105	4.8, 4.9, 4.10
4039806505101	5TR30171H	8.43
4039806505118	5TR30171Q	8.43
4039806505125	5TR30172H	8.43
4039806505132	5TR30172Q	8.43
4039806505149	5TR30371H1H	8.51
4039806505163	5TR30371HR	8.47
4039806505170	5TR30371Q1H	8.51
4039806505187	5TR30371QR	8.47
4039806505217	5TR30372HR	8.47
4039806505224	5TR30372Q1H	8.51
4039806505231	5TR30372QR	8.47
4039806505248	5TR50120H	8.69
4039806505255	5TR50120Q	8.69
4039806505262	5TR50140H	8.74
4039806505279	5TR50140Q	8.74
4039806505309	5TR56120H	8.68
4039806505316	5TR56120Q	8.68
4039806505323	5TR56140H	8.73
4039806505330	5TR56140Q	8.73
4039806505347	5TR9012	8.34, 8.100, 8.120
4039806505354	5TR901302	8.33, 8.99, 8.119
4039806505361	5TR901312	8.33, 8.99, 8.119
4039806505378	5TR901322	8.33, 8.99, 8.119
4039806505637	5LS91011EN	9.89
4039806505644	5LS91012EN	9.89
4039806505651	5LS91013EN	9.89

Order no. OSRAM	Order no. Siteco	Page
4039806505668	5LS91101EA	8.33, 8.99, 8.119, 9.96
4039806505675	5LS91101EV	9.89, 9.95
4039806507693	5LF90003L	2.14, 2.17, 2.30, 2.32, 2.35, 3.42, 3.58
4039806507709	5LF90006L	2.14, 2.17, 2.35, 3.42, 3.58
4039806508522	5LY91203	3.58
4039806508546	5MJ20001	3.58
4039806509451	5LE17501ER	8.172, 8.173
4039806509505	5LJ17031ES1	8.143, 8.178
4039806509536	5LS17571EBO	8.172
4039806509543	5LS17572EBO	8.172
4039806509550	5LS17671EBO	8.172
4039806509741	5MJ20002HA	3.53, 3.54, 3.56, 3.57
4039806509758	5MJ20002HS	3.53, 3.54, 3.56, 3.57
4039806509765	5MJ20002QA	3.53, 3.54, 3.56, 3.57
4039806509772	5MJ20002QS	3.53, 3.54, 3.56, 3.57
4039806509796	5MJ21102HW	3.60
4039806509802	5MJ21102QW	3.60
4039806509826	5MJ22202HW	3.60
4039806509833	5MJ22202QW	3.60
4039806509857	5MJ22302HW	3.60
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4039806509895	5MJ24302HW	3.60
4039806509901	5MJ24302QW	3.60
4039806510334	5LJ90060XC1S	8.197
4039806510341	5LJ90060XC2	8.197
4039806510365	5LJ90070XC1S	8.198
4039806510389	5LJ90080XC1S	8.198
4039806510990	5MD11371G	6.64
4039806511010	5MD11901OW	6.65
4039806511027	5MD11902OW	6.65
4039806511034	5MD11903OW	6.65
4039806511058	5MD12372T	6.64
4039806511089	5MD12471D	6.64
4039806511102	5MD12472H	6.64
4039806511119	5MD12472S	6.64
4039806511126	5MD12475D	6.64
4039806511157	5MD13471D	6.64
4039806511164	5MD13471P	6.64
4039806511171	5MD13472H	6.64
4039806511195	5MD13475D	6.64
4039806511218	5MD19901O2	6.65
4039806511232	5MD19902O2	6.65
4039806511256	5MD19903O2	6.65
4039806511478	5MD81471M1	6.43
4039806511485	5MD81471M3	6.43
4039806511492	5MD81471Y1	6.43
4039806511508	5MD81471Y3	6.43
4039806511539	5MD81901OW	6.44
4039806511560	5MD82471K1	6.43
4039806511577	5MD82471K3	6.43
4039806511607	5MD82902OW	6.44
4039806511638	5MD85471M1	6.42
4039806511645	5MD85471M3	6.42
4039806511652	5MD85471W1	6.42
4039806511669	5MD85471W3	6.42
4039806511676	5MD85471Y1	6.42
4039806511683	5MD85471Y3	6.42
4039806511713	5MD85901OW	6.44
4039806512642	5MJ20004BW	3.59
4039806512666	5LY9142	3.59, 3.59
4039806512970	2LS322D1E	9.30
4039806513137	5LJ93371QMD	8.192
4039806513151	5LJ93371QX03D	8.192
4039806514660	2LS322D2E	9.30

Order no. OSRAM	Order no. Siteco	Page
4039806520111	5LJ10071H	7.16
4039806520128	5LJ10071Q	7.16
4039806522436	5LS91101	9.89, 9.97
4039806522443	5LS91102	9.89, 9.97
4039806523952	5NJ60031FN	10.34, 10.35
4039806524423	5LS42272CA04	9.60
4039806524881	5MJ20002	3.58
4039806525413	5LS412D1E	9.56
4039806525819	5NJ60031EN	10.32, 10.33, 10.34, 10.35
4039806526090	5NJ60031DN	10.32, 10.34, 10.35
4039806526274	5NJ60031AN	10.36
4039806526281	5NJ60031FNA	10.32, 10.33
4039806527653	5LS41271CA0003	9.57
4039806527677	5LS41271EA0003	9.57
4039806527691	5LS41272CA0003	9.57
4039806527714	5LS41272EA0003	9.57
4039806530097	5LS42272JE	9.55
4039806530196	5LS412D2E	9.56
4039806533852	5MJ222D1H	3.53
4039806533876	5MJ222D1Q	3.53
4039806536808	2LS32961EP1	9.40
4039806536815	2LS32962EP1	9.40
4039806537218	5MJ211D2H	3.54
4039806537362	5LS422D1E	9.58
4039806537485	5LS422D2E	9.58
4039806537515	5LJ90871Q	8.149
4039806539311	5LJ93371Q	8.191
4039806539335	5NJ60031EN03	10.39
4039806539342	5NJ60031ENT	10.38
4039806539403	5MJ22261H	3.53
4039806539427	5NJ60031FNT	10.38
4039806539861	5MJ22261Q	3.53
4039806541413	5MJ22262H	3.53
4039806541598	5MJ223D1QS	3.52
4039806544834	5MJ211D1Q	3.54
4039806545275	5LS41261CA0007	9.57
4039806545299	5LS41261EA0007	9.57
4039806545312	5LS41262CA0007	9.57
4039806545336	5LS41262EA0007	9.57
4039806545350	5LS41271CA0007	9.57
4039806545374	5LS41271EA0007	9.57
4039806545398	5LS41272CA0007	9.57
4039806545633	5LS42271EA05	9.60
4039806545855	5TR901332	8.33, 8.99, 8.119
4039806546630	5TR9016	8.9, 8.16, 8.41
4039806546654	5TR90562	8.67, 8.68, 8.69, 8.70
4039806546715	5TR90561	8.59, 8.60, 8.61
4039806546739	5TR90564	8.73, 8.74, 8.75
4039806546944	5TR9066	8.54, 8.55, 8.56
4039806547088	5LY91115	2.14, 2.17
4039806547101	5LY91116	2.14, 2.17
4039806547651	5LY91105	2.14, 2.17
4039806547675	5LY91106	2.14, 2.17
4039806547699	5LY91107	2.14, 2.17
4039806547712	5LY91108	2.14, 2.17
4039806549754	5LZ904605	13.65, 13.68
4039806551030	5MC25462HS1	2.11
4039806551047	5MC25462HS2	2.10
4039806551078	5MC25472HS1	2.11
4039806551085	5MC25472HS2	2.10
4039806551115	5MC254D2HS1	2.11
4039806551122	5MC254D2HS2	2.10
4039806555793	5NA9000R	12.54, 12.56
4039806555816	5NJ60031FN03	10.39
4039806555953	5NJ63731KNH	10.37
4039806555960	5NJ63731LNH	10.37
4039806557070	5TR16150H	8.7, 8.39

Order no. OSRAM	Order no. Siteco	Page
4039806557094	5TR16150Q	8.7, 8.39
4039806557155	5TR161A0H	8.7, 8.39
4039806557179	5TR161A0Q	8.7, 8.39
4039806557278	5TR16250H	8.7, 8.39
4039806557292	5TR16250Q	8.7, 8.39
4039806557353	5TR162A0H	8.7, 8.39
4039806557377	5TR162A0Q	8.7, 8.39
4039806557476	5TR16350H	8.7, 8.39
4039806557490	5TR16350Q	8.7, 8.39
4039806557551	5TR163A0H	8.7, 8.39
4039806557575	5TR163A0Q	8.7, 8.39
4039806557599	5TR30000H	8.10, 8.42
4039806557612	5TR30000Q	8.10, 8.42
4039806557636	5TR30161H	8.43
4039806557643	5TR30161Q	8.43
4039806557650	5TR30162H	8.43
4039806557667	5TR30162Q	8.43
4039806557698	5TR301D1H	8.43
4039806557704	5TR301D1Q	8.43
4039806557711	5TR301D2H	8.43
4039806557728	5TR301D2Q	8.43
4039806557735	5TR30200Q	8.10, 8.42
4039806557742	5TR30361H1H	8.51
4039806557773	5TR30361Q1H	8.51
4039806557827	5TR30362Q1H	8.51
4039806557841	5TR303D1H1H	8.51
4039806557865	5TR303D1HR	8.47
4039806557872	5TR303D1Q1H	8.51
4039806557889	5TR303D1QR	8.47
4039806557919	5TR303D2HR	8.47
4039806557926	5TR303D2Q1H	8.51
4039806557933	5TR303D2QR	8.47
4039806557940	5TR36000H	8.10, 8.42
4039806557957	5TR36000Q	8.10, 8.42
4039806557964	5TR36171H	8.44
4039806557971	5TR36171Q	8.44
4039806557988	5TR36172H	8.44
4039806557995	5TR36172Q	8.44
4039806558008	5TR361D1H	8.44
4039806558015	5TR36200Q	8.10, 8.42
4039806558022	5TR36371H1H	8.52
4039806558046	5TR36371HR	8.48
4039806558053	5TR36371Q1H	8.52
4039806558060	5TR36371QR	8.48
4039806558091	5TR36372HR	8.48
4039806558107	5TR36372Q1H	8.52
4039806558114	5TR36372QR	8.48
4039806558206	5TR90142	8.33, 8.99, 8.119
4039806558220	5TR9067	8.54, 8.55, 8.56
4039806558237	5TR90675	8.54, 8.56
4039806558244	5TR961312	8.33, 8.99, 8.119
4039806558251	5TR961332	8.33, 8.99, 8.119
4039806560001	5LS42271CA05	9.60
4039806560025	5LS42272CA05	9.60
4039806561183	5MJ24362HS	3.55
4039806562210	5LS42271EA04	9.60
4039806562234	5LS42272EA04	9.60
4039806564856	5LS42272EA05	9.60
4039806567420	5LJ90872Q	8.149
4039806568113	5MC25462QS1	2.11
4039806568137	5MC25462QS2	2.10
4039806568205	5MC90101	4.35
4039806568229	5MC90102	4.35
4039806568243	5MC90601	4.35
4039806568267	5MC90602	4.35
4039806568359	5MC25402QS1	2.11
4039806568373	5MC25402QS2	2.10

Order no. OSRAM	Order no. Siteco	Page
4039806568441	5NW140930A	11.14
4039806568465	5NW140930B	11.14
4039806568489	5NW140930C	11.14
4039806568564	5LS44004	9.26, 9.66
4039806569486	5LS41271B	9.52
4039806569509	5LS41271H	9.52
4039806569523	5LS41271L	9.52
4039806569547	5LS41271Q	9.52
4039806569561	5LS41272B	9.52
4039806569585	5LS41272L	9.52
4039806569622	5LS42271B	9.53
4039806569646	5LS42271H	9.53
4039806569660	5LS42271L	9.53
4039806569684	5LS42271Q	9.53
4039806569707	5LS42272B	9.53
4039806569721	5LS42272L	9.53
4039806570888	5TR30700B	8.10, 8.42
4039806570901	5TR36700B	8.10, 8.42
4039806570925	5TR36700H	8.10, 8.42
4039806570963	5LS41261Q	9.52
4039806571045	5TR901101	8.9, 8.41
4039806571069	5TR90171	8.8, 8.40
4039806571083	5TR90172	8.8, 8.40
4039806571106	5TR90173	8.8, 8.40
4039806571120	5TR961101	8.9, 8.41
4039806571144	5TR96171	8.8, 8.40
4039806571168	5TR96172	8.8, 8.40
4039806571182	5TR96173	8.8, 8.40
4039806571465	5LJ100D1Q	7.16
4039806571489	5MJ22361QS	3.52
4039806571526	5MC90201	2.14, 2.16, 3.25
4039806572226	5LF51671QW	3.63
4039806572363	5LJ91371QMD	8.190
4039806572387	5LJ91371QX03D	8.190
4039806573117	5MJ23161Q	3.56
4039806573230	5TR9692AQ	8.8, 8.40
4039806573353	5TR30700H	8.10, 8.42
4039806575241	5MF21471HS	3.45
4039806575258	5MF21471QS	3.45
4039806575265	5MF21B71HS	3.44
4039806575272	5MF21B71QS	3.44
4039806575319	5MF23471HS	2.42
4039806575326	5MF23471QS	2.42
4039806575333	5MF23475HS	2.42
4039806575357	5MF23871HS	2.40
4039806575364	5MF23871QS	2.40
4039806575371	5MF23B71HS	2.41
4039806575388	5MF23B71QS	2.41
4039806575401	5MF23B75HS	2.41
4039806575531	5MF43471HS	2.42
4039806575555	5MF43475HS	2.42
4039806575579	5MF43871HS	2.40
4039806575609	5MF43B75HS	2.41
4039806575777	5LJ91371Q	8.189
4039806576033	5TR30371H	8.45
4039806576057	5TR30371Q	8.45
4039806576071	5TR30372H	8.45
4039806576095	5TR30372Q	8.45
4039806576125	5TR36371H	8.46
4039806576361	5TR36371Q	8.46
4039806576408	5TR36372H	8.46
4039806576453	5TR36372Q	8.46
4039806576712	5MF43B71HS	2.41
4039806577337	5TR9092AQ	8.8, 8.40
4039806577658	5MC90001	4.35
4039806577672	5MC90202	2.14, 2.16, 3.25
4039806578341	5MF90001	2.43, 3.46

Order no. OSRAM	Order no. Siteco	Page
4039806578440	5MF23475WS	2.42
4039806578464	5MF23B75WS	2.41
4039806578488	5MF43471WS	2.42
4039806578501	5MF43475WS	2.42
4039806578525	5MF43B71WS	2.41
4039806578549	5MF43B75WS	2.41
4039806579256	5LF51971QW	3.80
4039806579287	5TR76000Q	8.87, 8.88
4039806579713	5LJ908D1Q1	8.149
4039806580054	5MC91001	2.16
4039806580085	5MC91002	2.16
4039806580115	5MC91003	2.16
4039806580146	5MC91004	2.16
4039806580207	5MJ23162H	3.56
4039806580245	5LS22971CY	9.46
4039806580405	5LF51671HW	3.63
4039806580429	5LF51672HW	3.63
4039806580443	5LF51B71HW	3.62
4039806580467	5LF51B71QW	3.62
4039806580481	5LF51B72HW	3.62
4039806580504	5LF53B71HW	2.50
4039806580528	5LF53B71QW	2.50
4039806580542	5LF53B72HW	2.50
4039806580641	5LS22871CY	9.46
4039806580665	5LS32171EY	9.34
4039806580689	5LS32172EY	9.34
4039806581167	5LF51B72QW	3.62
4039806581648	5LS32271EY	9.33
4039806581662	5LS32272CY	9.33
4039806581709	5LS32371EY	9.34
4039806581723	5LS32372EY	9.34
4039806581747	5LS32911AY	9.45
4039806581761	5LS32911CY	9.45
4039806581785	5LS32911EY	9.45
4039806581808	5LS32912CY	9.45
4039806581822	5LS32912EY	9.45
4039806581846	5LS32971AY	9.45
4039806581860	5LS32971CY	9.45
4039806581884	5LS32971EY	9.45
4039806581907	5LS32972CY	9.45
4039806581921	5LS32972EY	9.45
4039806582287	5TR30600	8.10, 8.42
4039806582300	5TR36162Q	8.44
4039806582324	5TR36600	8.10, 8.42
4039806582447	5TR36161Q	8.44
4039806582522	5TR50082H	8.67, 8.68, 8.69, 8.70
4039806582652	5TR30361H	8.45
4039806582690	5TR30361Q	8.45
4039806582720	5TR30362H	8.45
4039806582768	5TR30362Q	8.45
4039806582799	5TR303D1H	8.45
4039806582836	5TR36161H	8.44
4039806582850	5TR36162H	8.44
4039806582874	5TR36361H	8.46
4039806582898	5TR36361H1H	8.52
4039806582935	5TR36361Q	8.46
4039806582959	5TR36361Q1H	8.52
4039806582973	5TR36362H	8.46
4039806583031	5TR36362Q	8.46
4039806583055	5TR36362Q1H	8.52
4039806583246	5NX72200XGS1	12.34, 12.36
4039806583260	5NX72400XGS1	12.36
4039806583383	5TR303D1Q	8.45
4039806583390	5TR303D2H	8.45
4039806583406	5TR303D2Q	8.45
4039806583413	5TR361D1Q	8.44
4039806583420	5TR361D2H	8.44

Order no. OSRAM	Order no. Siteco	Page
4039806583437	5TR361D2Q	8.44
4039806583444	5TR363D1H	8.46
4039806583451	5TR363D1H1H	8.52
4039806583475	5TR363D1HR	8.48
4039806583482	5TR363D1Q	8.46
4039806583499	5TR363D1Q1H	8.52
4039806583505	5TR363D1QR	8.48
4039806583512	5TR363D2H	8.46
4039806583543	5TR363D2HR	8.48
4039806583550	5TR363D2Q	8.46
4039806583567	5TR363D2Q1H	8.52
4039806583574	5TR363D2QR	8.48
4039806583833	5NX72200XGS3	12.34, 12.36, 12.36
4039806584090	5LJ76000Q	8.160
4039806585011	5MJ24361QS	3.55
4039806588555	5NW14091QA	11.14
4039806588562	5NW14091QB	11.14
4039806588586	5NW14091QC	11.14
4039806589873	5TR90912	8.9, 8.41, 8.107
4039806589897	5TR96912	8.9, 8.41, 8.107
4039806590077	5TR9092AH	8.8, 8.40
4039806590084	5TR9692AH	8.8, 8.40
4039806591081	5NX72200XGS2	12.34, 12.36
4039806591104	5NX72400XGD2	12.34, 12.36
4039806591128	5NX72400XGD3	12.34, 12.36
4039806591142	5NX72400XGD4	12.34, 12.36
4039806591166	5NX72400XGD5	12.34, 12.36
4039806591180	5NX72400XGD6	12.34, 12.36
4039806591203	5NX72400XGS2	12.36
4039806591364	5LS41272W	9.52
4039806591388	5LS42272W	9.53
4039806591425	5LF51672WW	3.63
4039806591449	5LF51B72WW	3.62
4039806591463	5LF53B72WW	2.50
4039806591524	5LS91103	9.89, 9.95
4039806591548	5LS91106	9.89, 9.95
4039806592132	5TR50082Q	8.67, 8.68, 8.69, 8.70
4039806592811	5MF43871WS	2.40
4039806596253	5LJ91371QX04D	8.190
4039806596284	5MJ21172W	3.54
4039806596307	5MJ22272W	3.53
4039806596321	5MJ22372WS	3.52
4039806596345	5MJ23172W	3.56
4039806596369	5MJ24372WS	3.55
4039806596383	5LJ93371QX04D	8.192
4039806596413	5MC22671HS	3.23
4039806597533	5MC24B72HS	2.14
4039806597595	5LS427D2C	9.59
4039806597618	5LS427D2E	9.59
4039806598288	5MJ22361HS	3.52
4039806599148	5MC24B62HS	2.14
4039806599162	5MC24B62WS	2.14
4039806599766	5MJ21161Q	3.54
4039806604613	5LJ23471A	6.83
4039806604651	5LJ23871C	6.83
4039806604699	5LJ23872C	6.83
4039806604729	5LJ23871E	6.83
4039806604767	5LJ23872E	6.83
4039806604910	5LJ23972C	6.82
4039806604972	5LJ23972E	6.82
4039806605054	5LJ23474A	6.83
4039806605085	5LJ23471C	6.83
4039806605115	5LJ23472C	6.83
4039806605146	5LJ23471E	6.83
4039806605177	5LJ23472E	6.83
4039806605207	5LJ23571C	6.82
4039806605238	5LJ23572CX1	6.82



Order no. OSRAM	Order no. Siteco	Page
4039806605269	5LJ23571E	6.82
4039806605290	5LJ23572EX1	6.82
4039806605320	5LJ23574A	6.82
4039806605566	5LJ23571CX1	6.82
4039806605580	5LJ23571EX1	6.82
4039806605603	5LJ23571CX3	6.80
4039806605627	5LJ23571EX3	6.80
4039806605665	5LJ23571EX4	6.81
4039806605689	5LJ23572CX3	6.80
4039806605702	5LJ23572EX3	6.80
4039806606259	5LS41271A	9.56
4039806606266	5LS41271C	9.56
4039806606273	5LS41271E	9.56
4039806606280	5LS41272C	9.56
4039806606297	5LS41272E	9.56
4039806606303	5LS41272A	9.56
4039806606525	5LS42271A	9.58
4039806606532	5LS42271C	9.58
4039806606549	5LS42271E	9.58
4039806606556	5LS42272A	9.58
4039806606563	5LS42272C	9.58
4039806606570	5LS42272E	9.58
4039806606822	5LJ23571A	6.82
4039806606846	5LJ23472A	6.83
4039806606853	5LJ23572AX1	6.82
4039806606914	5LS44003	9.65
4039806607294	5LS41261E	9.56
4039806607362	5LJ10071P	7.17
4039806607379	5LJ10071U	7.17
4039806607386	5LJ10072P	7.17
4039806607393	5LJ10072U	7.17
4039806607423	5LJ10071A	7.18
4039806607454	5LJ10061C	7.18
4039806607461	5LJ10071C	7.18
4039806607492	5LJ10061E	7.18
4039806607508	5LJ10071E	7.18
4039806607539	5LJ10072C	7.18
4039806607560	5LJ10072E	7.18
4039806607683	5LS41262E	9.56
4039806607805	5LJ10071R	7.17
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4039806608260	2LS32971C	9.40
4039806608277	2LS32971E	9.40
4039806608284	2LS32972C	9.40
4039806608291	2LS32972E	9.40
4039806608314	2LS32971CP1	9.40
4039806608321	2LS32971EP1	9.40
4039806608338	2LS32972CP1	9.40
4039806608345	2LS32972EP1	9.40
4039806608383	2LS32911ET1	9.80
4039806608390	2LS32912ET1	9.80
4039806608482	2LS22871C	9.42
4039806608499	2LS22871E	9.42
4039806608505	2LS22971C	9.42
4039806608512	2LS22971E	9.42
4039806608543	2LS22872E	9.42
4039806608567	2LS22972E	9.42
4039806608581	2LS32271A	9.30
4039806608598	2LS32271C	9.30
4039806608604	2LS32271E	9.30
4039806608611	2LS32272C	9.30
4039806608628	2LS32272E	9.30
4039806608680	2LS32371E	9.31
4039806608697	2LS32372E	9.31
4039806608703	2LS32171E	9.31
4039806608710	2LS32172E	9.31
4039806608796	2LS32971CT55	9.82

Order no. OSRAM	Order no. Siteco	Page
4039806608802	2LS32971ET55	9.82
4039806608819	2LS32911CT7	9.82
4039806608826	2LS32911ET7	9.82
4039806608833	2LS32911CT6	9.82
4039806608840	2LS32911ET6	9.82
4039806608857	2LS32912CT6	9.82
4039806608864	2LS32912ET6	9.82
4039806609052	5LJ10072R	7.17
4039806609274	2LS32912ET0	9.80
4039806609311	2LS32971ES4	9.41
4039806609328	2LS32972ES4	9.41
4039806609533	5LS41261C	9.56
4039806609755	2LS32261E	9.30
4039806610171	5LS41262C	9.56
4039806610300	5LS42261C	9.58
4039806610317	5LS42261E	9.58
4039806610331	5LS42262E	9.58
4039806610430	5LS41771EA0004	9.59
4039806610461	5LS41772EA0004	9.59
4039806610539	5LS41771A	9.59
4039806610546	5LS41771C	9.59
4039806610553	5LS41771E	9.59
4039806610577	5LS41772C	9.59
4039806610584	5LS41772E	9.59
4039806610676	5LS42771EA0004	9.59
4039806610706	5LS42772EA0004	9.59
4039806610782	5LS42771C	9.59
4039806610799	5LS42771E	9.59
4039806610829	5LS42772E	9.59
4039806610942	5LS41271J	9.54
4039806611338	5LP90010XC	4.70, 4.97, 4.101
4039806611345	5LP90000XC	4.70, 4.97, 4.101
4039806611758	5LJ10071M	7.17
4039806611765	5LS41271R	9.54
4039806611772	5LS41271Y	9.54
4039806611857	5LJ10071X	7.17
4039806611864	5LS41271X	9.54
4039806611925	5LS41271P	9.54
4039806611994	5LS41271M	9.54
4039806612007	5LS41272P	9.54
4039806612014	5LS41272R	9.54
4039806612045	5LS41271F	9.54
4039806612052	5LS41272M	9.54
4039806612069	5LS41272Y	9.54
4039806612380	5LS41275U	9.54
4039806612922	5LJ10061A	7.18
4039806613462	5LS41272F	9.54
4039806613479	5LS42271M	9.55
4039806613493	5LS42271Y	9.55
4039806613509	5LS42271P	9.55
4039806613523	5LS42271F	9.55
4039806613530	5LS42271J	9.55
4039806613547	5LS42271X	9.55
4039806613554	5LS42272M	9.55
4039806613578	5LS42272Y	9.55
4039806613585	5LS42272P	9.55
4039806613592	5LS42272R	9.55
4039806613615	5LS42272F	9.55
4039806613622	5LS42271R	9.55
4039806613790	5LS41272JE	9.54
4039806613813	5LS41262P	9.54
4039806614797	5LJ10062C	7.18
4039806614803	5LJ10062E	7.18
4039806614865	5NA75801VS0208H	10.63
4039806614872	5NA75801VB0208H	10.62
4039806614957	2LS32271EA04	9.32
4039806614964	2LS32272EA04	9.32



Order no. OSRAM	Order no. Siteco	Page	Order no. OSRAM	Order no. Siteco	Page
4039806614971	2LS32971EA01	9.44	4039806781581	5LJ10001AB	7.18, 7.19
4039806614988	2LS32971EA04	9.43	4039806781680	5LJ10001UB	7.16, 7.17, 7.19
4039806614995	2LS32971EA05	9.43	4039806781697	5LJ10001XB	7.16, 7.17, 7.19
4039806615008	2LS32972EA01	9.44	4039806781727	5LJ10002UB	7.16, 7.17, 7.19
4039806615015	2LS32972EA04	9.43	4039806781826	5LJ10101AB	7.18, 7.19
4039806615084	5LS41271EA01	9.61	4039806781833	5LJ10101CB	7.6, 7.7, 7.18, 7.19
4039806615091	5LS41271EA04	9.60	4039806781840	5LJ10101EB	7.6, 7.7, 7.18, 7.19
4039806615107	5LS41271EA05	9.60	4039806781857	5LJ10101UB	7.16, 7.17, 7.19
4039806615114	5LS41272EA01	9.61	4039806781864	5LJ10101XB	7.16, 7.17, 7.19
4039806615121	5LS41272EA04	9.60	4039806804747	5MC22672HS	3.23
4039806615138	5LS41272EA05	9.60	4039806804785	5MC24B72WS	2.14
4039806616128	5LJ23971C	6.82	4039806804822	5MC25472QS1	2.11
4039806616135	5LJ23971E	6.82	4039806804846	5MC25472QS2	2.10
4039806616159	5LJ10010XC	7.8, 7.20	4039806805416	5TR56290H	8.63
4039806616371	2LS32262E	9.30	4039806805430	5TR56290Q	8.63
4039806616432	5LJ10071Y	7.17	4039806805454	5TR90580Q	8.62, 8.63, 8.64
4039806616449	5LJ10071F	7.17	4039806805911	5LS422D1C	9.58
4039806616746	5NA75871RS0208	10.63	4039806808356	5LJ908D2Q1	8.149
4039806616753	5NA75871RB0208	10.62	4039806809261	5MF438D1HS	2.40
4039806616760	5NA75861SS0208	10.63	4039806809469	5LJ91371HMD	8.190
4039806616777	5NA75861SB0208	10.62	4039806809797	5MF23BD1QS	2.41
4039806616784	5NA75861TS0208	10.63	4039806810458	5TR90911	8.9, 8.41, 8.107
4039806616791	5NA75861TB0208	10.62	4039806844415	5TR90941	8.44, 8.46, 8.48, 8.49, 8.52, 8.53
4039806616807	5NA75871TS0208	10.63	4039806844439	5TR90942	8.44, 8.46, 8.48, 8.49, 8.52, 8.53
4039806616814	5NA75871TB0208	10.62	4039806845078	5MJ21162H	3.54
4039806617354	2LS32971CT1	9.80	4039806845474	5LS42271CA04	9.60
4039806617361	2LS32971ET1	9.80	4039806848017	5LJ909001	8.163, 8.183, 9.91
4039806617378	2LS32972CT1	9.80	4039806848482	5NA77921VR0	10.36, 10.41, 11.26, 11.27
4039806617385	2LS32972ET1	9.80	4039806848505	5NA77921VR11	10.36, 10.41
4039806620095	5NA75701SS0208H	10.61	4039806848956	5AA35601X	12.30, 12.31, 12.32
4039806622952	5NA75761PS0208	10.61	4039806848970	5AA35603X	12.32
4039806623027	5NA75771NS0208	10.61	4039806848994	5AA35604X	12.32
4039806623546	5NJ30000XB	10.34, 10.35, 10.36, 10.40	4039806849014	5AA35605X	12.32
4039806623683	5NA758E1SS0208	10.63	4039806849038	5AA35606X	12.32
4039806623690	5NA758E1SS0108	10.63	4039806849052	5AA35607X	12.32
4039806623706	5NA758E1TS0208	10.63	4039806849076	5AA35608X	12.32
4039806623713	5NA758E1TS0108	10.63	4039806849090	5AA35609X	12.32
4039806623720	5NA758E1SB0208	10.62	4039806849113	5AA35610X	12.32
4039806623737	5NA758E1SB0108	10.62	4039806849151	5AA40006X	12.64
4039806623744	5NA758E1TB0208	10.62	4039806849175	5AA40007X	12.64
4039806623751	5NA758E1TB0108	10.62	4039806849823	5LF41B62WW	4.65
4039806623768	5NA758E1RS0208	10.63	4039806850522	5LS32901CWT1	9.50
4039806623775	5NA758E1RB0208	10.62	4039806850553	5LS32902CWT1	9.50
4039806623942	5NA757E1NS0208	10.61	4039806851291	5MF43BD5WS	2.41
4039806623959	5NA757E1PS0208	10.61	4039806851420	5TR90579	8.62, 8.63, 8.64
4039806625830	5NA75761NS0208	10.61	4039806851796	5LF51BD2WW	3.62
4039806626158	5LA75771TS0108	10.61	4039806852205	5LJ93361H	8.191
4039806626240	5LS32201AW	9.38	4039806852229	5LJ93361HMD	8.192
4039806626530	5NA757E1NS0108	10.61	4039806852403	5LJ91361H	8.189
4039806626578	5LA75771TS2108	10.58	4039806852410	5LJ91361HM	8.189
4039806626615	5NA757E1NS2208	10.58	4039806852427	5LJ91361HMD	8.190
4039806626639	5NA757E1PS2208	10.58	4039806852434	5LJ91361HX03D	8.190
4039806626660	2LS32911AT5	9.82	4039806852441	5LJ91361HX04D	8.190
4039806626677	2LS32911CT5	9.82	4039806852458	5LJ91361Q	8.189
4039806626684	2LS32911ET5	9.82	4039806852465	5LJ91361QM	8.189
4039806626707	2LS32912ET5	9.82	4039806852472	5LJ91361QMD	8.190
4039806627650	5NA757E1NS2108	10.58	4039806852489	5LJ91361QX03D	8.190
4039806780997	5LS44201MS	9.52, 9.53, 9.54, 9.55, 9.62	4039806852496	5LJ91361QX04D	8.190
4039806781000	5LS44201PS	9.52, 9.53, 9.54, 9.55, 9.62	4039806852502	5LJ91362H	8.189
4039806781017	5LS44201RS	9.52, 9.53, 9.54, 9.55, 9.62	4039806852519	5LJ91362Q	8.189
4039806781024	5LS44202MS	9.52, 9.53, 9.54, 9.55, 9.62	4039806852526	5LJ91371H	8.189
4039806781031	5LS44202PS	9.52, 9.53, 9.54, 9.55, 9.62	4039806852533	5LJ91371HM	8.189
4039806781048	5LS44202RS	9.52, 9.53, 9.54, 9.55, 9.62	4039806852540	5LJ91371HX03D	8.190
4039806781543	5LJ10001CB	7.6, 7.7, 7.18, 7.19	4039806852557	5LJ91371HX04D	8.190
4039806781550	5LJ10001EB	7.6, 7.7, 7.18, 7.19	4039806852564	5LJ91371QM	8.189
4039806781567	5LJ10002CB	7.6, 7.7, 7.18, 7.19	4039806852571	5LJ91372H	8.189
4039806781574	5LJ10002EB	7.6, 7.7, 7.18, 7.19	4039806852588	5LJ91372Q	8.189

Order no. OSRAM	Order no. Siteco	Page
4039806852595	5LJ913D1H	8.189
4039806852601	5LJ913D1HM	8.189
4039806852618	5LJ913D1HMD	8.190
4039806852625	5LJ913D1HX03D	8.190
4039806852632	5LJ913D1HX04D	8.190
4039806852649	5LJ913D1Q	8.189
4039806852656	5LJ913D1QM	8.189
4039806852663	5LJ913D1QMD	8.190
4039806852670	5LJ913D1QX03D	8.190
4039806852687	5LJ913D1QX04D	8.190
4039806852694	5LJ913D2H	8.189
4039806852700	5LJ913D2Q	8.189
4039806852717	5LJ93361HM	8.191
4039806852724	5LJ93361HX03D	8.192
4039806852731	5LJ93361HX04D	8.192
4039806852748	5LJ93361Q	8.191
4039806852755	5LJ93361QM	8.191
4039806852762	5LJ93361QMD	8.192
4039806852779	5LJ93361QX03D	8.192
4039806852786	5LJ93361QX04D	8.192
4039806852793	5LJ93371H	8.191
4039806852809	5LJ93371HM	8.191
4039806852816	5LJ93371HMD	8.192
4039806852823	5LJ93371HX03D	8.192
4039806852830	5LJ93371HX04D	8.192
4039806852847	5LJ93371QM	8.191
4039806852854	5LJ933D1H	8.191
4039806852861	5LJ933D1HM	8.191
4039806852878	5LJ933D1HMD	8.192
4039806852885	5LJ933D1HX03D	8.192
4039806852892	5LJ933D1HX04D	8.192
4039806852908	5LJ933D1Q	8.191
4039806852915	5LJ933D1QM	8.191
4039806852922	5LJ933D1QMD	8.192
4039806852939	5LJ933D1QX03D	8.192
4039806852946	5LJ933D1QX04D	8.192
4039806853189	5NY7005XK	12.64
4039806854445	5LF51B61QW	3.62
4039806855831	5LJ90871H	8.149
4039806856630	5MC11671HW	4.30
4039806856838	5MF238D1QS	2.40
4039806856852	5MF438D1WS	2.40
4039806856944	5NY75801XW21	10.53, 10.56, 10.59, 10.60, 10.64
4039806857064	5NA75601VP11C	11.26
4039806857491	5TR90540H	8.62, 8.63, 8.64
4039806857613	5TR90540Q	8.62, 8.63, 8.64
4039806857767	5TS10150Q	8.105
4039806857804	5TS10250Q	8.105
4039806858191	5TS9092AQ	8.106
4039806858245	5TS10350Q	8.105
4039806858542	5TS9016	8.106
4039806858573	5TS90562	8.110, 8.111, 8.112
4039806858665	5NA758E1RB22	10.59
4039806858689	5NA758E1RS22	10.60
4039806858702	5NA758E1SB21	10.59
4039806858924	5NA758E1SB22	10.59
4039806858948	5NA758E1SS21	10.60
4039806858962	5NA758E1SS22	10.60
4039806858986	5NA758E1TB21	10.59
4039806859006	5NA758E1TB22	10.59
4039806859020	5NA758E1TS21	10.60
4039806859044	5NA758E1TS22	10.60
4039806859235	5TS30000Q	8.107
4039806860361	5TS30171Q	8.108
4039806860385	5TS30172Q	8.108
4039806861559	5TS50082Q	8.110, 8.111, 8.112
4039806861573	5TS9017	8.106

Order no. OSRAM	Order no. Siteco	Page
4039806861900	5TS40171Q	8.109
4039806861917	5TS40172Q	8.109
4039806862846	5MC24BD2WS	2.14
4039806862907	5LF51971HW	3.80
4039806866790	5MF214D1HS	3.45
4039806866813	5MF214D1QS	3.45
4039806870629	5MF21BD1QS	3.44
4039806871312	5LF516D1HW	3.63
4039806885753	5LJ908D2W1	8.149
4039806887801	5MC61671HW	4.33
4039806887917	5LJ10072Q	7.16
4039806888037	5LJ90950XC	3.76, 9.93
4039806889683	5MJ243D2HS	3.55
4039806889812	5LS412D2C	9.56
4039806889911	5LF41W61W	4.68
4039806892263	5MF23BD5WS	2.41
4039806895424	5LS41262W	9.52
4039806895707	5MF238D1HS	2.40
4039806901729	5MJ21161H	3.54
4039806901767	5MJ22362HS	3.52
4039806901804	5MJ223D1HS	3.52
4039806901828	5MJ223D2HS	3.52
4039806901842	5MJ231D1H	3.56
4039806901866	5MJ231D1Q	3.56
4039806901880	5MJ231D2H	3.56
4039806901903	5MJ24361HS	3.55
4039806901927	5MJ243D1HS	3.55
4039806901941	5MJ243D1QS	3.55
4039806902016	5MJ23161H	3.56
4039806902078	5MJ211D1H	3.54
4039806902993	5LF41BD1HW	4.65
4039806903013	5MJ222D2H	3.53
4039806904089	5MJ22362WS	3.52
4039806904225	5LJ100D1H	7.16
4039806904249	5MJ231D2W	3.56
4039806905307	5LJ10061H	7.16
4039806905321	5LJ10061Q	7.16
4039806906779	5MC24B71HS	2.14
4039806907028	5TR90570	8.59, 8.60, 8.61, 8.67, 8.68, 8.69, 8.70, 8.73, 8.74, 8.75
4039806907042	5TS101A0Q	8.105
4039806907066	5TS102A0Q	8.105
4039806907080	5TS103A0Q	8.105
4039806907103	5TS90572	8.110, 8.111, 8.112
4039806907660	5MC22671QS	3.23
4039806907691	5LJ100D2H	7.16
4039806907714	5LJ100D2Q	7.16
4039806908551	5MC22B71QS	3.21
4039806909169	5TR56320H	8.67
4039806909183	5TR56320Q	8.67
4039806909565	5LZ91292094	8.26, 8.27, 8.92, 8.93
4039806909787	5LS41272HE	9.52
4039806910202	5LF51661QW	3.63
4039806910417	5LF51BD1QW	3.62
4039806912114	5LJ10062H	7.16
4039806912138	5LJ10062Q	7.16
4039806912152	5LJ10072H	7.16
4039806926258	5MJ223D2WS	3.52
4039806926579	5MJ22262W	3.53
4039806941886	5MJ24362WS	3.55
4039806998927	5EA6TEF01	12.67, 12.68, 12.69, 12.70, 12.73, 12.74, 12.75, 12.76, 12.77, 12.78, 12.82
4039806999085	5LF53BD1QW	2.50
4039806999108	5LJ77564Q	8.157
4039806999122	5LJ77574W	8.157
4039806999160	5LJ77574X	8.157

Order no. OSRAM	Order no. Siteco	Page	Order no. OSRAM	Order no. Siteco	Page
4039806999207	5LJ77574X2	8.157	4050300659251	OLN1161P830	7.11
4039806999221	5LJ775D4Q	8.157	4050300659275	OLN1161R830	7.11
4039806999252	5LJ77664Q	8.159	4050300774206	OLL21P72AL830F	6.77
4039806999269	5LJ77674W	8.159	4050300774237	OLL21P72CL830F	6.77
4039806999306	5LJ77674X	8.159	4050300774268	OLL21P72EL830F	6.77
4039806999344	5LJ77674X2	8.159	4050300774299	OLL21572AL830F	6.76
4039806999368	5LJ776D4Q	8.159	4050300774329	OLL21572CL830F	6.76
4039806999382	5LJ77864Q	8.158	4050300774350	OLL21572EL830F	6.76
4039806999405	5LJ77874W	8.158	4050300792200	OLN91301	6.74, 6.76, 6.77, 7.10, 7.11, 7.14
4039806999443	5LJ77874X	8.158	4050300986517	OFJ2071E827	7.25
4039806999481	5LJ77874X2	8.158	4050300993959	OFJ0071E0	7.24
4039806999511	5LJ778D4Q	8.158	4050737000046	5MJ222D2W	3.53
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4039806999856	5LY9005	6.84, 8.164, 8.184, 9.37, 9.49, 9.86, 9.92, 10.13, 10.22, 10.29, 10.41	4050737001395	5TR77574W	8.85
			4050737001432	5TR77574X	8.85
			4050737001487	5TR77574X2	8.85
4050300002163	OFJ2071D827	7.25	4050737001494	5TR775D4Q	8.85
4050300003443	OFJ2071S827	7.25	4050737001517	5TR77664Q	8.87
4050300003474	OFJ2071A827	7.25	4050737001548	5TR77674W	8.87
4050300003511	OFJ2071C827	7.25	4050737001579	5TR77674X	8.87
4050300003542	OFJ1071S827	7.24	4050737001616	5TR77674X2	8.87
4050300003573	OFJ1071A827	7.24	4050737001630	5TR776D4Q	8.87
4050300003597	OFJ1071D827	7.24	4050737001661	5TR77864Q	8.86
4050300003634	OFJ1071C827	7.24	4050737001678	5TR77874W	8.86
4050300005195	OFJ1071E827	7.24	4050737001722	5TR77874X	8.86
4050300008738	OFB2171J827	7.42	4050737001753	5TR77874X2	8.86
4050300008745	OFB2171T827	7.42	4050737001777	5TR778D4Q	8.86
4050300012100	OMD41551R	6.61	4050737001999	5LJ908D1H1	8.149
4050300125602	OFA900010L	7.42, 7.44	4050737002668	5MJ243D2WS	3.55
4050300125626	OFA900060L	7.42, 7.44	4050737003382	5LF41661H	4.66
4050300125640	OFA900100L	7.42, 7.44	4050737003405	5LF41661HW	4.67
4050300148724	OFJ0071A0	7.24	4050737003436	5LF41661Q	4.66
4050300148748	OFJ0071C0	7.24	4050737003443	5LF41661QW	4.67
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4050300346540	OFJ2171S827	7.27	4050737003528	5LF416D1QW	4.67
4050300346588	OFJ1171A827	7.26	4050737003597	5LF41B61HW	4.65
4050300346625	OFJ2171A827	7.27	4050737003603	5LF41B61LW	4.65
4050300346663	OFJ2171D827	7.27	4050737003627	5LF41B61Q	4.64
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4050300513249	OLN1171M830V2	7.11	4050737003962	5LF41662HW	4.67
4050300513263	OLN1171N830V2	7.11	4050737003993	5LF416D1H	4.66
4050300513287	OLN1171P830V2	7.11	4050737004006	5LF416D2HW	4.67
4050300513300	OLN1171R830V2	7.11	4050737004129	5LF41B62H	4.64
4050300528359	OLN1071C0	7.14	4050737004150	5LF41BD1QW	4.65
4050300528373	OLN1071E0	7.14	4050737004167	5LF41BD2Q	4.64
4050300535630	OML23L71YL840	6.74	4050737004181	5LF41BD2QW	4.65
4050300535654	OML23L71KL840	6.74	4050737004266	5LF41W62W	4.68
4050300535678	OML23L71JL840	6.74	4050737004280	5LF41W62WWW	4.69
4050300535692	OML23L71XL840	6.74	4050737004310	5LF41WD1H	4.68
4050300561981	OLN1061A0	7.14	4050737004327	5LF41WD1HW	4.69
4050300562025	OLN1061C0	7.14	4050737004419	5LF41WD2W	4.68
4050300562070	OLN1061E0	7.14	4050737004495	5LF51662WW	3.63
4050300562124	OLN1071A0	7.14	4050737004723	5LF286D3H	10.26
4050300620121	OFN271T827	7.44	4050737004747	5LF286D3Q	10.26
4050300620145	OFN271J827	7.44	4050737004853	5MF23BD1HS	2.41
4050300659213	OLN1161M830	7.11	4050737004914	5LJ90861H1	8.149
4050300659237	OLN1161N830	7.11	4050737004938	5LJ90861Q1	8.149

Order no. OSRAM	Order no. Siteco	Page
4050737004952	5LJ90862H1	8.149
4050737004976	5LS41261H	9.52
4050737005102	5LS412D1H	9.52
4050737005119	5LS412D1Q	9.52
4050737005157	5LS422D1H	9.53
4050737005171	5LS422D1Q	9.53
4050737005218	5LJ908D2H1	8.149
4050737005881	5LF51661HW	3.63
4050737005973	5LF51662HW	3.63
4050737006048	5LF516D1QW	3.63
4050737006062	5LF516D2HW	3.63
4050737006086	5LF516D2WW	3.63
4050737006192	5LF51961HW	3.80
4050737006222	5LF51961QS	3.80
4050737006253	5LF51961QW	3.80
4050737006260	5LF519D1HS	3.80
4050737006284	5LF519D1HW	3.80
4050737006321	5LF519D1QS	3.80
4050737006352	5LF519D1QW	3.80
4050737006420	5LF51B61HW	3.62
4050737006543	5LF51B62HW	3.62
4050737006598	5LF51B62QW	3.62
4050737006659	5LF51B62WW	3.62
4050737006666	5LF51BD1HW	3.62
4050737006710	5LF51BD2HW	3.62
4050737006727	5LF51BD2QW	3.62
4050737007144	5LF53B61HW	2.50
4050737007205	5LF53B61QW	2.50
4050737007267	5LF53B62HW	2.50
4050737007328	5LF53B62WW	2.50
4050737007366	5LF53BD1HW	2.50
4050737007427	5LF53BD2HW	2.50
4050737007472	5LF53BD2WW	2.50
4050737008080	5MJ211D2W	3.54
4050737008240	5MC11662QW	4.30
4050737008264	5MC12672HW	4.29
4050737008363	5LF41B61H	4.64
4050737009049	5LJ79361UD	4.58
4050737009063	5LJ79362UD	4.58
4050737009087	5LJ79362YD	4.58
4050737009100	5LJ79365UD	4.58
4050737009124	5LJ79366UD	4.58
4050737009155	5LJ79371UD	4.58
4050737009162	5LJ79372UD	4.58
4050737009186	5LJ79372YD	4.58
4050737009216	5LJ79375UD	4.58
4050737009223	5LJ79376UD	4.58
4050737009476	5MS426D3ULOD	1.9
4050737009483	5MS426D4ULOD	1.9
4050737010724	5LS412D2HE	9.52
4050737012018	5TR77574Q	8.85
4050737012032	5LJ79461U	4.59
4050737012056	5LJ79462Y	4.59
4050737012070	5LJ79471U	4.59
4050737012094	5LJ794D1U	4.59
4050737012322	5LJ79472Y	4.59
4050737012421	5LJ794D2Y	4.59
4050737012438	5LJ79561U	4.60
4050737012452	5LJ79562Y	4.60
4050737012476	5LJ79571U	4.60
4050737012506	5LJ79572Y	4.60
4050737012513	5LJ795D1U	4.60
4050737012537	5LJ795D2Y	4.60
4050737012742	5XA7577LNA008	10.54
4050737012766	5XA7577LNA208	10.52
4050737013473	5XA52817NA28	12.68
4050737013480	5XA52817NA58	12.70

Order no. OSRAM	Order no. Siteco	Page
4050737013497	5XA52817NS28	12.67
4050737013503	5XA52817NS58	12.69
4050737013510	5XA52817WA28	12.68
4050737013527	5XA52817WA58	12.70
4050737013534	5XA52817WS28	12.67
4050737013541	5XA52817WS58	12.69
4050737013558	5XA52917NA28	12.74
4050737013565	5XA52917NA58	12.76
4050737013572	5XA52917NA58D	12.78
4050737013589	5XA52917NS28	12.73
4050737013596	5XA52917NS58	12.75
4050737013602	5XA52917NS58D	12.77
4050737013619	5XA52917WA28	12.74
4050737013626	5XA52917WA58	12.76
4050737013633	5XA52917WA58D	12.78
4050737013640	5XA52917WS28	12.73
4050737013657	5XA52917WS58	12.75
4050737013664	5XA52917WS58D	12.77
4050737014128	5LF286D2Q	10.26
4050737014302	5MC22B61QS	3.21
4050737014722	5LS22872EF5	9.84
4050737014739	5LS22872CF5	9.84
4050737014746	5LS22971CF5007	9.84
4050737014753	5LS22971EF5007	9.84
4050737014760	5LS22972EF5007	9.84
4050737014777	5LS22972CF5007	9.84
4050737014784	5LS22872CF5A04	9.85
4050737014791	5LS22872CF5A05	9.85
4050737014807	5LS22871CF5	9.84
4050737014814	5LS22871EF5	9.84
4050737015217	5MF43BD5HS	2.41
4050737015705	5LJ90872H	8.149
4050737015873	5TR58110H	8.60
4050737015897	5TR58110Q	8.60
4050737015927	5TR58130H	8.58
4050737015934	5TR58130Q	8.58
4050737015958	5TR58310Q	8.59
4050737015972	5TR58330Q	8.57
4050737015996	5TS58120Q	8.111
4050737016016	5NA77901VE0	11.26, 11.27
4050737016207	5LF41WD2WW	4.69
4050737016245	5MP6101H	3.31, 4.45
4050737016283	5MP6101W	3.31, 4.45
4050737016306	5MP6102H	3.34, 4.48
4050737016337	5MP6102W	3.34, 4.48
4050737016344	5MP6103H	3.34, 4.48
4050737016368	5MP6103W	3.34, 4.48
4050737016382	5MP6104H	3.31, 4.45
4050737016412	5MP6104W	3.31, 4.45
4050737016429	5MP6105H	3.34, 4.48
4050737016443	5MP6105W	3.34, 4.48
4050737017044	5NA75671WP11C	11.26
4050737017303	5TS58320Q	8.110
4050737017327	5TS58330Q	8.113
4050737017419	5MP90201	3.34, 3.36, 3.42
4050737017440	5MP90202	3.34, 3.36, 3.42
4050737017471	5MP90203	3.34, 3.36, 3.42
4050737017617	5MP90301	3.34, 3.36, 3.41
4050737017648	5MP90302	4.48, 4.50, 4.55
4050737017709	5MC24BD1QS	2.14
4050737017723	5MQ593040S	2.24, 2.27
4050737017815	5XA7507BNT208	10.53
4050737017839	5MP90101	3.34, 3.36, 3.41, 4.48, 4.50, 4.55
4050737018423	5LZ902050	13.59
4050737018430	5LZ904001	13.66
4050737018447	5LZ904002	13.65
4050737018478	5LZ914001	13.25, 13.26, 13.36

Order no. OSRAM	Order no. Siteco	Page
4050737018485	5LZ914002	13.35
4050737018492	5LZ914003	13.25, 13.29, 13.35, 13.39
4050737018508	5LZ914004	13.25, 13.26, 13.35, 13.36
4050737018515	5LZ914005	13.26, 13.29, 13.36, 13.39
4050737018539	5LZ914007	3.37, 13.25, 13.27, 13.35, 13.37, 4.51
4050737018546	5LZ914008	13.23, 13.25, 13.33, 13.35
4050737019277	5TS58130Q	8.114
4050737019291	5LF41BD2HW	4.65
4050737019369	5MQ593080S	2.26, 2.27
4050737019437	5MC22672BS	3.23
4050737019451	5MC22674BS	3.24
4050737019666	5XA7587BNT008	10.55
4050737019680	5MQ593060S	2.26, 2.27
4050737019857	5MQ54071H	2.25
4050737019888	5MQ54071L	2.25
4050737019895	5MQ54071Q	2.25
4050737019918	5MQ54001H	2.25
4050737019932	5MQ540D1L	2.25
4050737019956	5MQ540D1Q	2.25
4050737020402	5LF287D3Q	10.27
4050737020426	5LZ914009	3.37, 13.24, 13.25, 13.34, 13.35, 4.51
4050737020433	5LZ914010	3.37, 13.24, 13.29, 13.34, 13.39, 4.51
4050737020655	5LJ90872W	8.149
4050737021546	5MQ530010S	2.26
4050737021560	5MQ530020S	2.26
4050737021584	5MQ530030S	2.26
4050737021928	5MP21130H	3.31, 3.32, 3.33, 3.35, 3.39
4050737021959	5MP21130W	3.31, 3.32, 3.33, 3.35, 3.39
4050737021966	5MP21230H	3.31, 3.32, 3.33, 3.35
4050737021980	5MP21230W	3.31, 3.32, 3.33, 3.35
4050737022000	5MP21330H	3.39
4050737022031	5MP21330W	3.39
4050737022048	5MP21430H	3.33, 3.35
4050737022062	5MP21430W	3.33, 3.35
4050737022086	5MP21530H	3.33, 3.35
4050737022116	5MP21530W	3.33, 3.35
4050737022291	5MP12130H	4.45, 4.46, 4.47, 4.49, 4.53
4050737022314	5MP12130W	4.45, 4.46, 4.47, 4.49, 4.53
4050737022338	5MP12230H	4.45, 4.46, 4.47, 4.49
4050737022369	5MP12230W	4.45, 4.46, 4.47, 4.49
4050737022376	5MP12330H	4.53
4050737022390	5MP12330W	4.53
4050737022413	5MP12430H	4.47, 4.49
4050737022444	5MP12430W	4.47, 4.49
4050737022451	5MP12530H	4.47, 4.49
4050737022475	5MP12530W	4.47, 4.49
4050737022703	5MP31171H	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50
4050737022758	5MP31171W	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50
4050737022765	5MP311D1H	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50
4050737022819	5MP311D1W	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50
4050737022871	5MP31271H	3.39, 4.53
4050737022888	5MP31271W	3.39, 4.53
4050737022901	5MP312D1H	3.39, 4.53
4050737022932	5MP312D1W	3.39, 4.53
4050737022949	5MP6211H	3.32, 4.46
4050737022963	5MP6211W	3.32, 4.46
4050737022994	5MP6212H	3.32, 3.36, 4.46, 4.50
4050737023007	5MP6212W	3.32, 3.36, 4.46, 4.50
4050737023021	5MP6213H	3.36, 4.50
4050737023052	5MP6213W	3.36, 4.50
4050737023069	5MP6221H	3.39, 4.53

Order no. OSRAM	Order no. Siteco	Page
4050737023083	5MP6221W	3.39, 4.53
4050737023113	5MC116710W	4.30
4050737023328	5LF287D2Q	10.27
4050737023441	5MQ11872P	4.12
4050737023465	5MQ11872Y	4.13
4050737023489	5MQ118D2P	4.12
4050737023694	5MP31171W1	3.38, 4.52
4050737023908	5MQ118D2Y	4.13
4050737023939	5MQ12872N	4.12
4050737023946	5MQ12872P	4.12
4050737023960	5MQ12872R	4.12
4050737023984	5MQ12872Y	4.13
4050737024011	5MQ128D2N	4.12
4050737024028	5MQ128D2P	4.12
4050737024042	5MQ128D2R	4.12
4050737024066	5MQ128D2Y	4.13
4050737024097	5MQ21872N	2.24, 3.8
4050737024103	5MQ21872P	2.24, 3.8
4050737024127	5MQ21872R	2.24, 3.8
4050737024141	5MQ218D2N	2.24, 3.8
4050737024165	5MQ218D2P	2.24, 3.8
4050737024196	5MQ218D2R	2.24, 3.8
4050737024202	5MQ23872H	2.20
4050737024226	5MQ23872L	2.20
4050737024240	5MQ23872W	2.20
4050737024271	5MQ23872X	2.20
4050737024288	5MQ238D2H	2.20
4050737024301	5MQ238D2L	2.20
4050737024325	5MQ238D2W	2.20
4050737024349	5MQ238D2X	2.20
4050737024370	5MQ24872N	3.9
4050737024387	5MQ24872P	3.9
4050737024400	5MQ24872R	3.9
4050737024424	5MQ248D2N	3.9
4050737024455	5MQ248D2P	3.9
4050737024462	5MQ248D2R	3.9
4050737024615	5MQ530110S	2.26
4050737024622	5MQ530120S	2.26
4050737024646	5MQ530130S	2.26
4050737026404	5XA52818NA28	12.68
4050737026411	5XA52818NA58	12.70
4050737026428	5XA52818NS28	12.67
4050737026435	5XA52818NS58	12.69
4050737026442	5XA52818WA28	12.68
4050737026459	5XA52818WA58	12.70
4050737026466	5XA52818WS28	12.67
4050737026473	5XA52818WS58	12.69
4050737026480	5XA52819NA28	12.68
4050737026497	5XA52819NA58	12.70
4050737026503	5XA52819NS28	12.67
4050737026510	5XA52819NS58	12.69
4050737026527	5XA52819WA28	12.68
4050737026534	5XA52819WA58	12.70
4050737026541	5XA52819WS28	12.67
4050737026558	5XA52819WS58	12.69
4050737026565	5XA52918NA28	12.74
4050737026572	5XA52918NA58	12.76
4050737026589	5XA52918NA58D	12.78
4050737026596	5XA52918NS28	12.73
4050737026602	5XA52918NS58	12.75
4050737026619	5XA52918NS58D	12.77
4050737026626	5XA52918WA28	12.74
4050737026633	5XA52918WA58	12.76
4050737026640	5XA52918WA58D	12.78
4050737026657	5XA52918WS28	12.73
4050737026664	5XA52918WS58	12.75
4050737026671	5XA52918WS58D	12.77

Order no. OSRAM	Order no. Siteco	Page
4050737026688	5XA52919NA28	12.74
4050737026695	5XA52919NA58	12.76
4050737026701	5XA52919NA58D	12.78
4050737026718	5XA52919NS28	12.73
4050737026725	5XA52919NS58	12.75
4050737026732	5XA52919NS58D	12.77
4050737026749	5XA52919WA28	12.74
4050737026756	5XA52919WA58	12.76
4050737026763	5XA52919WA58D	12.78
4050737026770	5XA52919WS28	12.73
4050737026787	5XA52919WS58	12.75
4050737026794	5XA52919WS58D	12.77
4050737028682	5MC24B61HS	2.14
4050737028866	5EA6Y00L05	12.67, 12.68, 12.69, 12.70, 12.82
4050737028897	5EA6Y00L06	12.73, 12.74, 12.75, 12.76, 12.77, 12.78, 12.82
4050737029030	5TR901342	8.34, 8.100, 8.120
4050737029399	5DC11A77VL333C	5.31
4050737029412	5MC24B71QS	2.14
4050737029702	5DC11K77VL333C	5.29
4050737029719	5DC11K77VL333E	5.29
4050737029726	5DN11K77VL336C	5.19, 5.37
4050737029733	5DN11K77VL336E	5.19, 5.37
4050737030111	5DC11A77VL333E	5.31
4050737030135	5DC11B77VL333C	5.33
4050737030166	5DC11BD7VL353C	5.33
4050737030173	5DC11BD7VL353E	5.33
4050737030210	5DC11KD7VL353C	5.29
4050737030241	5DC11KD7VL353E	5.29
4050737030302	5DN11KD7VL356C	5.19, 5.37
4050737030319	5DN11KD7VL356E	5.19, 5.37
4050737030753	5DC11AD7VL353C	5.31
4050737030777	5DC11AD7VL353E	5.31
4050737031088	5MC61671HS	4.33
4050737032856	5DN11B77VL336C	5.20, 5.39
4050737032870	5DN11B77VL336E	5.20, 5.39
4050737032894	5DN11BD7VL356C	5.20, 5.39
4050737032924	5DN11BD7VL356E	5.20, 5.39
4050737032931	5DN11K78VL3W3C	5.18, 5.36
4050737032955	5DN11K78VL3W3E	5.18, 5.36
4050737032993	5LS41271T	9.22
4050737033242	5DC11B77VL333E	5.33
4050737033310	5LS41271V	9.22
4050737033334	5LS41272T	9.22
4050737033365	5LS41272V	9.22
4050737037608	5MJ21162W	3.54
4050737037622	5TR61120H	8.55
4050737037646	5TR61120Q	8.55
4050737037660	5TR61150H	8.54
4050737037684	5TR61150Q	8.54
4050737038018	5LS41271T65	9.21
4050737038025	5LS41271V65	9.21
4050737038032	5LS41272T65	9.21
4050737038049	5LS41272V65	9.21
4050737038100	5LF11473MN	4.85
4050737038124	5LF11473YN	4.85
4050737038148	5LF11474MN	4.85
4050737038162	5LF11474YN	4.85
4050737038186	5LF11673MN	4.87
4050737038216	5LF11673YN	4.87
4050737038223	5LF11674MN	4.87
4050737038247	5LF11674YN	4.87
4050737038278	5LF11B73MN	4.83
4050737038285	5LF11B73YN	4.83
4050737038308	5LF11B74MN	4.83
4050737038339	5LF11B74YN	4.83
4050737038346	5LF12473MN	4.85

Order no. OSRAM	Order no. Siteco	Page
4050737038360	5LF12473YN	4.85
4050737038391	5LF12474MN	4.85
4050737038407	5LF12474YN	4.85
4050737038421	5LF12673MN	4.87
4050737038452	5LF12673YN	4.87
4050737038469	5LF12674MN	4.87
4050737038483	5LF12674YN	4.87
4050737038513	5LF12B73MN	4.83
4050737038520	5LF12B73YN	4.83
4050737038544	5LF12B74MN	4.83
4050737038568	5LF12B74YN	4.83
4050737038865	5MC24B61QS	2.14
4050737039862	5TR14501RR	8.65, 8.66
4050737039886	5TR14501UR	8.65, 8.66
4050737039916	5TR14502RR	8.65, 8.66
4050737039923	5TR14502UR	8.65, 8.66
4050737039947	5TR14512US	8.65
4050737039961	5TR14512X	8.65
4050737040011	5TR14601RR1	8.71, 8.72
4050737040042	5TR14601UR1	8.71, 8.72
4050737040059	5TR14912R	8.71
4050737040073	5TR14912U	8.71
4050737040134	5XA75800XG08	10.56
4050737040448	5MP90501	3.37, 4.51
4050737040462	5MP90502	3.37, 4.51
4050737040615	5LS44971T	9.23
4050737040639	5LS44971V	9.23
4050737040660	5LS44972T	9.23
4050737040677	5LS44972V	9.23
4050737040691	5LS4L650T220	9.22, 9.23
4050737040714	5LS4L650V220	9.22, 9.23
4050737040813	5LF11BD3BN	4.83
4050737040837	5LF11BD4BN	4.83
4050737040912	5TR14512U	8.65
4050737040936	5TR14512XS	8.65
4050737041001	5DN11B77VL337E	5.40
4050737041025	5DN11BD7VL357E	5.40
4050737041049	5LF114D3BN	4.85
4050737041070	5LF114D4BN	4.85
4050737041087	5LF116D3BN	4.87
4050737041100	5LF116D4BN	4.87
4050737041131	5LF124D3BN	4.85
4050737041148	5LF124D4BN	4.85
4050737041162	5LF126D3BN	4.87
4050737041193	5LF126D4BN	4.87
4050737041209	5LF12BD3BN	4.83
4050737041223	5LF12BD4BN	4.83
4050737041346	5LS4L650T220P2	9.22, 9.23
4050737041360	5LS4L650V220P2	9.22, 9.23
4050737041407	5MP31271W1	3.40, 4.54
4050737041421	5MP312D1W1	3.40, 4.54
4050737041780	5MC12662HS	4.29
4050737042138	5MP311D1W1	3.38, 4.52
4050737042442	5XA75700XG08	10.56
4050737042480	5MP31471H	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50
4050737044415	5LF11463BN	4.85
4050737044439	5LF11464BN	4.85
4050737044460	5LF11B63BN	4.83
4050737044477	5LF11B64BN	4.83
4050737044675	5LF11663BN	4.87
4050737044699	5LF11664BN	4.87
4050737044712	5LF12463BN	4.85
4050737044736	5LF12464BN	4.85
4050737044750	5LF12663BN	4.87
4050737044781	5LF12664BN	4.87
4050737044798	5LF12B63BN	4.83



Order no. OSRAM	Order no. Siteco	Page
4050737044811	5LF12B64BN	4.83
4050737045108	5DC11J77VL335H	5.35
4050737045139	5DC11JD7VL355H	5.35
4050737045146	5DC11JD7VL355K	5.35
4050737048734	5LF12471HN	4.84
4050737048772	5LF12472HN	4.84
4050737049182	5MP31471W	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50
4050737049199	5MP314D1H	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50
4050737049311	5MP314D1W	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50
4050737049410	5MC61661QW	4.33
4050737049557	5TR14510XD	8.65, 8.66
4050737049632	5DC11J77VL335K	5.35
4050737049717	5DN11B77VL337C	5.40
4050737049724	5DN11BD7VL357C	5.40
4050737049922	5LF41WD1W	4.68
4050737050867	5MP311D1HMA	3.37, 4.51
4050737050874	5MP311D1WMA	3.37, 4.51
4050737051581	5DCA34BOW	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.46
4050737051598	5DCA34SOW	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.46
4050737051604	5DCA35OSW	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.46
4050737051611	5DCA4100	5.29, 5.31, 5.33, 5.34, 5.35, 5.47
4050737051628	5DCA4100W	5.29, 5.31, 5.33, 5.34, 5.35, 5.47
4050737051635	5DCA410S	5.29, 5.31, 5.33, 5.34, 5.47
4050737051642	5DCA410SW	5.29, 5.31, 5.33, 5.34, 5.47
4050737051659	5DCA41SS	5.29, 5.31, 5.33, 5.34, 5.47
4050737051666	5DCA41SSW	5.29, 5.31, 5.33, 5.34, 5.47
4050737051673	5DCA7100	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.48
4050737051680	5DCA7300	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.49
4050737051697	5DNA34BOW	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.46
4050737051703	5DNA34SOW	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.46
4050737051710	5DNA35OSW	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.46
4050737051727	5DNA4100	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47
4050737051734	5DNA4100W	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47
4050737051741	5DNA410S	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47
4050737051758	5DNA410SW	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47
4050737051765	5DNA41SS	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47
4050737051772	5DNA41SSW	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47
4050737051789	5DNA7100	5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.48
4050737051796	5DNA7300	5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.49
4050737051925	5MC11662HW	4.30
4050737051963	5LF12B62HN	4.82
4050737052557	5LF11461HN	4.84
4050737052571	5LF11461QN	4.84
4050737052595	5LF11462HN	4.84
4050737052816	5LF11462WN	4.84
4050737052854	5LF11471HN	4.84
4050737052878	5LF11471QN	4.84
4050737052892	5LF11472HN	4.84
4050737052922	5LF11472WN	4.84
4050737052953	5LF11661HN	4.86
4050737052977	5LF11661QN	4.86

Order no. OSRAM	Order no. Siteco	Page
4050737052991	5LF11662HN	4.86
4050737053028	5LF11662WN	4.86
4050737053066	5LF11671HN	4.86
4050737053080	5LF11671QN	4.86
4050737053110	5LF11672HN	4.86
4050737053127	5LF11672WN	4.86
4050737053165	5LF11B61HN	4.82
4050737053196	5LF11B61QN	4.82
4050737053202	5LF11B62HN	4.82
4050737053226	5LF11B62WN	4.82
4050737053264	5LF11B71HN	4.82
4050737053295	5LF11B71QN	4.82
4050737053301	5LF11B72HN	4.82
4050737053325	5LF11B72WN	4.82
4050737053370	5LF12461HN	4.84
4050737053400	5LF12462HN	4.84
4050737053530	5LF12661HN	4.86
4050737053578	5LF12662HN	4.86
4050737053639	5LF12671HN	4.86
4050737053677	5LF12672HN	4.86
4050737053738	5LF12B61HN	4.82
4050737053820	5LF12B71HN	4.82
4050737053875	5LF12B72HN	4.82
4050737054001	5LF114D1HN	4.84
4050737054025	5LF114D1QN	4.84
4050737054049	5LF114D2HN	4.84
4050737054070	5LF114D2WN	4.84
4050737054100	5LF116D1HN	4.86
4050737054131	5LJ9056HPL	8.161, 13.73
4050737054186	5TR3650SBL	8.26, 8.92, 13.79
4050737054407	5DC12K77VL333C	5.34
4050737054421	5DC12K77VL333E	5.34
4050737054476	5DC12KD7VL353C	5.34
4050737054483	5DC12KD7VL353E	5.34
4050737054537	5DN12B77VL336C	5.23, 5.43
4050737054544	5DN12B77VL336E	5.23, 5.43
4050737054568	5DN12B77VL337C	5.44
4050737054582	5DN12B77VL337E	5.44
4050737054612	5DN12BD7VL356C	5.23, 5.43
4050737054629	5DN12BD7VL356E	5.23, 5.43
4050737054643	5DN12BD7VL357C	5.44
4050737054667	5DN12BD7VL357E	5.44
4050737054698	5DN12K77VL336C	5.22, 5.42
4050737054704	5DN12K77VL336E	5.22, 5.42
4050737054773	5DN12K78VL3W3C	5.21, 5.41
4050737054780	5DN12K78VL3W3E	5.21, 5.41
4050737054803	5DN12KD7VL356C	5.22, 5.42
4050737054827	5DN12KD7VL356E	5.22, 5.42
4050737054896	5LF116D1QN	4.86
4050737054926	5LF116D2HN	4.86
4050737054933	5LF116D2WN	4.86
4050737054988	5LF11BD1HN	4.82
4050737054995	5LF11BD1QN	4.82
4050737055015	5LF11BD2HN	4.82
4050737055039	5LF11BD2WN	4.82
4050737055077	5LF124D1HN	4.84
4050737055114	5LF124D2HN	4.84
4050737055176	5LF126D1HN	4.86
4050737055220	5LF126D2HN	4.86
4050737055275	5LF12BD1HN	4.82
4050737055312	5LF12BD2HN	4.82
4050737056005	5LZ904721	13.10, 13.11
4050737056302	5LZ904711	8.31, 8.97, 13.14, 13.16
4050737056333	5TR3050SBH	8.27, 8.93, 13.79
4050737056722	5TR3050SBHR	8.27, 8.28, 8.93, 8.94, 13.79
4050737056746	5TR3050SBL	8.26, 8.92, 13.79
4050737056760	5TR3050DMBH	8.27, 8.28, 8.93, 8.94



Order no. OSRAM	Order no. Siteco	Page
4050737056784	5TR305DMBL	8.26, 8.92
4050737056807	5TR365DMBL	8.26, 8.92
4050737057163	5DNA7501	5.48
4050737057422	5LF11462QN	4.84
4050737057446	5LF114D2QN	4.84
4050737057460	5LF11662QN	4.86
4050737057491	5LF116D2QN	4.86
4050737057507	5LF11B62QN	4.82
4050737057521	5LF11BD2QN	4.82
4050737059358	5MC226D2QS	3.23
4050737059372	5MC62662HW	4.32
4050737059808	5DCA2100	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.45
4050737059839	5DNA2100	5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45
4050737059853	5LZ904334	13.8, 13.9, 13.15
4050737059907	5LZ904731	13.7
4050737059921	5LZ904732	13.5, 13.6, 13.8
4050737059945	5LZ904733	13.10, 13.11
4050737059976	5LZ904733DAW	13.10, 13.19
4050737059983	5LZ904741	13.5
4050737060002	5LZ904741HW	13.5, 13.19
4050737060026	5LZ904741MW	13.5, 13.19
4050737060057	5LZ904742	13.6
4050737060064	5LZ904743	13.6
4050737060088	5LZ904744	13.6
4050737060255	5MC11661QW	4.30
4050737061726	5DCA230B	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.45
4050737061771	5DCA230S	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.45
4050737061832	5DNA230B	5.25, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45
4050737061849	5DNA230S	5.25, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45
4050737061894	5DNA230W	5.25, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45
4050737062006	5DCA230W	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.45
4050737062334	5DCA73001	5.49
4050737062358	5DCA73002	5.49
4050737062372	5DNA73001	5.49
4050737062396	5DNA73002	5.49
4050737063171	5MC11672QW	4.30
4050737063492	5MC626D4BW	4.34
4050737066561	5LJ793D2BD	4.58
4050737066608	5DNA220W	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45
4050737066622	5DNA2300	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45
4050737067216	5TS30000A	8.107
4050737067230	5TS30000B	8.107
4050737069029	5LJ793D1UD	4.58
4050737069371	5MC226D4BS	3.24
4050737071282	5MC116D1QS	4.30
4050737071350	5MC616D2QW	4.33
4050737071800	5LJ793D6UD	4.58
4050737072159	5TS40271Q	8.116
4050737072647	5TS30271Q	8.116
4050737072678	5TS30272Q	8.116
4050737073026	5TS30471Q	8.116
4050737073057	5TS40272Q	8.116
4050737073064	5TS40471Q	8.116
4050737073118	5TS48271Q	8.115
4050737073125	5TS48272Q	8.115
4050737073163	5TS48471Q	8.115
4050737087931	5LJ793D2UD	4.58
4050737091662	5LJ160003	10.17, 10.18, 10.19, 10.20, 10.21, 10.22

Order no. OSRAM	Order no. Siteco	Page
4050737093062	5LJ100L1YK	7.6
4050737093079	5LJ100L1YL	7.6
4050737093086	5LJ100L2YK	7.6
4050737093093	5LJ100L2YL	7.6
4050737093512	5LJ160002	10.17, 10.18, 10.19, 10.20, 10.21, 10.22
4050737094304	5LJ160001	10.9, 10.10, 10.11, 10.12, 10.13, 10.17, 10.18, 10.19, 10.20, 10.21, 10.22
4050737094724	5LJ160004	10.14, 10.23
4050737095301	5LJ16174Q	10.17
4050737095349	5LJ161D4Q	10.17
4050737095363	5LJ161D4QM	8.89
4050737095394	5LJ16274Q	10.18
4050737095424	5LJ16274QM	8.90
4050737095448	5LJ162D4Q	10.18
4050737095462	5LJ162D4QM	8.90
4050737095561	5LS16174Q	10.19
4050737095592	5LS161D4Q	10.19
4050737095608	5LS161D4QM	8.117
4050737095622	5LS16274Q	10.20
4050737095646	5LS16274QM	8.118
4050737095660	5LS162D4Q	10.20
4050737095684	5LS162D4QM	8.118
4050737095905	5LJ16164Q	10.17
4050737095929	5LJ16164QM	8.89
4050737095943	5LJ16174QM	8.89
4050737095967	5LJ16264Q	10.18
4050737095981	5LJ16264QM	8.90
4050737096018	5LS16164Q	10.19
4050737096025	5LS16164QM	8.117
4050737096049	5LS16174QM	8.117
4050737096063	5LS16264Q	10.20
4050737096087	5LS16264QM	8.118
4050737096100	5LS16474Q	10.21
4050737096902	5MC254DL3HS1	2.7
4050737096926	5MC254DL3HS2	2.8
4050737096940	5MC254DL4HS1	2.7
4050737096964	5MC254DL4HS2	2.8
4050737097718	5LZ904750	13.15
4050737098104	5MC12661HS	4.29
4050737098302	5MC116D4BS	4.31
4050737099514	5LR610DCOA11AF	6.8
4050737099538	5LR610DEOA11AF	6.8
4050737099552	5LR611DCOA31AE	6.7
4050737099576	5LR611DCOA41AF	6.7
4050737099590	5LR611DEOA31AE	6.7
4050737099613	5LR611DEOA41AF	6.7
4050737099774	5LK21872HS	2.32, 3.17
4050737099958	5TR90121Q1	8.41, 8.49, 8.53
4050737099972	5TR90121Q2	8.41, 8.49, 8.53
4050737099996	5TR90121Q3	8.41, 8.49, 8.53
4050737100012	5XR2461A1A1S	1.5
4050737100029	5XR2461A1A1W	1.6
4050737100036	5XR2461A1A2S	1.5
4050737100043	5XR2461A1A2W	1.6
4050737100050	5XR2462A1A1S	1.5
4050737100074	5XR2462A1A2S	1.5
4050737100081	5XR2462A1A2W	1.6
4050737100104	5XR2462A1A1W	1.6
4050737100203	5LK118D1GW	4.17
4050737100227	5LK128D1GW	4.17
4050737100982	5TR30871Q	8.49
4050737101200	5TR30871QR	8.50
4050737101224	5TR30872Q	8.49
4050737101248	5TR30872QR	8.50
4050737101262	5TR36871Q	8.49

Order no. OSRAM	Order no. Siteco	Page
4050737101286	5TR36871QR	8.50
4050737101309	5TR36872Q	8.49
4050737101323	5TR36872QR	8.50
4050737101972	5MQ118DL3P	4.8
4050737101996	5MQ118DL4P	4.8
4050737115566	5MC11672BW	4.30
4050737116624	5MQ118DL3Y	4.9
4050737116648	5MQ118DL4Y	4.9
4050737116662	5MQ128DL3Y	4.9
4050737116686	5MQ128DL4Y	4.9
4050737116815	5MQ128DL3P	4.8
4050737116839	5MQ128DL4P	4.8
4050737117003	5LK11872BW	4.21
4050737117041	5LK11874BW	4.21
4050737117065	5LK118D1DW	4.17
4050737117102	5LK118D2BW	4.21
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4050737117225	5LK12874BW	4.21
4050737117249	5LK128D1DW	4.17
4050737117287	5LK128D2BW	4.21
4050737117324	5LK128D4BW	4.21
4050737460147	5NX610003	10.9, 10.10, 10.11, 10.12, 10.13
4050737461472	5AA610501N	12.8
4050737461496	5AA620511W	12.9
4050737461830	5AA411512N	12.60
4050737461854	5AA411512W	12.60
4050737461878	5AA411522N	12.60
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4050737461915	5AA421512N	12.61
4050737461939	5AA421512W	12.61
4050737461953	5AA421522N	12.61
4050737461977	5AA421522W	12.61
4050737461991	5AA431512N	12.62
4050737462011	5AA431512W	12.62
4050737462035	5AA431522N	12.62
4050737462059	5AA431522W	12.62
4050737462073	5AA441512N	12.63
4050737462097	5AA441512W	12.63
4050737462110	5AA441522N	12.63
4050737462134	5AA441522W	12.63
4050737462318	5AA620511N	12.9
4050737462332	5AA322503N	12.30
4050737462356	5AA322503NE	12.31
4050737462370	5AA322503W	12.30
4050737462394	5AA322503WE	12.31
4050737462431	5AA610501W	12.8
4050737462516	5AA510501W	12.12
4050737462530	5AA510501N	12.12
4050737462554	5AA510511W	12.12
4050737462578	5AA510511N	12.12
4050737462592	5AA520521W	12.13
4050737462615	5AA520521N	12.13
4050737462639	5AA520501W	12.13
4050737462653	5AA520501N	12.13
4050737462677	5AA520511W	12.13
4050737462691	5AA520511N	12.13
4050737462714	5AA530523W	12.14
4050737462738	5AA530523N	12.14
4050737462752	5AA530503W	12.14
4050737462776	5AA530503N	12.14
4050737462790	5AA530513W	12.14
4050737462813	5AA530513N	12.14
4050737462936	5MQ218DL4P	2.23, 3.6
4050737463353	5MC11672HS	4.30
4050737463483	5MQ218DL3P	2.23, 3.6
4050737463698	5NX613D2A4E	10.12

Order no. OSRAM	Order no. Siteco	Page
4050737463827	5AA162506N	12.16
4050737463841	5AA162506W	12.16
4050737463865	5AA163506W	12.16
4050737463889	5AA164506N	12.17
4050737463902	5AA164506W	12.17
4050737463926	5AA172506N	12.16
4050737463940	5AA172506W	12.16
4050737463964	5AA173506N	12.16
4050737463988	5AA173506W	12.16
4050737464008	5AA174506N	12.17
4050737464022	5AA174506W	12.17
4050737464046	5AA262506N	12.21
4050737464060	5AA262506W	12.21
4050737464084	5AA262516N	12.20
4050737464107	5AA262516W	12.20
4050737464121	5AA263506N	12.21
4050737464145	5AA263506W	12.21
4050737464169	5AA263516N	12.20
4050737464183	5AA263516W	12.20
4050737464206	5AA264506N	12.22
4050737464220	5AA264506W	12.22
4050737464244	5AA264516N	12.22
4050737464268	5AA264516W	12.22
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4050737464305	5AA272506W	12.21
4050737464329	5AA272516N	12.20
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4050737464381	5AA273516N	12.20
4050737464404	5AA273516W	12.20
4050737464428	5AA274506N	12.22
4050737464442	5AA274506W	12.22
4050737464466	5AA274516N	12.22
4050737464480	5AA274516W	12.22
4050737464701	5AA273506W	12.21
4050737465487	5NX611D1A2E	10.9
4050737465500	5NX612D1A2E	10.9
4050737465524	5AA163506N	12.16
4050737466712	5NX612D2A4E	10.10
4050737466736	5NX613D1A2E	10.11
4050737466750	5NX611D2A4E	10.10
4050737466996	5LS164D4Q	10.21
4050737467962	5LK128D1ZW	4.16
4050737467986	5LK118D1ZW	4.16
4050737468006	5LK118D1OW	4.16
4050737468020	5LK118D1HW	4.20
4050737468044	5LK11871HW	4.20
4050737468068	5LK11872HW	4.20
4050737468082	5LK118D2HW	4.20
4050737468105	5LK12871HW	4.20
4050737468129	5LK12872HW	4.20
4050737468143	5LK128D1HW	4.20
4050737468167	5LK128D2HW	4.20
4050737468181	5LK128D1OW	4.16
4050737468273	5LZ913010	13.45, 13.50
4050737468525	5LZ913003	13.48, 13.50
4050737468549	5LZ913004	13.47, 13.50
4050737468587	5LZ913008	13.43, 13.50
4050737468600	5LZ913TB1	13.48, 13.53
4050737468624	5LZ913TB2	13.47, 13.53, 13.71, 13.72, 13.75
4050737468648	5LZ916001	8.32, 8.98, 13.79, 13.83
4050737468662	5LZ913002	13.46, 13.50
4050737468686	5LZ913001	13.50
4050737468808	5LZ913009	13.44, 13.50, 13.79
4050737469003	5LZ90205DA	13.72, 13.79
4050737469317	5MC22B71HS	3.21
4050737470580	5XA7621E1D00	10.48

Order no. OSRAM	Order no. Siteco	Page
4050737471273	5LK21874BS	3.18
4050737471280	5LK218D1ZS	2.30, 3.13
4050737471297	5LK218D2HS	2.32, 3.17
4050737471303	5LK218D4BS	3.18
4050737471310	5LK218D4GS	3.14
4050737476827	5LK21871HS	2.32, 3.17
4050737476841	5LK218D10S	2.30, 3.13
4050737478456	5LK91202	2.34
4050737478500	5LK91108	2.30, 2.32, 2.34
4050737478524	5LK91118	2.30, 2.32, 2.34
4050737478548	5LK91117	2.30, 2.32, 2.34
4050737478623	5LK91106	2.30, 2.32, 2.34
4050737478647	5LK91105	2.30, 2.32, 2.34
4050737478661	5LK91116	2.30, 2.32, 2.34
4050737478685	5LK91115	2.30, 2.32, 2.34
4050737478708	5LK91107	2.30, 2.32, 2.34
4050737480299	5LK593040S	2.35
4050737482583	5TR201D1T	8.12
4050737482828	5TR202D1T	8.13
4050737482842	5TR202D2T	8.13
4050737482866	5TR262D1T	8.13
4050737482880	5TR269D1T	8.15
4050737482903	5TR264D2T	8.14
4050737482927	5TR269D2T	8.15
4050737482941	5TR201D2T	8.12
4050737482965	5TR203D1T	8.11
4050737482989	5TR203D2T	8.11
4050737483009	5TR204D1T	8.14
4050737483023	5TR209D2T	8.15
4050737483047	5TR261D1T	8.12
4050737483061	5TR261D2T	8.12
4050737483085	5TR262D2T	8.13
4050737483108	5TR263D1T	8.11
4050737483122	5TR263D2T	8.11
4050737483146	5TR264D1T	8.14
4050737483160	5TR204D2T	8.14
4050737483405	5TR209D1T	8.15
4050737511375	5MQ90101	3.6, 3.10
4050737514024	5LF519D1ZW	3.78
4050737514062	5MJ223DL44	3.48
4050737518992	5MQ90102	2.23, 2.27
4050737523248	5MJ223DL43	3.48
4050737523255	5MJ223DL24	3.48
4050737523262	5MJ223DL23	3.48
4050737523279	5MJ222DL44	3.49
4050737523286	5MJ222DL43	3.49
4050737523293	5MJ222DL24	3.49
4050737523316	5TR3050AY	8.30, 8.32, 8.96, 8.98, 13.13, 13.83
4050737524900	5MJ222DL23	3.49
4050737524917	5MJ211DL44	3.50
4050737524924	5MJ211DL43	3.50
4050737524931	5MJ211DL24	3.50
4050737524948	5MJ211DL23	3.50
4050737525020	5LK218D1HS	2.32, 3.17
4050737526669	5TR9026	8.9, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16
4050737530246	5LF519D1ZS	3.78
4050737530260	5LF519D1ZS002	3.78
4050737530284	5LF519D1ZW002	3.78
4050737535241	5DNA7701S	5.18, 5.19, 5.20, 5.21, 5.22, 5.23
4050737535265	5DNA7701W	5.18, 5.19, 5.20, 5.21, 5.22, 5.23
4050737542942	5DCA112C1	5.53
4050737542966	5DCA112C3	5.53
4050737542980	5DCA112R1	5.54
4050737543000	5DCA112R3	5.54
4050737544199	5DCA001M	5.55

Order no. OSRAM	Order no. Siteco	Page
4050737544212	5DCA001S	5.55
4050737567945	5TR9027	8.11, 8.12, 8.13, 8.14, 8.15, 8.16
4050737577432	5MC11661HW	4.30
4050737577456	5MC11662BS	4.30
4050737577470	5MC11662BW	4.30
4050737577500	5MC11662HS	4.30
4050737577517	5MC11662QS	4.30
4050737577531	5MC11664BS	4.31
4050737577555	5MC11664BW	4.31
4050737577586	5MC11671BS	4.30
4050737577593	5MC11671BW	4.30
4050737577623	5MC11671HS	4.30
4050737577647	5MC11671QS	4.30
4050737577661	5MC11672BS	4.30
4050737577685	5MC11672HW	4.30
4050737577692	5MC11672QS	4.30
4050737577715	5MC11674BS	4.31
4050737577739	5MC11674BW	4.31
4050737577753	5MC116D1HS	4.30
4050737577777	5MC116D1HW	4.30
4050737577791	5MC116D1QW	4.30
4050737577814	5MC116D2HS	4.30
4050737577845	5MC116D2HW	4.30
4050737577852	5MC116D2QS	4.30
4050737577876	5MC116D2QW	4.30
4050737577890	5MC116D4BW	4.31
4050737577913	5MC11B64BS	4.26
4050737577937	5MC11B64BW	4.26
4050737577951	5MC11B74BS	4.26
4050737577975	5MC11B74BW	4.26
4050737578026	5MC11BD4BS	4.26
4050737578033	5MC11BD4BW	4.26
4050737578071	5MC12662HW	4.29
4050737578095	5MC12664BS	4.31
4050737578118	5MC12664BW	4.31
4050737578156	5MC12671BS	4.29
4050737578187	5MC12671BW	4.29
4050737578194	5MC12671HS	4.29
4050737578217	5MC12671HW	4.29
4050737578279	5MC12672BS	4.29
4050737578309	5MC12672BW	4.29
4050737578323	5MC12672HS	4.29
4050737578378	5MC12674BS	4.31
4050737578392	5MC12674BW	4.31
4050737578415	5MC126D1HS	4.29
4050737578439	5MC126D1HW	4.29
4050737578491	5MC126D2BW	4.29
4050737578521	5MC126D2HS	4.29
4050737578538	5MC126D2HW	4.29
4050737578590	5MC126D4BS	4.31
4050737578613	5MC126D4BW	4.31
4050737578637	5MC12B64BS	4.26
4050737578651	5MC12B64BW	4.26
4050737578675	5MC12B74BS	4.26
4050737578705	5MC12B74BW	4.26
4050737578712	5MC12B04BS	4.26
4050737578736	5MC12B04BW	4.26
4050737578750	5MC22661HS	3.23
4050737578774	5MC22661QS	3.23
4050737578798	5MC22662BS	3.23
4050737578811	5MC22662QS	3.23
4050737578835	5MC22664BS	3.24
4050737578866	5MC22666BS	3.24
4050737578873	5MC22671BS	3.23
4050737578897	5MC22672QS	3.23
4050737578910	5MC22676BS	3.24
4050737578934	5MC226D1HS	3.23

Order no. OSRAM	Order no. Siteco	Page
4050737578958	5MC226D1QS	3.23
4050737578972	5MC226D2BS	3.23
4050737578996	5MC226D2HS	3.23
4050737579016	5MC226D6BS	3.24
4050737579047	5MC22B64BS	3.22
4050737579054	5MC22B66BS	3.22
4050737579078	5MC22B74BS	3.22
4050737579092	5MC22B76BS	3.22
4050737579115	5MC22BD6BS	3.22
4050737579139	5MC61661HW	4.33
4050737579153	5MC61662HS	4.33
4050737579177	5MC61662HW	4.33
4050737579207	5MC61662QS	4.33
4050737579214	5MC61662QW	4.33
4050737579238	5MC61664BS	4.34
4050737579252	5MC61664BW	4.34
4050737579276	5MC61671BS	4.33
4050737579290	5MC61671BW	4.33
4050737579313	5MC61671QS	4.33
4050737579337	5MC61671QW	4.33
4050737579351	5MC61672BS	4.33
4050737579382	5MC61672BW	4.33
4050737579399	5MC61672HS	4.33
4050737579412	5MC61672HW	4.33
4050737579436	5MC61672QS	4.33
4050737579450	5MC61672QW	4.33
4050737579474	5MC61674BS	4.34
4050737579498	5MC61674BW	4.34
4050737579511	5MC616D1HS	4.33
4050737579542	5MC616D1HW	4.33
4050737579559	5MC616D1QS	4.33
4050737579573	5MC616D1QW	4.33
4050737579597	5MC616D2HS	4.33
4050737579610	5MC616D2HW	4.33
4050737579634	5MC616D4BS	4.34
4050737579658	5MC616D4BW	4.34
4050737579696	5MC61B64BS	4.28
4050737579726	5MC61B64BW	4.28
4050737579757	5MC61B74BS	4.28
4050737579771	5MC61B74BW	4.28
4050737579795	5MC61BD4BS	4.28
4050737579818	5MC61BD4BW	4.28
4050737579856	5MC62661HW	4.32
4050737579887	5MC62664BS	4.34
4050737579894	5MC62664BW	4.34
4050737579917	5MC62671BS	4.32
4050737579931	5MC62671BW	4.32
4050737579955	5MC62671HS	4.32
4050737580012	5MC62672BS	4.32
4050737580036	5MC62672BW	4.32
4050737580067	5MC62672HS	4.32
4050737580074	5MC62672HW	4.32
4050737580135	5MC62674BW	4.34
4050737580159	5MC626D1BW	4.32
4050737580173	5MC626D1HS	4.32
4050737580197	5MC626D1HW	4.32
4050737580258	5MC626D2BW	4.32
4050737580272	5MC626D2HS	4.32
4050737580296	5MC626D2HW	4.32
4050737580357	5MC626D4BS	4.34
4050737580371	5MC62B74BS	4.28
4050737580401	5MC62B74BW	4.28
4050737580418	5MC62BD4BS	4.28
4050737580432	5MC62BD4BW	4.28
4050737583020	5XA7621E2D00	10.49
4050737583044	5XA7641E2D00	10.50
4050737585345	5DC11A77VL339C	5.32

Order no. OSRAM	Order no. Siteco	Page
4050737585369	5DC11A77VL339E	5.32
4050737585383	5DC11AD7VL359C	5.32
4050737585406	5DC11AD7VL359E	5.32
4050737587875	5DC11K77VL339C	5.30
4050737587899	5DC11K77VL339E	5.30
4050737587929	5DC11KD7VL359C	5.30
4050737587936	5DC11KD7VL359E	5.30
4050737588032	5DN11K77VL339C	5.38
4050737588063	5DN11K77VL339E	5.38
4050737588070	5DN11KD7VL359C	5.38
4050737588094	5DN11KD7VL359E	5.38
4050737599120	2LS51271TAN	9.7, 9.11, 9.14, 9.16
4050737599144	2LS51271TAN003	9.7
4050737599168	2LS51271TANR	9.10
4050737599182	2LS51271TAW	9.8, 9.12, 9.14, 9.16
4050737599502	2LS51271TAW003	9.8
4050737599533	2LS51271TAWR	9.10
4050737599540	2LS512D1TCN	9.7, 9.11, 9.14, 9.16
4050737599564	2LS512D1TCN005	9.7
4050737599588	2LS512D1TCNR	9.10
4050737599601	2LS512D1TCW	9.8, 9.12, 9.14, 9.16
4050737599625	2LS512D1TCW005	9.8
4050737599656	2LS512D1TCWR	9.10
4050737599663	2LS52271TAN	9.7, 9.11, 9.14, 9.16
4050737599687	2LS52271TAN003	9.7
4050737599700	2LS52271TANR	9.10
4050737599724	2LS52271TAW	9.8, 9.12, 9.14, 9.16
4050737599748	2LS52271TAW003	9.8
4050737599779	2LS52271TAWR	9.10
4050737599786	2LS522D1TCN	9.7, 9.11, 9.14, 9.16
4050737599809	2LS522D1TCN005	9.7
4050737599823	2LS522D1TCNR	9.10
4050737599847	2LS522D1TCW	9.8, 9.12, 9.14, 9.16
4050737599861	2LS522D1TCW005	9.8
4050737599885	2LS522D1TCWR	9.10
4050737600338	5LS59000A	9.11, 9.12
4050737600352	5LS59000C	9.11, 9.12
4050737600383	5LS59000EA	9.14
4050737600390	5LS59000EC	9.14
4050737600413	5LS59000RA	9.16
4050737600437	5LS59000RC	9.16
4050737600444	5LS59201	9.17
4050737606156	5DNA7701H	5.26
4050737606170	5DNA7701HS	5.26
4050737612225	5LF11B722Z	4.80
4050737614045	5LF12BD22Z	4.80
4050737619132	2LJ20271V	8.131
4050737619743	5TR3650AY	8.30, 8.32, 8.96, 8.98, 13.13, 13.83
4050737619767	5LZ904722	8.32, 8.98, 13.12, 13.83
4050737619774	5LZ904005	8.32, 8.98, 13.12, 13.14, 13.79, 13.83
4050737623276	5LS59201	9.7, 9.8, 9.10
4050737623917	5LF11B722ZN002	4.80
4050737623948	5LZ904004	8.32, 8.98, 13.12, 13.14, 13.79, 13.83
4050737623955	5LZ913011	13.49, 13.50
4050737624020	5LF12BD22ZN002	4.80
4050737624037	5LF12B722Z	4.80
4050737624044	5LF11BD22Z	4.80
4050737624525	5LF11BD22ZN002	4.80
4050737624648	5LF12B722ZN002	4.80
4050737651682	5MC11B71BS	4.25
4050737651699	5MC11B71BW	4.25
4050737651705	5MC11B71HS	4.25
4050737651712	5MC11B71HW	4.25
4050737651729	5MC11B71QS	4.25

Order no. OSRAM	Order no. Siteco	Page
4050737651736	5MC11B71QW	4.25
4050737651743	5MC11BD1HS	4.25
4050737651750	5MC11BD1QS	4.25
4050737651767	5MC12B71HW	4.25
4050737651774	5MC12BD1BW	4.25
4050737651781	5MC12BD1HW	4.25
4050737651798	5MC22B61HS	3.21
4050737651811	5MC61B71BS	4.27
4050737651828	5MC61B71BW	4.27
4050737651835	5MC61B71HS	4.27
4050737651842	5MC61B71HW	4.27
4050737651859	5MC61B71QS	4.27
4050737651866	5MC61BD1HS	4.27
4050737651873	5MC61BD1QS	4.27
4050737713021	5MC22BD1QS	3.21
4050737713311	5MC22BD1HS	3.21
4052899016446	0MQ11W77Y3R1	4.39
4052899016453	0MQ11W77Y3S1	4.39
4052899078741	0MB251DL45830	2.38
4052899078758	0MB251DL45840	2.38
4052899093591	ODL11A78C3R	5.58
4052899093614	ODL11A78C3S	5.58
4052899093638	ODX11A7833R	5.59
4052899093676	ODX11A7833S	5.59
4052899901599	ONA74411EB216	12.28
4052899901612	ONA74412FB216	12.28
4052899902589	5DS7000U	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
4052899902596	5DS7000I	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
4052899902602	5DS7000W	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
4052899902619	5DS7000B	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
4052899902626	5DS7102G	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
4052899902633	5DS7103G	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
4052899902640	5DS7102S	5.14, 5.15, 8.22, 8.23, 8.81, 8.82
4052899902657	5DS7103S	5.11, 5.15, 8.21, 8.23, 8.80, 8.82
4052899902664	5DS9545BEE	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
4052899902961	5DS90900	5.9, 5.10, 5.12, 5.13, 5.15, 8.17, 8.18, 8.19, 8.20, 8.23, 8.76, 8.77, 8.78, 8.79, 8.82
4052899903128	OLK91101	4.40
4052899904088	ODP1C67S3	5.67
4052899904095	ODP1C67T3	5.67
4052899904101	ODP1C67P3	5.67
4052899905627	ONA74710GS225	12.24
4052899905634	ONA74710GS215	12.25
4052899908451	OML2517L18835	6.15
4052899908468	OML2417L18835	6.14
4052899908475	OMC8617155827C	6.52
4052899908482	OMC8617155825CF	6.52
4052899908499	OMC7617210827C	6.53
4052899908505	OMC7617315827C	6.53
4052899908512	OMC7617420827C	6.53
4052899908635	OMD5247L54830	6.48
4052899909298	OLJ211710830	7.4
4052899909304	OLJ211710840	7.4
4052899909311	OLJ211717830	7.4
4052899909328	OLJ211717840	7.4
4052899910195	OMD5247L548301	6.49
4052899910560	OLS1277L25840	9.28
4052899910577	OLS1277L50840	9.28
4052899910645	ODP10C62V365	5.68
4052899910652	ODP10C67S365	5.68
4052899910683	OME271715830	6.56

Order no. OSRAM	Order no. Siteco	Page
4052899920934	OLJ72A7L40840	4.73
4052899920941	OLJ72A7L30840	4.73
4052899920958	OLJ71A7L40840	4.73
4052899920965	OLJ71A7L30840	4.73
4052899920972	OLJ73A7L40840	4.72
4052899921962	OLS1277L60840	9.28
4052899927339	ODS11B77V2R	7.46
4052899927346	ODS11B77V3R	7.46
4052899927353	ODS11B77V2S	7.46

# 10.2 Order number index

## Siteco–OSRAM

Order no. Siteco	Order no. OSRAM	Page
ODL11A78C3R	4052899093591	5.58
ODL11A78C3S	4052899093614	5.58
ODP10061S3	4008321999368	5.66
ODP10062U3	4008321999320	5.66
ODP10062V3	4008321999344	5.66
ODP10C62V365	4052899910645	5.68
ODP10C67S365	4052899910652	5.68
ODP1C67P3	4052899904101	5.67
ODP1C67S3	4052899904088	5.67
ODP1C67T3	4052899904095	5.67
ODS11B77V2R	4052899927339	7.46
ODS11B77V2S	4052899927353	7.46
ODS11B77V3R	4052899927346	7.46
ODS11B77V3S	4052899927360	7.46
ODX11A7833R	4052899093638	5.59
ODX11A7833S	4052899093676	5.59
OFA2271AK830	4008321524461	7.36
OFA2271AK840	4008321524485	7.36
OFA2271BD830	4008321710581	7.36
OFA2271BD840	4008321710604	7.36
OFB2171J827	4050300008738	7.42
OFB2171T827	4050300008745	7.42
OF271AB830X	4008321977519	7.38
OF271AL830	4008321975164	7.39
OF271BA830	4008321975195	7.39
OF271BA830X	4008321974501	7.38
OFJ0071A0	4050300148724	7.24
OFJ0071C0	4050300148748	7.24
OFJ0071D0	4050300484679	7.24
OFJ0071E0	4050300993959	7.24
OFJ1071A827	4050300003573	7.24
OFJ1071C827	4050300003634	7.24
OFJ1071D827	4050300003597	7.24
OFJ1071E827	4050300005195	7.24
OFJ1071S827	4050300003542	7.24
OFJ1171A827	4050300346588	7.26
OFJ1171C827	4050300346908	7.26
OFJ1171D827	4050300346700	7.26
OFJ1171E827	4050300346984	7.26
OFJ1171S827	4050300346502	7.26
OFJ1271E827	4008321917539	7.28
OFJ1471A827	4008321908476	7.30
OFJ1471C827	4008321908490	7.30
OFJ1471D827	4008321908483	7.30
OFJ2071A827	4050300003474	7.25
OFJ2071C827	4050300003511	7.25
OFJ2071D827	4050300002163	7.25
OFJ2071E827	4050300986517	7.25
OFJ2071S827	4050300003443	7.25
OFJ2171A827	4050300346625	7.27
OFJ2171C827	4050300346861	7.27
OFJ2171D827	4050300346663	7.27
OFJ2171E827	4050300346946	7.27
OFJ2171S827	4050300346540	7.27
OFJR1271A827	4008321917478	7.28
OFJR1271C827	4008321917515	7.28
OFJR1271D827	4008321917492	7.28
OF2C77T2R	4008321821997	7.32

Order no. Siteco	Order no. OSRAM	Page
OF2C77T2S	4008321822017	7.32
OFN271J827	4050300620145	7.44
OFN271T827	4050300620121	7.44
OFP1111F830	4008321908568	6.72
OFP1111K830	4008321908544	6.72
OFP1111U830	4008321908551	6.72
OFP1111Y830	4008321908537	6.72
OF9091	4008321917355	6.72
OFR2171J0	4008321300911	7.22
OFR2171J827	4008321931399	7.22
OFR2171J840	4008321931511	7.22
OFR2171M0	4008321300959	7.22
OFR2171M840	4008321931559	7.22
OFR2171N0	4008321300973	7.22
OFR2171N827	4008321931450	7.22
OFR2171N840	4008321931573	7.22
OFR2171T0	4008321300935	7.22
OFR2171T827	4008321931412	7.22
OFR2171T840	4008321931535	7.22
OFR217M827	4008321931436	7.22
OF2C77B2R	4008321821959	7.32
OF2C77B2S	4008321821973	7.32
OFZ100CC100	4008321808837	7.33
OFZ100CC36	4008321808830	7.33
OFZ100CG90	4008321808899	7.33
OFZ100PC18	4008321808851	7.33
OFZ100S	4008321808912	7.33
OFZ100YC	4008321808875	7.33
OLF12173ML830	4008321366689	4.76
OLF12173ML840	4008321366672	4.76
OLF12174ML830	4008321366719	4.76
OLF12174ML840	4008321366702	4.76
OLF121D3ML840	4008321380852	4.76
OLF121D4ML840	4008321380883	4.76
OLF12474ML840	4008321380937	4.77
OLJ211710830	4052899909298	7.4
OLJ211710840	4052899909304	7.4
OLJ211717830	4052899909311	7.4
OLJ211717840	4052899909328	7.4
OLJ71A7L30840	4052899920965	4.73
OLJ71A7L40840	4052899920958	4.73
OLJ72A7L30840	4052899920941	4.73
OLJ72A7L40840	4052899920934	4.73
OLJ73A7L40840	4052899920972	4.72
OLK91101	4052899903128	4.40
OLL21572AL830F	4050300774299	6.76
OLL21572CL830F	4050300774329	6.76
OLL21572EL830F	4050300774350	6.76
OLL21P72AL830F	4050300774206	6.77
OLL21P72CL830F	4050300774237	6.77
OLL21P72EL830F	4050300774268	6.77
OLN1061A0	4050300561981	7.14
OLN1061B0	4008321259493	7.10
OLN1061C0	4050300562025	7.14
OLN1061E0	4050300562070	7.14
OLN1061H0	4008321259530	7.10
OLN1061L0	4008321259516	7.10
OLN1061Q0	4008321259554	7.10

Order no. Siteco	Order no. OSRAM	Page
OLN1071AO	4050300562124	7.14
OLN1071BO	4008321257413	7.10
OLN1071CO	4050300528359	7.14
OLN1071EO	4050300528373	7.14
OLN1071HO	4008321257451	7.10
OLN1071LO	4008321257437	7.10
OLN1071QO	4008321259479	7.10
OLN10D1BO	4008321259578	7.10
OLN10D1HO	4008321259615	7.10
OLN10D1LO	4008321259592	7.10
OLN10D1QO	4008321259639	7.10
OLN1161M830	4050300659213	7.11
OLN1161N830	4050300659237	7.11
OLN1161P830	4050300659251	7.11
OLN1161R830	4050300659275	7.11
OLN1171M830V2	4050300513249	7.11
OLN1171N830V2	4050300513263	7.11
OLN1171P830V2	4050300513287	7.11
OLN1171R830V2	4050300513300	7.11
OLN91301	4050300792200	6.74, 6.76, 6.77
OLR50H67Q3V1	4008321982063	5.62
OLR50H67Q7	4008321982049	5.62
OLR50H67W3	4008321982094	5.62
OLR50H67W7	4008321982087	5.62
OLR50H77Q3	4008321664990	5.64
OLS12271F	4008321660008	9.68
OLS12271P	4008321659903	9.68
OLS12272F	4008321660022	9.68
OLS12272P	4008321659989	9.68
OLS1277L25840	4052899910560	9.28
OLS1277L50840	4052899910577	9.28
OLS1277L60840	4052899921962	9.28
OLS5297108840	4050300440880	9.70
OLS5297113840	4050300440903	9.70
OLS60971J	4008321173751	9.76
OLS60971X	4008321173768	9.76
OLS60971Y	4008321173744	9.76
OLS60972J	4008321173799	9.76
OLS60973X	4008321173829	9.76
OLS61501JG	4008321193926	9.76, 9.77
OLS61501XG	4008321193971	9.76, 9.77
OLS61511JG	4008321185402	9.76, 9.77
OLS61511XG	4008321185419	9.76, 9.77
OLS61511YG	4008321185372	9.76, 9.77
OMB2512L45830	4008321867704	2.38
OMB2512L45840	4008321867698	2.38
OMB251DL45830	4052899078741	2.38
OMB251DL45840	4052899078758	2.38
OMC7617210827C	405289908499	6.53
OMC7617315827C	405289908505	6.53
OMC7617420827C	405289908512	6.53
OMC8617155825CF	405289908482	6.52
OMC8617155827C	405289908475	6.52
OMD41551R	4050300012100	6.61
OMD41552R	4050300314921	6.61
OMD41552U	4050300328737	6.60
OMD5247L54830	405289908635	6.48
OMD5247L548301	4052899910195	6.49
OME271715830	4052899910683	6.56
OME6711L35830	4008321962935	7.48
OME6711L35830C	4008321646972	7.48
OME6712335830	4008321962911	7.48
OME6712335830C	4008321646958	7.48
OME6712L088300S	4008321974983	7.50
OME6712L128300L	4008321975041	7.50
OME6712L128300S	4008321975010	7.50
OME6712L208300L	4008321975072	7.50

Order no. Siteco	Order no. OSRAM	Page
OME6717L13830	4008321974921	6.58
OME6717L28830	4008321974952	6.58
OML23L71JL840	4050300535678	6.74
OML23L71KL840	4050300535654	6.74
OML23L71XL840	4050300535692	6.74
OML23L71YL840	4050300535630	6.74
OML2417L18835	4052899908468	6.14
OML2517L18835	4052899908451	6.15
OMQ11W77Y3R1	4052899016446	4.39
OMQ11W77Y3S1	4052899016453	4.39
OMQ12W77J3R1	4008321817280	4.38
OMQ12W77J3S1	4008321817297	4.38
OMQ12W77Y3R1	4008321817167	4.39
OMQ12W77Y3S1	4008321817174	4.39
OMT1717L10830	4008321984159	5.70
OMT5717L45830	4008321587220	5.72
OMT8617L09830	4008321985484	6.46
OMT8617L09830W	4008321990143	6.46
OMT92210MR	4008321980014	5.72
ONA74411EB216	4052899901599	12.28
ONA74412FB216	4052899901612	12.28
ONA74710GS215	4052899905634	12.25
ONA74710GS225	4052899905627	12.24
OSS88711WTS1	4008321992451	1.12
OTXCA0000001	4006584774210	14.5
OTXCA0000003	4006584774272	14.5
OTXCA0000006	4006584774364	14.5
OTXCD0000010	4006584774487	14.6
OTXCD0000012	4006584774548	14.6
OTXCD0000016	4006584774661	14.6
OTXCE0000018	4006584774722	14.7
OTXCE0000019	4006584774753	14.7
OTXCE0000020	4006584774784	14.7
OTXCO0000021	4006584774814	14.8
OTXCO0000022	4006584774845	14.8
OTXCO0000024	4006584774906	14.8
OTXCO0000029	4006584775101	14.8
OTXCO0000030	4006584775132	14.8
OTXCO0000032	4006584775194	14.8
OXA97100XB	4008321854261	12.42, 12.43, 12.44, 12.45
OXA97101BD200	4008321988768	12.45
OXA97101ND200	4008321988751	12.44
OXA97101WD200	4008321988744	12.44
OXA97171BD200	4008321988799	12.43
OXA97171ND200	4008321988782	12.42
OXA97171WD200	4008321988775	12.42
OXA97201BD200	4008321988829	12.45
OXA97201ND200	4008321988812	12.44
OXA97201WD200	4008321988805	12.44
OXA97271BD200	4008321988850	12.43
OXA97271ND200	4008321988843	12.42
OXA97271WD200	4008321988836	12.42
OXA97300XB	4008321850515	12.46
OXA97371NB100	4008321988928	12.46
OXA97371NB200	4008321989000	12.46
OXA97371NE100	4008321988911	12.46
OXA97371NE200	4008321988997	12.46
OXA97371WB100	4008321988904	12.46
OXA97371WB200	4008321988980	12.46
OXA97371WE100	4008321988898	12.46
OXA97371WE200	4008321988973	12.46
OXA97400XB	4008321850522	12.47
OXA97471NB100	4008321989086	12.47
OXA97471NB200	4008321989161	12.47
OXA97471NE100	4008321989079	12.47
OXA97471NE200	4008321989154	12.47
OXA97471WB100	4008321989062	12.47



Order no. Siteco	Order no. OSRAM	Page
OXA97471WB200	4008321989147	12.47
OXA97471WE100	4008321989055	12.47
OXA97471WE200	4008321989130	12.47
2LJ20271V	4050737619132	8.131
2LS22871C	4039806608482	9.42
2LS22871E	4039806608499	9.42
2LS22872E	4039806608543	9.42
2LS22971C	4039806608505	9.42
2LS22971E	4039806608512	9.42
2LS22972E	4039806608567	9.42
2LS32171E	4039806608703	9.31
2LS32172E	4039806608710	9.31
2LS32261E	4039806609755	9.30
2LS32262E	4039806616371	9.30
2LS32271A	4039806608581	9.30
2LS32271C	4039806608598	9.30
2LS32271E	4039806608604	9.30
2LS32271EA04	4039806614957	9.32
2LS32272C	4039806608611	9.30
2LS32272E	4039806608628	9.30
2LS32272EA04	4039806614964	9.32
2LS322D1E	4039806512970	9.30
2LS322D2E	4039806514660	9.30
2LS32371E	4039806608680	9.31
2LS32372E	4039806608697	9.31
2LS32911AT5	4039806626660	9.82
2LS32911CT5	4039806626677	9.82
2LS32911CT6	4039806608833	9.82
2LS32911CT7	4039806608819	9.82
2LS32911ET1	4039806608383	9.80
2LS32911ET5	4039806626684	9.82
2LS32911ET6	4039806608840	9.82
2LS32911ET7	4039806608826	9.82
2LS32912CT6	4039806608857	9.82
2LS32912ET0	4039806609274	9.80
2LS32912ET1	4039806608390	9.80
2LS32912ET5	4039806626707	9.82
2LS32912ET6	4039806608864	9.82
2LS32961EP1	4039806536808	9.40
2LS32962EP1	4039806536815	9.40
2LS32971A	4039806608253	9.40
2LS32971C	4039806608260	9.40
2LS32971CP1	4039806608314	9.40
2LS32971CT1	4039806617354	9.80
2LS32971CT55	4039806608796	9.82
2LS32971E	4039806608277	9.40
2LS32971EA01	4039806614971	9.44
2LS32971EA04	4039806614988	9.43
2LS32971EA05	4039806614995	9.43
2LS32971EP1	4039806608321	9.40
2LS32971ES4	4039806609311	9.41
2LS32971ET1	4039806617361	9.80
2LS32971ET55	4039806608802	9.82
2LS32972C	4039806608284	9.40
2LS32972CP1	4039806608338	9.40
2LS32972CT1	4039806617378	9.80
2LS32972E	4039806608291	9.40
2LS32972EA01	4039806615008	9.44
2LS32972EA04	4039806615015	9.43
2LS32972EA05	40398066463401	9.43
2LS32972EP1	4039806608345	9.40
2LS32972ES4	4039806609328	9.41
2LS32972ET1	4039806617385	9.80
2LS51271TAN	4050737599120	9.7, 9.11, 9.14, 9.16
2LS51271TAN003	4050737599144	9.7
2LS51271TANR	4050737599168	9.10
2LS51271TAW	4050737599182	9.8, 9.12, 9.14, 9.16

Order no. Siteco	Order no. OSRAM	Page
2LS51271TAW003	4050737599502	9.8
2LS51271TAWR	4050737599533	9.10
2LS512D1TCN	4050737599540	9.7, 9.11, 9.14, 9.16
2LS512D1TCN005	4050737599564	9.7
2LS512D1TCNR	4050737599588	9.10
2LS512D1TCW	4050737599601	9.8, 9.12, 9.14, 9.16
2LS512D1TCW005	4050737599625	9.8
2LS512D1TCWR	4050737599656	9.10
2LS52271TAN	4050737599663	9.7, 9.11, 9.14, 9.16
2LS52271TAN003	4050737599687	9.7
2LS52271TANR	4050737599700	9.10
2LS52271TAW	4050737599724	9.8, 9.12, 9.14, 9.16
2LS52271TAW003	4050737599748	9.8
2LS52271TAWR	4050737599779	9.10
2LS522D1TCN	4050737599786	9.7, 9.11, 9.14, 9.16
2LS522D1TCN005	4050737599809	9.7
2LS522D1TCNR	4050737599823	9.10
2LS522D1TCW	4050737599847	9.8, 9.12, 9.14, 9.16
2LS522D1TCW005	4050737599861	9.8
2LS522D1TCWR	4050737599885	9.10
5AA162506N	4050737463827	12.16
5AA162506W	4050737463841	12.16
5AA163506N	4050737465524	12.16
5AA163506W	4050737463865	12.16
5AA164506N	4050737463889	12.17
5AA164506W	4050737463902	12.17
5AA172506N	4050737463926	12.16
5AA172506W	4050737463940	12.16
5AA173506N	4050737463964	12.16
5AA173506W	4050737463988	12.16
5AA174506N	4050737464008	12.17
5AA174506W	4050737464022	12.17
5AA262506N	4050737464046	12.21
5AA262506W	4050737464060	12.21
5AA262516N	4050737464084	12.20
5AA262516W	4050737464107	12.20
5AA263506N	4050737464121	12.21
5AA263506W	4050737464145	12.21
5AA263516N	4050737464169	12.20
5AA263516W	4050737464183	12.20
5AA264506N	4050737464206	12.22
5AA264506W	4050737464220	12.22
5AA264516N	4050737464244	12.22
5AA264516W	4050737464268	12.22
5AA272506N	4050737464282	12.21
5AA272506W	4050737464305	12.21
5AA272516N	4050737464329	12.20
5AA272516W	4050737464343	12.20
5AA273506N	4050737464367	12.21
5AA273506W	4050737464701	12.21
5AA273516N	4050737464381	12.20
5AA273516W	4050737464404	12.20
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5AA322503N	4050737462332	12.30
5AA322503NE	4050737462356	12.31
5AA322503W	4050737462370	12.30
5AA322503WE	4050737462394	12.31
5AA35601X	4039806848956	12.30, 12.31, 12.32
5AA35603X	4039806848970	12.32
5AA35604X	4039806848994	12.32
5AA35605X	4039806849014	12.32
5AA35606X	4039806849038	12.32
5AA35607X	4039806849052	12.32
5AA35608X	4039806849076	12.32

Order no. Siteco	Order no. OSRAM	Page
5AA35609X	4039806849090	12.32
5AA35610X	4039806849113	12.32
5AA40006X	4039806849151	12.64
5AA40007X	4039806849175	12.64
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5AA411512W	4050737461854	12.60
5AA411522N	4050737461878	12.60
5AA411522W	4050737461892	12.60
5AA421512N	4050737461915	12.61
5AA421512W	4050737461939	12.61
5AA421522N	4050737461953	12.61
5AA421522W	4050737461977	12.61
5AA431512N	4050737461991	12.62
5AA431512W	4050737462011	12.62
5AA431522N	4050737462035	12.62
5AA431522W	4050737462059	12.62
5AA441512N	4050737462073	12.63
5AA441512W	4050737462097	12.63
5AA441522N	4050737462110	12.63
5AA441522W	4050737462134	12.63
5AA510501N	4050737462530	12.12
5AA510501W	4050737462516	12.12
5AA510511N	4050737462578	12.12
5AA510511W	4050737462554	12.12
5AA520501N	4050737462653	12.13
5AA520501W	4050737462639	12.13
5AA520511N	4050737462691	12.13
5AA520511W	4050737462677	12.13
5AA520521N	4050737462615	12.13
5AA520521W	4050737462592	12.13
5AA530503N	4050737462776	12.14
5AA530503W	4050737462752	12.14
5AA530513N	4050737462813	12.14
5AA530513W	4050737462790	12.14
5AA530523N	4050737462738	12.14
5AA530523W	4050737462714	12.14
5AA610501N	4050737461472	12.8
5AA610501W	4050737462431	12.8
5AA620511N	4050737462318	12.9
5AA620511W	4050737461496	12.9
5DC11A77VL333C	4050737029399	5.31
5DC11A77VL333E	4050737030111	5.31
5DC11A77VL339C	4050737585345	5.32
5DC11A77VL339E	4050737585369	5.32
5DC11AD7VL353C	4050737030753	5.31
5DC11AD7VL353E	4050737030777	5.31
5DC11AD7VL359C	4050737585383	5.32
5DC11AD7VL359E	4050737585406	5.32
5DC11B77VL333C	4050737030135	5.33
5DC11B77VL333E	4050737033242	5.33
5DC11BD7VL353C	4050737030166	5.33
5DC11BD7VL353E	4050737030173	5.33
5DC11J77VL335H	4050737045108	5.35
5DC11J77VL335K	4050737049632	5.35
5DC11JD7VL355H	4050737045139	5.35
5DC11JD7VL355K	4050737045146	5.35
5DC11K77VL333C	4050737029702	5.29
5DC11K77VL333E	4050737029719	5.29
5DC11K77VL339C	4050737587875	5.30
5DC11K77VL339E	4050737587899	5.30
5DC11KD7VL353C	4050737030210	5.29
5DC11KD7VL353E	4050737030241	5.29
5DC11KD7VL359C	4050737587929	5.30
5DC11KD7VL359E	4050737587936	5.30
5DC12K77VL333C	4050737054407	5.34
5DC12K77VL333E	4050737054421	5.34
5DC12KD7VL353C	4050737054476	5.34

Order no. Siteco	Order no. OSRAM	Page
5DC12KD7VL353E	4050737054483	5.34
5DCA001M	4050737544199	5.55
5DCA001S	4050737544212	5.55
5DCA112C1	4050737542942	5.53
5DCA112C3	4050737542966	5.53
5DCA112R1	4050737542980	5.54
5DCA112R3	4050737543000	5.54
5DCA2100	4050737059808	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.45
5DCA230B	4050737061726	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.45
5DCA230S	4050737061771	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.45
5DCA230W	4050737062006	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.45
5DCA34B0W	4050737051581	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.46
5DCA34S0W	4050737051598	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.46
5DCA350SW	4050737051604	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.46
5DCA4100	4050737051611	5.29, 5.31, 5.33, 5.34, 5.35, 5.47
5DCA4100W	4050737051628	5.29, 5.31, 5.33, 5.34, 5.35, 5.47
5DCA410S	4050737051635	5.29, 5.31, 5.33, 5.34, 5.47
5DCA410SW	4050737051642	5.29, 5.31, 5.33, 5.34, 5.47
5DCA41SS	4050737051659	5.29, 5.31, 5.33, 5.34, 5.47
5DCA41SSW	4050737051666	5.29, 5.31, 5.33, 5.34, 5.47
5DCA7100	4050737051673	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.48
5DCA7300	4050737051680	5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.49
5DCA73001	4050737062334	5.49
5DCA73002	4050737062358	5.49
5DN11B77VL336C	4050737032856	5.20, 5.39
5DN11B77VL336E	4050737032870	5.20, 5.39
5DN11B77VL337C	4050737049717	5.40
5DN11B77VL337E	4050737041001	5.40
5DN11BD7VL356C	4050737032894	5.20, 5.39
5DN11BD7VL356E	4050737032924	5.20, 5.39
5DN11BD7VL357C	4050737049724	5.40
5DN11BD7VL357E	4050737041025	5.40
5DN11K77VL336C	4050737029726	5.19, 5.37
5DN11K77VL336E	4050737029733	5.19, 5.37
5DN11K77VL339C	4050737588032	5.38
5DN11K77VL339E	4050737588063	5.38
5DN11K78VL3W3C	4050737032931	5.18, 5.36
5DN11K78VL3W3E	4050737032955	5.18, 5.36
5DN11KD7VL356C	4050737030302	5.19, 5.37
5DN11KD7VL356E	4050737030319	5.19, 5.37
5DN11KD7VL359C	4050737588070	5.38
5DN11KD7VL359E	4050737588094	5.38
5DN12B77VL336C	4050737054537	5.23, 5.43
5DN12B77VL336E	4050737054544	5.23, 5.43
5DN12B77VL337C	4050737054568	5.44
5DN12B77VL337E	4050737054582	5.44
5DN12BD7VL356C	4050737054612	5.23, 5.43
5DN12BD7VL356E	4050737054629	5.23, 5.43
5DN12BD7VL357C	4050737054643	5.44
5DN12BD7VL357E	4050737054667	5.44
5DN12K77VL336C	4050737054698	5.22, 5.42
5DN12K77VL336E	4050737054704	5.22, 5.42
5DN12K78VL3W3C	4050737054773	5.21, 5.41
5DN12K78VL3W3E	4050737054780	5.21, 5.41
5DN12KD7VL356C	4050737054803	5.22, 5.42
5DN12KD7VL356E	4050737054827	5.22, 5.42
5DNA2100	4050737059839	5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45
5DNA220W	4050737066608	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45

Order no. Siteco	Order no. OSRAM	Page	Order no. Siteco	Order no. OSRAM	Page
5DNA2300	4050737066622	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45	5DS32B71MD1R	4006584738564	5.14
5DNA230B	4050737061832	5.25, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45	5DS32B71MD2R	4006584739486	5.14
5DNA230S	4050737061849	5.25, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45	5DS32B71MD3R	4006584738540	5.14
5DNA230W	4050737061894	5.25, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45	5DS32B77VL1R8C	4006584740987	5.12
5DNA34B0W	4050737051697	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.46	5DS32B77VL1R8E	4006584740086	5.12
5DNA34S0W	4050737051703	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.46	5DS32B77VL1R8H	4006584738724	5.12
5DNA350SW	4050737051710	5.24, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.46	5DS32B77VL1R8K	4006584740284	5.12
5DNA4100	4050737051727	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47	5DS32B77VL1R9C	4006584747573	5.13
5DNA4100W	4050737051734	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47	5DS32B77VL1R9E	4006584747771	5.13
5DNA410S	4050737051741	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47	5DS32B77VL1R9H	4006584747979	5.13
5DNA410SW	4050737051758	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47	5DS32B77VL1R9K	4006584748174	5.13
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5DNA41SSW	4050737051772	5.25, 5.36, 5.37, 5.39, 5.41, 5.42, 5.43, 5.47	5DS32B77VL2R8E	4006584740109	5.12
5DNA7100	4050737051789	5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.48	5DS32B77VL2R8H	4006584739561	5.12
5DNA7300	4050737051796	5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.49	5DS32B77VL2R8K	4006584740307	5.12
5DNA73001	4050737062372	5.49	5DS32B77VL2R9C	4006584747658	5.13
5DNA73002	4050737062396	5.49	5DS32B77VL2R9E	4006584747795	5.13
5DNA7501	4050737057163	5.48	5DS32B77VL2R9H	4006584748051	5.13
5DNA7701H	4050737606156	5.26	5DS32B77VL2R9K	4006584748198	5.13
5DNA7701HS	4050737606170	5.26	5DS32B77VL3R8C	4006584740963	5.12
5DNA7701S	4050737535241	5.18, 5.19, 5.20, 5.21, 5.22, 5.23	5DS32B77VL3R8E	4006584740062	5.12
5DNA7701W	4050737535265	5.18, 5.19, 5.20, 5.21, 5.22, 5.23	5DS32B77VL3R8H	4006584738700	5.12
5DS32A71KD1R	4006584740543	5.11	5DS32B77VL3R8K	4006584740260	5.12
5DS32A71KD2R	4006584739097	5.11	5DS32B77VL3R9C	4006584747559	5.13
5DS32A71KD3R	4006584740581	5.11	5DS32B77VL3R9E	4006584747818	5.13
5DS32A71MD1R	4006584738649	5.11	5DS32B77VL3R9H	4006584747955	5.13
5DS32A71MD2R	4006584739462	5.11	5DS32B77VL3R9K	4006584748211	5.13
5DS32A71MD3R	4006584738625	5.11	5DS7000B	4052899902619	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
5DS32A77VL1R8C	4006584741045	5.9	5DS7000I	4052899902596	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
5DS32A77VL1R8E	4006584740185	5.9	5DS7000U	4052899902589	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
5DS32A77VL1R8H	4006584738786	5.9	5DS7000W	4052899902602	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
5DS32A77VL1R8K	4006584740383	5.9	5DS7102G	4052899902626	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
5DS32A77VL1R9C	4006584747498	5.10	5DS7102S	4052899902640	5.14, 5.15, 8.22, 8.23, 8.81, 8.82
5DS32A77VL1R9E	4006584747672	5.10	5DS7103G	4052899902633	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
5DS32A77VL1R9H	4006584747894	5.10	5DS7103S	4052899902657	5.11, 5.15, 8.21, 8.23, 8.80, 8.82
5DS32A77VL1R9K	4006584748075	5.10	5DS90900	4052899902961	5.9, 5.10, 5.12, 5.13, 5.15, 8.17, 8.18, 8.19, 8.20, 8.23, 8.76, 8.77, 8.78, 8.79, 8.82
5DS32A77VL2R8C	4006584739509	5.9	5DS9545BEE	4052899902664	5.11, 5.14, 5.15, 8.21, 8.22, 8.23, 8.80, 8.81, 8.82
5DS32A77VL2R8E	4006584740208	5.9	5EA6TEF01	4039806998927	12.67, 12.68, 12.69, 12.70, 12.73, 12.74, 12.75, 12.76, 12.77, 12.78, 12.82
5DS32A77VL2R8H	4006584739547	5.9	5EA6Y00L05	4050737028866	12.67, 12.68, 12.69, 12.70, 12.82
5DS32A77VL2R8K	4006584740406	5.9	5EA6Y00L06	4050737028897	12.73, 12.74, 12.75, 12.76, 12.77, 12.78, 12.82
5DS32A77VL2R9C	4006584747634	5.10	5LA52822KS28	4039806280367	12.71
5DS32A77VL2R9E	4006584747696	5.10	5LA52822KS38	4039806280381	12.71
5DS32A77VL2R9H	4006584748037	5.10	5LA52822KS58	4039806280404	12.72
5DS32A77VL2R9K	4006584748099	5.10	5LA52822KS68	4039806280428	12.72
5DS32A77VL3R8C	4006584741021	5.9	5LA52922KS28	4039806280565	12.79
5DS32A77VL3R8E	4006584740161	5.9	5LA52922KS28D	4039806280572	12.81
5DS32A77VL3R8H	4006584738762	5.9	5LA52922KS38	4039806280596	12.79
5DS32A77VL3R8K	4006584740369	5.9	5LA75771TS0108	4039806626158	10.61
5DS32A77VL3R9C	4006584747474	5.10	5LA75771TS2108	4039806626578	10.58
5DS32A77VL3R9E	4006584747719	5.10	5LA90011LA100	4039806246349	12.54
5DS32A77VL3R9H	4006584747870	5.10	5LA91011BW300	4039806207081	12.50
5DS32A77VL3R9K	4006584748112	5.10	5LA91011FA300	4039806206886	12.50
5DS32B71KD1R	4006584740529	5.14	5LA91011LA300	4039806206923	12.50
5DS32B71KD2R	4006584739448	5.14	5LA91111FA308	4039806206985	12.50
5DS32B71KD3R	4006584740505	5.14	5LA91111FB308	4039806207005	12.50
			5LA91111LA308	4039806207029	12.50
			5LA91211LA308	4039806207166	12.50

Order no. Siteco	Order no. OSRAM	Page
5LA96011FA300	4039806207623	12.51
5LA96011M0300	4039806207647	12.51
5LA96211FA300	4039806418777	12.51
5LE14501RR	4039806138484	8.152
5LE14501UR	4039806138460	8.152
5LE14502RR	4039806138521	8.152
5LE14502UR	4039806138507	8.152
5LE14601RR	4039806137876	8.152
5LE14601RR1	4039806203373	8.141, 8.142, 8.154
5LE14601RR2	4039806203410	8.141, 8.142, 8.154
5LE14601UR	4039806137852	8.152
5LE14601UR1	4039806203359	8.141, 8.142, 8.154
5LE14601UR2	4039806203397	8.141, 8.142, 8.154
5LE17501ER	4039806509451	8.172, 8.173
5LE78012CR	4039806094537	8.147
5LE78012ER	4039806094551	8.147, 8.179, 8.180
5LE78032EGO	4039806094735	8.147, 8.179, 8.181
5LE78512ER	4039806095275	8.146, 8.179, 8.180
5LE98011RR	4039806110237	8.194
5LE98011UR	4039806132628	8.194
5LE98111RA	4039806232724	8.193
5LE98111RG	4039806110138	8.195
5LE98111RH	4039806184726	8.195
5LE98111UA	4039806231796	8.193
5LE98111UG	4039806110114	8.195
5LE98111UH	4039806184702	8.195
5LE98211RR2	4039806231819	8.193
5LE98211UR2	4039806231833	8.193
5LE98311RR	4039806138705	8.194
5LE98311UR	4039806094759	8.194
5LE98411RR2	4039806395979	8.193
5LE98411UR2	4039806235022	8.193
5LF11461HN	4050737052557	4.84
5LF11461QN	4050737052571	4.84
5LF11462HN	4050737052595	4.84
5LF11462QN	4050737057422	4.84
5LF11462WN	4050737052816	4.84
5LF11463BN	4050737044415	4.85
5LF11464BN	4050737044439	4.85
5LF11471HN	4050737052854	4.84
5LF11471QN	4050737052878	4.84
5LF11472HN	4050737052892	4.84
5LF11472WN	4050737052922	4.84
5LF11473MN	4050737038100	4.85
5LF11473YN	4050737038124	4.85
5LF11474MN	4050737038148	4.85
5LF11474YN	4050737038162	4.85
5LF114D1HN	4050737054001	4.84
5LF114D1QN	4050737054025	4.84
5LF114D2HN	4050737054049	4.84
5LF114D2QN	4050737057446	4.84
5LF114D2WN	4050737054070	4.84
5LF114D3BN	4050737041049	4.85
5LF114D4BN	4050737041070	4.85
5LF11661HN	4050737052953	4.86
5LF11661QN	4050737052977	4.86
5LF11662HN	4050737052991	4.86
5LF11662QN	4050737057460	4.86
5LF11662WN	4050737053028	4.86
5LF11663BN	4050737044675	4.87
5LF11664BN	4050737044699	4.87
5LF11671HN	4050737053066	4.86
5LF11671QN	4050737053080	4.86
5LF11672HN	4050737053110	4.86
5LF11672WN	4050737053127	4.86
5LF11673MN	4050737038186	4.87
5LF11673YN	4050737038216	4.87

Order no. Siteco	Order no. OSRAM	Page
5LF11674MN	4050737038223	4.87
5LF11674YN	4050737038247	4.87
5LF116D1HN	4050737054100	4.86
5LF116D1QN	4050737054896	4.86
5LF116D2HN	4050737054926	4.86
5LF116D2QN	4050737057491	4.86
5LF116D2WN	4050737054933	4.86
5LF116D3BN	4050737041087	4.87
5LF116D4BN	4050737041100	4.87
5LF11B61HN	4050737053165	4.82
5LF11B61QN	4050737053196	4.82
5LF11B62HN	4050737053202	4.82
5LF11B62QN	4050737057507	4.82
5LF11B62WN	4050737053226	4.82
5LF11B63BN	4050737044460	4.83
5LF11B64BN	4050737044477	4.83
5LF11B71HN	4050737053264	4.82
5LF11B71QN	4050737053295	4.82
5LF11B72HN	4050737053301	4.82
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Order no. Siteco	Order no. OSRAM	Page
5LF12B71HN	4050737053820	4.82
5LF12B72HN	4050737053875	4.82
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5LF287D3Q	4050737020402	10.27
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5LF41672R	4039806267191	4.66
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5LF41672X	4039806267214	4.66
5LF41672XW	4039806415752	4.67
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5LF416D1Q	4050737003511	4.66
5LF416D1QW	4050737003528	4.67
5LF416D2HW	4050737004006	4.67
5LF41B61H	4050737008363	4.64
5LF41B61HW	4050737003597	4.65
5LF41B61LW	4050737003603	4.65
5LF41B61Q	4050737003627	4.64
5LF41B61QW	4050737003641	4.65

Order no. Siteco	Order no. OSRAM	Page
5LF41B62H	4050737004129	4.64
5LF41B62HW	4050737003689	4.65
5LF41B62W	4050737003702	4.64
5LF41B62WW	4039806849823	4.65
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5LF41B71JW	4039806414106	4.65
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5LF41B71PW	4039806414120	4.65
5LF41B71R	4039806267290	4.64
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5LF41B71XW	4039806415882	4.65
5LF41B72F	4039806267337	4.64
5LF41B72FW	4039806415899	4.65
5LF41B72J	4039806267351	4.64
5LF41B72JW	4039806414144	4.65
5LF41B72P	4039806267375	4.64
5LF41B72PW	4039806414168	4.65
5LF41B72R	4039806267399	4.64
5LF41B72RW	4039806415905	4.65
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5LF41B72XW	4039806415912	4.65
5LF41BD1H	4050737003757	4.64
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5LF41BD1Q	4050737003788	4.64
5LF41BD1QW	4050737004150	4.65
5LF41BD2HW	4050737019291	4.65
5LF41BD2Q	4050737004167	4.64
5LF41BD2QW	4050737004181	4.65
5LF41W61H	4050737003801	4.68
5LF41W61HW	4050737003849	4.69
5LF41W61W	4039806889911	4.68
5LF41W62W	4050737004266	4.68
5LF41W62WW	4050737004280	4.69
5LF41W71F	4039806429001	4.68
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5LF41W71R	4039806429032	4.68
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5LF41W72F	4039806429100	4.68
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5LF41WD1H	4050737004310	4.68
5LF41WD1HW	4050737004327	4.69
5LF41WD1W	4050737049922	4.68
5LF41WD2W	4050737004419	4.68
5LF41WD2WW	4050737016207	4.69
5LF51661HW	4050737005881	3.63
5LF51661QW	4039806910202	3.63
5LF51662HW	4050737005973	3.63
5LF51662WW	4050737004495	3.63
5LF51671HW	4039806580405	3.63
5LF51671QW	4039806572226	3.63
5LF51672HW	4039806580429	3.63
5LF51672WW	4039806591425	3.63
5LF516D1HW	4039806871312	3.63
5LF516D1QW	4050737006048	3.63
5LF516D2HW	4050737006062	3.63

Order no. Siteco	Order no. OSRAM	Page
5LF516D2WW	4050737006086	3.63
5LF51961HW	4050737006192	3.80
5LF51961QS	4050737006222	3.80
5LF51961QW	4050737006253	3.80
5LF51971HW	4039806862907	3.80
5LF51971QW	4039806579256	3.80
5LF519D1HS	4050737006260	3.80
5LF519D1HW	4050737006284	3.80
5LF519D1QS	4050737006321	3.80
5LF519D1QW	4050737006352	3.80
5LF519D1ZS	4050737530246	3.78
5LF519D1ZS002	4050737530260	3.78
5LF519D1ZW	4050737514024	3.78
5LF519D1ZW002	4050737530284	3.78
5LF51B61HW	4050737006420	3.62
5LF51B61QW	4039806854445	3.62
5LF51B62HW	4050737006543	3.62
5LF51B62QW	4050737006598	3.62
5LF51B62WW	4050737006659	3.62
5LF51B71HW	4039806580443	3.62
5LF51B71QW	4039806580467	3.62
5LF51B72HW	4039806580481	3.62
5LF51B72QW	4039806581167	3.62
5LF51B72WW	4039806591449	3.62
5LF51BD1HW	4050737006666	3.62
5LF51BD1QW	4039806910417	3.62
5LF51BD2HW	4050737006710	3.62
5LF51BD2QW	4050737006727	3.62
5LF51BD2WW	4039806851796	3.62
5LF53B61HW	4050737007144	2.50
5LF53B61QW	4050737007205	2.50
5LF53B62HW	4050737007267	2.50
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5LF53BD2WW	4050737007472	2.50
5LF90001L	4039806139948	2.20, 2.22, 2.26, 2.28, 2.50, 2.53, 3.42
5LF90002L	4039806198839	2.20, 2.22, 2.26, 2.28, 2.50, 2.53, 3.42, 3.59
5LF90003L	4039806507693	2.14, 2.17, 2.30, 2.32, 2.35, 3.42, 3.58
5LF90005L	4039806201935	2.20, 2.22, 2.26, 2.28, 2.50, 2.53, 3.42, 3.59
5LF90005XC	4039806443199	4.18, 4.22
5LF90006L	4039806507709	2.14, 2.17, 2.35, 3.42, 3.58
5LF90011	4039806260499	4.70
5LF90012	4039806260512	4.70
5LF90014XC	4039806133953	4.18, 4.22, 4.61, 4.88
5LF90021	4039806260536	4.70
5LF90022	4039806260550	4.70
5LF90024XC	4039806137593	4.18, 4.22, 4.61, 4.88
5LF9011	4039806411983	4.70
5LF90110XC	4039806134035	4.88
5LF9012	4039806412003	4.70
5LF9084	4039806141675	10.29
5LF90910XV	4039806141651	10.29
5LF90920X	4039806141699	10.29
5LF91301	4039806119421	2.21, 2.50, 2.52
5LF91301A	4039806113535	2.21, 2.52
5LF91302	4039806119469	2.20, 2.21
5LF913020D	4039806255105	3.58
5LF91302A	4039806113498	2.20, 2.21

Order no. Siteco	Order no. OSRAM	Page
5LF91302AD	4039806408679	3.58
5LF91302BD	4039806418531	2.46, 2.47
5LF91305B	4039806137470	2.50, 2.52
5LF91305BA	4039806137517	2.52
5LF91306B	4039806137494	2.50, 2.52
5LF91306BA	4039806137531	2.52
5LF91311	4039806119445	2.21, 2.50, 2.52
5LF91311A	4039806113559	2.21, 2.52
5LF91312	4039806119483	2.20, 2.21
5LF91312A	4039806113511	2.20, 2.21
5LF91401	4039806101051	2.50, 2.52
5LF91401A	4039806108036	2.52
5LF91411	4039806101099	2.50, 2.52
5LF91411A	4039806108050	2.52
5LF915010D	4039806255136	3.59
5LF91501AD	4039806407740	3.59
5LF91502BD	4039806418555	2.46, 2.47
5LJ10001AB	4039806781581	7.18, 7.19
5LJ10001CB	4039806781543	7.6, 7.7, 7.18, 7.19
5LJ10001EB	4039806781550	7.6, 7.7, 7.18, 7.19
5LJ10001UB	4039806781680	7.16, 7.17, 7.19
5LJ10001XB	4039806781697	7.16, 7.17, 7.19
5LJ10002CB	4039806781567	7.6, 7.7, 7.18, 7.19
5LJ10002EB	4039806781574	7.6, 7.7, 7.18, 7.19
5LJ10002UB	4039806781727	7.16, 7.17, 7.19
5LJ10010XC	4039806616159	7.8, 7.20
5LJ10061A	4039806612922	7.18
5LJ10061C	4039806607454	7.18
5LJ10061E	4039806607492	7.18
5LJ10061H	4039806905307	7.16
5LJ10061Q	4039806905321	7.16
5LJ10062C	4039806614797	7.18
5LJ10062E	4039806614803	7.18
5LJ10062H	4039806912114	7.16
5LJ10062Q	4039806912138	7.16
5LJ10071A	4039806607423	7.18
5LJ10071C	4039806607461	7.18
5LJ10071E	4039806607508	7.18
5LJ10071F	4039806616449	7.17
5LJ10071H	4039806520111	7.16
5LJ10071M	4039806611758	7.17
5LJ10071P	4039806607362	7.17
5LJ10071Q	4039806520128	7.16
5LJ10071R	4039806607805	7.17
5LJ10071U	4039806607379	7.17
5LJ10071X	4039806611857	7.17
5LJ10071Y	4039806616432	7.17
5LJ10072C	4039806607539	7.18
5LJ10072E	4039806607560	7.18
5LJ10072H	4039806912152	7.16
5LJ10072P	4039806607386	7.17
5LJ10072Q	4039806887917	7.16
5LJ10072R	4039806609052	7.17
5LJ10072U	4039806607393	7.17
5LJ10072Y	4039806461957	7.17
5LJ100D1C	4039806462039	7.18
5LJ100D1E	4039806462053	7.18
5LJ100D1H	4039806904225	7.16
5LJ100D1Q	4039806571465	7.16
5LJ100D2H	4039806907691	7.16
5LJ100D2Q	4039806907714	7.16
5LJ100L1YK	4050737093062	7.6
5LJ100L1YL	4050737093079	7.6
5LJ100L2YK	4050737093086	7.6
5LJ100L2YL	4050737093093	7.6
5LJ10101AB	4039806781826	7.18, 7.19
5LJ10101CB	4039806781833	7.6, 7.7, 7.18, 7.19



Order no. Siteco	Order no. OSRAM	Page
5LJ10101EB	4039806781840	7.6, 7.7, 7.18, 7.19
5LJ10101UB	4039806781857	7.16, 7.17, 7.19
5LJ10101XB	4039806781864	7.16, 7.17, 7.19
5LJ14000XC	4039806096197	8.145, 8.145
5LJ14001CS	4039806096227	8.146
5LJ14001ES	4039806096241	8.146, 8.179, 8.181
5LJ14001ES1	4039806211712	8.137
5LJ14002XD	4039806096289	8.148, 8.179, 8.182
5LJ14011CS	4039806096326	8.146
5LJ14011ES	4039806096340	8.146, 8.179, 8.181
5LJ14011ES1	4039806211736	8.137
5LJ14012CBO	4039806096388	8.144
5LJ14012EBO	4039806096418	8.144, 8.179
5LJ14012XD	4039806174956	8.144, 8.148, 8.179, 8.182
5LJ14020XD	4039806174987	8.144, 8.148, 8.179, 8.182
5LJ14021ES1	4039806211750	8.137
5LJ14022CBO	4039806096456	8.144
5LJ14022EBO	4039806096470	8.144, 8.179
5LJ14051EBO	4039806096579	8.138, 8.176
5LJ14052XD	4039806175014	8.138, 8.139, 8.176, 8.177
5LJ14055XD	4039806175038	8.138, 8.139, 8.176, 8.177
5LJ14510XD	4039806193964	8.150, 8.151, 8.153
5LJ14511R	4039806139009	8.150
5LJ14511U	4039806138941	8.150
5LJ14511XD	4039806193995	8.65, 8.66, 8.150, 8.151, 8.153
5LJ14511XDS	4039806193919	8.65, 8.66
5LJ14512U	4039806137814	8.151
5LJ14512X	4039806137838	8.151
5LJ14512XD	4039806194022	8.66, 8.152
5LJ14521R	4039806139023	8.150
5LJ14521U	4039806138965	8.150
5LJ14531R	4039806139047	8.150
5LJ14531U	4039806138989	8.150
5LJ14912R	4039806201959	8.141, 8.154
5LJ14912U	4039806197252	8.141, 8.154
5LJ160001	4050737094304	10.9, 10.10, 10.11, 10.12, 10.13, 10.17, 10.18, 10.19, 10.20, 10.21, 10.22
5LJ160002	4050737093512	10.17, 10.18, 10.19, 10.20, 10.21, 10.22
5LJ160003	4050737091662	10.17, 10.18, 10.19, 10.20, 10.21, 10.22
5LJ160004	4050737094724	10.14, 10.23
5LJ16164Q	4050737095905	10.17
5LJ16164QM	4050737095929	8.89
5LJ16174Q	4050737095301	10.17
5LJ16174QM	4050737095943	8.89
5LJ161D4Q	4050737095349	10.17
5LJ161D4QM	4050737095363	8.89
5LJ16264Q	4050737095967	10.18
5LJ16264QM	4050737095981	8.90
5LJ16274Q	4050737095394	10.18
5LJ16274QM	4050737095424	8.90
5LJ162D4Q	4050737095448	10.18
5LJ162D4QM	4050737095462	8.90
5LJ17031ES1	4039806509505	8.143, 8.178
5LJ23101AW	4039806439116	6.85
5LJ23101CW	4039806439130	6.85
5LJ23101EW	4039806439154	6.85
5LJ23102AW	4039806439178	6.85
5LJ23102CW	4039806439192	6.85
5LJ23102EW	4039806439215	6.85
5LJ23104AW	4039806439239	6.85
5LJ23201AW	4039806439253	6.85
5LJ23201CW	4039806439277	6.85
5LJ23201EW	4039806439291	6.85
5LJ23202AW	4039806439314	6.85
5LJ23202CW	4039806439338	6.85

Order no. Siteco	Order no. OSRAM	Page
5LJ23202EW	4039806439352	6.85
5LJ23204AW	4039806439376	6.85
5LJ23471A	4039806604613	6.83
5LJ23471C	4039806605085	6.83
5LJ23471E	4039806605146	6.83
5LJ23472A	4039806606846	6.83
5LJ23472C	4039806605115	6.83
5LJ23472E	4039806605177	6.83
5LJ23474A	4039806605054	6.83
5LJ23571A	4039806606822	6.82
5LJ23571C	4039806605207	6.82
5LJ23571CX1	4039806605566	6.82
5LJ23571CX3	4039806605603	6.80
5LJ23571E	4039806605269	6.82
5LJ23571EX1	4039806605580	6.82
5LJ23571EX3	4039806605627	6.80
5LJ23571EX4	4039806605665	6.81
5LJ23572AX1	4039806606853	6.82
5LJ23572CX1	4039806605238	6.82
5LJ23572CX3	4039806605689	6.80
5LJ23572EX1	4039806605290	6.82
5LJ23572EX3	4039806605702	6.80
5LJ23574A	4039806605320	6.82
5LJ23871C	4039806604651	6.83
5LJ23871E	4039806604729	6.83
5LJ23872C	4039806604699	6.83
5LJ23872E	4039806604767	6.83
5LJ23971C	4039806616128	6.82
5LJ23971E	4039806616135	6.82
5LJ23972C	4039806604910	6.82
5LJ23972E	4039806604972	6.82
5LJ48400XJ	4039806175854	2.43, 9.73
5LJ61201ER	4039806131805	8.145
5LJ65701CS	4039806131768	8.145
5LJ65701ES	4039806131782	8.145
5LJ65702CS	4039806131720	8.145
5LJ65702ES	4039806131744	8.145
5LJ76000Q	4039806584090	8.160
5LJ77564Q	4039806999108	8.157
5LJ77574W	4039806999122	8.157
5LJ77574X	4039806999160	8.157
5LJ77574X2	4039806999207	8.157
5LJ775D4Q	4039806999221	8.157
5LJ77664Q	4039806999252	8.159
5LJ77674W	4039806999269	8.159
5LJ77674X	4039806999306	8.159
5LJ77674X2	4039806999344	8.159
5LJ776D4Q	4039806999368	8.159
5LJ77864Q	4039806999382	8.158
5LJ77874W	4039806999405	8.158
5LJ77874X	4039806999443	8.158
5LJ77874X2	4039806999481	8.158
5LJ778D4Q	4039806999511	8.158
5LJ79361UD	4050737009049	4.58
5LJ79362UD	4050737009063	4.58
5LJ79362YD	4050737009087	4.58
5LJ79365UD	4050737009100	4.58
5LJ79366UD	4050737009124	4.58
5LJ79371UD	4050737009155	4.58
5LJ79372UD	4050737009162	4.58
5LJ79372YD	4050737009186	4.58
5LJ79375UD	4050737009216	4.58
5LJ79376UD	4050737009223	4.58
5LJ793D1UD	4050737069029	4.58
5LJ793D2BD	4050737066561	4.58
5LJ793D2UD	4050737087931	4.58
5LJ793D6UD	4050737071800	4.58



Order no. Siteco	Order no. OSRAM	Page
5LJ79461U	4050737012032	4.59
5LJ79462Y	4050737012056	4.59
5LJ79471U	4050737012070	4.59
5LJ79472Y	4050737012322	4.59
5LJ794D1U	4050737012094	4.59
5LJ794D2Y	4050737012421	4.59
5LJ79561U	4050737012438	4.60
5LJ79562Y	4050737012452	4.60
5LJ79571U	4050737012476	4.60
5LJ79572Y	4050737012506	4.60
5LJ795D1U	4050737012513	4.60
5LJ795D2Y	4050737012537	4.60
5LJ80002XK	4039806271976	2.52, 3.64, 3.75, 8.129, 8.171, 4.96
5LJ80003XK	4039806271983	3.64, 8.129, 8.136, 8.171
5LJ80005XK	4039806271990	8.129, 8.136, 8.171
5LJ90000ED	4039806132246	8.199
5LJ90010ED	4039806133199	8.196
5LJ90010XC	4039806133106	8.199
5LJ90010XV1	4039806120939	8.196
5LJ90020XC1	4039806094650	8.198
5LJ90020XC2	4039806094681	8.198
5LJ90020XCL	4039806194404	8.198
5LJ90020XCT	4039806111746	8.198
5LJ90030ED1	4039806187079	8.196
5LJ90030EDA1	4039806187055	8.196
5LJ90030EDA2	4039806187116	8.196
5LJ90030UD1	4039806184405	8.196
5LJ90030XC2	4039806197108	8.197
5LJ90040ED1	4039806139351	8.196
5LJ90040XC	4039806132307	8.200, 9.94
5LJ90050ED	4039806132277	8.197
5LJ90050XC	4039806132215	8.200, 9.94
5LJ90060XC	4039806132192	8.199
5LJ90060XC1S	4039806510334	8.197
5LJ90060XC2	4039806510341	8.197
5LJ90070XC1S	4039806510365	8.198
5LJ90080XC1S	4039806510389	8.198
5LJ90090XC	4039806132086	8.198
5LJ9056HPL	4050737054131	8.161, 13.73
5LJ90800XB	4039806000316	8.129
5LJ90800XK	4039806000354	8.136
5LJ90800XY	4039806000378	8.129, 8.136, 8.171, 9.94
5LJ90810XY	4039806000446	8.129, 8.136, 8.171, 9.94
5LJ90812XK	4039806000569	8.130
5LJ90830ED	4039806000330	8.130, 9.88, 9.90
5LJ90861C1	4039806246523	8.132
5LJ90861E1	4039806246547	8.132
5LJ90861H1	4050737004914	8.149
5LJ90861Q1	4050737004938	8.149
5LJ90862C1	4039806246660	8.132
5LJ90862E1	4039806246684	8.132
5LJ90862H1	4050737004952	8.149
5LJ90862Q1	4039806999542	8.149
5LJ90871C	4039806000019	8.132
5LJ90871E	4039806000033	8.132
5LJ90871ED01	4039806388056	8.135
5LJ90871ED2	4039806266149	8.134
5LJ90871ED3	4039806373472	8.133
5LJ90871ED41	4039806414359	8.135
5LJ90871H	4039806855831	8.149
5LJ90871Q	4039806537515	8.149
5LJ90872C	4039806000149	8.132
5LJ90872E	4039806000163	8.132
5LJ90872ED01	4039806388070	8.135
5LJ90872ED2	4039806434333	8.134
5LJ90872ED3	4039806373519	8.133

Order no. Siteco	Order no. OSRAM	Page
5LJ90872ED41	4039806414373	8.135
5LJ90872H	4050737015705	8.149
5LJ90872Q	4039806567420	8.149
5LJ90872W	4050737020655	8.149
5LJ908D1H1	4050737001999	8.149
5LJ908D1Q1	4039806579713	8.149
5LJ908D2H1	4050737005218	8.149
5LJ908D2Q1	4039806808356	8.149
5LJ908D2W1	4039806885753	8.149
5LJ90900	4039806106001	8.162, 8.183, 9.91
5LJ909001	4039806848017	8.163, 8.183, 9.91
5LJ90900XV	4039806106032	8.128
5LJ90900XY	4039806270924	8.129, 8.136, 8.171
5LJ90901	4039806106056	8.162, 8.183, 9.91
5LJ90910E	4039806106087	8.127, 8.169
5LJ90910E1	4039806137913	8.127
5LJ90910U	4039806211774	8.127
5LJ90910U1	4039806211798	8.127
5LJ90910XC	4039806089359	8.163, 8.184, 9.91
5LJ90910XD	4039806106100	8.128
5LJ90910XV	4039806168108	8.128, 8.169, 8.170, 9.88, 9.90
5LJ90911XC	4039806133403	8.164, 8.184, 9.92
5LJ90912XC	4039806106124	8.164, 8.184, 9.92
5LJ90920E	4039806106155	8.127, 8.169
5LJ90920E1	4039806137937	8.127
5LJ90920U	4039806211811	8.127
5LJ90920U1	4039806211835	8.127
5LJ90920XV	4039806106193	8.128
5LJ90921XC	4039806106216	8.162, 8.183, 9.91
5LJ90921XC2	4039806106247	8.163, 8.183, 9.91
5LJ90930E	4039806106261	8.127, 8.169
5LJ90930E1	4039806137951	8.127
5LJ90930U	4039806211859	8.127
5LJ90930U1	4039806211873	8.127
5LJ90930XC	4039806106308	8.162, 8.183, 9.91
5LJ90930XV	4039806106322	8.128
5LJ90940XC	4039806106346	3.76, 9.93
5LJ90950XC	4039806888037	3.76, 9.93
5LJ91301UB	4039806133243	8.189
5LJ91361H	4039806852403	8.189
5LJ91361H1M	4039806852410	8.189
5LJ91361HMD	4039806852427	8.190
5LJ91361HX03D	4039806852434	8.190
5LJ91361HX04D	4039806852441	8.190
5LJ91361Q	4039806852458	8.189
5LJ91361QM	4039806852465	8.189
5LJ91361QMD	4039806852472	8.190
5LJ91361QX03D	4039806852489	8.190
5LJ91361QX04D	4039806852496	8.190
5LJ91362H	4039806852502	8.189
5LJ91362Q	4039806852519	8.189
5LJ91371H	4039806852526	8.189
5LJ91371HM	4039806852533	8.189
5LJ91371HMD	4039806809469	8.190
5LJ91371HX03D	4039806852540	8.190
5LJ91371HX04D	4039806852557	8.190
5LJ91371Q	4039806575777	8.189
5LJ91371QM	4039806852564	8.189
5LJ91371QMD	4039806572363	8.190
5LJ91371QX03D	4039806572387	8.190
5LJ91371QX04D	4039806596253	8.190
5LJ91372H	4039806852571	8.189
5LJ91372Q	4039806852588	8.189
5LJ913D1H	4039806852595	8.189
5LJ913D1H1M	4039806852601	8.189
5LJ913D1HMD	4039806852618	8.190
5LJ913D1HX03D	4039806852625	8.190

Order no. Siteco	Order no. OSRAM	Page
5LJ913D1HX04D	4039806852632	8.190
5LJ913D1Q	4039806852649	8.189
5LJ913D1QM	4039806852656	8.189
5LJ913D1QMD	4039806852663	8.190
5LJ913D1QX03D	4039806852670	8.190
5LJ913D1QX04D	4039806852687	8.190
5LJ913D2H	4039806852694	8.189
5LJ913D2Q	4039806852700	8.189
5LJ93301UB	4039806133281	8.191
5LJ93361H	4039806852205	8.191
5LJ93361HM	4039806852717	8.191
5LJ93361HMD	4039806852229	8.192
5LJ93361HX03D	4039806852724	8.192
5LJ93361HX04D	4039806852731	8.192
5LJ93361Q	4039806852748	8.191
5LJ93361QM	4039806852755	8.191
5LJ93361QMD	4039806852762	8.192
5LJ93361QX03D	4039806852779	8.192
5LJ93361QX04D	4039806852786	8.192
5LJ93371H	4039806852793	8.191
5LJ93371HM	4039806852809	8.191
5LJ93371HMD	4039806852816	8.192
5LJ93371HX03D	4039806852823	8.192
5LJ93371HX04D	4039806852830	8.192
5LJ93371Q	4039806539311	8.191
5LJ93371QM	4039806852847	8.191
5LJ93371QMD	4039806513137	8.192
5LJ93371QX03D	4039806513151	8.192
5LJ93371QX04D	4039806596383	8.192
5LJ933D1H	4039806852854	8.191
5LJ933D1HM	4039806852861	8.191
5LJ933D1HMD	4039806852878	8.192
5LJ933D1HX03D	4039806852885	8.192
5LJ933D1HX04D	4039806852892	8.192
5LJ933D1Q	4039806852908	8.191
5LJ933D1QM	4039806852915	8.191
5LJ933D1QMD	4039806852922	8.192
5LJ933D1QX03D	4039806852939	8.192
5LJ933D1QX04D	4039806852946	8.192
5LJ96902	4039806203304	8.163
5LK11871HW	4050737468044	4.20
5LK11872BW	4050737117003	4.21
5LK11872HW	4050737468068	4.20
5LK11874BW	4050737117041	4.21
5LK118D1DW	4050737117065	4.17
5LK118D1GW	4050737100203	4.17
5LK118D1HW	4050737468020	4.20
5LK118D1OW	4050737468006	4.16
5LK118D1ZW	4050737467986	4.16
5LK118D2BW	4050737117102	4.21
5LK118D2HW	4050737468082	4.20
5LK118D4BW	4050737117140	4.21
5LK12871HW	4050737468105	4.20
5LK12872BW	4050737117188	4.21
5LK12872HW	4050737468129	4.20
5LK12874BW	4050737117225	4.21
5LK128D1DW	4050737117249	4.17
5LK128D1GW	4050737100227	4.17
5LK128D1HW	4050737468143	4.20
5LK128D1OW	4050737468181	4.16
5LK128D1ZW	4050737467962	4.16
5LK128D2BW	4050737117287	4.21
5LK128D2HW	4050737468167	4.20
5LK128D4BW	4050737117324	4.21
5LK21871HS	4050737476827	2.32, 3.17
5LK21872HS	4050737099774	2.32, 3.17
5LK21874BS	4050737471273	3.18

Order no. Siteco	Order no. OSRAM	Page
5LK218D1HS	4050737525020	2.32, 3.17
5LK218D1OS	4050737476841	2.30, 3.13
5LK218D1ZS	4050737471280	2.30, 3.13
5LK218D2HS	4050737471297	2.32, 3.17
5LK218D4BS	4050737471303	3.18
5LK218D4GS	4050737471310	3.14
5LK593040S	4050737480299	2.35
5LK91105	4050737478647	2.30, 2.32, 2.34
5LK91106	4050737478623	2.30, 2.32, 2.34
5LK91107	4050737478708	2.30, 2.32, 2.34
5LK91108	4050737478500	2.30, 2.32, 2.34
5LK91115	4050737478685	2.30, 2.32, 2.34
5LK91116	4050737478661	2.30, 2.32, 2.34
5LK91117	4050737478548	2.30, 2.32, 2.34
5LK91118	4050737478524	2.30, 2.32, 2.34
5LK91202	4050737478456	2.34
5LK91300	4039806144386	8.163, 8.183, 8.197, 9.91
5LL21271C	4039806050281	3.67
5LL21271E	4039806050328	3.67
5LL21273A	4039806050366	3.68
5LL21274A	4039806050403	3.68
5LL21275C	4039806050489	3.67
5LL21275E	4039806050526	3.67
5LL21671C	4039806051721	3.70
5LL21671E	4039806051769	3.70
5LL21673A	4039806051806	3.71
5LL21674A	4039806051844	3.71
5LL21675C	4039806051929	3.70
5LL21675E	4039806051967	3.70
5LL21771C	4039806052643	3.73
5LL21771E	4039806052681	3.73
5LL21773A	4039806052728	3.74
5LL21774A	4039806052766	3.74
5LL21775C	4039806052827	3.73
5LL21775E	4039806052865	3.73
5LM96001	4039806054418	4.96
5LM59101	4039806202017	4.13, 4.14
5LM59102	4039806204905	4.12, 4.14
5LM59103	4039806204929	4.8, 4.9, 4.10, 4.13, 4.14
5LM59104	4039806213853	4.8, 4.9, 4.10, 4.12, 4.13, 4.14, 4.14
5LM59105	4039806504463	4.8, 4.9, 4.10
5LM59201	4039806159229	3.8, 3.10
5LM59202	4039806159243	3.9, 3.10
5LM593010	4039806162021	2.28
5LM593010S	4039806162021	2.26
5LM59301A	4039806436511	2.20, 2.21
5LM593020S	4039806160140	2.26, 2.28
5LM59307	4039806160348	2.26, 2.27
5LM59311A	4039806436535	2.20, 2.21
5LM593120S	4039806160126	2.26, 2.28
5LM593120W	4039806160249	2.26, 2.28
5LP11671C	4039806008015	4.92
5LP11671E	4039806008039	4.92
5LP11672C	4039806008176	4.92
5LP11672E	4039806008190	4.92
5LP11771C	4039806008992	4.94
5LP11771E	4039806009012	4.94
5LP11772C	4039806009173	4.94
5LP11772E	4039806009210	4.94
5LP11B71C	4039806412027	4.90
5LP11B71E	4039806413802	4.90
5LP11B72C	4039806413826	4.90
5LP11B72E	4039806414243	4.90
5LP12671C	4039806014870	4.92
5LP12672C	4039806015051	4.92
5LP12673A	4039806015259	4.93

Order no. Siteco	Order no. OSRAM	Page
5LP12674A	4039806015358	4.93
5LP12771C	4039806016096	4.94
5LP12772C	4039806016171	4.94
5LP12773A	4039806016317	4.95
5LP12774A	4039806016379	4.95
5LP12B71C	4039806417435	4.90
5LP12B72C	4039806414267	4.90
5LP12B73A	4039806417497	4.91
5LP12B74A	4039806405746	4.91
5LP21672C	4039806024398	3.69
5LP21672E	4039806024411	3.69
5LP21772C	4039806025494	3.72
5LP21772E	4039806025517	3.72
5LP21B72C	4039806405883	3.66
5LP21B72E	4039806405906	3.66
5LP41971C	4039806035516	4.100
5LP41971E	4039806035530	4.100
5LP90000XC	4039806611345	4.70, 4.97, 4.101
5LP90010XC	4039806611338	4.70, 4.97, 4.101
5LP90011	4039806045638	4.100, 4.101
5LP91202X	4039806045850	8.163
5LP91212X	4039806045997	8.163
5LP91303S	4039806046079	2.17, 2.22, 2.35, 2.53, 3.58
5LP95011	4039806046413	4.97, 4.101
5LP95014	4039806046437	4.97, 4.101
5LP95021	4039806046451	4.97, 4.101
5LP95024	4039806046475	4.97, 4.101
5LP97001C	4039806046512	3.70, 4.92, 4.96
5LP97001E	4039806046536	3.70, 4.92, 4.96
5LQ11273A	4039806001153	4.91
5LQ11274A	4039806001191	4.91
5LQ11673A	4039806001290	4.93
5LQ11674A	4039806001337	4.93
5LQ11773A	4039806001399	4.95
5LQ11774A	4039806001412	4.95
5LR35761VA61	4039806400499	5.74
5LR35762LA61	4039806502766	5.74
5LR35771GA61	4039806212399	5.74
5LR35771VA61	4039806223425	5.74
5LR35771VA6102	4039806260031	5.75
5LR35772GA61	4039806212450	5.74
5LR35772LA61	4039806212474	5.74
5LR357D1VA61	4039806400536	5.74
5LR357D2LA61	4039806502780	5.74
5LR36761VA61	4039806400567	5.76
5LR36762LA61	4039806502797	5.76
5LR36771GA61	4039806212634	5.76
5LR36771VA61	4039806220585	5.76
5LR36771VA6102	4039806251589	5.77
5LR36772GA61	4039806212696	5.76
5LR36772LA61	4039806212719	5.76
5LR367D1VA61	4039806400604	5.76
5LR367D2LA61	4039806502810	5.76
5LR37761VA61	4039806400635	5.78
5LR37762LA61	4039806503688	5.78
5LR37771GA61	4039806212870	5.78
5LR37771VA61	4039806225047	5.78
5LR37771VA6102	4039806251626	5.79
5LR37772GA61	4039806212931	5.78
5LR37772LA61	4039806212955	5.78
5LR377D1VA61	4039806400666	5.78
5LR377D2LA61	4039806503695	5.78
5LR61061SA11AF	4039806157522	6.26
5LR61061TA11AA	4039806161420	6.27
5LR61061TA11AE	4039806157546	6.26
5LR61061TA11AF	4039806157560	6.26
5LR61071SA11AA	4039806161369	6.27

Order no. Siteco	Order no. OSRAM	Page
5LR61071SA11AE	4039806157423	6.26
5LR61071SA11AE02	4039806503091	6.28
5LR61071SA11AF	4039806157447	6.26
5LR61071SA11AF02	4039806228680	6.28
5LR61071SA13KJ	4039806435408	6.30
5LR61071SA13VA	4039806214119	6.32
5LR61071SA14EE	4039806203755	6.29
5LR61071SA14EF	4039806435590	6.29
5LR61071SA14VA	4039806435378	6.31
5LR61071SA15CE	4039806235121	6.33
5LR61071SA15CF	4039806435446	6.33
5LR61071SA15DE	4039806246905	6.33
5LR61071SA15DF	4039806241009	6.33
5LR61071TA11AA	4039806161383	6.27
5LR61071TA11AE	4039806157461	6.26
5LR61071TA11AF	4039806157485	6.26
5LR61071TA11AF02	4039806251688	6.28
5LR61071TA13MJ	4039806206497	6.30
5LR61071TA13NJ	4039806206510	6.30
5LR61071TA13VA	4039806238764	6.32
5LR61071TA13WJ	4039806435385	6.30
5LR61071TA14EE	4039806435620	6.29
5LR61071TA14EF	4039806435637	6.29
5LR61071TA14VA	4039806435392	6.31
5LR61071TA15CE	4039806418593	6.33
5LR61071TA15CF	4039806213440	6.33
5LR61071TA15DE	4039806206534	6.33
5LR61071TA15DF	4039806213464	6.33
5LR610D1SA11AE	4039806205209	6.26
5LR610D1SA11AF	4039806205223	6.26
5LR610D1TA11AA	4039806205308	6.27
5LR610D1TA11AE	4039806205360	6.26
5LR610D1TA11AF	4039806205384	6.26
5LR610D0COA11AF	4050737099514	6.8
5LR610DEOA11AF	4050737099538	6.8
5LR611D0COA31AE	4050737099552	6.7
5LR611D0COA41AF	4050737099576	6.7
5LR611D0EA31AE	4050737099590	6.7
5LR611D0EA41AF	4050737099613	6.7
5LR61261SA31AE	4039806157829	6.21
5LR61261SA41AF	4039806158161	6.21
5LR61261TA41AF	4039806158208	6.21
5LR61271SA31AE	4039806157669	6.21
5LR61271SA31AE02	4039806503107	6.22
5LR61271SA34EE	4039806435903	6.23
5LR61271SA35CE	4039806435842	6.25
5LR61271SA35DE	4039806435859	6.25
5LR61271SA41AF	4039806158000	6.21
5LR61271SA41AF02	4039806437105	6.22
5LR61271SA43KJ	4039806427045	6.24
5LR61271SA43MJ	4039806435705	6.24
5LR61271SA43NJ	4039806435712	6.24
5LR61271SA43WJ	4039806435729	6.24
5LR61271SA44EF	4039806435910	6.23
5LR61271SA45CF	4039806205421	6.25
5LR61271SA45DF	4039806435873	6.25
5LR61271TA31AE	4039806157706	6.21
5LR61271TA33MJ	4039806435811	6.24
5LR61271TA33WJ	4039806435736	6.24
5LR61271TA34EE	4039806435927	6.23
5LR61271TA35CE	4039806415103	6.25
5LR61271TA35DE	4039806418630	6.25
5LR61271TA41AF	4039806158048	6.21
5LR61271TA43NJ	4039806207708	6.24
5LR61271TA43WJ	4039806435750	6.24
5LR61271TA44EF	4039806422262	6.23
5LR61271TA45CF	4039806233080	6.25

Order no. Siteco	Order no. OSRAM	Page
5LR61271TA45DF	4039806240804	6.25
5LR612D1SA31AE	4039806503114	6.21
5LR612D1SA41AF	4039806205445	6.21
5LR612D1TA31AE	4039806219565	6.21
5LR612D1TA41AF	4039806234254	6.21
5LR91150BA	4039806189431	5.48
5LR91150BJ	4039806193476	5.48
5LR91160BA	4039806189455	5.82
5LR91160BC	4039806189561	5.82
5LR91160BJ	4039806193537	5.82
5LR91360BB	4039806269065	5.82
5LR91360BD	4039806269874	5.83
5LR91364BG	4039806269898	5.82
5LR91680BC	4039806194688	6.11, 6.37
5LR91680BD	4039806194626	6.11, 6.37
5LR91680BJ	4039806194640	6.11, 6.37
5LR91684BG	4039806194664	6.11, 6.37
5LR92204BS	4039806255709	5.26, 6.10, 6.36
5LR92204BT	4039806256935	5.26, 6.10, 6.36
5LR92208BS	4039806256959	5.26, 6.10, 6.36
5LR92208BT	4039806256973	5.26, 6.10, 6.36
5LR92264BB	4039806255747	5.26
5LR926800G	4039806221377	5.26, 6.10, 6.36
5LR926800M	4039806161444	5.26, 6.10, 6.36
5LR926800N	4039806161581	5.26, 6.10, 6.36
5LR926800P	4039806219589	5.26, 6.10, 6.36
5LR94361AB	4039806225955	5.81
5LR94363DK	4039806216533	5.80
5LR94364AB	4039806228703	5.81
5LR94365CH	4039806216557	5.80
5LR94681CE	4039806194336	6.7, 6.8, 6.9, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34
5LR94683DT	4039806161185	6.7, 6.8, 6.10, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.35
5LR94684CE	4039806232762	6.7, 6.8, 6.9, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34
5LR94685CM	4039806161468	6.35
5LR94685CN	4039806161567	6.35
5LR94685EE	4039806161208	6.7, 6.8, 6.9, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34
5LR94685QM	4039806161482	6.35
5LR94685RM	4039806161529	6.35
5LR94685SM	4039806161543	6.35
5LR94685TM	4039806161505	6.35
5LR94685UM	4039806161703	6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.35
5LR94688CE	4039806232786	6.7, 6.8, 6.9, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34
5LR95364CP	4039806216571	5.81
5LS16164Q	4050737096018	10.19
5LS16164QM	4050737096025	8.117
5LS16174Q	4050737095561	10.19
5LS16174QM	4050737096049	8.117
5LS161D4Q	4050737095592	10.19
5LS161D4QM	4050737095608	8.117
5LS16264Q	4050737096063	10.20
5LS16264QM	4050737096087	8.118
5LS16274Q	4050737095622	10.20
5LS16274QM	4050737095646	8.118
5LS162D4Q	4050737095660	10.20
5LS162D4QM	4050737095684	8.118
5LS16474Q	4050737096100	10.21
5LS164D4Q	4050737466996	10.21
5LS17571EBO	4039806509536	8.172

Order no. Siteco	Order no. OSRAM	Page
5LS17572EBO	4039806509543	8.172
5LS17671EBO	4039806509550	8.172
5LS22871CF5	4050737014807	9.84
5LS22871CY	4039806580641	9.46
5LS22871EF5	4050737014814	9.84
5LS22872CF5	4050737014739	9.84
5LS22872CF5A04	4050737014784	9.85
5LS22872CF5A05	4050737014791	9.85
5LS22872EF5	4050737014722	9.84
5LS22971CF5007	4050737014746	9.84
5LS22971CY	4039806580245	9.46
5LS22971EF5007	4050737014753	9.84
5LS22972CF5007	4050737014777	9.84
5LS22972EF5007	4050737014760	9.84
5LS23402TWQ	4039806198853	6.70
5LS23402TWR	4039806198877	6.70
5LS23471TR	4039806205520	6.68
5LS23472SR	4039806388254	6.68
5LS23472TQ	4039806195517	6.69
5LS23472TR	4039806193292	6.68
5LS31301AD	4039806251978	9.63
5LS31301CD	4039806251985	9.24, 9.63
5LS31301ED	4039806251992	9.24, 9.63
5LS31301EK	4039806166098	9.36, 9.48
5LS31302AD	4039806252005	9.63
5LS31302CD	4039806252012	9.24, 9.63
5LS31302ED	4039806252029	9.24, 9.63
5LS31311EK	4039806166111	9.36, 9.48
5LS31321EK	4039806171931	9.36, 9.48
5LS32171EY	4039806580665	9.34
5LS32172EY	4039806580689	9.34
5LS32200EK	4039806367778	9.36, 9.48
5LS32200XV	4039806166180	8.106, 9.24, 9.36, 9.48, 9.64
5LS32201AD	4039806252036	9.35, 9.47
5LS32201AW	4039806626240	9.38
5LS32201CD	4039806252043	9.35, 9.47
5LS32201CS	4039806166203	9.30, 9.35, 9.40, 9.42, 9.47, 9.82
5LS32201CW	4039806442413	9.38
5LS32201ED	4039806252050	9.35, 9.47
5LS32201ES	4039806166227	9.30, 9.31, 9.32, 9.35, 9.40, 9.41, 9.42, 9.43, 9.47, 9.82
5LS32201EST1	4039806259714	9.47, 9.80
5LS32201EW	4039806440099	9.38
5LS32202CD	4039806252067	9.35, 9.47
5LS32202CS	4039806166241	9.30, 9.35, 9.40, 9.47, 9.47, 9.80, 9.82
5LS32202CW	4039806440112	9.38
5LS32202ED	4039806252074	9.35, 9.47
5LS32202ES	4039806166265	9.30, 9.31, 9.32, 9.35, 9.40, 9.41, 9.42, 9.43, 9.47, 9.47, 9.80, 9.82
5LS32202EW	4039806440136	9.38
5LS32211EK	4039806166289	9.36, 9.48
5LS32271EY	4039806581648	9.33
5LS32272CY	4039806581662	9.33
5LS32371EY	4039806581709	9.34
5LS32372EY	4039806581723	9.34
5LS32901AW	4039806413536	9.50
5LS32901CW	4039806413550	9.50
5LS32901CWT1	4039806850522	9.50
5LS32901EW	4039806413574	9.50
5LS32901EWT1	4039806440150	9.50
5LS32902CW	4039806440174	9.50
5LS32902CWT1	4039806850553	9.50
5LS32902EW	4039806440198	9.50
5LS32902EWT1	4039806440211	9.50
5LS32911AW	4039806440235	9.50
5LS32911AY	4039806581747	9.45

Order no. Siteco	Order no. OSRAM	Page
5LS32911CW	4039806440259	9.50
5LS32911CY	4039806581761	9.45
5LS32911EW	4039806440273	9.50
5LS32911EY	4039806581785	9.45
5LS32912CW	4039806440297	9.50
5LS32912CY	4039806581808	9.45
5LS32912EW	4039806440310	9.50
5LS32912EY	4039806581822	9.45
5LS32971AY	4039806581846	9.45
5LS32971CY	4039806581860	9.45
5LS32971EY	4039806581884	9.45
5LS32972CY	4039806581907	9.45
5LS32972EY	4039806581921	9.45
5LS34000CD	4039806188328	9.72, 9.73
5LS34071J	4039806192332	9.72
5LS35071A	4039806184610	9.72
5LS35071C	4039806175076	9.72
5LS35071E	4039806175090	9.72
5LS41261A	4039806463722	9.56
5LS41261C	4039806609533	9.56
5LS41261CA0007	4039806545275	9.57
5LS41261E	4039806607294	9.56
5LS41261EA0007	4039806545299	9.57
5LS41261H	4050737004976	9.52
5LS41261Q	4039806570963	9.52
5LS41262C	4039806610171	9.56
5LS41262CA0007	4039806545312	9.57
5LS41262E	4039806607683	9.56
5LS41262EA0007	4039806545336	9.57
5LS41262P	4039806613813	9.54
5LS41262W	4039806895424	9.52
5LS41271A	4039806606259	9.56
5LS41271B	4039806569486	9.52
5LS41271C	4039806606266	9.56
5LS41271CA0003	4039806527653	9.57
5LS41271CA0007	4039806545350	9.57
5LS41271E	4039806606273	9.56
5LS41271EA0003	4039806527677	9.57
5LS41271EA0007	4039806545374	9.57
5LS41271EA01	4039806615084	9.61
5LS41271EA04	4039806615091	9.60
5LS41271EA05	4039806615107	9.60
5LS41271F	4039806612045	9.54
5LS41271H	4039806569509	9.52
5LS41271J	4039806610942	9.54
5LS41271L	4039806569523	9.52
5LS41271M	4039806611994	9.54
5LS41271P	4039806611925	9.54
5LS41271Q	4039806569547	9.52
5LS41271R	4039806611765	9.54
5LS41271T	4050737032993	9.22
5LS41271T65	4050737038018	9.21
5LS41271V	4050737033310	9.22
5LS41271V65	4050737038025	9.21
5LS41271X	4039806611864	9.54
5LS41271Y	4039806611772	9.54
5LS41272A	4039806606303	9.56
5LS41272B	4039806569561	9.52
5LS41272C	4039806606280	9.56
5LS41272CA0003	4039806527691	9.57
5LS41272CA0007	4039806545398	9.57
5LS41272E	4039806606297	9.56
5LS41272EA0003	4039806527714	9.57
5LS41272EA0007	4039806440471	9.57
5LS41272EA01	4039806615114	9.61
5LS41272EA04	4039806615121	9.60
5LS41272EA05	4039806615138	9.60

Order no. Siteco	Order no. OSRAM	Page
5LS41272F	4039806613462	9.54
5LS41272HE	4039806909787	9.52
5LS41272JE	4039806613790	9.54
5LS41272L	4039806569585	9.52
5LS41272M	4039806612052	9.54
5LS41272P	4039806612007	9.54
5LS41272R	4039806612014	9.54
5LS41272T	4050737033334	9.22
5LS41272T65	4050737038032	9.21
5LS41272V	4050737033365	9.22
5LS41272V65	4050737038049	9.21
5LS41272W	4039806591364	9.52
5LS41272Y	4039806612069	9.54
5LS41275U	4039806612380	9.54
5LS412D1E	4039806525413	9.56
5LS412D1H	4050737005102	9.52
5LS412D1Q	4050737005119	9.52
5LS412D2C	4039806889812	9.56
5LS412D2E	4039806530196	9.56
5LS412D2HE	4050737010724	9.52
5LS412D2W	4039806999740	9.52
5LS41771A	4039806610539	9.59
5LS41771C	4039806610546	9.59
5LS41771E	4039806610553	9.59
5LS41771EA0004	4039806610430	9.59
5LS41772C	4039806610577	9.59
5LS41772E	4039806610584	9.59
5LS41772EA0004	4039806610461	9.59
5LS42261C	4039806610300	9.58
5LS42261E	4039806610317	9.58
5LS42262E	4039806610331	9.58
5LS42271A	4039806606525	9.58
5LS42271B	4039806569622	9.53
5LS42271C	4039806606532	9.58
5LS42271CA04	4039806845474	9.60
5LS42271CA05	4039806560001	9.60
5LS42271E	4039806606549	9.58
5LS42271EA04	4039806562210	9.60
5LS42271EA05	4039806545633	9.60
5LS42271F	4039806613523	9.55
5LS42271H	4039806569646	9.53
5LS42271J	4039806613530	9.55
5LS42271L	4039806569660	9.53
5LS42271M	4039806613479	9.55
5LS42271P	4039806613509	9.55
5LS42271Q	4039806569684	9.53
5LS42271R	4039806613622	9.55
5LS42271X	4039806613547	9.55
5LS42271Y	4039806613493	9.55
5LS42272A	4039806606556	9.58
5LS42272B	4039806569707	9.53
5LS42272C	4039806606563	9.58
5LS42272CA04	4039806524423	9.60
5LS42272CA05	4039806560025	9.60
5LS42272E	4039806606570	9.58
5LS42272EA04	4039806562234	9.60
5LS42272EA05	4039806564856	9.60
5LS42272F	4039806613615	9.55
5LS42272JE	4039806530097	9.55
5LS42272L	4039806569721	9.53
5LS42272M	4039806613554	9.55
5LS42272P	4039806613585	9.55
5LS42272R	4039806613592	9.55
5LS42272W	4039806591388	9.53
5LS42272Y	4039806613578	9.55
5LS422D1C	4039806805911	9.58
5LS422D1E	4039806537362	9.58

Order no. Siteco	Order no. OSRAM	Page
5LS422D1H	4050737005157	9.53
5LS422D1Q	4050737005171	9.53
5LS422D2E	4039806537485	9.58
5LS42771C	4039806610782	9.59
5LS42771E	4039806610799	9.59
5LS42771EA0004	4039806610676	9.59
5LS42772E	4039806610829	9.59
5LS42772EA0004	4039806610706	9.59
5LS427D2C	4039806597595	9.59
5LS427D2E	4039806597618	9.59
5LS44001	4039806171535	9.26, 9.65
5LS44002	4039806171559	9.25, 9.65, 9.93
5LS44003	4039806606914	9.65
5LS44004	4039806568564	9.26, 9.66
5LS44101	4039806168542	9.24, 9.63
5LS44102	4039806168566	9.24, 9.63
5LS44200EK	4039806367907	9.64
5LS44201CS	4039806171573	9.56, 9.57, 9.58, 9.62
5LS44201ES	4039806171597	9.56, 9.57, 9.58, 9.62
5LS44201MS	4039806780997	9.52, 9.53, 9.54, 9.55, 9.62
5LS44201PS	4039806781000	9.52, 9.53, 9.54, 9.55, 9.62
5LS44201RS	4039806781017	9.52, 9.53, 9.54, 9.55, 9.62
5LS44202CS	4039806171610	9.56, 9.57, 9.58, 9.62
5LS44202ES	4039806171634	9.56, 9.57, 9.58, 9.62
5LS44202MS	4039806781024	9.52, 9.53, 9.54, 9.55, 9.62
5LS44202PS	4039806781031	9.52, 9.53, 9.54, 9.55, 9.62
5LS44202RS	4039806781048	9.52, 9.53, 9.54, 9.55, 9.62
5LS44211EK	4039806171511	9.64
5LS44301CS	4039806171351	9.56, 9.57, 9.58, 9.62
5LS44301EK	4039806171436	9.64
5LS44301ES	4039806171375	9.56, 9.57, 9.58, 9.62
5LS44302CS	4039806171399	9.56, 9.57, 9.58, 9.62
5LS44302ES	4039806171412	9.56, 9.57, 9.58, 9.62
5LS44311EK	4039806171450	9.64
5LS44321EK	4039806171481	9.64
5LS44901AW	4039806440594	9.66
5LS44901CW	4039806440617	9.26, 9.66
5LS44901EW	4039806440631	9.26, 9.66
5LS44902AW	4039806440655	9.66
5LS44902CW	4039806440679	9.26, 9.66
5LS44902EW	4039806440693	9.26, 9.66
5LS44911AW	4039806440716	9.66
5LS44911CW	4039806440730	9.26, 9.66
5LS44911EW	4039806440754	9.26, 9.66
5LS44912AW	4039806440778	9.66
5LS44912CW	4039806440792	9.26, 9.66
5LS44912EW	4039806440815	9.26, 9.66
5LS44971T	4050737040615	9.23
5LS44971V	4050737040639	9.23
5LS44972T	4050737040660	9.23
5LS44972V	4050737040677	9.23
5LS4L650T220	4050737040691	9.22, 9.23
5LS4L650T220P2	4050737041346	9.22, 9.23
5LS4L650V220	4050737040714	9.22, 9.23
5LS4L650V220P2	4050737041360	9.22, 9.23
5LS59000A	4050737600338	9.11, 9.12
5LS59000C	4050737600352	9.11, 9.12
5LS5900EA	4050737600383	9.14
5LS5900EC	4050737600390	9.14
5LS5900RA	4050737600413	9.16
5LS5900RC	4050737600437	9.16
5LS59201	4050737600444	9.7, 9.8, 9.10, 9.17
5LS90800ED	4039806166531	8.130, 8.171
5LS90800XD	4039806175908	9.88, 9.90
5LS90871E	4039806166593	8.174
5LS90871EF0	4039806445803	8.175
5LS90872E	4039806166630	8.174

Order no. Siteco	Order no. OSRAM	Page
5LS90872EF0	4039806445810	8.175
5LS90900XC1	4039806170774	9.37, 9.49, 9.93
5LS90900XD	4039806166678	8.169, 8.170, 9.88, 9.90
5LS90910XD	4039806166692	8.169, 8.170, 9.88, 9.90
5LS90920E	4039806166715	9.88
5LS90930E	4039806166739	9.88
5LS91011EN	4039806505637	9.89
5LS91012EN	4039806505644	9.89
5LS91013EN	4039806505651	9.89
5LS91101	4039806522436	9.89, 9.97
5LS91101EA	4039806505668	8.33, 8.99, 8.119, 9.96
5LS91101EV	4039806505675	9.89, 9.95
5LS91102	4039806522443	9.89, 9.97
5LS91103	4039806591524	9.89, 9.95
5LS91106	4039806591548	9.89, 9.95
5LS91120EC	4039806171696	9.17, 9.25, 9.38, 9.50, 9.66, 9.86, 9.97
5LY9001	4039806184290	8.34, 8.100, 8.120, 8.199, 9.17, 9.25, 9.65, 7.8, 7.20
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5LY9005	4039806999856	6.84, 8.164, 8.184, 9.37, 9.49, 9.86, 9.92, 10.13, 10.22, 10.29, 10.41
5LY9084	4039806378446	9.37, 9.49
5LY9086	4039806167521	6.84, 9.37, 9.49, 9.86
5LY90861	4039806170750	9.37, 9.49, 9.86, 9.96
5LY91105	4039806547651	2.14, 2.17
5LY91106	4039806547675	2.14, 2.17
5LY91107	4039806547699	2.14, 2.17
5LY91108	4039806547712	2.14, 2.17
5LY9111	4039806175991	9.37, 9.49, 9.86, 9.96
5LY91115	4039806547088	2.14, 2.17
5LY91116	4039806547101	2.14, 2.17
5LY9113	4039806176011	8.164, 8.184, 9.37, 9.49, 9.92, 10.29, 10.41
5LY9114	4039806369246	6.84
5LY9115	4039806167583	2.52, 3.57, 3.64, 3.75, 10.28, 4.101
5LY9116	4039806167606	2.52, 3.57, 3.64, 3.75, 10.28, 4.101
5LY9117	4039806167637	2.52, 3.57, 3.64, 3.75, 10.28, 4.101
5LY9118	4039806167651	2.52, 3.57, 3.64, 3.75, 10.28, 4.101
5LY91201	4039806436467	3.58
5LY91202	4039806436474	3.58
5LY91203	4039806508522	3.58
5LY9140	4039806167712	6.84
5LY91401	4039806172914	10.13, 10.23, 10.29
5LY9142	4039806369253	3.59, 3.76, 6.84, 9.86, 9.93
5LY9183	4039806369291	3.75, 10.28
5LZ902050	4050737018423	13.59
5LZ90205DA	4050737469003	13.72, 13.79
5LZ9031	4039806378712	13.71, 13.79
5LZ904001	4050737018430	13.66
5LZ904002	4050737018447	13.65
5LZ904004	4050737623948	8.32, 8.98, 13.12, 13.14, 13.79, 13.83
5LZ904005	4050737619774	8.32, 8.98, 13.12, 13.14, 13.79, 13.83
5LZ904334	4050737059853	13.8, 13.9, 13.15
5LZ904605	4039806549754	13.65, 13.68
5LZ904711	4050737056302	8.31, 8.97, 13.14, 13.16
5LZ904721	4050737056005	13.10, 13.11
5LZ904722	4050737619767	8.32, 8.98, 13.12, 13.83
5LZ904731	4050737059907	13.7



Order no. Siteco	Order no. OSRAM	Page
5LZ904732	4050737059921	13.5, 13.6, 13.8
5LZ904733	4050737059945	13.10, 13.11
5LZ904733DAW	4050737059976	13.10, 13.19
5LZ904741	4050737059983	13.5
5LZ904741HW	4050737060002	13.5, 13.19
5LZ904741MW	4050737060026	13.5, 13.19
5LZ904742	4050737060057	13.6
5LZ904743	4050737060064	13.6
5LZ904744	4050737060088	13.6
5LZ904750	4050737097718	13.15
5LZ91292094	4039806909565	8.26, 8.27, 8.92, 8.93
5LZ913001	4050737468686	13.50
5LZ913002	4050737468662	13.46, 13.50
5LZ913003	4050737468525	13.48, 13.50
5LZ913004	4050737468549	13.47, 13.50
5LZ913008	4050737468587	13.43, 13.50
5LZ913009	4050737468808	13.44, 13.50, 13.79
5LZ913010	4050737468273	13.45, 13.50
5LZ913011	4050737623955	13.49, 13.50
5LZ913TB1	4050737468600	13.48, 13.53
5LZ913TB2	4050737468624	13.47, 13.53, 13.71, 13.72, 13.75
5LZ914001	4050737018478	13.25, 13.26, 13.36
5LZ914002	4050737018485	13.35
5LZ914003	4050737018492	13.25, 13.29, 13.35, 13.39
5LZ914004	4050737018508	13.25, 13.26, 13.35, 13.36
5LZ914005	4050737018515	13.26, 13.29, 13.36, 13.39
5LZ914007	4050737018539	3.37, 13.25, 13.27, 13.35, 13.37, 4.51
5LZ914008	4050737018546	13.23, 13.25, 13.33, 13.35
5LZ914009	4050737020426	3.37, 13.24, 13.25, 13.34, 13.35, 4.51
5LZ914010	4050737020433	3.37, 13.24, 13.29, 13.34, 13.39, 4.51
5LZ916001	4050737468648	8.32, 8.98, 13.79, 13.83
5MC11661HW	4050737577432	4.30
5MC11661QW	4050737060255	4.30
5MC11662BS	4050737577456	4.30
5MC11662BW	4050737577470	4.30
5MC11662HS	4050737577500	4.30
5MC11662HW	4050737051925	4.30
5MC11662QS	4050737577517	4.30
5MC11662QW	4050737008240	4.30
5MC11664BS	4050737577531	4.31
5MC11664BW	4050737577555	4.31
5MC11671BS	4050737577586	4.30
5MC11671BW	4050737577593	4.30
5MC11671HS	4050737577623	4.30
5MC11671HW	4039806856630	4.30
5MC11671QS	4050737577647	4.30
5MC11671QW	4050737023113	4.30
5MC11672BS	4050737577661	4.30
5MC11672BW	4050737115566	4.30
5MC11672HS	4050737463353	4.30
5MC11672HW	4050737577685	4.30
5MC11672QS	4050737577692	4.30
5MC11672QW	4050737063171	4.30
5MC11674BS	4050737577715	4.31
5MC11674BW	4050737577739	4.31
5MC116D1HS	4050737577753	4.30
5MC116D1HW	4050737577777	4.30
5MC116D1QS	4050737071282	4.30
5MC116D1QW	4050737577791	4.30
5MC116D2HS	4050737577814	4.30
5MC116D2HW	4050737577845	4.30
5MC116D2QS	4050737577852	4.30
5MC116D2QW	4050737577876	4.30
5MC116D4BS	4050737098302	4.31

Order no. Siteco	Order no. OSRAM	Page
5MC116D4BW	4050737577890	4.31
5MC11B64BS	4050737577913	4.26
5MC11B64BW	4050737577937	4.26
5MC11B71BS	4050737651682	4.25
5MC11B71BW	4050737651699	4.25
5MC11B71HS	4050737651705	4.25
5MC11B71HW	4050737651712	4.25
5MC11B71QS	4050737651729	4.25
5MC11B71QW	4050737651736	4.25
5MC11B74BS	4050737577951	4.26
5MC11B74BW	4050737577975	4.26
5MC11BD1HS	4050737651743	4.25
5MC11BD1QS	4050737651750	4.25
5MC11BD4BS	4050737578026	4.26
5MC11BD4BW	4050737578033	4.26
5MC12661HS	4050737098104	4.29
5MC12662HS	4050737041780	4.29
5MC12662HW	4050737578071	4.29
5MC12664BS	4050737578095	4.31
5MC12664BW	4050737578118	4.31
5MC12671BS	4050737578156	4.29
5MC12671BW	4050737578187	4.29
5MC12671HS	4050737578194	4.29
5MC12671HW	4050737578217	4.29
5MC12672BS	4050737578279	4.29
5MC12672BW	4050737578309	4.29
5MC12672HS	4050737578323	4.29
5MC12672HW	4050737008264	4.29
5MC12674BS	4050737578378	4.31
5MC12674BW	4050737578392	4.31
5MC126D1HS	4050737578415	4.29
5MC126D1HW	4050737578439	4.29
5MC126D2BW	4050737578491	4.29
5MC126D2HS	4050737578521	4.29
5MC126D2HW	4050737578538	4.29
5MC126D4BS	4050737578590	4.31
5MC126D4BW	4050737578613	4.31
5MC12B64BS	4050737578637	4.26
5MC12B64BW	4050737578651	4.26
5MC12B71HW	4050737651767	4.25
5MC12B74BS	4050737578675	4.26
5MC12B74BW	4050737578705	4.26
5MC12BD1BW	4050737651774	4.25
5MC12BD1HW	4050737651781	4.25
5MC12BD4BS	4050737578712	4.26
5MC12BD4BW	4050737578736	4.26
5MC22661HS	4050737578750	3.23
5MC22661QS	4050737578774	3.23
5MC22662BS	4050737578798	3.23
5MC22662QS	4050737578811	3.23
5MC22664BS	4050737578835	3.24
5MC22666BS	4050737578866	3.24
5MC22671BS	4050737578873	3.23
5MC22671HS	4039806596413	3.23
5MC22671QS	4039806907660	3.23
5MC22672BS	4050737019437	3.23
5MC22672HS	4039806804747	3.23
5MC22672QS	4050737578897	3.23
5MC22674BS	4050737019451	3.24
5MC22676BS	4050737578910	3.24
5MC226D1HS	4050737578934	3.23
5MC226D1QS	4050737578958	3.23
5MC226D2BS	4050737578972	3.23
5MC226D2HS	4050737578996	3.23
5MC226D2QS	4050737059358	3.23
5MC226D4BS	4050737069371	3.24
5MC226D6BS	4050737579016	3.24



Order no. Siteco	Order no. OSRAM	Page
5MC22B61HS	4050737651798	3.21
5MC22B61QS	4050737014302	3.21
5MC22B64BS	4050737579047	3.22
5MC22B66BS	4050737579054	3.22
5MC22B71HS	4050737469317	3.21
5MC22B71QS	4039806908551	3.21
5MC22B74BS	4050737579078	3.22
5MC22B76BS	4050737579092	3.22
5MC22BD1HS	4050737713311	3.21
5MC22BD1QS	4050737713021	3.21
5MC22BD6BS	4050737579115	3.22
5MC24B61HS	4050737028682	2.14
5MC24B61QS	4050737038865	2.14
5MC24B62HS	4039806599148	2.14
5MC24B62WS	4039806599162	2.14
5MC24B71HS	4039806906779	2.14
5MC24B71QS	4050737029412	2.14
5MC24B72HS	4039806597533	2.14
5MC24B72WS	4039806804785	2.14
5MC24BD1QS	4050737017709	2.14
5MC24BD2WS	4039806862846	2.14
5MC25462HS1	4039806551030	2.11
5MC25462HS2	4039806551047	2.10
5MC25462QS1	4039806568113	2.11
5MC25462QS2	4039806568137	2.10
5MC25472HS1	4039806551078	2.11
5MC25472HS2	4039806551085	2.10
5MC25472QS1	4039806804822	2.11
5MC25472QS2	4039806804846	2.10
5MC254D2HS1	4039806551115	2.11
5MC254D2HS2	4039806551122	2.10
5MC254D2QS1	4039806568359	2.11
5MC254D2QS2	4039806568373	2.10
5MC254DL3HS1	4050737096902	2.7
5MC254DL3HS2	4050737096926	2.8
5MC254DL4HS1	4050737096940	2.7
5MC254DL4HS2	4050737096964	2.8
5MC61661HW	4050737579139	4.33
5MC61661QW	4050737049410	4.33
5MC61662HS	4050737579153	4.33
5MC61662HW	4050737579177	4.33
5MC61662QS	4050737579207	4.33
5MC61662QW	4050737579214	4.33
5MC61664BS	4050737579238	4.34
5MC61664BW	4050737579252	4.34
5MC61671BS	4050737579276	4.33
5MC61671BW	4050737579290	4.33
5MC61671HS	4050737031088	4.33
5MC61671HW	4039806887801	4.33
5MC61671QS	4050737579313	4.33
5MC61671QW	4050737579337	4.33
5MC61672BS	4050737579351	4.33
5MC61672BW	4050737579382	4.33
5MC61672HS	4050737579399	4.33
5MC61672HW	4050737579412	4.33
5MC61672QS	4050737579436	4.33
5MC61672QW	4050737579450	4.33
5MC61674BS	4050737579474	4.34
5MC61674BW	4050737579498	4.34
5MC616D1HS	4050737579511	4.33
5MC616D1HW	4050737579542	4.33
5MC616D1QS	4050737579559	4.33
5MC616D1QW	4050737579573	4.33
5MC616D2HS	4050737579597	4.33
5MC616D2HW	4050737579610	4.33
5MC616D2QW	4050737071350	4.33
5MC616D4BS	4050737579634	4.34

Order no. Siteco	Order no. OSRAM	Page
5MC616D4BW	4050737579658	4.34
5MC61B64BS	4050737579696	4.28
5MC61B64BW	4050737579726	4.28
5MC61B71BS	4050737651811	4.27
5MC61B71BW	4050737651828	4.27
5MC61B71HS	4050737651835	4.27
5MC61B71HW	4050737651842	4.27
5MC61B71QS	4050737651859	4.27
5MC61B74BS	4050737579757	4.28
5MC61B74BW	4050737579771	4.28
5MC61BD1HS	4050737651866	4.27
5MC61BD1QS	4050737651873	4.27
5MC61BD4BS	4050737579795	4.28
5MC61BD4BW	4050737579818	4.28
5MC62661HW	4050737579856	4.32
5MC62662HW	4050737059372	4.32
5MC62664BS	4050737579887	4.34
5MC62664BW	4050737579894	4.34
5MC62671BS	4050737579917	4.32
5MC62671BW	4050737579931	4.32
5MC62671HS	4050737579955	4.32
5MC62672BS	4050737580012	4.32
5MC62672BW	4050737580036	4.32
5MC62672HS	4050737580067	4.32
5MC62672HW	4050737580074	4.32
5MC62674BW	4050737580135	4.34
5MC626D1BW	4050737580159	4.32
5MC626D1HS	4050737580173	4.32
5MC626D1HW	4050737580197	4.32
5MC626D2BW	4050737580258	4.32
5MC626D2HS	4050737580272	4.32
5MC626D2HW	4050737580296	4.32
5MC626D4BS	4050737580357	4.34
5MC626D4BW	4050737063492	4.34
5MC62B74BS	4050737580371	4.28
5MC62B74BW	4050737580401	4.28
5MC62BD4BS	4050737580418	4.28
5MC62BD4BW	4050737580432	4.28
5MC90001	4039806577658	4.35
5MC90101	4039806568205	4.35
5MC90102	4039806568229	4.35
5MD90201	4039806571526	2.14, 2.16, 3.25
5MD90202	4039806577672	2.14, 2.16, 3.25
5MC90601	4039806568243	4.35
5MC90602	4039806568267	4.35
5MC91001	4039806580054	2.16
5MC91002	4039806580085	2.16
5MC91003	4039806580115	2.16
5MC91004	4039806580146	2.16
5MD11371G	4039806510990	6.64
5MD119010W	4039806511010	6.65
5MD119020W	4039806511027	6.65
5MD119030W	4039806511034	6.65
5MD12372T	4039806511058	6.64
5MD12471D	4039806511089	6.64
5MD12472H	4039806511102	6.64
5MD12472S	4039806511119	6.64
5MD12475D	4039806511126	6.64
5MD13471D	4039806511157	6.64
5MD13471P	4039806511164	6.64
5MD13472H	4039806511171	6.64
5MD13475D	4039806511195	6.64
5MD1990102	4039806511218	6.65
5MD1990202	4039806511232	6.65
5MD1990302	4039806511256	6.65
5MD81471M1	4039806511478	6.43
5MD81471M3	4039806511485	6.43

Order no. Siteco	Order no. OSRAM	Page
5MD81471Y1	4039806511492	6.43
5MD81471Y3	4039806511508	6.43
5MD819010W	4039806511539	6.44
5MD82471K1	4039806511560	6.43
5MD82471K3	4039806511577	6.43
5MD829020W	4039806511607	6.44
5MD85471M1	4039806511638	6.42
5MD85471M3	4039806511645	6.42
5MD85471W1	4039806511652	6.42
5MD85471W3	4039806511669	6.42
5MD85471Y1	4039806511676	6.42
5MD85471Y3	4039806511683	6.42
5MD859010W	4039806511713	6.44
5MF21471HS	4039806575241	3.45
5MF21471QS	4039806575258	3.45
5MF214D1HS	4039806866790	3.45
5MF214D1QS	4039806866813	3.45
5MF21B71HS	4039806575265	3.44
5MF21B71QS	4039806575272	3.44
5MF21BD1QS	4039806870629	3.44
5MF23471HS	4039806575319	2.42
5MF23471QS	4039806575326	2.42
5MF23475HS	4039806575333	2.42
5MF23475WS	4039806578440	2.42
5MF23871HS	4039806575357	2.40
5MF23871QS	4039806575364	2.40
5MF238D1HS	4039806895707	2.40
5MF238D1QS	4039806856838	2.40
5MF23B71HS	4039806575371	2.41
5MF23B71QS	4039806575388	2.41
5MF23B75HS	4039806575401	2.41
5MF23B75WS	4039806578464	2.41
5MF23BD1HS	4050737004853	2.41
5MF23BD1QS	4039806809797	2.41
5MF23BD5WS	4039806892263	2.41
5MF43471HS	4039806575531	2.42
5MF43471WS	4039806578488	2.42
5MF43475HS	4039806575555	2.42
5MF43475WS	4039806578501	2.42
5MF43871HS	4039806575579	2.40
5MF43871WS	4039806592811	2.40
5MF438D1HS	4039806809261	2.40
5MF438D1WS	4039806856852	2.40
5MF43B71HS	4039806576712	2.41
5MF43B71WS	4039806578525	2.41
5MF43B75HS	4039806575609	2.41
5MF43B75WS	4039806578549	2.41
5MF43BD5HS	4050737015217	2.41
5MF43BD5WS	4039806851291	2.41
5MF90001	4039806578341	2.43, 3.46
5MJ20001	4039806508546	3.58
5MJ20002	4039806524881	3.58
5MJ20002HA	4039806509741	3.53, 3.54, 3.56, 3.57
5MJ20002HS	4039806509758	3.53, 3.54, 3.56, 3.57
5MJ20002QA	4039806509765	3.53, 3.54, 3.56, 3.57
5MJ20002QS	4039806509772	3.53, 3.54, 3.56, 3.57
5MJ20004BW	4039806512642	3.59
5MJ20005BW	4039806512666	3.59
5MJ21102HW	4039806509796	3.60
5MJ21102QW	4039806509802	3.60
5MJ21161H	4039806901729	3.54
5MJ21161Q	4039806599766	3.54
5MJ21162H	4039806845078	3.54
5MJ21162W	4050737037608	3.54
5MJ21171H	4039806498168	3.54
5MJ21171Q	4039806498175	3.54
5MJ21172H	4039806498199	3.54

Order no. Siteco	Order no. OSRAM	Page
5MJ21172W	4039806596284	3.54
5MJ21172X	4039806498212	3.54
5MJ211D1H	4039806902078	3.54
5MJ211D1Q	4039806544834	3.54
5MJ211D2H	4039806537218	3.54
5MJ211D2W	4050737008080	3.54
5MJ211DL23	4050737524948	3.50
5MJ211DL24	4050737524931	3.50
5MJ211DL43	4050737524924	3.50
5MJ211DL44	4050737524917	3.50
5MJ22202HW	4039806509826	3.60
5MJ22202QW	4039806509833	3.60
5MJ22261H	4039806539403	3.53
5MJ22261Q	4039806539861	3.53
5MJ22262H	4039806541413	3.53
5MJ22262W	4039806926579	3.53
5MJ22271H	4039806498236	3.53
5MJ22271Q	4039806498243	3.53
5MJ22272H	4039806498267	3.53
5MJ22272W	4039806596307	3.53
5MJ22272X	4039806498281	3.53
5MJ222D1H	4039806533852	3.53
5MJ222D1Q	4039806533876	3.53
5MJ222D2H	4039806903013	3.53
5MJ222D2W	4050737000046	3.53
5MJ222DL23	4050737524900	3.49
5MJ222DL24	4050737523293	3.49
5MJ222DL43	4050737523286	3.49
5MJ222DL44	4050737523279	3.49
5MJ22302HW	4039806509857	3.60
5MJ22302QW	4039806509864	3.60
5MJ22361HS	4039806598288	3.52
5MJ22361QS	4039806571489	3.52
5MJ22362HS	4039806901767	3.52
5MJ22362WS	4039806904089	3.52
5MJ22371HS	4039806498304	3.52
5MJ22371QS	4039806498335	3.52
5MJ22372HS	4039806498359	3.52
5MJ22372WS	4039806596321	3.52
5MJ22372XS	4039806498397	3.52
5MJ223D1HS	4039806901804	3.52
5MJ223D1QS	4039806541598	3.52
5MJ223D2HS	4039806901828	3.52
5MJ223D2WS	4039806926258	3.52
5MJ223DL23	4050737523262	3.48
5MJ223DL24	4050737523255	3.48
5MJ223DL43	4050737523248	3.48
5MJ223DL44	4050737514062	3.48
5MJ23102HW	4039806509871	3.60
5MJ23102QW	4039806509888	3.60
5MJ23161H	4039806902016	3.56
5MJ23161Q	4039806573117	3.56
5MJ23162H	4039806580207	3.56
5MJ23162W	4050737000060	3.56
5MJ23171H	4039806498403	3.56
5MJ23171Q	4039806498410	3.56
5MJ23172H	4039806498427	3.56
5MJ23172W	4039806596345	3.56
5MJ231D1H	4039806901842	3.56
5MJ231D1Q	4039806901866	3.56
5MJ231D2H	4039806901880	3.56
5MJ231D2W	4039806904249	3.56
5MJ24302HW	4039806509895	3.60
5MJ24302QW	4039806509901	3.60
5MJ24361HS	4039806901903	3.55
5MJ24361QS	4039806585011	3.55
5MJ24362HS	4039806561183	3.55

Order no. Siteco	Order no. OSRAM	Page	Order no. Siteco	Order no. OSRAM	Page
5MJ24362WS	4039806941886	3.55	5MP6211H	4050737022949	3.32, 4.46
5MJ24371HS	4039806498458	3.55	5MP6211W	4050737022963	3.32, 4.46
5MJ24371QS	4039806498465	3.55	5MP6212H	4050737022994	3.32, 3.36, 4.46, 4.50
5MJ24372HS	4039806498472	3.55	5MP6212W	4050737023007	3.32, 3.36, 4.46, 4.50
5MJ24372WS	4039806596369	3.55	5MP6213H	4050737023021	3.36, 4.50
5MJ243D1HS	4039806901927	3.55	5MP6213W	4050737023052	3.36, 4.50
5MJ243D1QS	4039806901941	3.55	5MP6221H	4050737023069	3.39, 4.53
5MJ243D2HS	4039806889683	3.55	5MP6221W	4050737023083	3.39, 4.53
5MJ243D2WS	4050737002668	3.55	5MP90101	4050737017839	3.34, 3.36, 3.41, 4.48, 4.50, 4.55
5MM12475UX	4039806418920	2.46	5MP90201	4050737017419	3.34, 3.36, 3.42
5MM12476YX	4039806418944	2.46	5MP90202	4050737017440	3.34, 3.36, 3.42
5MM12477TJ	4039806418968	2.46	5MP90203	4050737017471	3.34, 3.36, 3.42
5MP12130H	4050737022291	4.45, 4.46, 4.47, 4.49, 4.53	5MP90301	4050737017617	3.34, 3.36, 3.41
5MP12130W	4050737022314	4.45, 4.46, 4.47, 4.49, 4.53	5MP90302	4050737017648	4.48, 4.50, 4.55
5MP12230H	4050737022338	4.45, 4.46, 4.47, 4.49	5MP90501	4050737040448	3.37, 4.51
5MP12230W	4050737022369	4.45, 4.46, 4.47, 4.49	5MP90502	4050737040462	3.37, 4.51
5MP12330H	4050737022376	4.53	5MQ11872P	4050737023441	4.12
5MP12330W	4050737022390	4.53	5MQ11872Y	4050737023465	4.13
5MP12430H	4050737022413	4.47, 4.49	5MQ118D2P	4050737023489	4.12
5MP12430W	4050737022444	4.47, 4.49	5MQ118D2Y	4050737023908	4.13
5MP12530H	4050737022451	4.47, 4.49	5MQ118DL3P	4050737101972	4.8
5MP12530W	4050737022475	4.47, 4.49	5MQ118DL3Y	4050737116624	4.9
5MP21130H	4050737021928	3.31, 3.32, 3.33, 3.35, 3.39	5MQ118DL4P	4050737101996	4.8
5MP21130W	4050737021959	3.31, 3.32, 3.33, 3.35, 3.39	5MQ118DL4Y	4050737116648	4.9
5MP21230H	4050737021966	3.31, 3.32, 3.33, 3.35	5MQ12872N	4050737023939	4.12
5MP21230W	4050737021980	3.31, 3.32, 3.33, 3.35	5MQ12872P	4050737023946	4.12
5MP21330H	4050737022000	3.39	5MQ12872R	4050737023960	4.12
5MP21330W	4050737022031	3.39	5MQ12872Y	4050737023984	4.13
5MP21430H	4050737022048	3.33, 3.35	5MQ128D2N	4050737024011	4.12
5MP21430W	4050737022062	3.33, 3.35	5MQ128D2P	4050737024028	4.12
5MP21530H	4050737022086	3.33, 3.35	5MQ128D2R	4050737024042	4.12
5MP21530W	4050737022116	3.33, 3.35	5MQ128D2Y	4050737024066	4.13
5MP31171H	4050737022703	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50	5MQ128DL3P	4050737116815	4.8
5MP31171W	4050737022758	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50	5MQ128DL3Y	4050737116662	4.9
5MP31171W1	4050737023694	3.38, 4.52	5MQ128DL4P	4050737116839	4.8
5MP311D1H	4050737022765	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50	5MQ128DL4Y	4050737116686	4.9
5MP311D1HMA	4050737050867	3.37, 4.51	5MQ21872N	4050737024097	2.24, 3.8
5MP311D1W	4050737022819	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50	5MQ21872P	4050737024103	2.24, 3.8
5MP311D1W1	4050737042138	3.38, 4.52	5MQ21872R	4050737024127	2.24, 3.8
5MP311D1WMA	4050737050874	3.37, 4.51	5MQ218D2N	4050737024141	2.24, 3.8
5MP31271H	4050737022871	3.39, 4.53	5MQ218D2P	4050737024165	2.24, 3.8
5MP31271W	4050737022888	3.39, 4.53	5MQ218D2R	4050737024196	2.24, 3.8
5MP31271W1	4050737041407	3.40, 4.54	5MQ218DL3P	4050737463483	2.23, 3.6
5MP312D1H	4050737022901	3.39, 4.53	5MQ218DL4P	4050737462936	2.23, 3.6
5MP312D1W	4050737022932	3.39, 4.53	5MQ23872H	4050737024202	2.20
5MP312D1W1	4050737041421	3.40, 4.54	5MQ23872L	4050737024226	2.20
5MP31471H	4050737042480	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50	5MQ23872W	4050737024240	2.20
5MP31471W	4050737049182	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50	5MQ23872X	4050737024271	2.20
5MP314D1H	4050737049199	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50	5MQ238D2H	4050737024288	2.20
5MP314D1W	4050737049311	3.31, 3.32, 3.34, 3.36, 4.45, 4.46, 4.48, 4.50	5MQ238D2L	4050737024301	2.20
5MP6101H	4050737016245	3.31, 4.45	5MQ238D2W	4050737024325	2.20
5MP6101W	4050737016283	3.31, 4.45	5MQ238D2X	4050737024349	2.20
5MP6102H	4050737016306	3.34, 4.48	5MQ24872N	4050737024370	3.9
5MP6102W	4050737016337	3.34, 4.48	5MQ24872P	4050737024387	3.9
5MP6103H	4050737016344	3.34, 4.48	5MQ24872R	4050737024400	3.9
5MP6103W	4050737016368	3.34, 4.48	5MQ248D2N	4050737024424	3.9
5MP6104H	4050737016382	3.31, 4.45	5MQ248D2P	4050737024455	3.9
5MP6104W	4050737016412	3.31, 4.45	5MQ248D2R	4050737024462	3.9
5MP6105H	4050737016429	3.34, 4.48	5MQ530010S	4050737021546	2.26
5MP6105W	4050737016443	3.34, 4.48	5MQ530020S	4050737021560	2.26
			5MQ530030S	4050737021584	2.26
			5MQ530110S	4050737024615	2.26
			5MQ530120S	4050737024622	2.26
			5MQ530130S	4050737024646	2.26
			5MQ54071H	4050737019857	2.25
			5MQ54071L	4050737019888	2.25
			5MQ54071Q	4050737019895	2.25

Order no. Siteco	Order no. OSRAM	Page
5MQ540D1H	4050737019918	2.25
5MQ540D1L	4050737019932	2.25
5MQ540D1Q	4050737019956	2.25
5MQ593040S	4050737017723	2.27, 2.24
5MQ593060S	4050737019680	2.26, 2.27
5MQ593080S	4050737019369	2.26, 2.27
5MQ90101	4050737511375	3.6, 3.10
5MQ90102	4050737518992	2.27, 2.23
5MS42673ULO	4039806445971	1.8
5MS42674ULO	4039806445988	1.8
5MS426D3ULOD	4050737009476	1.9
5MS426D4ULOD	4050737009483	1.9
5MS43672ULO	4039806425171	6.40
5MS43677VLO	4039806425188	6.40
5NA52000XS	4039806058423	12.79, 12.80, 12.81, 12.84
5NA52002XS	4039806058485	12.79, 12.80, 12.81, 12.84
5NA52003XS	4039806058522	12.79, 12.80, 12.81, 12.84
5NA52004XS	4039806058560	12.71, 12.83
5NA52005XS	4039806072207	12.79, 12.81, 12.84
5NA52005XS1	4039806072221	12.79, 12.81, 12.84
5NA52800BF	4039806059147	12.83, 12.85
5NA528E1MR28	4039806348470	12.71
5NA528E1MR38	4039806348494	12.71
5NA528E1MR58	4039806348531	12.72
5NA528E1MR68	4039806348555	12.72
5NA528E1MS28	4039806348579	12.71
5NA528E1MS38	4039806348593	12.71
5NA528E1MS58	4039806348616	12.72
5NA528E1MS68	4039806348630	12.72
5NA529E1MR28	4039806350237	12.79
5NA529E1MR28D	4039806350244	12.81
5NA529E1MR38	4039806350268	12.79
5NA529E1MR58	4039806350305	12.80
5NA529E1MR68	4039806350329	12.80
5NA529E1MS28	4039806350343	12.79
5NA529E1MS28D	4039806350350	12.81
5NA529E1MS38	4039806350374	12.79
5NA529E1MS58	4039806350398	12.80
5NA529E1MS68	4039806350411	12.80
5NA54900XG	4039806059666	12.83, 12.85
5NA54903XG	4039806210357	12.85
5NA59000XF	4039806221223	10.32, 10.34, 10.35, 10.41
5NA75601VP11C	4039806857064	11.26
5NA75671WP11C	4050737017044	11.26
5NA75700ES	4039806442086	12.37
5NA75700XG08	4039806440938	10.64
5NA75701SS0208H	4039806620095	10.61
5NA75701SS2208H	4039806504289	10.58
5NA75761NS0208	4039806625830	10.61
5NA75761PS0208	4039806622952	10.61
5NA75771NS0208	4039806623027	10.61
5NA75771NS2208	4039806427038	10.58
5NA757E1NS0108	4039806626530	10.61
5NA757E1NS0208	4039806623942	10.61
5NA757E1NS2108	4039806627650	10.58
5NA757E1NS2208	4039806626615	10.58
5NA757E1PS0208	4039806623959	10.61
5NA757E1PS2208	4039806626639	10.58
5NA75800XG08	4039806441034	10.64
5NA75801VB0208H	4039806614872	10.62
5NA75801VS0208H	4039806614865	10.63
5NA75861SB0208	4039806616777	10.62
5NA75861SS0208	4039806616760	10.63
5NA75861TB0208	4039806616791	10.62
5NA75861TS0208	4039806616784	10.63
5NA75871RB0208	4039806616753	10.62
5NA75871RS0208	4039806616746	10.63

Order no. Siteco	Order no. OSRAM	Page
5NA75871TB0208	4039806616814	10.62
5NA75871TS0208	4039806616807	10.63
5NA758E1RB0208	4039806623775	10.62
5NA758E1RB22	4039806858665	10.59
5NA758E1RS0208	4039806623768	10.63
5NA758E1RS22	4039806858689	10.60
5NA758E1SB0108	4039806623737	10.62
5NA758E1SB0208	4039806623720	10.62
5NA758E1SB21	4039806858702	10.59
5NA758E1SB22	4039806858924	10.59
5NA758E1SS0108	4039806623690	10.63
5NA758E1SS0208	4039806623683	10.63
5NA758E1SS21	4039806858948	10.60
5NA758E1SS22	4039806858962	10.60
5NA758E1TB0108	4039806623751	10.62
5NA758E1TB0208	4039806623744	10.62
5NA758E1TB21	4039806858986	10.59
5NA758E1TB22	4039806859006	10.59
5NA758E1TS0108	4039806623713	10.63
5NA758E1TS0208	4039806623706	10.63
5NA758E1TS21	4039806859020	10.60
5NA758E1TS22	4039806859044	10.60
5NA77901VE0	4050737016016	11.26, 11.27
5NA77921VR0	4039806848482	10.36, 10.41, 11.26, 11.27
5NA77921VR11	4039806848505	10.36, 10.41
5NA9000R	4039806555793	12.54, 12.56
5NA90011LB100R	4039806420176	12.54
5NA90011LE100R	4039806420183	12.54
5NA90011LS100R	4039806420190	12.54
5NA90011MB100R	4039806205575	12.54
5NA90011ME100R	4039806205599	12.54
5NA90011MS100R	4039806205612	12.54
5NA90011PB100R	4039806205643	12.54
5NA90011PE100R	4039806205667	12.54
5NA90011PS100R	4039806205681	12.54
5NA95011NA100	4039806205698	12.55
5NA95011NS100	4039806205704	12.55
5NA95011PA100	4039806205711	12.55
5NA95011PS100	4039806205728	12.55
5NJ14301XC	4039806180933	10.32, 10.38, 10.39, 10.40
5NJ300000	4039806213259	10.34, 10.35, 10.38, 10.39, 10.40
5NJ30000T	4039806213686	10.36, 10.40
5NJ30000XB	4039806623546	10.34, 10.35, 10.36, 10.40
5NJ311000	4039806209788	10.32, 10.38, 10.39
5NJ316000	4039806209801	10.33
5NJ331000	4039806210432	10.34, 10.36, 10.38, 10.39
5NJ332000	4039806210456	10.34, 10.36, 10.38, 10.39
5NJ333000	4039806225474	10.35, 10.38, 10.39
5NJ60031AN	4039806526274	10.36
5NJ60031DN	4039806526090	10.32, 10.34, 10.35
5NJ60031EN	4039806525819	10.32, 10.33, 10.34, 10.35
5NJ60031EN03	4039806539335	10.39
5NJ60031ENT	4039806539342	10.38
5NJ60031FN	4039806523952	10.34, 10.35
5NJ60031FN03	4039806555816	10.39
5NJ60031FNA	4039806526281	10.32, 10.33
5NJ60031FNT	4039806539427	10.38
5NJ63731KNH	4039806555953	10.37
5NJ63731LNH	4039806555960	10.37
5NW13991KA	4039806449610	11.13
5NW13991KB	4039806449627	11.13
5NW13991KC	4039806449634	11.13
5NW13991QA	4039806449641	11.12
5NW13991QB	4039806449658	11.12
5NW13991QC	4039806449665	11.12
5NW13993KA	4039806449733	11.13
5NW13993KB	4039806449740	11.13

Order no. Siteco	Order no. OSRAM	Page
5NW13993KC	4039806449757	11.13
5NW13993QA	4039806449764	11.12
5NW13993QB	4039806449771	11.12
5NW13993QC	4039806449788	11.12
5NW14091QA	4039806588555	11.14
5NW14091QB	4039806588562	11.14
5NW14091QC	4039806588586	11.14
5NW14093QA	4039806568441	11.14
5NW14093QB	4039806568465	11.14
5NW14093QC	4039806568489	11.14
5NW41421RG1	4039806371393	11.24, 12.40
5NW41421RS2	4039806371409	12.40
5NW41421TG1	4039806371416	11.24, 12.40
5NW41421TS2	4039806371423	12.40
5NW72640QA	4039806270238	11.16
5NW72640QB	4039806270252	11.16
5NW72640QC	4039806265135	11.16
5NW92640A	4039806257512	11.17
5NW92640B	4039806257796	11.17
5NW92640C	4039806257819	11.17
5NX610003	4050737460147	10.9, 10.10, 10.11, 10.12, 10.13
5NX611D1A2E	4050737465487	10.9
5NX611D2A4E	4050737466750	10.10
5NX612D1A2E	4050737465500	10.9
5NX612D2A4E	4050737466712	10.10
5NX613D1A2E	4050737466736	10.11
5NX613D2A4E	4050737463698	10.12
5NX72200XGS1	4039806583246	12.34, 12.36
5NX72200XGS2	4039806591081	12.34, 12.36
5NX72200XGS3	4039806583833	12.34, 12.36, 12.36
5NX722E1HB08	4039806436238	12.34
5NX722E1HS08	4039806436252	12.34
5NX722E1MB08	4039806436276	11.20, 12.34
5NX722E1MS08	4039806436290	12.34
5NX72400XB01	4039806223500	11.22, 12.34, 12.36
5NX72400XG0208	4039806216922	12.34, 12.36
5NX72400XG0308	4039806216939	12.34, 12.36
5NX72400XG0408	4039806216946	12.34, 12.36
5NX72400XG18	4039806377012	12.38
5NX72400XG4208	4039806216953	12.34, 12.36
5NX72400XGD2	4039806591104	12.34, 12.36
5NX72400XGD3	4039806591128	12.34, 12.36
5NX72400XGD4	4039806591142	12.34, 12.36
5NX72400XGD5	4039806591166	12.34, 12.36
5NX72400XGD6	4039806591180	12.34, 12.36
5NX72400XGS1	4039806583260	12.36
5NX72400XGS2	4039806591203	12.36
5NX724E1MB08	4039806258687	11.21, 12.35
5NX724E1MS08	4039806258700	12.35
5NX724E1PB08	4039806258724	11.21, 12.35
5NX724E1PS08	4039806265258	12.35
5NX76121V	4039806190024	10.44
5NX76721V	4039806175472	10.45
5NX90000XG00	4039806241092	12.54, 12.56, 12.56
5NX90000XG00R	4039806223005	12.54, 12.56
5NX90000XG01	4039806374011	12.50, 12.56, 12.56
5NX90000XG02	4039806207418	12.50, 12.54, 12.56
5NX90000XG03	4039806210371	12.50, 12.54, 12.56
5NX90000XG04	4039806207425	12.50, 12.54, 12.56
5NX90000XG42	4039806207432	12.50, 12.54, 12.56
5NX95000XG00	4039806241108	12.55, 12.57
5NX95000XG00R	4039806223012	12.55, 12.57
5NX95000XG01	4039806374028	12.57
5NX95000XG02	4039806207418	12.55, 12.57
5NX95000XG03	4039806210371	12.55, 12.57
5NX95000XG04	4039806207425	12.55, 12.57
5NX95000XG42	4039806207432	12.55, 12.57

Order no. Siteco	Order no. OSRAM	Page
5NY70005XK	4039806853189	12.64
5NY70012XK	4039806199973	12.67, 12.68, 12.69, 12.70, 12.71, 12.73, 12.74, 12.75, 12.76, 12.77, 12.78, 12.79, 12.80, 12.81, 12.82, 12.83
5NY72400XE10	4039806189196	12.38
5NY72400XM18	4039806088772	12.37
5NY72400XR	4039806255617	12.37
5NY72400XS2	4039806073617	12.37
5NY72400XW18	4039806088758	11.22, 12.38
5NY72402XT10	4039806077233	12.38
5NY75701XW2108	4039806455413	10.52, 10.56, 10.58, 10.64
5NY75801XW21	4039806856944	10.53, 10.56, 10.59, 10.60, 10.64
5TR10150H	4039806496157	8.7, 8.39
5TR10150Q	4039806496164	8.7, 8.39
5TR101A0H	4039806496195	8.7, 8.39
5TR101A0Q	4039806496201	8.7, 8.39
5TR10250H	4039806496256	8.7, 8.39
5TR10250Q	4039806496263	8.7, 8.39
5TR102A0H	4039806496294	8.7, 8.39
5TR102A0Q	4039806496300	8.7, 8.39
5TR10350H	4039806496355	8.7, 8.39
5TR10350Q	4039806496362	8.7, 8.39
5TR103A0H	4039806496393	8.7, 8.39
5TR103A0Q	4039806496409	8.7, 8.39
5TR14501RR	4050737039862	8.65, 8.66
5TR14501UR	4050737039886	8.65, 8.66
5TR14502RR	4050737039916	8.65, 8.66
5TR14502UR	4050737039923	8.65, 8.66
5TR14510XD	4050737049557	8.65, 8.66
5TR14512U	4050737040912	8.65
5TR14512US	4050737039947	8.65
5TR14512X	4050737039961	8.65
5TR14512XS	4050737040936	8.65
5TR14601RR1	4050737040011	8.71, 8.72
5TR14601UR1	4050737040042	8.71, 8.72
5TR14912R	4050737040059	8.71
5TR14912U	4050737040073	8.71
5TR16150H	4039806557070	8.7, 8.39
5TR16150Q	4039806557094	8.7, 8.39
5TR161A0H	4039806557155	8.7, 8.39
5TR161A0Q	4039806557179	8.7, 8.39
5TR16250H	4039806557278	8.7, 8.39
5TR16250Q	4039806557292	8.7, 8.39
5TR162A0H	4039806557353	8.7, 8.39
5TR162A0Q	4039806557377	8.7, 8.39
5TR16350H	4039806557476	8.7, 8.39
5TR16350Q	4039806557490	8.7, 8.39
5TR163A0H	4039806557551	8.7, 8.39
5TR163A0Q	4039806557575	8.7, 8.39
5TR201D1T	4050737482583	8.12
5TR201D2T	4050737482941	8.12
5TR202D1T	4050737482828	8.13
5TR202D2T	4050737482842	8.13
5TR203D1T	4050737482965	8.11
5TR203D2T	4050737482989	8.11
5TR204D1T	4050737483009	8.14
5TR204D2T	4050737483160	8.14
5TR209D1T	4050737483405	8.15
5TR209D2T	4050737483023	8.15
5TR261D1T	4050737483047	8.12
5TR261D2T	4050737483061	8.12
5TR262D1T	4050737482866	8.13
5TR262D2T	4050737483085	8.13
5TR263D1T	4050737483108	8.11
5TR263D2T	4050737483122	8.11
5TR264D1T	4050737483146	8.14

Order no. Siteco	Order no. OSRAM	Page
5TR264D2T	4050737482903	8.14
5TR269D1T	4050737482880	8.15
5TR269D2T	4050737482927	8.15
5TR30000H	4039806557599	8.10, 8.42
5TR30000Q	4039806557612	8.10, 8.42
5TR30161H	4039806557636	8.43
5TR30161Q	4039806557643	8.43
5TR30162H	4039806557650	8.43
5TR30162Q	4039806557667	8.43
5TR30171H	4039806505101	8.43
5TR30171Q	4039806505118	8.43
5TR30172H	4039806505125	8.43
5TR30172Q	4039806505132	8.43
5TR301D1H	4039806557698	8.43
5TR301D1Q	4039806557704	8.43
5TR301D2H	4039806557711	8.43
5TR301D2Q	4039806557728	8.43
5TR30200Q	4039806557735	8.10, 8.42
5TR30361H	4039806582652	8.45
5TR30361H1H	4039806557742	8.51
5TR30361Q	4039806582690	8.45
5TR30361Q1H	4039806557773	8.51
5TR30362H	4039806582720	8.45
5TR30362Q	4039806582768	8.45
5TR30362Q1H	4039806557827	8.51
5TR30371H	4039806576033	8.45
5TR30371H1H	4039806505149	8.51
5TR30371HR	4039806505163	8.47
5TR30371Q	4039806576057	8.45
5TR30371Q1H	4039806505170	8.51
5TR30371QR	4039806505187	8.47
5TR30372H	4039806576071	8.45
5TR30372HR	4039806505217	8.47
5TR30372Q	4039806576095	8.45
5TR30372Q1H	4039806505224	8.51
5TR30372QR	4039806505231	8.47
5TR303D1H	4039806582799	8.45
5TR303D1H1H	4039806557841	8.51
5TR303D1HR	4039806557865	8.47
5TR303D1Q	4039806583383	8.45
5TR303D1Q1H	4039806557872	8.51
5TR303D1QR	4039806557889	8.47
5TR303D2H	4039806583390	8.45
5TR303D2HR	4039806557919	8.47
5TR303D2Q	4039806583406	8.45
5TR303D2Q1H	4039806557926	8.51
5TR303D2QR	4039806557933	8.47
5TR3050AY	4050737523316	8.30, 8.32, 8.96, 8.98, 13.13, 13.83
5TR3050SBH	4050737056333	8.27, 8.93, 13.79
5TR3050SBHR	4050737056722	8.27, 8.28, 8.93, 8.94, 13.79
5TR3050SBL	4050737056746	8.26, 8.92, 13.79
5TR3050MBH	4050737056760	8.27, 8.28, 8.93, 8.94
5TR3050MBL	4050737056784	8.26, 8.92
5TR30600	4039806582287	8.10, 8.42
5TR30700B	4039806570888	8.10, 8.42
5TR30700H	4039806573353	8.10, 8.42
5TR30871Q	4050737100982	8.49
5TR30871QR	4050737101200	8.50
5TR30872Q	4050737101224	8.49
5TR30872QR	4050737101248	8.50
5TR32A71KD2N	4006584739424	8.21, 8.80
5TR32A71KD3M	4006584740567	8.21, 8.80
5TR32A71MD2N	4006584738601	8.21, 8.80
5TR32A71MD3M	4006584738588	8.21, 8.80
5TR32A77VL2N8E	4006584740147	8.17, 8.76
5TR32A77VL2N9E	4006584747757	8.18, 8.77

Order no. Siteco	Order no. OSRAM	Page
5TR32A77VL3M8E	4006584740123	8.17, 8.76
5TR32A77VL3M9E	4006584747733	8.18, 8.77
5TR32B71KD2N	4006584740604	8.22, 8.81
5TR32B71KD3M	4006584740482	8.22, 8.81
5TR32B71MD2N	4006584738502	8.22, 8.81
5TR32B71MD3M	4006584738526	8.22, 8.81
5TR32B77VL2N8E	4006584740048	8.19, 8.78
5TR32B77VL2N9E	4006584747856	8.20, 8.79
5TR32B77VL3M8E	4006584740024	8.19, 8.78
5TR32B77VL3M9E	4006584747832	8.20, 8.79
5TR36000H	4039806557940	8.10, 8.42
5TR36000Q	4039806557957	8.10, 8.42
5TR36161H	4039806582836	8.44
5TR36161Q	4039806582447	8.44
5TR36162H	4039806582850	8.44
5TR36162Q	4039806582300	8.44
5TR36171H	4039806557964	8.44
5TR36171Q	4039806557971	8.44
5TR36172H	4039806557988	8.44
5TR36172Q	4039806557995	8.44
5TR361D1H	4039806558008	8.44
5TR361D1Q	4039806583413	8.44
5TR361D2H	4039806583420	8.44
5TR361D2Q	4039806583437	8.44
5TR36200Q	4039806558015	8.10, 8.42
5TR36361H	4039806582874	8.46
5TR36361H1H	4039806582898	8.52
5TR36361Q	4039806582935	8.46
5TR36361Q1H	4039806582959	8.52
5TR36362H	4039806582973	8.46
5TR36362Q	4039806583031	8.46
5TR36362Q1H	4039806583055	8.52
5TR36371H	4039806576125	8.46
5TR36371H1H	4039806558022	8.52
5TR36371HR	4039806558046	8.48
5TR36371Q	4039806576361	8.46
5TR36371Q1H	4039806558053	8.52
5TR36371QR	4039806558060	8.48
5TR36372H	4039806576408	8.46
5TR36372HR	4039806558091	8.48
5TR36372Q	4039806576453	8.46
5TR36372Q1H	4039806558107	8.52
5TR36372QR	4039806558114	8.48
5TR363D1H	4039806583444	8.46
5TR363D1H1H	4039806583451	8.52
5TR363D1HR	4039806583475	8.48
5TR363D1Q	4039806583482	8.46
5TR363D1Q1H	4039806583499	8.52
5TR363D1QR	4039806583505	8.48
5TR363D2H	4039806583512	8.46
5TR363D2HR	4039806583543	8.48
5TR363D2Q	4039806583550	8.46
5TR363D2Q1H	4039806583567	8.52
5TR363D2QR	4039806583574	8.48
5TR3650AY	4050737619743	8.30, 8.32, 8.96, 8.98, 13.13, 13.83
5TR3650SBL	4050737054186	8.26, 8.92, 13.79
5TR3650MBL	4050737056807	8.26, 8.92
5TR36600	4039806582324	8.10, 8.42
5TR36700B	4039806570901	8.10, 8.42
5TR36700H	4039806570925	8.10, 8.42
5TR36871Q	4050737101262	8.49
5TR36871QR	4050737101286	8.50
5TR36872Q	4050737101309	8.49
5TR36872QR	4050737101323	8.50
5TR50082H	4039806582522	8.67, 8.68, 8.69, 8.70
5TR50082Q	4039806592132	8.67, 8.68, 8.69, 8.70



Order no. Siteco	Order no. OSRAM	Page	Order no. Siteco	Order no. OSRAM	Page
5TR50120H	4039806505248	8.69	5TR90579	4039806851420	8.62, 8.63, 8.64
5TR50120Q	4039806505255	8.69	5TR90580H	4039806019073	8.62, 8.63, 8.64
5TR50140H	4039806505262	8.74	5TR90580Q	4039806805454	8.62, 8.63, 8.64
5TR50140Q	4039806505279	8.74	5TR9066	4039806546944	8.54, 8.55, 8.56
5TR56120H	4039806505309	8.68	5TR9067	4039806558220	8.54, 8.55, 8.56
5TR56120Q	4039806505316	8.68	5TR90675	4039806558237	8.54, 8.56
5TR56140H	4039806505323	8.73	5TR90911	4039806810458	8.9, 8.41, 8.107
5TR56140Q	4039806505330	8.73	5TR90912	4039806589873	8.9, 8.41, 8.107
5TR56290H	4039806805416	8.63	5TR9092AH	4039806590077	8.8, 8.40
5TR56290Q	4039806805430	8.63	5TR9092AQ	4039806577337	8.8, 8.40
5TR56320H	4039806909169	8.67	5TR90941	4039806844415	8.44, 8.46, 8.48, 8.49, 8.52, 8.53
5TR56320Q	4039806909183	8.67	5TR90942	4039806844439	8.44, 8.46, 8.48, 8.49, 8.52, 8.53
5TR56490H	4039806018991	8.62	5TR961101	4039806571120	8.9, 8.41
5TR56490Q	4039806019011	8.62	5TR961312	4039806558244	8.33, 8.99, 8.119
5TR58110H	4050737015873	8.60	5TR961332	4039806558251	8.33, 8.99, 8.119
5TR58110Q	4050737015897	8.60	5TR96171	4039806571144	8.8, 8.40
5TR58130H	4050737015927	8.58	5TR96172	4039806571168	8.8, 8.40
5TR58130Q	4050737015934	8.58	5TR96173	4039806571182	8.8, 8.40
5TR58310Q	4050737015958	8.59	5TR96912	4039806589897	8.9, 8.41, 8.107
5TR58330Q	4050737015972	8.57	5TR9692AH	4039806590084	8.8, 8.40
5TR61120H	4050737037622	8.55	5TR9692AQ	4039806573230	8.8, 8.40
5TR61120Q	4050737037646	8.55	5TS10150Q	4039806857767	8.105
5TR61150H	4050737037660	8.54	5TS101A0Q	4039806907042	8.105
5TR61150Q	4050737037684	8.54	5TS10250Q	4039806857804	8.105
5TR76000Q	4039806579287	8.87, 8.88	5TS102A0Q	4039806907066	8.105
5TR77564Q	4050737001371	8.85	5TS10350Q	4039806858245	8.105
5TR77574Q	4050737012018	8.85	5TS103A0Q	4039806907080	8.105
5TR77574W	4050737001395	8.85	5TS30000A	4050737067216	8.107
5TR77574X	4050737001432	8.85	5TS30000B	4050737067230	8.107
5TR77574X2	4050737001487	8.85	5TS30000Q	4039806859235	8.107
5TR775D4Q	4050737001494	8.85	5TS30171Q	4039806860361	8.108
5TR77664Q	4050737001517	8.87	5TS30172Q	4039806860385	8.108
5TR77674W	4050737001548	8.87	5TS30271Q	4050737072647	8.116
5TR77674X	4050737001579	8.87	5TS30272Q	4050737072678	8.116
5TR77674X2	4050737001616	8.87	5TS30471Q	4050737073026	8.116
5TR776D4Q	4050737001630	8.87	5TS40171Q	4039806861900	8.109
5TR77864Q	4050737001661	8.86	5TS40172Q	4039806861917	8.109
5TR77874W	4050737001678	8.86	5TS40271Q	4050737072159	8.116
5TR77874X	4050737001722	8.86	5TS40272Q	4050737073057	8.116
5TR77874X2	4050737001753	8.86	5TS40471Q	4050737073064	8.116
5TR778D4Q	4050737001777	8.86	5TS48271Q	4050737073118	8.115
5TR901101	4039806571045	8.9, 8.41	5TS48272Q	4050737073125	8.115
5TR9012	4039806505347	8.34, 8.100, 8.120	5TS48471Q	4050737073163	8.115
5TR90121Q1	4050737099958	8.41, 8.49, 8.53	5TS50082Q	4039806861559	8.110, 8.111, 8.112
5TR90121Q2	4050737099972	8.41, 8.49, 8.53	5TS58120Q	4050737015996	8.111
5TR90121Q3	4050737099996	8.41, 8.49, 8.53	5TS58130Q	4050737019277	8.114
5TR901302	4039806505354	8.33, 8.99, 8.119	5TS58320Q	4050737017303	8.110
5TR901312	4039806505361	8.33, 8.99, 8.119	5TS58330Q	4050737017327	8.113
5TR901322	4039806505378	8.33, 8.99, 8.119	5TS9016	4039806858542	8.106
5TR901332	4039806545855	8.33, 8.99, 8.119	5TS9017	4039806861573	8.106
5TR901342	4050737029030	8.34, 8.100, 8.120	5TS90562	4039806858573	8.110, 8.111, 8.112
5TR90142	4039806558206	8.33, 8.99, 8.119	5TS90572	4039806907103	8.110, 8.111, 8.112
5TR9016	4039806546630	8.9, 8.16, 8.41	5TS9092AQ	4039806858191	8.106
5TR90171	4039806571069	8.8, 8.40	5XA52817NA28	4050737013473	12.68
5TR90172	4039806571083	8.8, 8.40	5XA52817NA58	4050737013480	12.70
5TR90173	4039806571106	8.8, 8.40	5XA52817NS28	4050737013497	12.67
5TR9026	4050737526669	8.9, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16	5XA52817NS58	4050737013503	12.69
5TR9027	4050737567945	8.11, 8.12, 8.13, 8.14, 8.15, 8.16	5XA52817WA28	4050737013510	12.68
5TR90540H	4039806857491	8.62, 8.63, 8.64	5XA52817WA58	4050737013527	12.70
5TR90540Q	4039806857613	8.62, 8.63, 8.64	5XA52817WS28	4050737013534	12.67
5TR90561	4039806546715	8.59, 8.60, 8.61	5XA52817WS58	4050737013541	12.69
5TR90562	4039806546654	8.67, 8.68, 8.69, 8.70	5XA52818NA28	4050737026404	12.68
5TR90564	4039806546739	8.73, 8.74, 8.75	5XA52818NA58	4050737026411	12.70
5TR905642	4039806019042	8.62, 8.63, 8.64	5XA52818NS28	4050737026428	12.67
5TR90570	4039806907028	8.59, 8.60, 8.61, 8.67, 8.68, 8.69, 8.70, 8.73, 8.74, 8.75	5XA52818NS58	4050737026435	12.69
			5XA52818WA28	4050737026442	12.68
			5XA52818WA58	4050737026459	12.70



Order no. Siteco	Order no. OSRAM	Page
5XA52818WS28	4050737026466	12.67
5XA52818WS58	4050737026473	12.69
5XA52819NA28	4050737026480	12.68
5XA52819NA58	4050737026497	12.70
5XA52819NS28	4050737026503	12.67
5XA52819NS58	4050737026510	12.69
5XA52819WA28	4050737026527	12.68
5XA52819WA58	4050737026534	12.70
5XA52819WS28	4050737026541	12.67
5XA52819WS58	4050737026558	12.69
5XA52917NA28	4050737013558	12.74
5XA52917NA58	4050737013565	12.76
5XA52917NA58D	4050737013572	12.78
5XA52917NS28	4050737013589	12.73
5XA52917NS58	4050737013596	12.75
5XA52917NS58D	4050737013602	12.77
5XA52917WA28	4050737013619	12.74
5XA52917WA58	4050737013626	12.76
5XA52917WA58D	4050737013633	12.78
5XA52917WS28	4050737013640	12.73
5XA52917WS58	4050737013657	12.75
5XA52917WS58D	4050737013664	12.77
5XA52918NA28	4050737026565	12.74
5XA52918NA58	4050737026572	12.76
5XA52918NA58D	4050737026589	12.78
5XA52918NS28	4050737026596	12.73
5XA52918NS58	4050737026602	12.75
5XA52918NS58D	4050737026619	12.77
5XA52918WA28	4050737026626	12.74
5XA52918WA58	4050737026633	12.76
5XA52918WA58D	4050737026640	12.78
5XA52918WS28	4050737026657	12.73
5XA52918WS58	4050737026664	12.75
5XA52918WS58D	4050737026671	12.77
5XA52919NA28	4050737026688	12.74
5XA52919NA58	4050737026695	12.76
5XA52919NA58D	4050737026701	12.78
5XA52919NS28	4050737026718	12.73
5XA52919NS58	4050737026725	12.75
5XA52919NS58D	4050737026732	12.77
5XA52919WA28	4050737026749	12.74
5XA52919WA58	4050737026756	12.76
5XA52919WA58D	4050737026763	12.78
5XA52919WS28	4050737026770	12.73
5XA52919WS58	4050737026787	12.75
5XA52919WS58D	4050737026794	12.77
5XA7507BNT208	4050737017815	10.53
5XA75700XG08	4050737042442	10.56
5XA7577LNA008	4050737012742	10.54
5XA7577LNA208	4050737012766	10.52
5XA75800XG08	4050737040134	10.56
5XA7587BNT008	4050737019666	10.55
5XA7621E1D00	4050737470580	10.48
5XA7621E2D00	4050737583020	10.49
5XA7641E2D00	4050737583044	10.50
5XR2461A1A1S	4050737100012	1.5
5XR2461A1A1W	4050737100029	1.6
5XR2461A1A2S	4050737100036	1.5
5XR2461A1A2W	4050737100043	1.6
5XR2462A1A1S	4050737100050	1.5
5XR2462A1A1W	4050737100104	1.6
5XR2462A1A2S	4050737100074	1.5
5XR2462A1A2W	4050737100081	1.6
0FA900010L	4050300125602	7.42, 7.44
0FA900060L	4050300125626	7.42, 7.44
0FA900100L	4050300125640	7.42, 7.44
OLN111001B	4008321079886	7.10

Order no. Siteco	Order no. OSRAM	Page
OLN111001H	4008321080424	7.10
OLN111001L	4008321079909	7.10
OLN111001Q	4008321080448	7.10
OLN91301	4050300792200	7.10, 7.11, 7.14
OME91500L	4008321972842	6.58, 7.48

## 11 General business conditions

The general business conditions of Siteco Beleuchtungstechnik GmbH are specified at **[www.siteco.com/order-and-sales-conditions](http://www.siteco.com/order-and-sales-conditions)**

## 12 Guarantee declarations

The guarantee regulations for OSRAM products are specified at **[www.osram.com/guarantee](http://www.osram.com/guarantee)**

The guarantee declarations for LED components in Siteco® luminaires are specified at **[www.siteco.com/guarantee](http://www.siteco.com/guarantee)**

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