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Light is creativity

Flexible LED system solutions

Light is OSRAM

OSRAM

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Your visions, your challenges, our solutions

Combine your creativity with our technology and turn your ideas into reality.

What do you need for a successful lighting project? On the one hand, a lot of it depends on experience and creativity. Step by step, various ideas are put together and shaped into a clear concept. On the other hand, you also have to be a good observer and have to identify the typical challenges of a project in order to avoid bad surprises.

This is where OSRAM comes into play. With a comprehensive portfolio for a wide variety of lighting applications, OSRAM is the perfect partner for helping you rise to any challenge. We support you in determining your special requirements and ensure that you have all the components you need. Moreover, you can rest assured that you will always receive a perfectly matched system.

Our LINEARlight FLEX® range for linear and area applications is a prime example for our versatility. As a one-stop shop for flexible lighting solutions, we are able to offer a premium selection of different LED modules, profiles, accessories, LED drivers and light management systems.

Enter a new level of flexibility in lighting design! Let’s take up the next challenge!

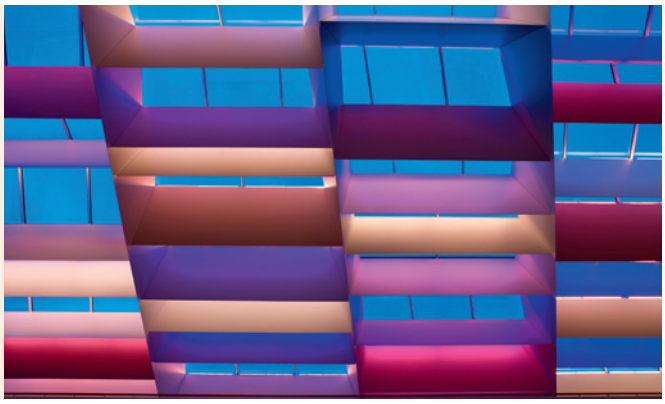
中庭酒吧
ATRIUM BAR

The right quality of light for all your needs

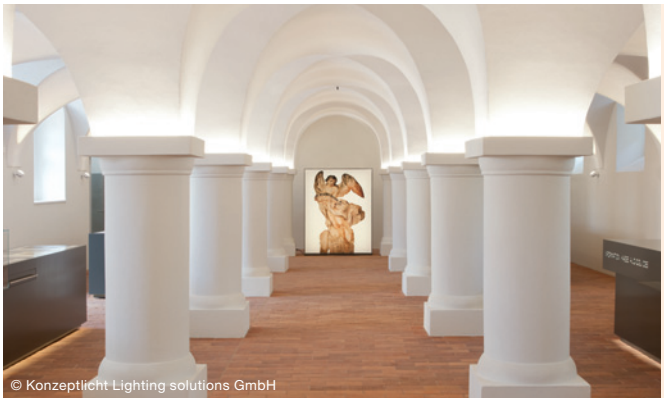
OSRAM is well known all over the world for its excellent quality of light. In addition, OSRAM helps you to meet your individual requirements by offering one of the largest product portfolios of modern lighting. Discover the exceptional variety of our flexible LED strips and choose from a wide selection of white and colored LEDs, various CCTs and high CRIs for brilliant and realistic color rendering, several flux packages and wattage scales as well as different lengths and densities of light points on the strip.

RGB
Create amazing atmospheres and attractive decorative effects with brilliant and vivid colors.

RGBW
With RGBW technology, you get brilliant colors, pastel tones and whites with the same product. The mix of colors and white allows you to create all shades of color perceived by the human eye.

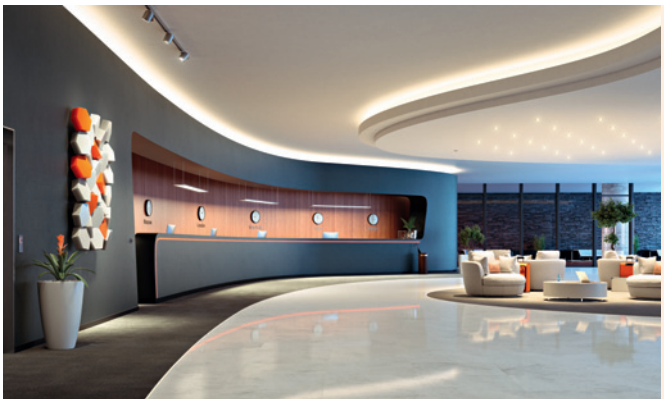


MONOCHROME
These LED strips are the ideal choice for your decorative lighting applications. Their brilliant colors, high light quality and color consistency enable spectacular and impressive lighting design.



WHITE

Choose the right color temperature for your application and change the perception of space through light, creating comfortable environments with a wide range of CCTs from 2,200 K to 6,500 K.



TUNABLE WHITE

Light and its change during the day influence our well-being and the quality of our work. Dynamic white provides the basis for the intelligent adjustment of the color temperature during the day, simulating the course of natural daylight with CCTs from 2,700 K to 6,500 K.

TUNABLE WARM WHITE

The warm light helps to achieve a relaxing and pleasant atmosphere. Provide comfortable and welcoming environments by changing the color temperature from 2,200 K to 3,500 K according to your needs.

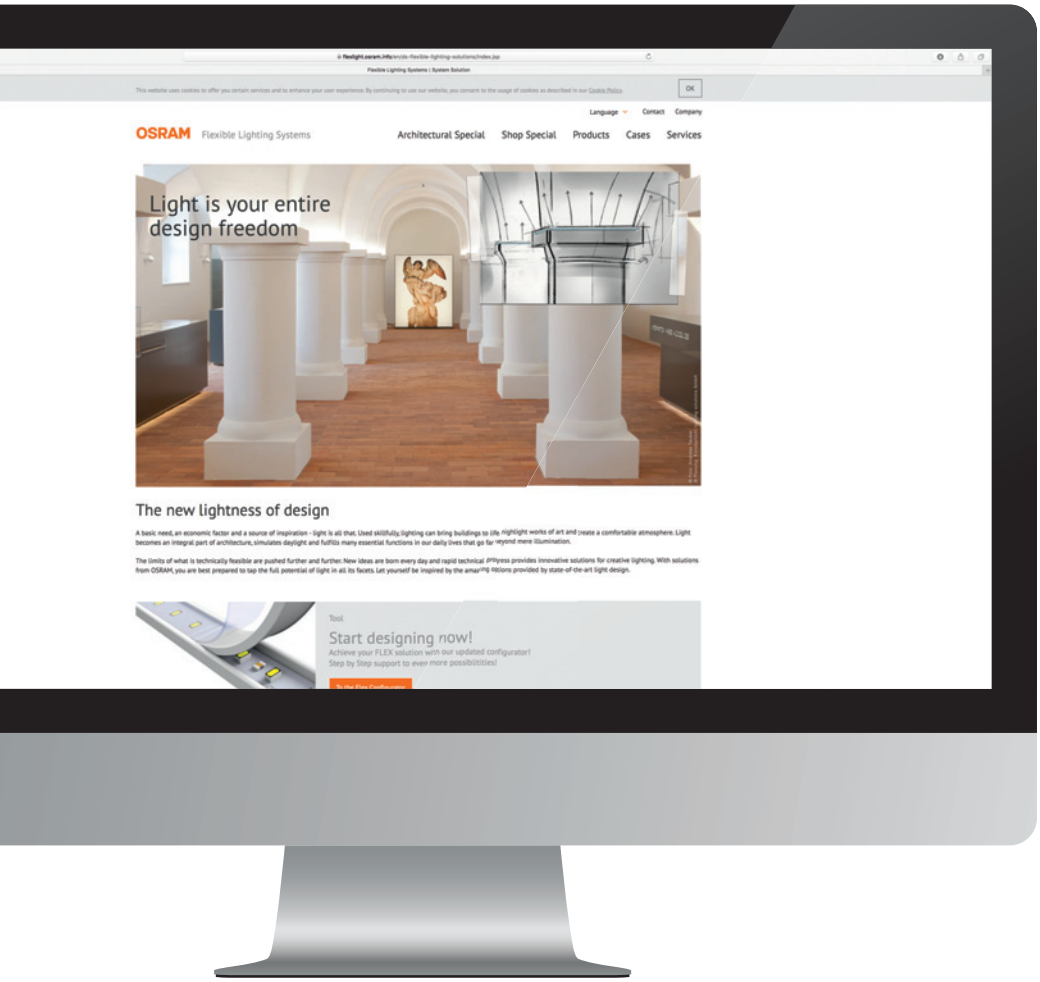
Information, inspiration and free tools

For flexible lighting systems, OSRAM offers a dedicated website with valuable information and helpful online tools. Start your project at www.osram.com/flex!

Visit our website
On our website, you do not only get fresh ideas for your projects, but also find help for your daily work. Use our extensive know-how and modern planning tools to better consult and support your customers with the latest technologies.

The website leads you directly to the latest news and product information regarding flexible LED strips, backlighting LED modules as well as suitable OSRAM LED drivers, accessories and light management systems. In addition, the website also offers special topics, impressive case studies and convenient online tools.

Find your flexible lighting solution:
www.osram.com/flex

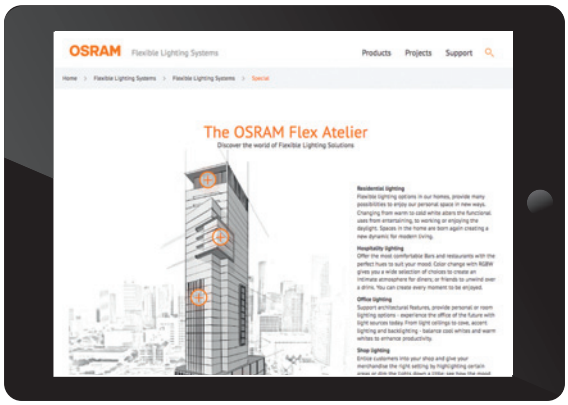


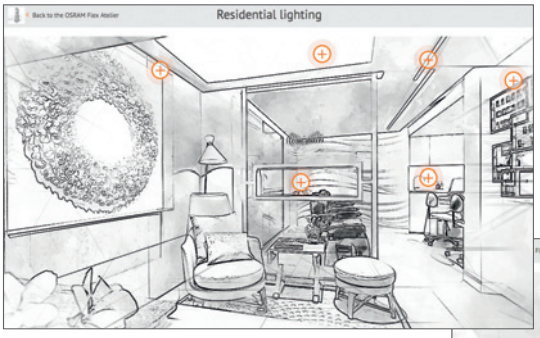
The OSRAM Flex Atelier

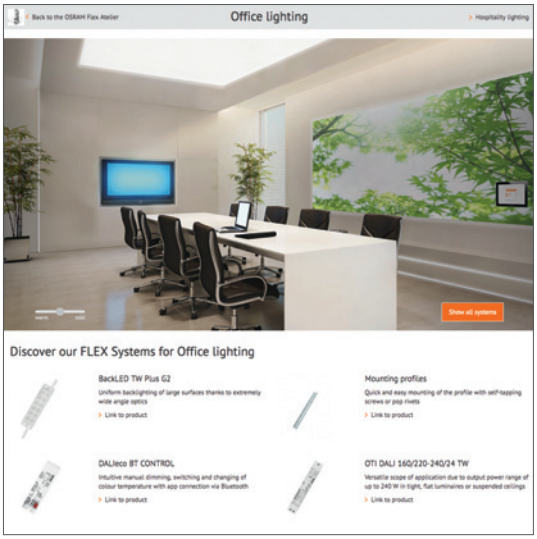
Discover the fascinating world of flexible lighting solutions. Our virtual Flex Atelier presents a wide variety of different options for residential, hospitality, office and shop lighting. Providing a quick overview of an application area, it shows all the possibilities you have to create the right atmosphere for a specific application – from color changes in bars and restaurants to highlighting certain products and shelves in shop lighting.

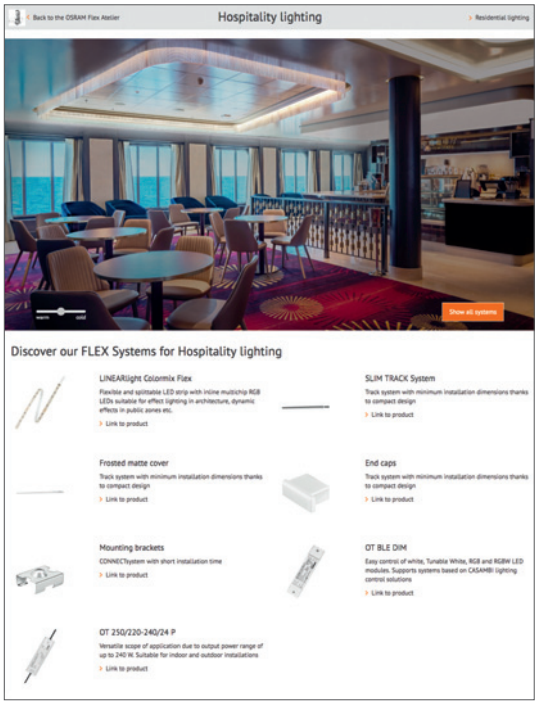
By clicking the marked spots, you see the system components for the application, including LED modules, drivers, lighting control and accessories. In addition, you can switch the light from cool to warm white to change the mood.

Get inspired now:
www.osram.com/flex-atelier









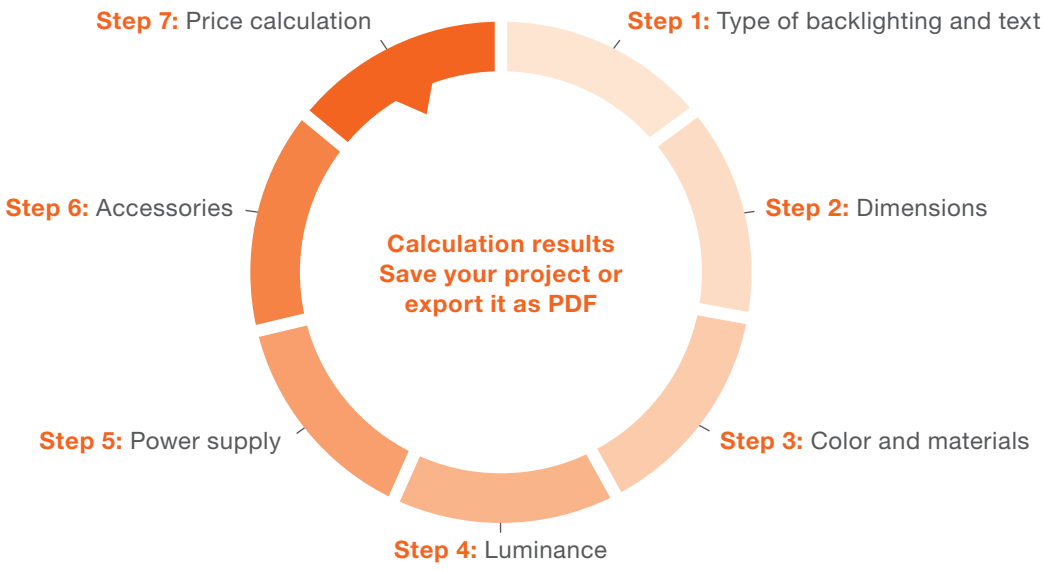
From easy calculation to flexible design

As a system provider, OSRAM supports you from start to finish. With our calculation and configuration tools, you can find the right products for your projects in the most convenient way. Whatever you have in mind, you are just a few clicks away from the perfect solution. This support helps you to increase efficiency and flexibility with any kind of lighting system.

LED deSIGNer for area lighting
Use the LED deSIGNer to plan lighting systems for direct and side-emitting backlighting. By entering only some basic data in the online software, the LED deSIGNer automatically calculates the exact number of components of LED modules, ECGs and mounting profiles for a given application. The calculation results can be saved, so you can modify your projects at any time. Moreover, you can profit from corresponding application guides and check lists, which help you to plan your solution down to the last detail.

Calculate now:
www.osram.com/led-designer

Step by step to your individual backlighting solution



Flex Configurator for linear lighting

Get step-by-step support for the design of linear lighting systems with LINEARlight FLEX® LED strips. With just a few clicks and by means of a very simple navigation, our Flex Configurator tool allows you to create the ideal solution for your application in no time at all. Thus, it is possible to configure the entire lighting system, including LED strips, accessories, profiles and LED drivers.

You can choose between pre-assembled LED strips, which are cut to order and assembled by OSRAM, and a kit for self-assembly on site. In case of self-assembly, the LED strips are delivered ready for connection. This makes the installation of state-of-the-art lighting systems as easy, fast and comfortable as possible.

Start designing now:
www.osram.com/flex-configurator

The easy way to your perfectly matched LED system

LED strips

Pre-assembled or self-assembly kit

▼

Indoor or outdoor lighting

▼

General or ambient lighting

▼

Light color

Accessories

Aluminum profile

▼

Diffuser

▼

Connector, end cap

LED drivers

ON/OFF, dimmable

DALI, 1...10 V interface

LED system

DEBEN
DEBENH
HELTER
SKELTER
new
HALF
PRICE
SALE

New trends, new challenges, no problems!

Lighting design is at the forefront of innovation. Not only fulfilling the standard lighting requirements, but being at the leaders of new technologies, educating customers and pushing the boundaries of design. OSRAM can help you to achieve all of these with our innovative products and extensive knowledge. In the following, we show you how some of our products tackle the challenges faced in creating desirable lighting.

© James French

Hidden lighting

Your challenge: Create stunning effects with invisible light sources to meet both functional and aesthetical needs. Hidden indirect lighting is the best way to create an intimate and cozy atmosphere in your room or to enhance architectural details and objects without a visible light source.

Homogeneous light ceilings and lines are elegant means to highlight the overall visual concept of a room without using visible light sources. The light seems to come from the ceilings and the walls in a seamless, unobtrusive and harmonious way.

Our solution: LINEARlight FLEX® LED strips provide maximum freedom of design thanks to their flexibility, size and cuttability. Our portfolio includes a wide variety of LED drivers which can handle multiple wattages and installation lengths, allowing considerable distances to be controlled from a single LED driver.

As harmonious general lighting, for the accentuation of architectural shapes or as a decorative design element: the LINEARlight FLEX® system offers you maximum flexibility – with a wide selection of different LED strips, the corresponding LED drivers and a comprehensive range of profiles and optics.

While LED strips are hidden in light coves or cut-outs of furniture systems, BackLED® modules bathe specific areas in pleasant light.

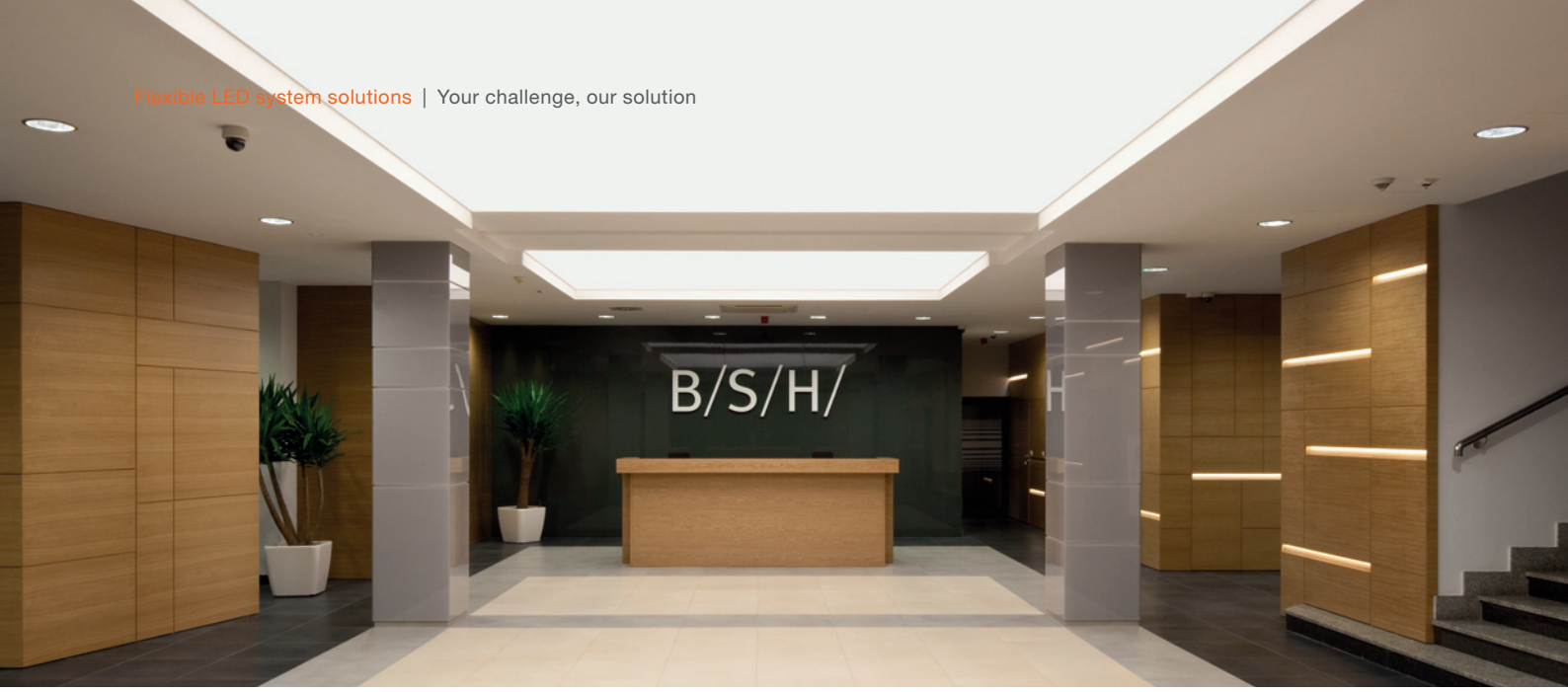
Miniaturization

Your challenge: Apply compact light sources that can be seamlessly integrated into the surrounding architecture to provide amazing accent lighting.

The design of the light should go hand in hand with the architectural project. If space is reduced, the light should help the architecture without upsetting it.

Our solution: OSRAM has a wide range of slim profiles available to give a smaller dimension where required. OSRAM LED strips combined with the slim profile system are the best choice for integrating homogeneous, seamless lines of light into flat surfaces. Thanks to their very compact size, the slim profiles can be easily integrated into confined spaces such as coves, shelves, furniture, closets etc.

The wide range of profile shapes and optics always provides you with the best solution for any type of application.



Create dimensional effects with light

Your challenge: Through a careful lighting design, it is possible to modify visual depth. With the right solution, you can make a ceiling seem higher or a corridor seem less narrow. The light can change the appearance of architectural spaces and adapt them to our visual needs.

Our solution: The BackLED® family enables absolutely uniform luminous areas that seem to open the ceiling so that the room appears higher and airier.

Use LINEARlight FLEX® ShortPitch LED strips to modify the geometry of the room with homogeneous light lines.

© Kempinski Hotel Corvinus Budapest/MKV Design LTD. UK

Layering of light

Your challenge: Combine general, task and accent lighting to create a perfectly balanced light atmosphere that enhances the visual appeal of different rooms and follows consistent treatments throughout different areas.

Our solution: With our innovative area and linear lighting product families and pendant solution, we provide a broad range of options for you to meet today's requirements in terms of lumen and color temperatures. In order to ensure a continuous design across indoor and outdoor applications, OSRAM offers matching CCTs for IP67 and IP00-rated products. Moreover, dimming functions and smart lighting control can be used as a key benefit to get your layers right.

Homogeneous light

Your challenge: Achieve the best possible level of homogeneity to ensure basic lighting needs and illuminate large areas. Homogeneous light is a key element for successful projects.

Our solution: Thanks to a careful selection of LEDs and single bin sourcing, all our products achieve long-lasting homogeneity and constant light output over their entire lifetime. The homogeneous flexible LED strips LINEARlight FLEX® DIFFUSE have been developed for areas where curves and diffuse lighting are required. For more detailed information about our production and quality process, please refer to page 186.

Dynamic lighting

Your challenge: In our daily life, at work as well as at home, light is one of the factors that strongly influence our mood and the results of our activities.

Designing the lighting of a space means creating a relationship between artificial and natural light. In order to ensure maximum comfort, it is essential to factor in how natural light changes over the course of the day and then to support it with the right amount of artificial light.

Our solution: Lighting supports the human well-being with groundbreaking concepts for Human Centric Lighting (HCL), which focus on people and the optimal lighting for their needs. Our Tunable White solutions enable you to adapt indoor lighting according to your needs through a wide range of color temperatures from 2,700 K to 6,500 K. OSRAM has Tunable White system solutions including matching LED drivers.

To create a cozy and comfortable atmosphere in your room, LINEARlight FLEX® Tunable Warm White is the best solution: it allows you to change the color temperature in the range of warm white from 2,200 K to 3,500 K.

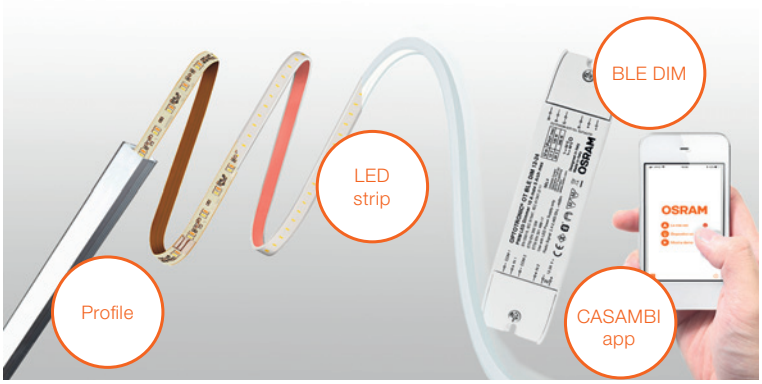
Smart lighting control

Your challenge: Offer your customers wireless lighting solutions that they can easily control via smartphone and tablet. With innovative light management systems, offices and buildings can be illuminated in a more flexible and energy-efficient way. And in meeting rooms or small shops, adequate lighting scenes can be implemented quickly via app. Moreover, the lighting infrastructure can be used as a backbone for innovative IoT solutions.

Our solution: OSRAM offers a Bluetooth® Low Energy (BLE) system. With the new Bluetooth® 12-24 V LED dimmer (OPTOTRONIC® BLE DIM), you can connect your constant-voltage LED strip and link it up with your smartphone or tablet for easy and dynamic control.

Combined with the control app from CASAMBI, no extra cabling or gateway are required, which opens up a wide range of possibilities for renovation projects, e.g. in entertainment areas, restaurants, hotel rooms or retail areas.

The CASAMBI app allows you to control your lighting installation via Bluetooth® Low Energy, which is the only mainstream and future-proof low-power radio technology in the world. The created wireless mesh network always maintains solid and reliable data exchange.



Key features of the CASAMBI app

- Switch on/off, dim, switch to stand-by, recall scenes and start sequences easily
- Adjust CCT and CRI of LINEARlight FLEX® RGBW LED strips (fine white tuning)
- Create time-programmable events such as auto on/off, happy hour, circadian profiles etc.
- Define personalized user profiles with different access rights
- Design the buttons in the app with your own photos
- Activate the included native beacons for instant messaging during retail campaigns

Application overview

With OSRAM, you can easily meet the specific challenges of every application. The lighting is optimally adapted to its environment, e.g. the layout of a room, and all components are tailored to the installation conditions. Thanks to our wide range of products, you can realize your visions with flexible and configurable systems. In the following, we will highlight the most common application areas and show you our solutions for sophisticated lighting design. Discover the amazing options provided by state-of-the-art lighting technology.

Outdoor lighting
Integrated into the architecture, flexible LED strips highlight façades and attract customers from a distance. The robust components resist any kind of weather – UV radiation, rain, wind, cold, heat and dust.

Cove lighting
Hidden light sources provide a harmonious atmosphere in a wide variety of applications and allow for a perfect symbiosis of pleasant ambience and functionality.

General lighting
In layered lighting, three layers of light are combined to create a perfectly balanced light atmosphere. General or ambient lighting is probably the most important part of layered lighting, including linear and area lighting. The main task is to achieve a uniform and shadow-free illumination.

© Martin, W. Maier / martin-w-maier.com

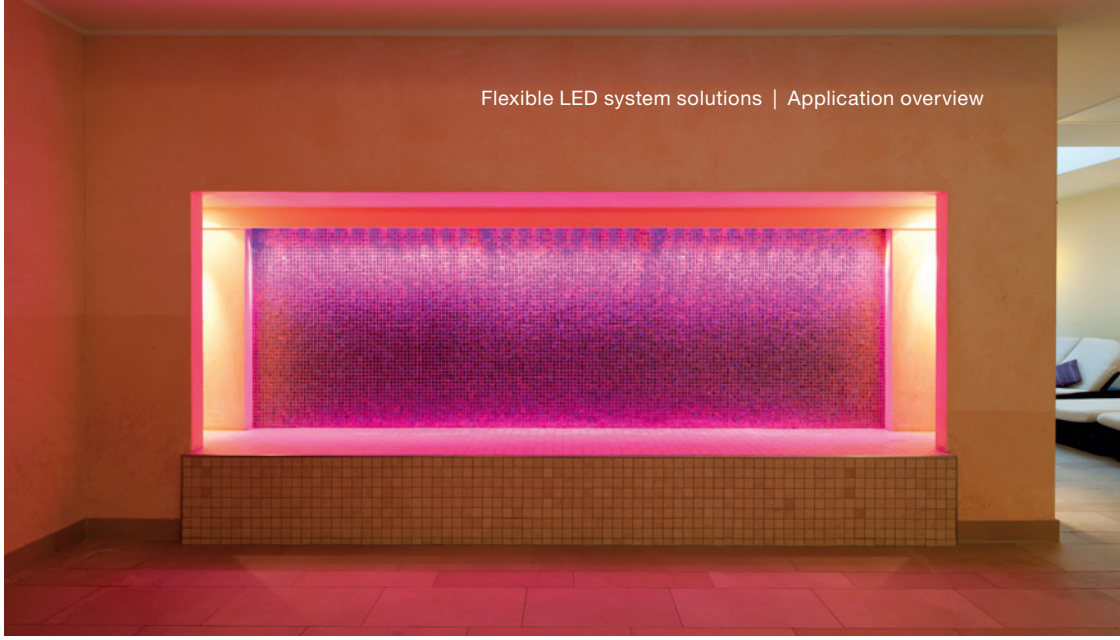
Task lighting
The second element of layered lighting has a work-oriented purpose and uses light sources with high brightness to illuminate specific areas without glare effects.

Accent lighting
Complementing general and task lighting, accent lighting is the third layer of light. It completes the atmosphere with directional light that enhances details and objects with subtle or dramatic lighting effects.

Decorative lighting
Decorative lighting is the jewelry that makes rooms sparkle and shine. It creates a comfortable atmosphere and emphasizes special areas of the room or design objects.

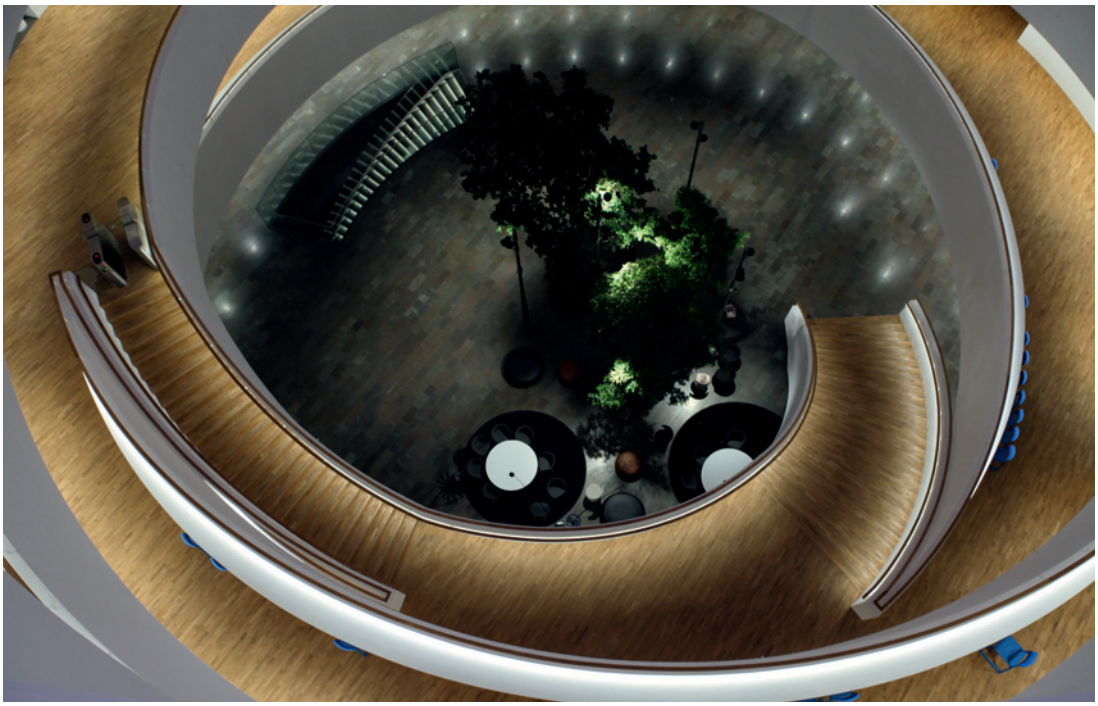
Shelf lighting
Indirect shelf lighting accentuates objects with subtle illumination or enhances the materials and colors of furniture. Moreover, it creates a relaxing and inviting ambience.

Architectural lighting
Innovative lighting in a wide range of colors brings modern architecture to life. Considering the design of a building, the light sources enhance shapes and details in order to provide a spectacular atmosphere.



Wall washing
Impressive wall washing concepts are used to light up a wall uniformly in a smooth wash. Thus, the wall turns into a bright background for objects such as furniture or works of art.

Orientation lighting
LED strips are integrated into architectural structures such as staircases, handrails, walls or floors, both indoors and outdoors. The homogeneous lines of light provide safety with optimal illumination.



APOLLINI MVSISQVE

Outdoor lighting

High performance in any kind of weather

Outdoor lighting requires high-quality systems that ensure optimum operation in any kind of weather. Over the years, components are exposed to UV radiation and challenging weather conditions such as wind, rain, cold, heat and dust. OSRAM high-quality lighting systems provide full performance over many years. They are also ideal to emphasize special architectural characteristics of the building and complex façades with asymmetrical or winding structures.

Case study: Munich National Theater
After a lengthy planning and decision-making phase, new façade lighting for the Munich National Theater was realized with components from OSRAM. The façade used to be illuminated from the outside, but the new lighting system has been integrated almost invisibly into the fabric of the building. It now highlights every architectural detail of the neo-classical building without being obtrusive. All thanks to state-of-the-art LED technology from OSRAM.

The lighting concept makes use of LINEARlight FLEX® Protect Power. These extremely flexible LED strips are only ten millimeters wide, so they can be integrated almost invisibly and therefore meet the requirements for historic buildings but still offer high luminous flux, simple installation and a lifetime of up to 60,000 hours. A total of 170 meters of the LINEARlight FLEX® Protect Power LED strips were installed. Lighting control is handled by efficient, reliable and compact OSRAM LED drivers – for a dimming level of 25 %.

Products
- LINEARlight Power FLEX® Protect – LF06P2
  (successor: LINEARlight FLEX® Protect Power – LFP2000, p. 74)
- OT 240/220-240/24 DIM P (successor: OT 250/220-240/24 DIM P, p. 167)
- OTi DALI DIM (p. 170)

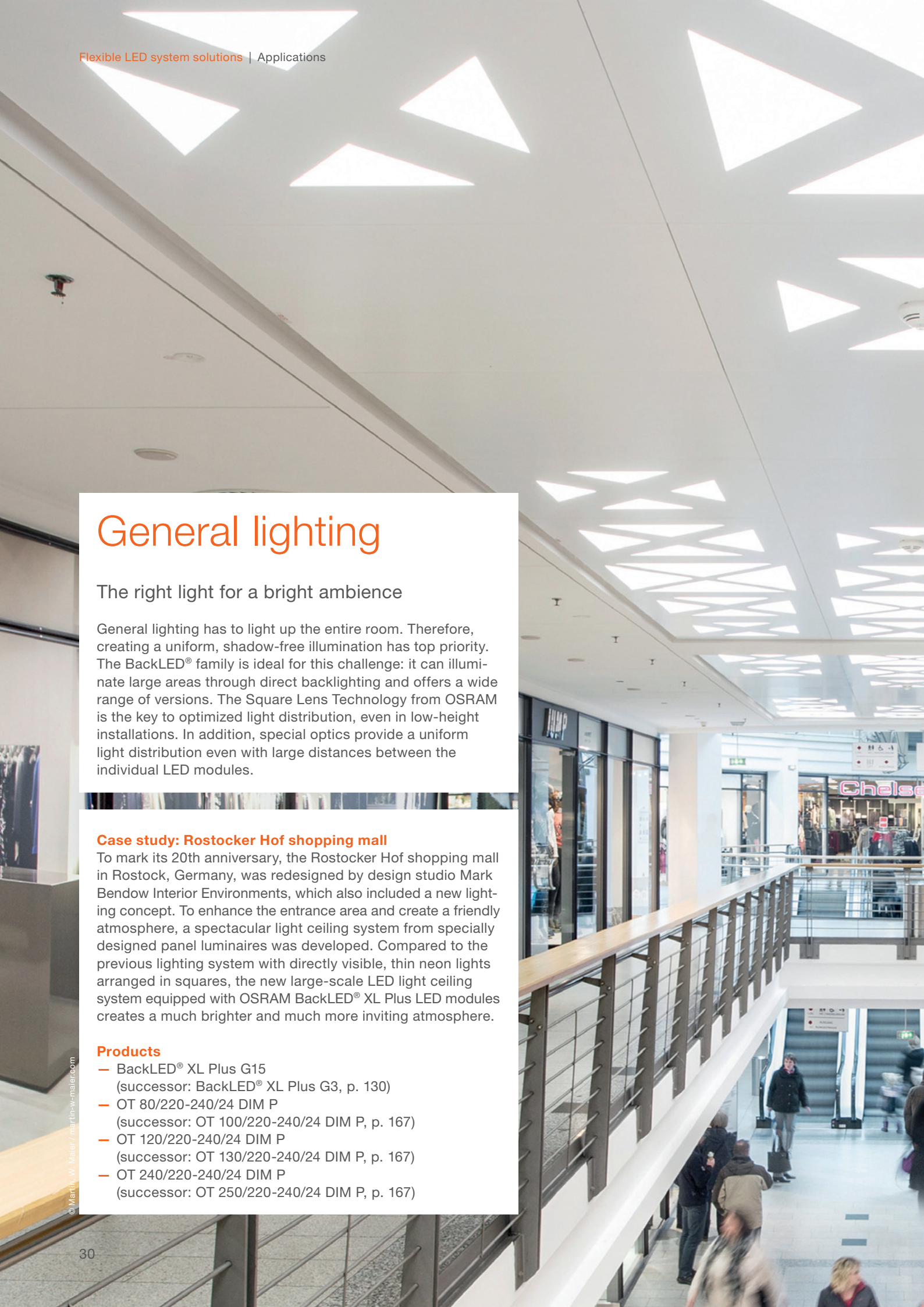
Cove lighting

Unobtrusive light for an undisturbed time

Cove lighting calls for hidden light sources with minimal dimensions and short-pitch LEDs for very homogeneous, shadow-free light that enhances suspended ceilings and creates stunning effects. Meeting all these requirements, LED strips from OSRAM bathe rooms in an inviting light. They are easy to bend, cut to length, install and connect, giving lighting designers complete freedom.

Case study: The House of ELEMIS spa
For the renovation of the London spa of the ELEMIS skincare brand, the lighting designers opted for LED strips and controllers from OSRAM. A digital lighting system creates an inviting atmosphere in the lounge areas and treatment rooms at the recently reopened House of ELEMIS spa thanks to the warm white light and homogeneous color changes of LINEARlight FLEX® Colormix LED strips.

Products
- LINEARlight FLEX® Colormix – LF1300RGBW (p. 66)
- OT EASY 80 (successor: OT BLE DIM, p. 21 + 176)
- EASY Hybrid Remote (successor: CASAMBI app, p. 21 + 176)



General lighting

The right light for a bright ambience

General lighting has to light up the entire room. Therefore, creating a uniform, shadow-free illumination has top priority. The BackLED® family is ideal for this challenge: it can illuminate large areas through direct backlighting and offers a wide range of versions. The Square Lens Technology from OSRAM is the key to optimized light distribution, even in low-height installations. In addition, special optics provide a uniform light distribution even with large distances between the individual LED modules.

Case study: Rostocker Hof shopping mall
To mark its 20th anniversary, the Rostocker Hof shopping mall in Rostock, Germany, was redesigned by design studio Mark Bendow Interior Environments, which also included a new lighting concept. To enhance the entrance area and create a friendly atmosphere, a spectacular light ceiling system from specially designed panel luminaires was developed. Compared to the previous lighting system with directly visible, thin neon lights arranged in squares, the new large-scale LED light ceiling system equipped with OSRAM BackLED® XL Plus LED modules creates a much brighter and much more inviting atmosphere.

Products
- BackLED® XL Plus G15
  (successor: BackLED® XL Plus G3, p. 130)
- OT 80/220-240/24 DIM P
  (successor: OT 100/220-240/24 DIM P, p. 167)
- OT 120/220-240/24 DIM P
  (successor: OT 130/220-240/24 DIM P, p. 167)
- OT 240/220-240/24 DIM P
  (successor: OT 250/220-240/24 DIM P, p. 167)

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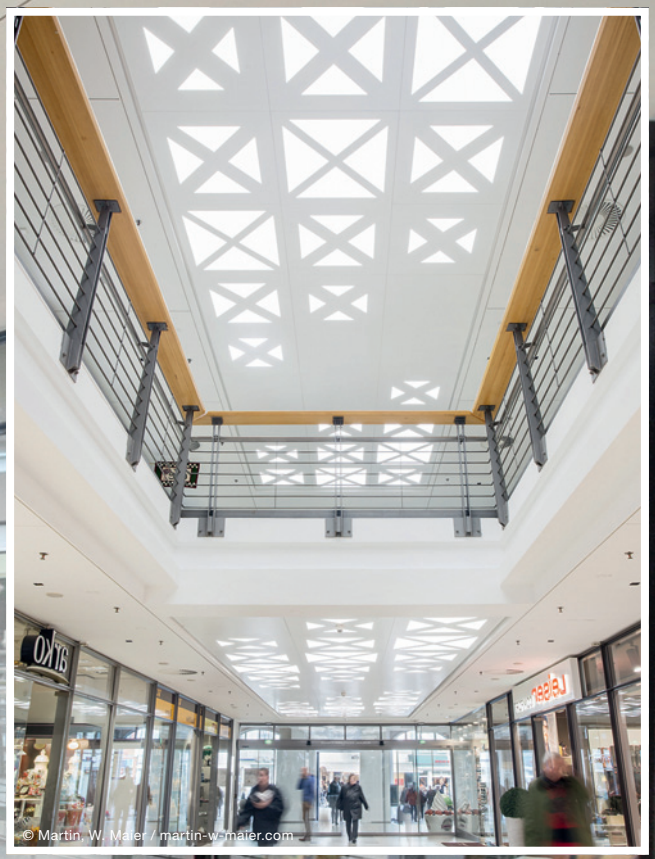

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PEPSICO

Accent lighting

Enhancing architectural details with directional light

As directional light, accent lighting emphasizes details and objects. It is used to create decorative effects and enhances the specific features of spaces and materials. In order to allow non-invasive integration into the architecture, miniaturization of the light source is important. This requirement is reflected by the LINEARlight FLEX® ShortPitch LED strips from OSRAM with their compact dimensions. The LED strips are very flexible and easy to cut, even into very small pieces.

Case study: “Gold on 27” bar

As part of the refurbishment of the world-famous luxury hotel Burj Al Arab in Dubai (UAE), the night club on the 27th floor has been redesigned, creating the now legendary “Gold on 27”. The Jumeirah Group, which operates the hotel, commissioned OSRAM with the lighting system. In the “Gold on 27”, the LINEARlight FLEX® ShortPitch LED strips highlight the metallic surfaces, the gold patterns on the walls, the golden sculpture on the ceiling and the illuminated bar shelves. The “Gold on 27” project has won several awards.

Products

- LINEARlight FLEX® ShortPitch – LF800S (p. 60)
- OTi DALI 75/220-240/24 1-4 CH
  (successor: OTi DALI 80/220-240/24 1-4 CH, p. 166)
- OTi DALI DIM (p. 170)

Decorative lighting

Attractive design through perfect lighting effects

For the innovative design of exclusive areas such as elegant bars or restaurants, decorative lighting is used to give rooms a spectacular and unique atmosphere. Emphasizing special design elements, the lighting concept highlights important details in order to create a sophisticated overall impression. This can be achieved with very slim and highly flexible LED strips that perfectly fit into curved structures and confined spaces. With the interplay of compact dimensions and high performance, light sources have to meet these demanding tasks with a uniform illumination without visible points of light.

Case study: Luxus liner “Norwegian Joy”
The lighting requirements for the different bar and restaurant areas were extremely challenging. The shipmaker wanted an absolutely homogeneously diffuse form of light distribution along an array of architectural ceiling elements with round and rounded contours. State-of-the-art LINEARlight FLEX® DIFFUSE proved to be the perfect solution, as the side-emitting LED strips allow the contours of the curved features to be followed with homogeneity combined with minimal geometry.

The six-meter-long LED strips can be trimmed to size and have a very strong self-adhesive back. Therefore, they are perfect for complex contours and the tiniest spaces. As the LED components and the entire “technology” are completely covered with high-performance silicone, the highly advanced reflector technology can be integrated into the LED strips. It was the system’s excellent quality, performance and, above all, light effect featuring warm white light and good color rendering that eventually won over the light planners.

Products
- LINEARlight FLEX® DIFFUSE – LFD-400S-830 (p. 90)
- OTi DALI 160/220-240/24 1-2 CH (p. 166)
- OTi DALI DIM (p. 170)

© Harald Hohenthal

中庭酒吧
ATRIUM BAR

STEPHEN KING
KING

Shelf lighting

Highlighting objects with hidden light

Shelf lighting enhances objects with subtle illumination, adding to a pleasant atmosphere. The indirect light can be mixed as required from a range of different light colors, serving to reduce the bulky appearance of furniture and creating a relaxing and inviting ambience. Following the general trend of miniaturized lighting solutions, all light sources remain invisible as they are seamlessly integrated into the furniture and architecture.

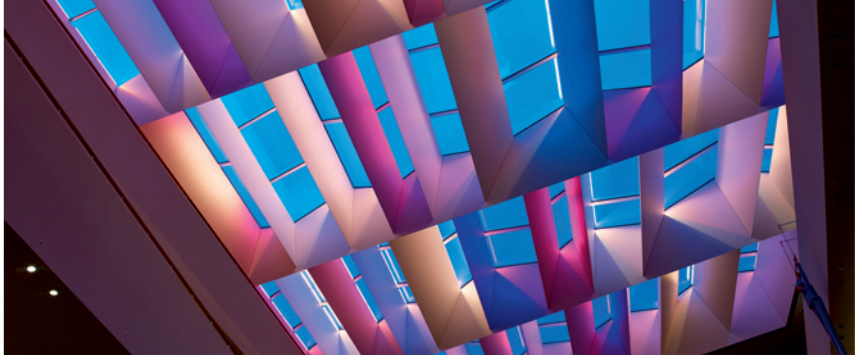
Case study: Hotel Kempinski, Budapest
The first floor of the highly traditional Kempinski hotel was to be given a new, stylish, modern character by implementing a completely new philosophy of lighting. Amongst others, LINEARlight FLEX® ADVANCED and LINEARlight FLEX® Power LED strips have been installed with light colors 827 and 865 for shelf and cove lighting. With the interplay of color temperatures in which for example individual ceiling elements gain a different tonal emphasis, solid supporting structures in the architecture are rendered lightweight and elegant.

The “living room” located in the middle of the busy atrium was inspired by the local “coffeehouse” culture. Guests are now able to relax in a comfortable atmosphere. The patisserie takes on a special function, emphasized with its colored glass rear wall backlit with BackLED® L Plus LED chains. The discreet shelf and cove lighting with hidden LINEARlight FLEX® ADVANCED and LINEARLight FLEX® Power LED strips supports the pleasant overall mood in this urban oasis.

Products
- LINEARlight FLEX® ADVANCED – LF06A
  (successor: LINEARlight FLEX® Low Power – LF500, p. 62)
- LINEARlight FLEX® Power – LF1200 (p. 56)

© Kempinski Hotel Corvinus Budapest/MKV Design LTD, UK

DELIVERY
RESPECT
PEOPLE
HUMILITY



Architectural lighting

Perfect symbiosis of design and light

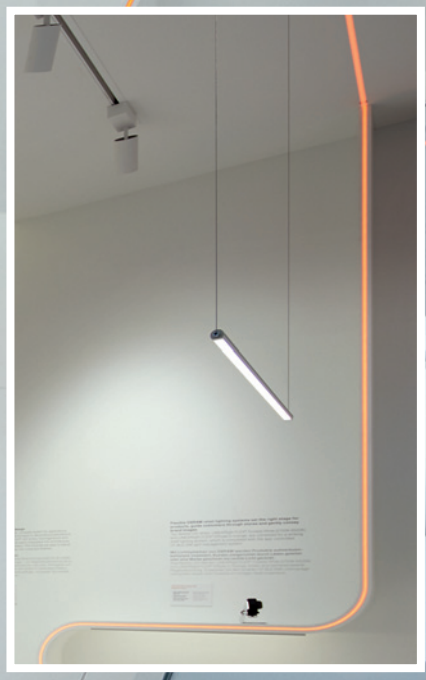
Light can bring an entire building to life. Architectural lighting considers light as an essential architectural design element and aims to perfectly incorporate it into the architecture to enhance shapes and details. This is achieved with compact light sources that remain invisible while creating an extremely powerful connection between architecture, function and light. Achieving the right balance between daylight and artificial light as well as a good heat management for every kind of installation, e.g. surface or recessed mounting, are other important factors of architectural lighting.

Case study: Novo Nordisk Headquarters
The new headquarters of the international pharmaceutical company Novo Nordisk in Bagsvaerd, Denmark, is already impressive thanks to its modern architecture and functional sustainable design. Now the architectural lighting concept is just as innovative. The sophisticated interaction between lighting and architecture makes the visitors and employees feel the light rather than note it.

The greatest challenge was to make the lighting canopy appear in the most spectacular light while putting a special focus on visual performance and ergonomics. For this extremely demanding task, OSRAM developed a completely new luminaire concept based on flexible LED strips. The impressive result: daylight and artificial light mingle everywhere to give a homogeneous light unit and create the impression of natural light, without any visible fixtures for daylight openings.

Products
- LINEARlight FLEX® ShortPitch – LF800S (p. 60)
- LINEARlight FLEX® Colormix – LF05CA2-RGB3 (p. 68)
- LINEARlight FLEX® ADVANCED – LF06A
  (successor: LINEARlight FLEX® Low Power – LF500, p. 62)

lopping



Task lighting

Dedicated light comes to the point

Task lighting is one of the three elements of layered lighting, which is used to create a perfectly balanced light atmosphere. Complementing the selected general and accent lighting, task lighting uses light sources with high brightness to highlight specific areas without any glare effects to offer high visibility for certain activities.

OSRAM solution

Thanks to their compact dimensions, LINEARlight FLEX® ShortPitch LED strips are particularly suitable for efficient task lighting. Combined with perfectly matched Flexessories®, they can be easily integrated into various luminaire designs. For example, at Light + Building 2018, OSRAM applied the new pendant mounting kit to perfectly illuminate exhibits with minimalistic pendant luminaires equipped with its flexible LED strips.

Products

- LINEARlight FLEX® ShortPitch – LF800S (p. 60)
- Profile FX-QMS-G1-TR19H16-300 (p. 104)
- Cover FX-QMS-G1-CFDB-300 (p. 104)
- Kit for pendant mounting FX-QMS-G1-TR19H16-PENDANTKIT (p. 105)

Wall washing

Complete systems for uniform brightness

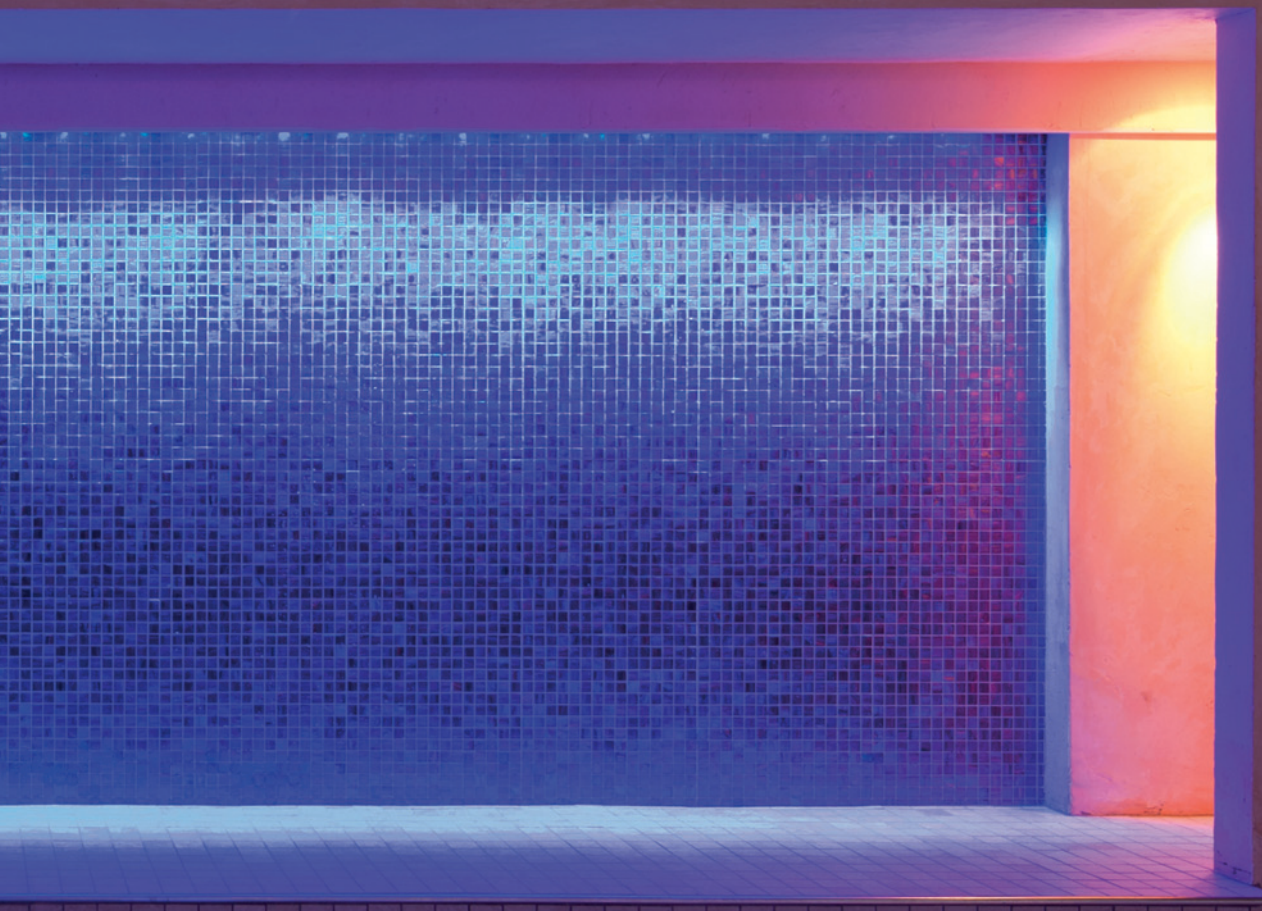
Wall washing is ideal to add character to smooth surfaces, e.g. white-painted drywalls. It homogeneously lights up a wall from top to bottom in a smooth wash, hiding blemishes and imperfections by eliminating their shadows. Thus, the wall is transformed into a bright background for the objects in the space, such as furniture and artwork. By emphasizing the architectural details, wall washing also makes rooms appear larger and more spacious.

OSRAM solution

Want to add visual interest to a wall without painting it or hanging objects on it? When combined with the slim profile with adjustable light angle and the corresponding lens cover, LINEARlight FLEX® LED strips are perfect for extraordinary wall washing applications with homogeneous light distribution. Let large vertical surfaces, e.g. in shops, museums or reception areas, appear in an entirely new light with special mood and effect lighting created with OSRAM LED strips and profiles.

Products

- LINEARlight FLEX® Colormix – LF700RGBW (p. 66)
- Profile FX-QMS-G1-TU16H12LS-300 (p. 112)
- Lens cover FX-QMS-G1-CLT-300 (p. 112)
- OT BLE DIM plus CASAMBI app (p. 21 + 176)



Orientation lighting

Eye-catching signals that lead the way

They come in elegant curves, in straight and clear lines or with fantastic angles: homogeneous and shadow-free LED lines of light for optimal orientation lighting – reliable in any kind of weather. Depending on their function and style, architectural structures such as handrails, staircases and pathways open up a multitude of possibilities for lighting designers. Once integrated, the LED strips smoothly create an elegant overall look thanks to their slim design following the shape of the structures and can even vary their color to match the desired atmosphere.

OSRAM solution

As they offer an extremely slim lighting solution, LINEARlight FLEX® Protect ShortPitch LED strips are ideal for orientation lighting. They create an elegant overall look and also resist all weather conditions in challenging outdoor applications. Thanks to very short spacings between the individual LEDs, they form an unbroken line of light, providing aesthetic lighting that not only looks cool but also meets or exceeds the requirements of relevant safety regulations. LINEARlight FLEX® DIFFUSE LED strips provide a very elegant way to highlight paths, using diffuse lines of light without any visible spots.

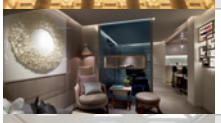
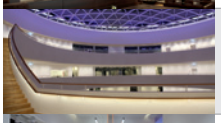
Products

- LINEARlight FLEX® Protect ShortPitch – LFP800S (p. 78)
- LINEARlight FLEX® DIFFUSE – LFD400/800T (p. 88) and LFD400/600S (p. 90)

LED modules for every application

Each of our LED modules shows its strengths in different application areas, whether indoors or outdoors. The following table gives you a short overview of the LED modules and profiles that are best suited for your project.

Linear system flexible

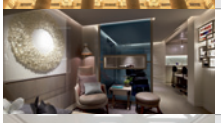
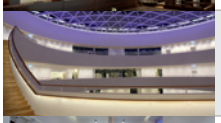
Application	LINEARlight FLEX® LED strips		LF/LFP Power White (p. 56 + 74)	LF/LFP Power Shop White (p. 58 + 76)	LF/LFP ShortPitch White (p. 60 + 78)	LF/LFP Low Power White (p. 62 + 80)	LF TW and TWW (p. 64)	LF Colormix RGBW (p. 66)	LF/LFP Colormix RGB (p. 68 + 82)	LF/LFP Monochrome (p. 70 + 84)	LF DIFFUSE Top White (p. 88)	LF DIFFUSE Side White (p. 90)	LF DIFFUSE Top Monochrome (p. 92)	LF DIFFUSE Side Monochrome (p. 94)
	Outdoor lighting	IP00												
		IP67	●		●				●	●	●	●	●	●
	Cove lighting	IP00	●		●		●	●						
		IP67	●		●						●	●		
	General lighting	IP00	●				●							
		IP67	●											
	Accent lighting	IP00	●		●	●		●	●	●				
		IP67	●		●	●		●	●	●	●	●	●	●
	Decorative lighting	IP00	●		●	●		●	●	●				
		IP67	●		●	●		●	●	●	●	●	●	●
	Shelf lighting	IP00	●	●	●	●	●							
		IP67	●	●	●	●					●	●	●	●
	Architectural lighting	IP00	●		●	●	●	●	●	●				
		IP67	●		●	●			●	●	●	●	●	●
	Task lighting	IP00	●		●		●							
		IP67												
	Wall washing	IP00	●		●		●	●	●					
		IP67												
	Orientation lighting	IP00	●		●	●		●	●	●				
		IP67	●		●	●			●	●	●	●	●	●

Linear system modular

Area lighting

Profile system with LINEARlight FLEX® inside

BackLED®

Application	LF-LTS-2100 (p. 100)	FX-QMS-G1-T45D19H19-300 (p. 102)	FX-QMS-G1-TR19H16-300 (p. 104)	FX-QMS-G1-TU15H6-300 (p. 106)	FX-QMS-G1-TU15H6W3-300 (p. 108)	FX-QMS-G1-TU16H12-300 (p. 110)	FX-QMS-G1-TU16H12W3-300 (p. 114)	FX-QMS-G1-TU16H12LS-300 (p. 112)	FX-QMW-G1-TK30D46H27-300 (p. 116)	FX-QMW-G1-TU26H8-300 (p. 118)	FX-QMW-G1-TU26H25-300 (p. 120)	FX-QMW-G1-TU26H25W2-300 (p. 122)	FX-QMW-G1-TU26H25W10-300 (p. 124)	BackLED® White (p. 130)	BackLED® TW (p. 136)	BackLED® RGBW (p. 140)
Outdoor lighting	●															
 Cove lighting	●	●		●		●		●	●	●	●					
General lighting										●	●	●	●	●	●	
Accent lighting	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Decorative lighting	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Shelf lighting	●	●	●	●	●	●	●	●	●							
 Architectural lighting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Task lighting			●													
Wall washing						●		●								
Orientation lighting	●		●	●		●		●								

Complete solution

Integrated solutions for any kind of installation

More flexibility for individual lighting solutions

Lighting concepts of today require far more than efficient, durable and highly functional lighting components. In fact, it is the interplay of LED strips and LED drivers and their combination with suitable lighting control and accessories that form a perfectly matched system. OSRAM provides a broad range of matching products for nearly any kind of application, both indoors and outdoors. Discover the versatile LINEARlight FLEX® product families as well as the Flexessories®, our comprehensive portfolio of accessories. Achieve your flexible solution with our online configurator in a few easy steps: www.osram.com/flex-configurator

System components

Thanks to a modular system combining LED strips and matching Flexessories®, LED drivers and light management components, the complete OSRAM portfolio for flexible LED solutions offers maximum freedom of design.

LED strips

LINEARlight FLEX®

LED drivers

OPTOTRONIC®

Profile system

Profile

Cover

End cap

Mounting bracket

LINEARlight FLEX®
- Luminous flux of up to 3,850 lm/m

LINEARlight FLEX® Protect
- Minimalistic white design with hidden electronics
- IP67 protection rating
- High-performance silicone for extremely long lifespan and bendability
- UV-resistant
- Salt-mist-proof
- Simple contacting due to pre-assembled connector
- Luminous flux of up to 3,000 lm/m

LINEARlight FLEX® DIFFUSE
- Diffuse light lines without visible spots
- IP67 protection with high-performance silicone
- Outdoor use possible: UV-resistant and salt-mist-proof
- Long operational length per single power feed possible (up to 6 m)
- Increased reliability due to single-piece reel-to-reel technology

Characteristics of LINEARlight FLEX® LED strips
- Flexible, cuttable LED strips
- Seamless light without shadowing
- Color uniformity ≤2 SDCM (see page 96)
- Dimmable (PWM)
- Self-adhesive back for easy mounting
- Flexessories® – dedicated accessories for LINEARlight FLEX® LED strips – profile system for quick installation and homogeneous light distribution
- 24 V technology for easy dimensioning
- Recommended in system use with OPTOTRONIC® LED drivers
- Lifetime of up to 60,000 h (L80B10) at T_p
- 5-year guarantee*

Light management system

DALI MCU

DALI PROFESSIONAL

OT BLE DIM

CASAMBI app

* For conditions and detailed information, see www.osram.com/guarantee

Complete systems for easy installation and top performance

With OSRAM, you can realize sophisticated lighting solutions with relatively little installation effort. We support you in compiling the right components by leading you step by step to a customized high-performance overall system. For this, we provide you with practical online tools and clearly arranged check lists. And if you still have unanswered questions, the experts of our technical support team will be happy to assist you. This performance package offers you a time-saving and cost-efficient way to a future-proof lighting system, which can be updated and extended at any time.

Overall solutions from OSRAM: powerful, versatile, future-proof

Profile system

Matching accessories for flexible LED strips:
- Easy mounting in any aluminum profile
- Tool-free and quick installation with mounting brackets and springs
- Diffusers and lenses
- No visible light gap thanks to lateral end caps

OPTOTRONIC®
Constant-voltage LED drivers

Innovative DALI LED drivers for quick and easy installation:
- Flexibility thanks to 4 channels (White, Tunable White, RGB and RGBW)
- Tunable White drivers (compatible with DALI Device Type 8), based on DALI temperature control
- Slim design for space-saving installations, e.g. in coves or flat luminaires
- Dimmable down to 0 %/0.1 % via DALI and Touch DIM®
- Highly durable and extremely reliable
- EL-compliant

Practice-based services

Professional support at every stage of a project:
- Check lists for the perfect product combination
- Online tools for system optimization
- Technical support by our experts

* Detailed guarantee terms and conditions can be found at www.osram.com/guarantee

LINEARlight FLEX®
LED strips

LINEARlight FLEX®

LINEARlight FLEX® Protect

LINEARlight FLEX® DIFFUSE

LED strips for versatile use in white and colored applications:
– Easy mounting with profile system without tools
– Low height for sophisticated lighting solutions
– Homogeneous light for excellent ambience

High-performance system

Guarantee

Comprehensive guarantee on all LED modules and drivers as well as LMS components

Lighting control

LMS solutions from OSRAM Digital Lighting Systems enable you to implement a diverse range of dynamic lighting solutions in a simple and efficient way – from daylight- and presence-dependent lighting control through to daylight simulation.

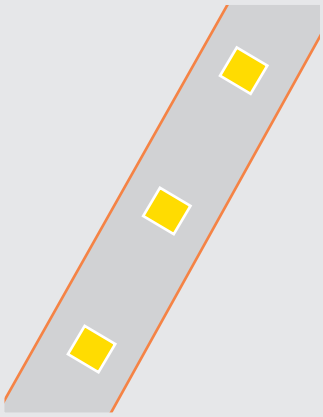
LED strips

Thanks to a wide range of illuminance levels and light colors, flexible LED strips create affordable and design-oriented solutions for a broad range of applications, both indoors and outdoors. Our portfolio covers all possible requirements, from accent and decorative lighting with colored light to dynamic Tunable White installations and lighting systems with Power and ShortPitch versions for particularly high luminosity. In addition, the robust Protect versions are also suitable for outdoor applications. Due to their high-performance silicone, they have protection rating IP67 and are UV-resistant as well as salt-mist-proof. When it comes to diffuse light lines without visible spots, our DIFFUSE versions provide a very homogeneous light distribution.

©2013 Ira Wexler

Indoor IP00
- Seamless light without shadowing effect
- Wide range of luminous fluxes and CCTs
- Reel-to-reel technology
- 24 V technology for easy dimensioning
- Constant-current regulator on each step
- Great design freedom thanks to flexibility and cuttability of the LED strip
- Extraordinary design and high-quality materials
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back

Page 54



Protect IP67
- IP67 protection rating: outdoor use possible
- UV-resistant and salt-mist-proof
- Large selection of light color temperatures
- High-performance silicone for long lifespan and flexibility
- Self-adhesive tape at the back for maximum adhesion on surfaces

Page 72

DIFFUSE
- Diffuse light lines without visible spots
- Top-emitting or side-emitting surface for maximum versatility of light
- IP67 protection with high-performance silicone encapsulation
- Suitable for outdoor use: UV-resistant and salt-mist-proof
- UV stability also at high temperatures
- Increased reliability due to single-piece reel-to-reel technology
- Flexibility to support design freedom
- Adhesive back for easy installation

Page 86

LINEARlight FLEX® Indoor IP00

Choose from a wide range of non-IP LED strips to provide versatile and brilliant lighting in indoor areas.

LINEARlight FLEX® Power White

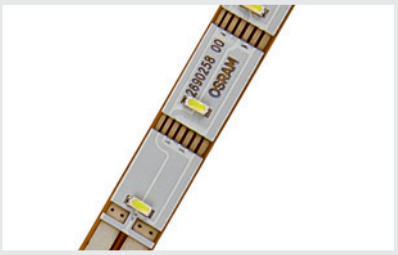
Architectural lighting, ceiling and wall integration, cove lighting
Page 56

LINEARlight FLEX® Power Shop White

Shop lighting, shelf lighting
Page 58

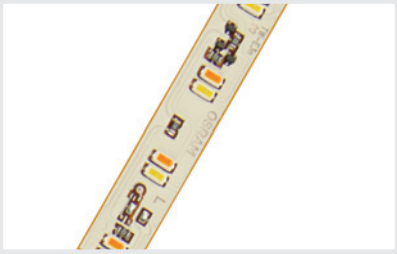
LINEARlight FLEX® ShortPitch White

Cove lighting, path lighting, accent lighting, shelf lighting
Page 60



LINEARlight FLEX® Low Power White

Decorative lighting, path lighting
Page 62

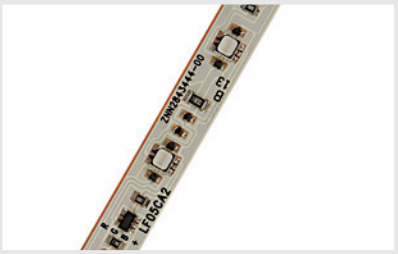


LINEARlight FLEX® Tunable White and Tunable Warm White

Cove lighting, shop lighting, offices, dynamic White applications
Page 64

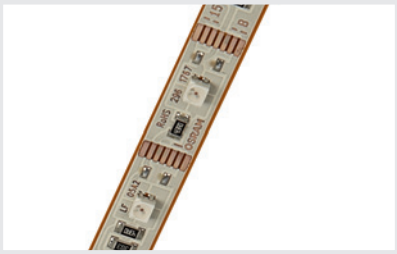
LINEARlight FLEX® Colormix RGBWhite

Effect lighting in architecture, dynamic lighting effects
Page 66



LINEARlight FLEX® Colormix RGB

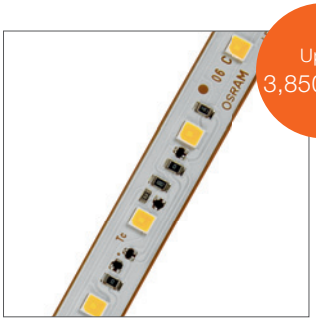
Effect lighting in architecture, dynamic lighting effects, decorative lighting
Page 68

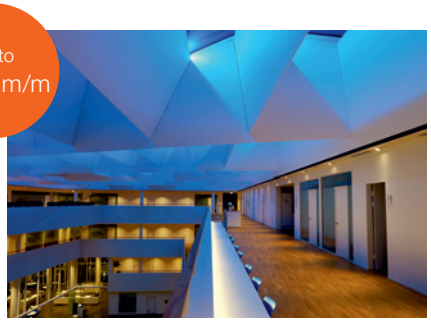


LINEARlight FLEX® Monochrome

Decorative and accent lighting, ceiling and wall integration
Page 70

LINEARlight FLEX® Power White





Features and benefits

- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- CRI 80 and 90 options
- Large selection of color temperatures
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

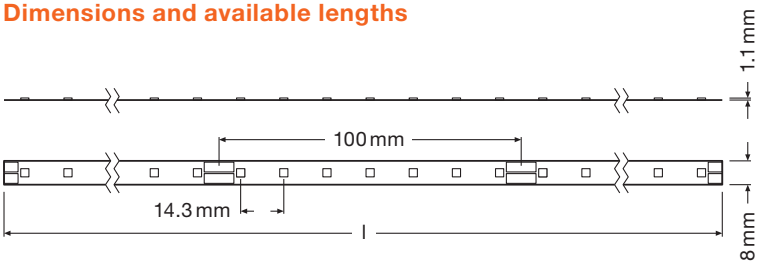
Application areas

- Architectural lighting
- Ceiling and wall integration
- Cove lighting

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

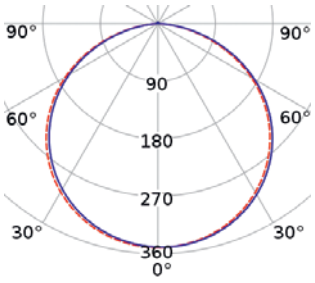


Lowest bending radius = 20 mm; LEDs/m = 70
L: LF1200 = 9000 mm; LF2000 = 4500 mm; LF3000, LF4000 = 3000 mm

Electrical and output data

Nominal voltage	24 V
Reverse voltage protection up to	25 V
Temperature range in operation at T_c point	-20...+90 °C
Storage temperature	-40...+80 °C
Ambient temperature range	-20...+50 °C

	LF1200	LF2000	LF3000	LF4000
Power [W/m] at 840	8.1	13.6	21.8	28.9
Luminous efficacy [lm/W] at 840	147	147	138	133
Performance temperature T_p [°C] at 840	40	45	55	60



Beam angle = 120°
Light distribution of LED module only

Product description and order code

Color temperature		CRI	LF1200	lm/m	LF2000	lm/m	LF3000	lm/m	LF4000	lm/m
● 820	2000 K	>80	LF1200-G3-820-09	1000	LF2000-G3-820-04	1650	LF3000-G3-820-03	2500	–	–
● 824	2400 K	>80	LF1200-G3-824-09	1200	LF2000-G3-824-04	2000	LF3000-G3-824-03	3000	–	–
● 827	2700 K	>80	LF1200-G3-827-09	1200	LF2000-G3-827-04	2000	LF3000-G3-827-03	3000	LF4000-G3-827-03	3750
● 830	3000 K	>80	LF1200-G3-830-09	1200	LF2000-G3-830-04	2000	LF3000-G3-830-03	3000	LF4000-G3-830-03	3750
○ 840	4000 K	>80	LF1200-G3-840-09	1200	LF2000-G3-840-04	2000	LF3000-G3-840-03	3000	LF4000-G3-840-03	3850
● 850	5000 K	>80	LF1200-G3-850-09	1200	LF2000-G3-850-04	2000	LF3000-G3-850-03	3000	LF4000-G3-850-03	3850
● 865	6500 K	>80	LF1200-G3-865-09	1200	LF2000-G3-865-04	2000	LF3000-G3-865-03	3000	LF4000-G3-865-03	3850
● 927	2700 K	>90	LF1200-G3-927-09	1100	LF2000-G3-927-04	1800	LF3000-G3-927-03	2700	–	–
● 930	3000 K	>90	LF1200-G3-930-09	1200	LF2000-G3-930-04	2000	LF3000-G3-930-03	3000	–	–
○ 940	4000 K	>90	LF1200-G3-940-09	1200	LF2000-G3-940-04	2000	LF3000-G3-940-03	3000	–	–

Classification flux level
1200 = 1200 lm/m

Generation

CRI
8 = CRI >80; 9 = CRI >90

Length per reel
09 = 09 meters

LINEARlight FLEX® → LF | 1200 | - | G3 | - | 8 | 30 | - | 09

CCT
30 = 3000 K

09 LF1200
04 LF2000
03 LF3000/4000

Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF1200, LF2000		LF1200, LF2000, LF3000, LF4000				
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300							
Slim lens cover[1] FX-QMS-G1-CLT-300	–	–		–	–		–

Compatibility	LF1200, LF2000, LF3000, LF4000
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF1200, LF2000, LF3000, LF4000	LF1200, LF2000, LF3000*, LF4000*	LF1200, LF2000, LF3000, LF4000		
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

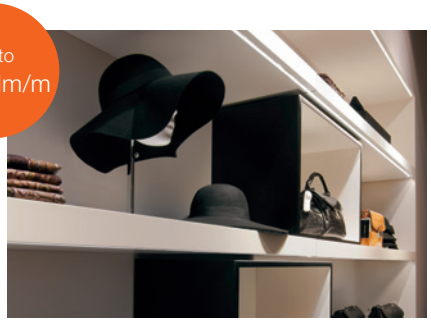
Compatibility strip-profile at $T_a = 25\,°C$, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

IP00 LED strips fit the profiles including non-IP connector and cover except for:

FX-QMS-G1-TU15H6-300, FX-QMS-G1-TU15H6W3-300 and FX-QMW-G1-TK30D46H27-300.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Power Shop White



Features and benefits

- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- CRI 80 and 90 options
- Reproducing vivid color without yellowing effect
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

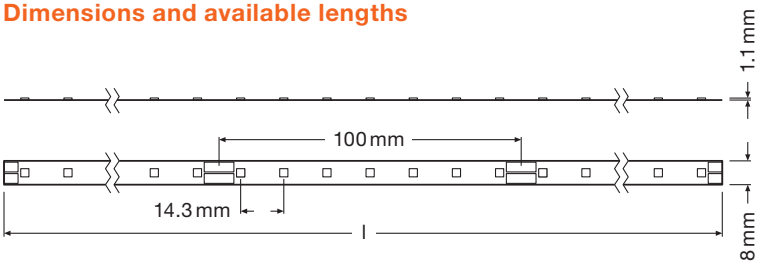
Application areas

- Shop lighting
- Shelf lighting

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

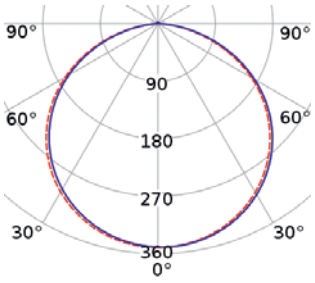


Lowest bending radius = 20 mm; LEDs/m = 70
L: LF1200SW = 9000 mm; LF2000SW = 4500 mm; LF3000SW = 3000 mm

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+90 °C
Storage temperature	-40...+80 °C
Ambient temperature range	-20...+50 °C

	LF1200SW	LF2000SW	LF3000SW
Power [W/m] at SW40	10	17.9	27.6
Luminous efficacy [lm/W] at SW40	120	112	109
Performance temperature T_p [°C] at SW40	40	55	60



Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature		CRI	LF1200SW	lm/m	LF2000SW	lm/m	LF3000SW	lm/m
930	3000 K	>90	LF1200-G3-SW30-09	1200	LF2000-G3-SW30-04	2000	LF3000-G3-SW30-03	3000
940	4000 K	>90	LF1200-G3-SW40-09	1200	LF2000-G3-SW40-04	2000	LF3000-G3-SW40-03	3000

LINEARlight FLEX® → LF | **Classification flux level** 1200 = 1200 lm/m | 1200 | - | **Generation** G3 | - | **Shop White** SW | **CCT** 30 = 3000 K | 30 | - | **Length per reel** 09 = 09 meters | 09

09 LF1200SW
04 LF2000SW
03 LF3000SW

Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF1200SW, LF2000SW		LF1200SW, LF2000SW, LF3000SW				
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300							
Slim lens cover[1] FX-QMS-G1-CLT-300	–	–		–	–		–

Compatibility	LF1200SW, LF2000SW, LF3000SW
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF1200SW, LF2000SW, LF3000SW	LF1200SW, LF2000SW, LF3000SW*	LF1200SW, LF2000SW, LF3000SW		
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

IP00 LED strips fit the profiles including non-IP connector and cover except for:

FX-QMS-G1-TU15H6-300, FX-QMS-G1-TU15H6W3-300 and FX-QMW-G1-TK30D46H27-300.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® ShortPitch White

Features and benefits

- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Very small LED spacing
- CRI 80 and 90 options
- Large selection of color temperatures
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

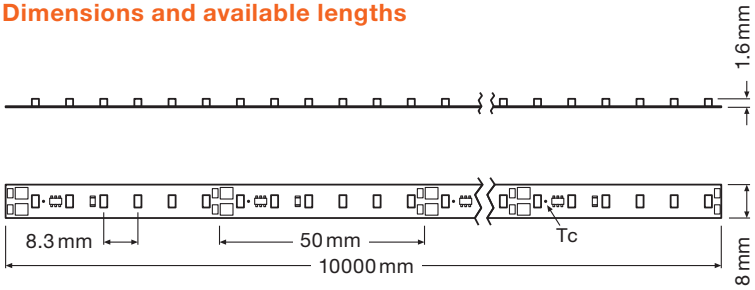
Application areas

- Cove lighting
- Path lighting
- Accent lighting
- Shelf lighting

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

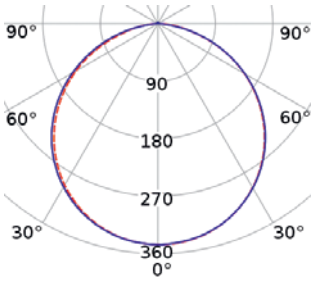


Lowest bending radius = 20 mm; LEDs/m = 120

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-30...+75 °C
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

	LF800S
Power [W/m]	7
Luminous efficacy [lm/W] at 840	114
Performance temperature T_p [°C]	45



Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature		CRI	LF800S	lm/m
822	2200 K	>80	LF800S-G4-822-10	680
825	2500 K	>80	LF800S-G4-825-10	740
827	2700 K	>80	LF800S-G4-827-10	740
830	3000 K	>80	LF800S-G4-830-10	800
835	3500 K	>80	LF800S-G4-835-10	800
840	4000 K	>80	LF800S-G4-840-10	800
865	6500 K	>80	LF800S-G4-865-10	800

Color temperature		CRI	LF800S	lm/m
922	2200 K	>90	LF800S-G4-922-10	620
927	2700 K	>90	LF800S-G4-927-10	620
930	3000 K	>90	LF800S-G4-930-10	620
935	3500 K	>90	LF800S-G4-935-10	680
940	4000 K	>90	LF800S-G4-940-10	680
965	6500 K	>90	LF800S-G4-965-10	680

LINEARlight FLEX® → LF | 800 | S | - | G4 | - | 8 | 30 | - | 10

- **Classification flux level**: 800 = 800 lm/m
- **Generation**
- **CRI**: 8 = CRI >80; 9 = CRI >90
- **ShortPitch**
- **CCT**: 30 = 3000 K
- **Length per reel**: 10 = 10 meters

Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF800S						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300							
Slim lens cover[1] FX-QMS-G1-CLT-300	–	–		–	–		–

Compatibility	LF800S
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF800S				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting.
Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

IP00 LED strips fit the profiles including non-IP connector and cover except for:
FX-QMS-G1-TU15H6-300, FX-QMS-G1-TU15H6W3-300 and FX-QMW-G1-TK30D46H27-300.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Low Power White

Features and benefits

- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- CRI 80 and 90 options
- Large selection of color temperatures
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

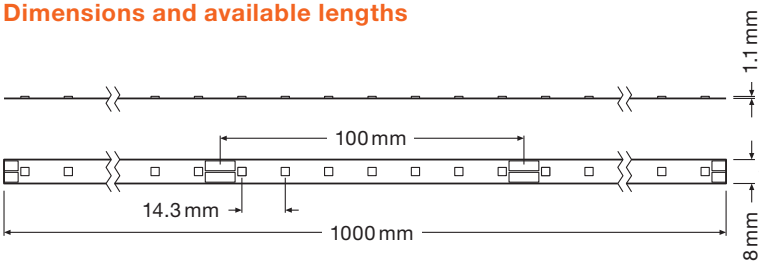
Application areas

- Decorative lighting
- Path lighting

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

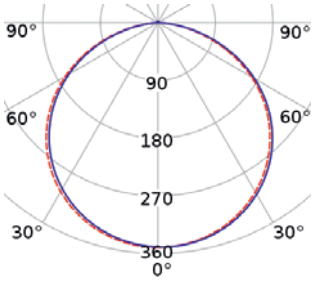


Lowest bending radius = 20 mm; LEDs/m = 70

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-30...+75 °C
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

	LF500
Power [W/m] at 840	3.7
Luminous efficacy [lm/W] at 840	114
Performance temperature T_p [°C] at 840	45



cd/1000 lm

Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature		CRI	LF500	lm/m
822	2200 K	>80	LF500-G1-822-10	420
825	2500 K	>80	LF500-G1-825-10	460
827	2700 K	>80	LF500-G1-827-10	460
830	3000 K	>80	LF500-G1-830-10	500
835	3500 K	>80	LF500-G1-835-10	500
840	4000 K	>80	LF500-G1-840-10	500
865	6500 K	>80	LF500-G1-865-10	500

Color temperature		CRI	LF500	lm/m
922	2200 K	>90	LF500-G1-922-10	385
927	2700 K	>90	LF500-G1-927-10	385
930	3000 K	>90	LF500-G1-930-10	385
935	3500 K	>90	LF500-G1-935-10	420
940	4000 K	>90	LF500-G1-940-10	420
965	6500 K	>90	LF500-G1-965-10	420

Classification flux level
500 = 500 lm/m

Generation

CRI
8 = CRI >80; 9 = CRI >90

LINEARlight FLEX® → LF | 500 | - | G1 | - | 8 | 30 | - | 10

Length per reel
10 = 10 meters

CCT
30 = 3000 K

Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF500						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300							
Slim lens cover[1] FX-QMS-G1-CLT-300	–	–		–	–		–

Compatibility	LF500
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF500				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

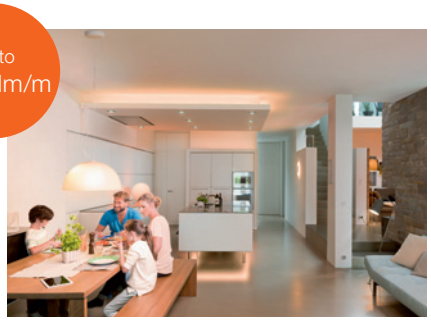
Compatibility strip-profile at $T_a = 25\,°C$, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting.
Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

IP00 LED strips fit the profiles including non-IP connector and cover except for:
FX-QMS-G1-TU15H6-300, FX-QMS-G1-TU15H6W3-300 and FX-QMW-G1-TK30D46H27-300.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® TW and TWW

Up to 3,800 lm/m



Features and benefits

- Color uniformity ≤3 SDCM (see p. 96)
- TWW: Lifetime of up to 60,000 h (L80B10) at T_p; TW: Lifetime of up to 60,000 h (L70B50) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Adjustable color temperature via Tunable White: 2,700-6,500 K and Tunable Warm White: 2,200/2,500-3,500 K
- Pre-soldered wires in TWW version
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

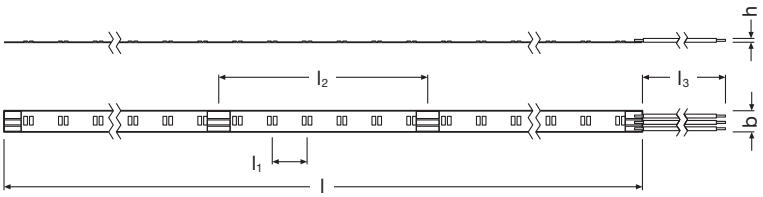
Application areas

- Cove lighting
- Shop lighting
- Offices
- Dynamic White applications

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths



Lowest bending radius = 20 mm; LEDs/m = 160

L: LF1200TW = 9000 mm; LF2000TW = 4500 mm; LF3000TW = 3000 mm; LF4000TW, LF3000TWW = 2100 mm

L_1: LF3000TWW = 500 mm (only in TWW version)

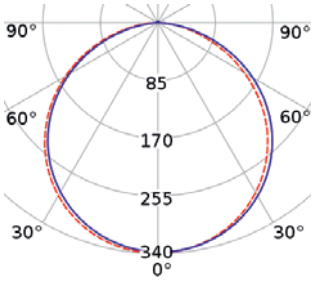
H: LF1200TW, LF2000TW, LF3000TW, LF4000TW = 1.2 mm; LF3000TWW = 1.45 mm

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+85 °C
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

	LF1200TW	LF2000TW	LF3000TW	LF4000TW
Power [W/m]	10.5	18.5	30	36.8
Luminous efficacy [lm/W]	114	108	100	103
Performance temperature T_p [°C]	40	50	60	75

	LF3000TWW 822-835	LF3000TWW 825-835
Power [W/m]	33.3	31
Luminous efficacy [lm/W]	90	97
Performance temperature T_p [°C]	65	65



Beam angle = 120°
Light distribution of LED module only

Note:
Data related to TWW products are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

Product description and order code

Color temperature	CRI	LF1200TW	lm/m	LF2000TW	lm/m	LF3000TW	lm/m	LF4000TW	lm/m
827-865 2700-6500 K	>80	LF1200TW-G3-82765-09	1200	LF2000TW-G3-82765-04	2000	LF3000TW-G3-82765-03	3000	LF4000TW-G3-82765-02	3800
		LF3000TWW							**lm/m**
822-835 2200-3500 K	>80	LF3000TWW-G1-822.835-02							3000
825-835 2500-3500 K	>80	LF3000TWW-G1-825.835-02							3000

Classification flux level
1200 = 1200 lm/m

Generation
G3 for TW; G1 for TWW

CRI and CCT
8 = CRI > 80; 2765 = 2700-6500 K
TWW: 822.835 and 825.835

Length per reel
09 = 09 meters

LINEARlight FLEX® → LF 1200 TW - G3 - 82765 - 09

TW = Tunable White
TWW = Tunable Warm White

09 LF1200TW
04 LF2000TW
03 LF3000TW
02 LF3000TWW/LF4000TW

Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF1200TW, LF2000TW, LF3000TW*		LF1200TW, LF2000TW, LF3000TW*, LF3000TWW				LF1200TW, LF2000TW, LF3000TW, LF3000TWW
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300							
Slim lens cover[1] FX-QMS-G1-CLT-300	–	–		–	–		–

Compatibility	LF1200TW, LF2000TW, LF3000TW*, LF3000TWW
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF1200TW, LF2000TW, LF3000TW, LF3000TWW, LF4000TW*	LF1200TW, LF2000TW, LF3000TW*, LF3000TWW, LF4000TW*	LF1200TW, LF2000TW, LF3000TW, LF3000TWW		
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting.
Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

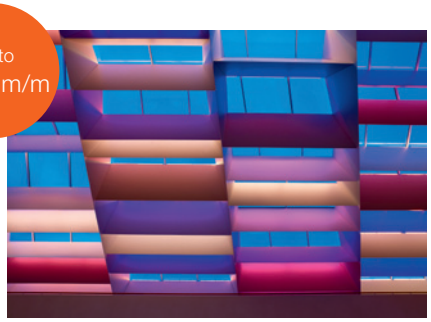
IP00 LED strips fit the profiles including non-IP connector and cover except for:

FX-QMS-G1-TU15H6-300, FX-QMS-G1-TU15H6W3-300 and FX-QMW-G1-TK30D46H27-300.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Colormix RGBWhite

Up to 1,300 lm/m



Features and benefits

- Color uniformity ≤3 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L70B50) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Single bin on each color and white
- Excellent color mixing and high-quality white light
- Enhance details and materials with custom white
- Large selection of white light color temperatures
- Dimmable by OPTOTRONIC® LED drivers
- Pre-soldered wires
- Reel-to-reel technology

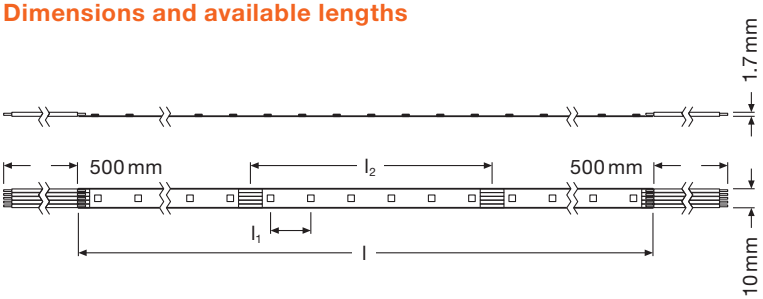
Application areas

- Effect lighting in architecture
- Dynamic lighting effects

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

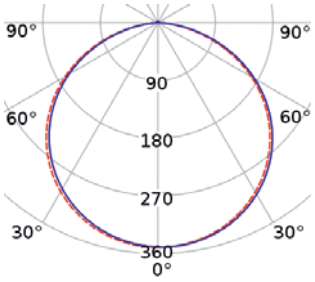


Lowest bending radius = 20 mm; LEDs/m = LF700RGBW 80 (40 RGB +40 White), LF1300RGBW 120 (60 RGB + 60 White)
L: LF700RGBW = 6000 mm; LF1300RGBW = 3900 mm; **L_1:** LF700RGBW = 25 mm; LF1300RGBW = 16.67 mm; **L_2:** LF700RGBW = 150 mm; LF1300RGBW = 100 mm

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+85 °C
Storage temperature	-40...+80 °C
Ambient temperature range	-20...+50 °C

	LF700RGBW	LF1300RGBW
Power [W/m] at 840	9.6	17.4
Luminous efficacy [lm/W] at 840	73	74
Performance temperature T_p [°C]	35	45

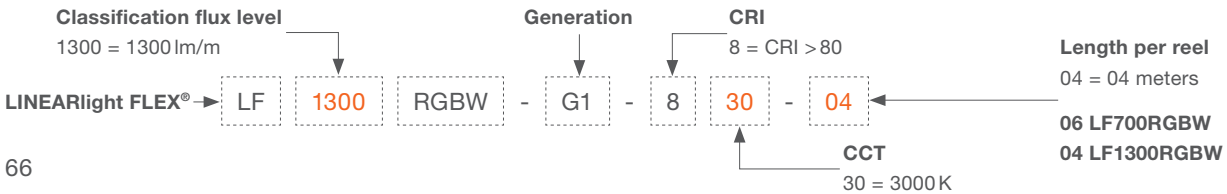


Beam angle = 120°
Light distribution of LED module only

Product description and order code

Color temperature	CRI	LF700RGBW	lm/m	LF1300RGBW	lm/m
RGB+822 2200 K	>80	LF700RGBW-G1-822-06	657	LF1300RGBW-G1-822-04	1213
RGB+827 2700 K	>80	LF700RGBW-G1-827-06	697	LF1300RGBW-G1-827-04	1293
RGB+830 3000 K	>80	LF700RGBW-G1-830-06	697	LF1300RGBW-G1-830-04	1293
RGB+840 4000 K	>80	LF700RGBW-G1-840-06	697	LF1300RGBW-G1-840-04	1293
RGB+865 6500 K	>80	LF700RGBW-G1-865-06	697	LF1300RGBW-G1-865-04	1293

Color	Dom. λ (nm)	LF700RGBW (lm/m)	LF1300RGBW (lm/m)
R	622	80	131
G	534	196	328
B	468	21	33
RGB	–	297	492



Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Cover/lens (see page 162)

Compatibility	LF700RGBW, LF1300RGBW						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300							
Slim lens cover[1] FX-QMS-G1-CLT-300	–	–		–	–		–

Compatibility	LF700RGBW, LF1300RGBW
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF700RGBW, LF1300RGBW				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

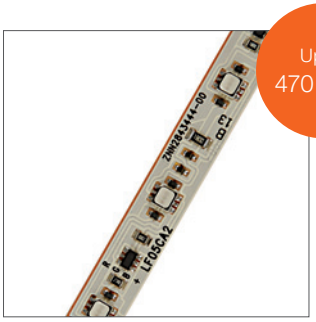
Note:

Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting.
Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

IP00 LED strips fit the profiles including non-IP connector and cover except for:
FX-QMS-G1-TU15H6-300, FX-QMS-G1-TU15H6W3-300 and FX-QMW-G1-TK30D46H27-300.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Colormix RGB



Up to 470 lm/m

Features and benefits

- Lifetime of up to 50,000 h (L70B50) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Uniform color changing
- Single bin 3 SDCM LEDs
- Optimum color mixing: each LED contains red, green and blue emitters
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

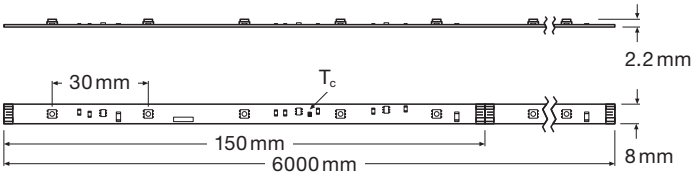
Application areas

- Effect lighting in architecture
- Dynamic lighting effects
- Decorative lighting

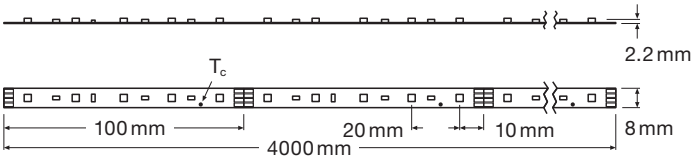
Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths



LF200C-G3-RGB-06, LF05CE-RGB1
Lowest bending radius = 20 mm; LEDs/m = 33

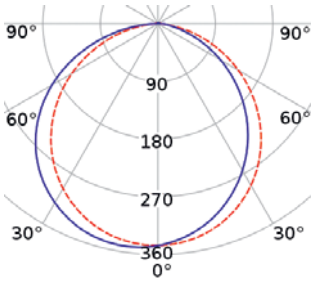


LF05CA2-RGB3
Lowest bending radius = 20 mm; LEDs/m = 50

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+75 °C (LF200C), -30...+75 °C (LF05CA2/LF05CE)
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C (LF200C/LF05CE), -30...+55 °C (LF05CA2)

	LF05CA2-RGB3	LF05CE-RGB1	LF200C-G3-RGB-06
Power [W/m] at RGB	18	6.5	6.5
Luminous efficacy [lm/W] at RGB	26	28	32
Performance temperature T_p [°C]	40	25	35



cd/1000 lm

Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color	Dom. λ (nm)	LF05CA2-RGB3 (lm/m)	LF05CE-RGB1 (lm/m)	LF200C-G3-RGB-06 (lm/m)
R	625	161	50	65
G	525	253	121	135
B	464	53	9	9
RGB	–	470	180	209

Classification flux level
200 = 200 lm/m

Color **Generation**

Family name

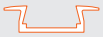
Length per reel
04 = 04 meters

LINEARlight FLEX®	LF	200	C	-	G3	-	RGB	-	04

LF	05CA2	-	RGB3
LF	05CE	-	RGB1

Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF200C, LF05CE, LF05CA2						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	 **Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300							
Slim lens cover[1] FX-QMS-G1-CLT-300	–	–		–	–		–

Compatibility	LF200C, LF05CE, LF05CA2
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF200C, LF05CE, LF05CA2				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

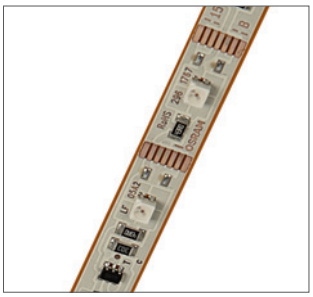
Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

IP00 LED strips fit the profiles including non-IP connector and cover except for:

FX-QMS-G1-TU15H6-300, FX-QMS-G1-TU15H6W3-300 and FX-QMW-G1-TK30D46H27-300.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Monochrome



Features and benefits

- Lifetime of up to 50,000 h (L70B50) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Uniform and vivid color
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

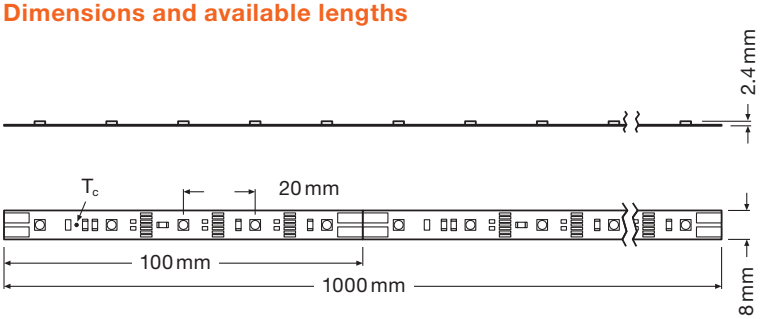
Application areas

- Decorative and accent lighting
- Ceiling and wall integration

Standards

- CE, UL recognized component according to UL 8750; ENEC

Dimensions and available lengths

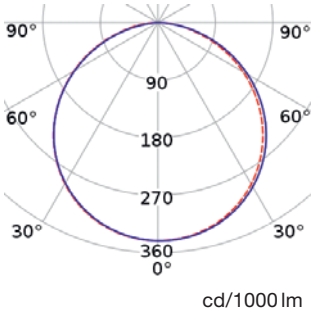


Lowest bending radius = 20 mm; LEDs/m = 50

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+75 °C
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

	LF05A2				
	Blue	**Red**	**Green**	**Yellow**	**Orange**
Power [W/m]	7.2	8.3	4.9	8.3	8.3
Luminous efficacy [lm/W]	11	14	37	13	16
Performance temperature T_p [°C]	25	25	25	25	25



Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature	Dom. λ (nm)	LF05A2	lm/m
● Blue	467	LF05A2-B3	80
● Red	625	LF05A2-R3	120
● Green	525	LF05A2-T3	180
● Yellow	587	LF05A2-Y3	110
● Orange	602	LF05A2-O3	130

Family name

LINEARlight FLEX® → LF 05A2 - B3 ← **Color**

B3 = Blue, R3 = Red, T3 = Green, Y3 = Yellow, O3 = Orange

Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF05A2						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300							
Slim lens cover[1] FX-QMS-G1-CLT-300	–	–		–	–		–

Compatibility	LF05A2
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF05A2				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

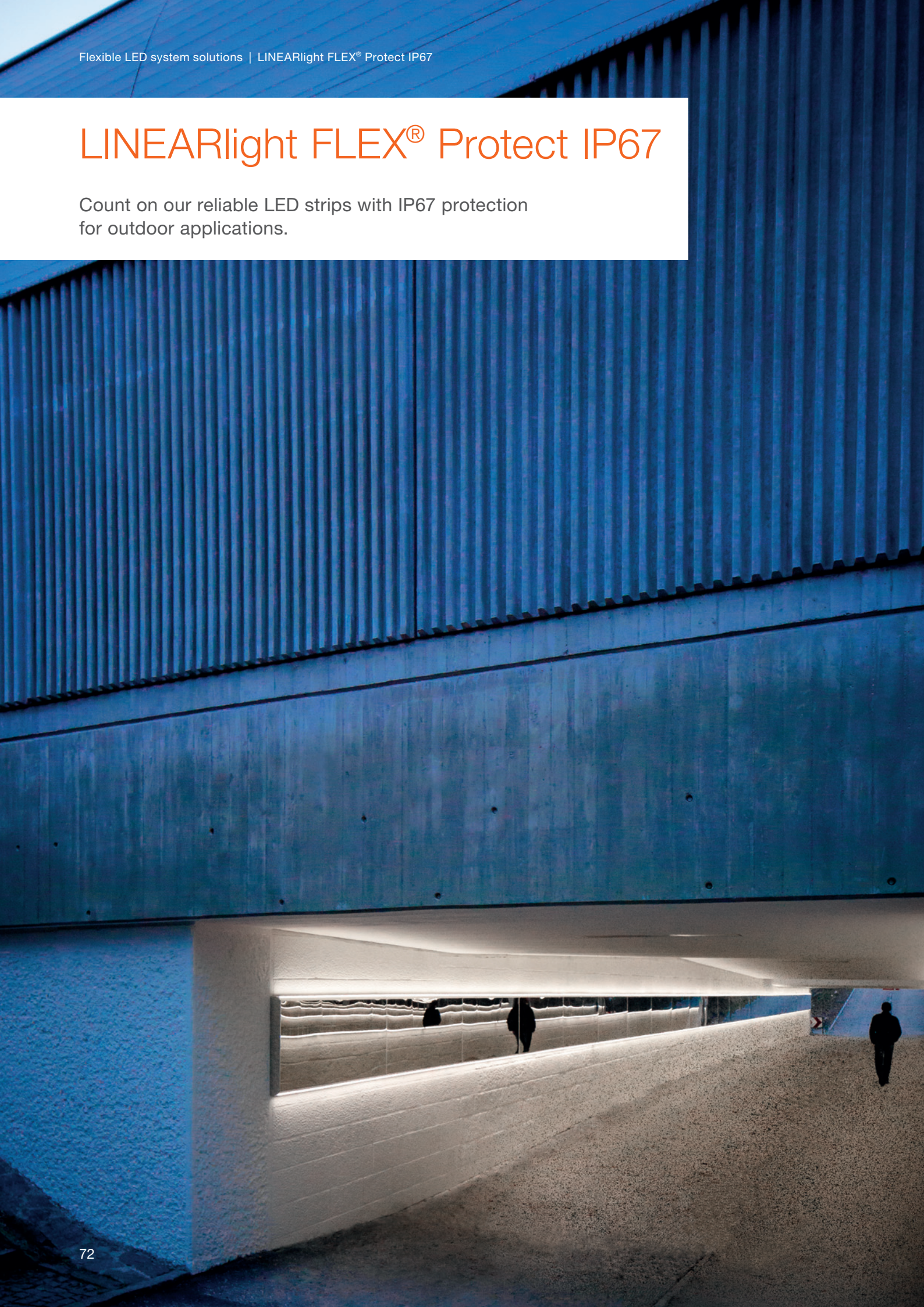
Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting.
Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

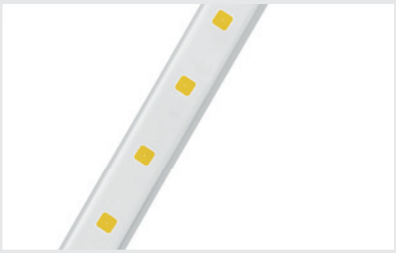
IP00 LED strips fit the profiles including non-IP connector and cover except for:
FX-QMS-G1-TU15H6-300, FX-QMS-G1-TU15H6W3-300 and FX-QMW-G1-TK30D46H27-300.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Protect IP67

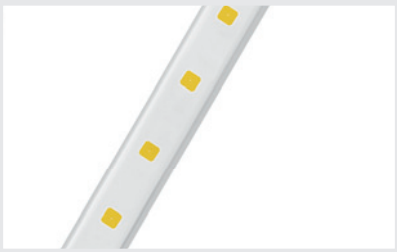
Count on our reliable LED strips with IP67 protection for outdoor applications.





LINEARlight FLEX® Protect Power White

Architectural lighting, façade lighting, cove lighting, outdoor applications
Page 74



LINEARlight FLEX® Protect Power Shop White

Shelf lighting, shop lighting, cove lighting, outdoor applications
Page 76

LINEARlight FLEX® Protect ShortPitch White

Cove lighting, path lighting, accent lighting, shelf lighting
Page 78

LINEARlight FLEX® Protect Low Power White

Decorative lighting, accent lighting, path lighting
Page 80

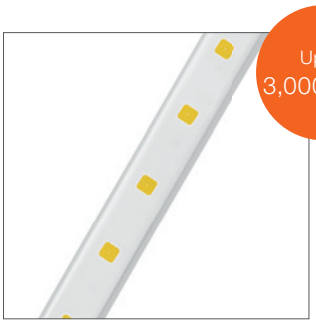
LINEARlight FLEX® Protect Colormix RGB

Effect lighting in architecture, dynamic lighting effects, façade lighting
Page 82

LINEARlight FLEX® Protect Monochrome

Effect lighting in architecture, decorative lighting
Page 84

LINEARlight FLEX® Protect Power White



Up to 3,000 lm/m

Features and benefits

- IP67 protection
- UV and salt-mist-resistant
- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- CRI 80 and 90 options
- Large selection of color temperatures
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

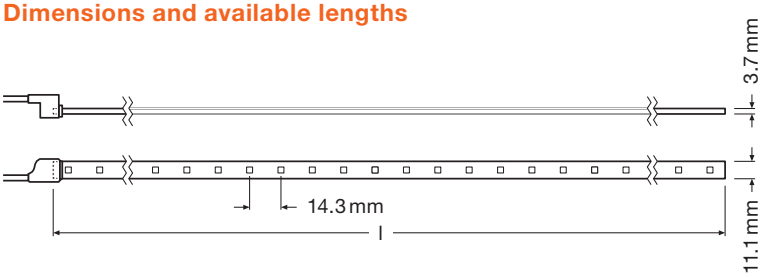
Application areas

- Architectural lighting
- Façade lighting
- Cove lighting
- Outdoor applications

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

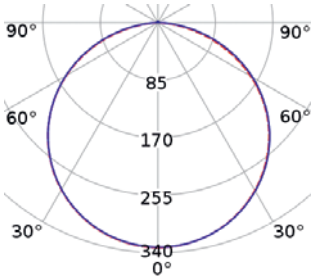


Smallest unit = 100 mm; lowest bending radius = 20 mm; LEDs/m = 70
L: LFP800, LFP1200 = 9000 mm; LFP2000 = 4500 mm; LFP3000 = 3000 mm

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+70 °C
Storage temperature	-40...+80 °C
Ambient temperature range	-20...+50 °C

	LFP800	LFP1200	LFP2000	LFP3000
Power [W/m] at 827	7.1	10.6	17.9	28.9
Luminous efficacy [lm/W] at 827	113	108	106	104
Performance temperature T_p [°C] at 827	40	45	55	60

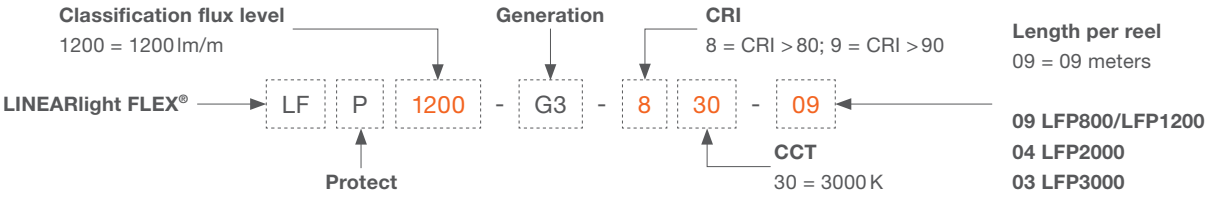


Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature		CRI	LFP800	lm/m	LFP1200	lm/m	LFP2000	lm/m	LFP3000	lm/m
● 824	2400 K	>80	LFP800-G3-824-09	800	LFP1200-G3-824-09	1100	LFP2000-G3-824-04	1800	LFP3000-G3-824-03	2800
● 827	2700 K	>80	LFP800-G3-827-09	800	LFP1200-G3-827-09	1150	LFP2000-G3-827-04	1900	LFP3000-G3-827-03	3000
● 830	3000 K	>80	–	–	LFP1200-G3-830-09	1200	LFP2000-G3-830-04	1900	LFP3000-G3-830-03	3000
○ 840	4000 K	>80	–	–	LFP1200-G3-840-09	1200	LFP2000-G3-840-04	1900	LFP3000-G3-840-03	3000
● 860	6000 K	>80	–	–	LFP1200-G3-860-09	1100	LFP2000-G3-860-04	1800	LFP3000-G3-860-03	2800
● 930	3000 K	>90	–	–	LFP1200-G3-930-09	1100	LFP2000-G3-930-04	1800	LFP3000-G3-930-03	2850
○ 940	3800 K	>90	–	–	LFP1200-G3-940-09	1200	LFP2000-G3-940-04	1900	LFP3000-G3-940-03	3000
● 960	5800 K	>90	–	–	LFP1200-G3-940-09	1200	LFP2000-G3-940-04	1900	LFP3000-G3-940-03	3000



Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LFP800, LFP1200, LFP2000		LFP800, LFP1200, LFP2000, LFP3000*			LFP800, LFP1200, LFP2000, LFP3000	LFP800, LFP1200, LFP2000
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300	–	–					

Compatibility	LFP800, LFP1200, LFP2000, LFP3000*
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LFP800, LFP1200, LFP2000, LFP3000	LFP800, LFP1200, LFP2000, LFP3000*	LFP800, LFP1200, LFP2000, LFP3000		
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting.
Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

IP67 LED strips fit the profiles including IP connector, end cap and cover, only for:

FX-QMW-G1-TU26H8-300, FX-QMW-G1-TU26H25W10-300, FX-QMW-G1-TU26H25W2-300 and FX-QMW-G1-TU26H25-300.
Optics for outdoor use: LF-LTS-COVER C, LF-LTS-COVER D and LF-LTS-COVER S.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Protect Power Shop White

Features and benefits

- IP67 protection
- UV and salt-mist-resistant
- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- CRI 80 and 90 options
- Reproducing vivid color without yellowing effect
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

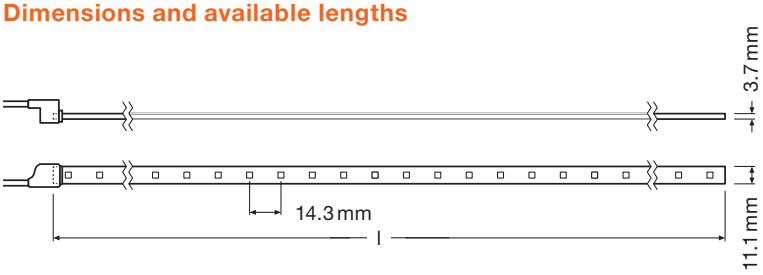
Application areas

- Shelf lighting
- Shop lighting
- Cove lighting
- Outdoor applications

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

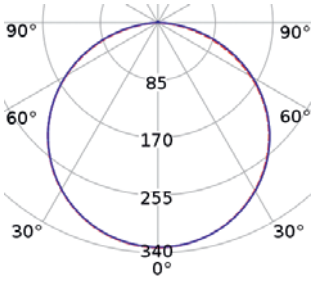


Smallest unit = 100 mm; lowest bending radius = 20 mm; LEDs/m = 70
L: LFP1200SW = 9000 mm; LFP2000SW = 4500 mm; LFP3000SW = 3000 mm

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+70 °C
Storage temperature	-40...+80 °C
Ambient temperature range	-20...+50 °C

	LFP1200SW	LFP2000SW	LFP3000SW
Power [W/m] at 840	10.6	17.9	27.6
Luminous efficacy [lm/W] at 840	104	106	109
Performance temperature T_p [°C] at 840	45	55	60



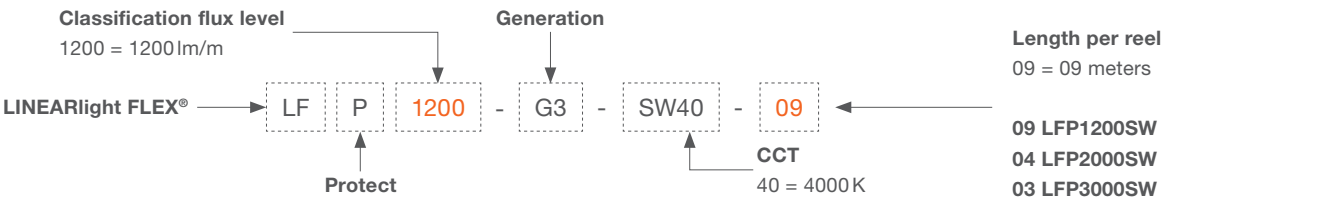
cd/1000 lm

Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature		CRI	LFP1200SW	lm/m	LFP2000SW	lm/m	LFP3000SW	lm/m
○ 840	4000 K	>90	LFP1200-G3-SW40-09	1200	LFP2000-G3-SW40-04	1900	LFP3000-G3-SW40-03	3000



Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LFP1200SW, LFP2000SW		LFP1200W, LFP2000SW, LFP3000SW*			LFP1200SW, LFP2000SW, LFP3000SW	LFP1200SW, LFP2000SW
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300	–	–					

Compatibility	LFP1200SW, LFP2000SW, LFP3000SW*
Slim profile **LF-LTS-2100**	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LFP1200SW, LFP2000SW, LFP3000SW	LFP1200SW, LFP2000SW, LFP3000SW*	LFP1200SW, LFP2000SW, LFP3000SW		
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

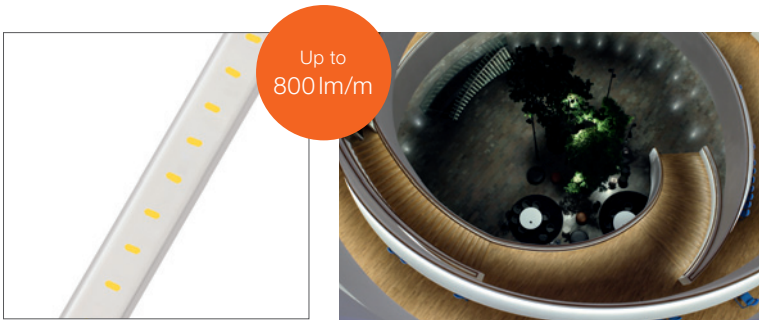
Compatibility strip-profile at $T_a = 25\,°C$, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting.
Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

Only the following IP67 LED strips fit the profiles including IP connector, end cap and cover:

FX-QMW-G1-TU26H8-300, FX-QMW-G1-TU26H25W10-300, FX-QMW-G1-TU26H25W2-300 and FX-QMW-G1-TU26H25-300.
Optics for outdoor use: LF-LTS-COVER C, LF-LTS-COVER D and LF-LTS-COVER S.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Protect ShortPitch White



Features and benefits

- IP67 protection
- UV and salt-mist-resistant
- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM90 compliant
- Very small LED spacing
- CRI 80 and 90 options
- Large selection of color temperatures
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

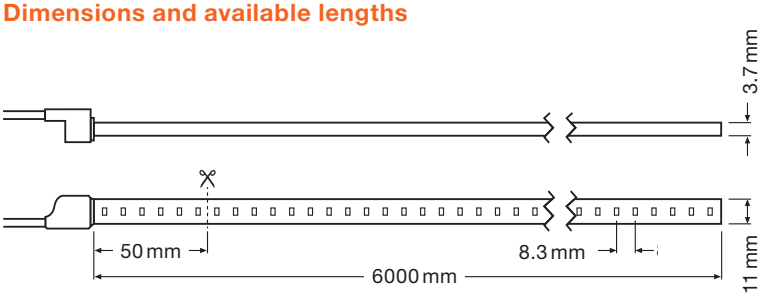
Application areas

- Cove lighting
- Path lighting
- Accent lighting
- Shelf lighting

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

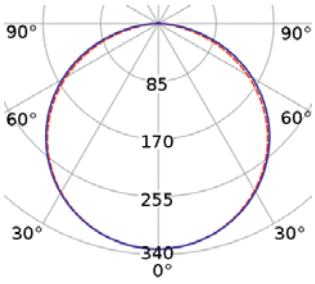


Lowest bending radius = 20 mm; LEDs/m = 120

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-30...+75 °C
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

	LFP800S
Power [W/m]	7
Luminous efficacy [lm/W] at 840	114
Performance temperature T_p [°C]	40

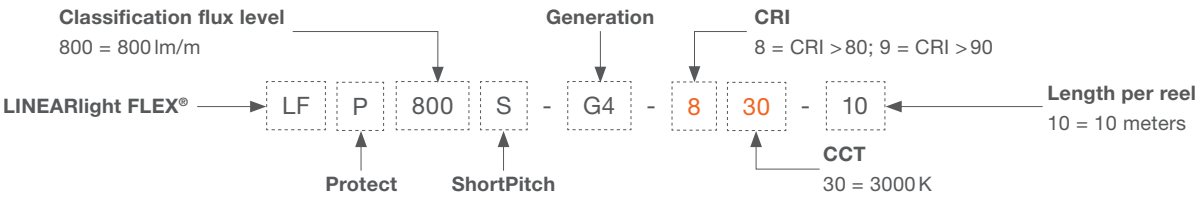


Beam angle = 120°
Light distribution of LED module only

Product description and order code

Color temperature		CRI	LFP800S	lm/m
827	2700 K	>80	LFP800S-G4-827-10	680
830	3000 K	>80	LFP800S-G4-830-10	740
835	3500 K	>80	LFP800S-G4-835-10	740
840	4000 K	>80	LFP800S-G4-840-10	800
865	6500 K	>80	LFP800S-G4-865-10	800

Color temperature		CRI	LFP800S	lm/m
927	2700 K	>90	LFP800S-G4-927-10	620
935	3500 K	>90	LFP800S-G4-935-10	620
940	4000 K	>90	LFP800S-G4-940-10	620
965	6500 K	>90	LFP800S-G4-965-10	680



Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LFP800S						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300	–	–					

Compatibility	LFP800S
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LFP800S				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

Compatibility strip-profile at $T_a = 25\,°C$, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

Only the following IP67 LED strips fit the profiles including IP connector, end cap and cover:

FX-QMW-G1-TU26H8-300, FX-QMW-G1-TU26H25W10-300, FX-QMW-G1-TU26H25W2-300 and FX-QMW-G1-TU26H25-300.

Optics for outdoor use: LF-LTS-COVER C, LF-LTS-COVER D and LF-LTS-COVER S.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Protect Low Power White

Up to 500 lm/m

Features and benefits

- IP67 protection
- UV and salt-mist-resistant
- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- CRI 90 and 80 options
- Large selection of color temperatures
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

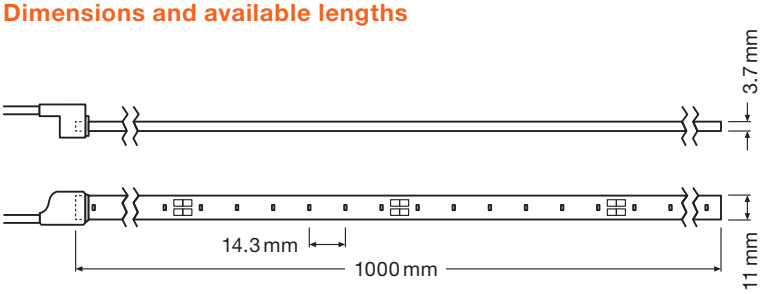
Application areas

- Decorative lighting
- Accent lighting
- Path lighting

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

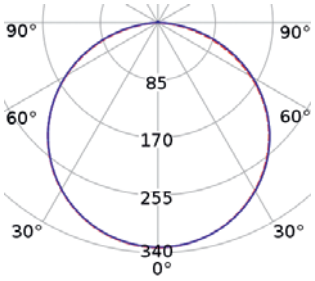


Smallest unit = 100 mm; lowest bending radius = 20 mm; LEDs/m = 70

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-30...+70 °C
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

	LFP500
Power [W/m]	3.7
Luminous efficacy [lm/W] at 840	135
Performance temperature T_p [°C]	35



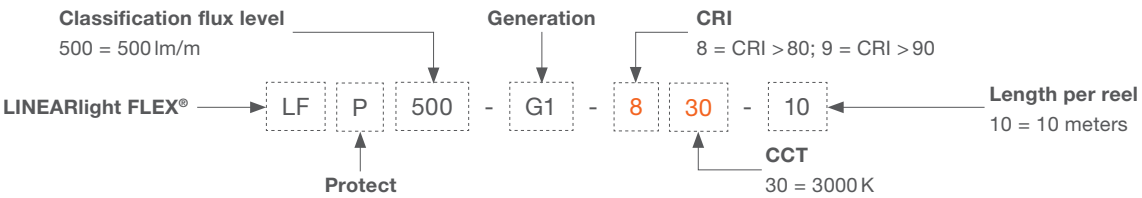
Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature		CRI	LFP500	lm/m
827	2700 K	>80	LFP500-G1-827-10	420
830	3000 K	>80	LFP500-G1-830-10	460
835	3500 K	>80	LFP500-G1-835-10	460
840	4000 K	>80	LFP500-G1-840-10	500
865	6500 K	>80	LFP500-G1-865-10	500

Color temperature		CRI	LFP500	lm/m
927	2700 K	>90	LFP500-G1-927-10	385
935	3500 K	>90	LFP500-G1-935-10	385
940	4000 K	>90	LFP500-G1-940-10	385
965	6500 K	>90	LFP500-G1-965-10	420



Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

Accessories

Power supply (see page 166) | Aluminum profile (see page 98) | Control system (see page 180)

Connector (see page 150) | Cover/lens (see page 162)

Compatibility	LFP500						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300	–	–					

Compatibility	LFP500
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LFP500				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

Only the following IP67 LED strips fit the profiles including IP connector, end cap and cover:

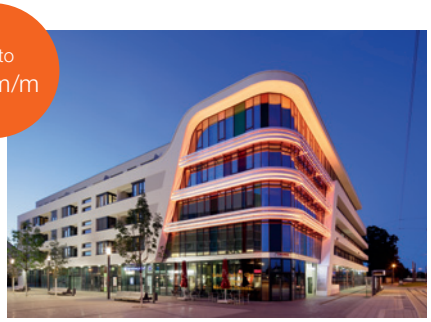
FX-QMW-G1-TU26H8-300, FX-QMW-G1-TU26H25W10-300, FX-QMW-G1-TU26H25W2-300 and FX-QMW-G1-TU26H25-300.

Optics for outdoor use: LF-LTS-COVER C, LF-LTS-COVER D and LF-LTS-COVER S.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Protect Colormix RGB

Up to 470 lm/m



Features and benefits

- IP67 protection
- UV and salt-mist-resistant
- Single bin 3 SDCM LEDs
- Lifetime of up to 50,000 h (L70B50) at T_p
- Internal constant-current regulator
- Optimum color mixing: each LED contains red, green and blue emitters
- LM80 and LM79 compliant
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

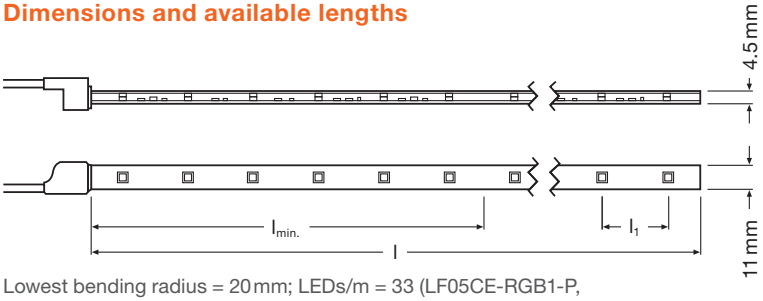
Application areas

- Effect lighting in architecture
- Dynamic lighting effects
- Façade lighting

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths



Lowest bending radius = 20 mm; LEDs/m = 33 (LF05CE-RGB1-P, LFP200-G3-RGB-06), 50 (LF05CA-RGB3-P)

L: LF05CA-RGB3-P = 4000 mm; LF05CE-RGB1-P, LFP200C-G3-RGB-06 = 6000 mm

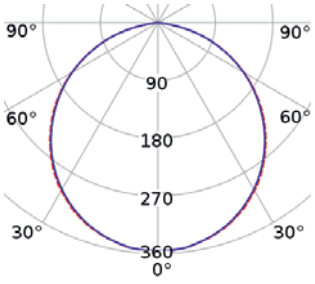
$L_{min.}$: LF05CA-RGB3-P = 100 mm; LF05CE-RGB1-P, LFP200C-G3-RGB-06 = 150 mm

L_1: LF05CA-RGB3-P = 20 mm; LF05CE-RGB1-P, LFP200C-G3-RGB-06 = 30 mm

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+70 °C (LFP200C), -30...+75 °C (LF05CA/LF05CE)
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

	LF05CA-RGB3-P	LF05CE-RGB1-P	LFP200C-G3-RGB-06
Power [W/m] at RGB	18	6.5	6.5
Luminous efficacy [lm/W] at RGB	24	32	32
Performance temperature T_p [°C]	40	40	35



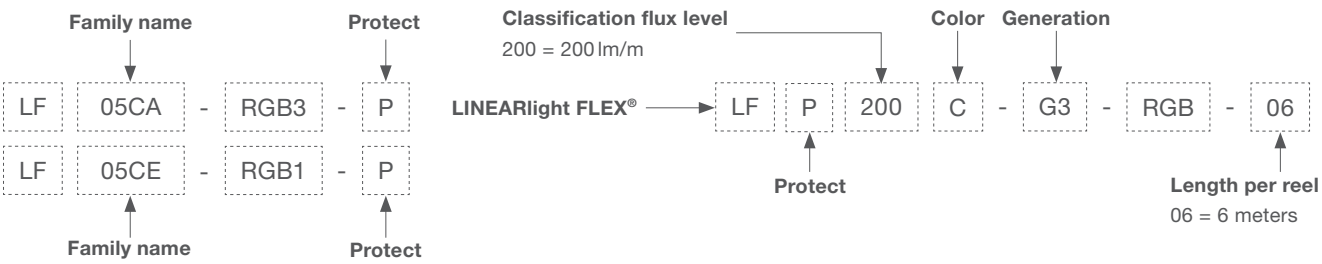
cd/1000 lm

Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color	Dom. λ (nm)	LF05CA-RGB3-P (lm/m)	LF05CE-RGB1-P (lm/m)	LFP200C-G3-RGB-06 (lm/m)
R	625	161	50	65
G	525	256	121	135
B	464	53	9	9
RGB	–	470	180	209



Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF05CA-RGB3-P, LF05CE-RGB1-P, LFP200C-G3-RGB-06						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	**Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300	–	–					

Compatibility	LF05CA-RGB3-P, LF05CE-RGB1-P, LFP200C-G3-RGB-06
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF05CA-RGB3-P, LF05CE-RGB1-P, LFP200C-G3-RGB-06				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting.
Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

Only the following IP67 LED strips fit the profiles including IP connector, end cap and cover:

FX-QMW-G1-TU26H8-300, FX-QMW-G1-TU26H25W10-300, FX-QMW-G1-TU26H25W2-300 and FX-QMW-G1-TU26H25-300.
Optics for outdoor use: LF-LTS-COVER C, LF-LTS-COVER D and LF-LTS-COVER S.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® Protect Monochrome

Features and benefits

- IP67 protection
- UV and salt-mist-resistant
- Lifetime of up to 50,000 h (L70B50) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Uniform and vivid color
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

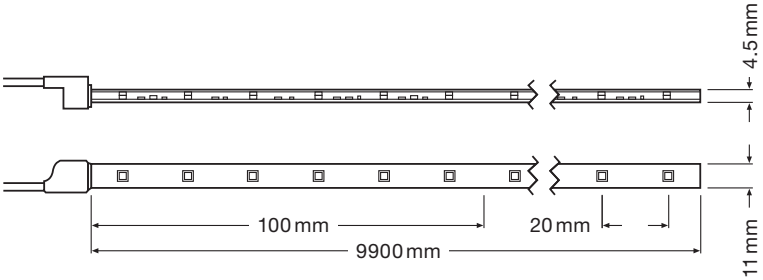
Application areas

- Effect lighting in architecture
- Decorative lighting

Standards

- CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

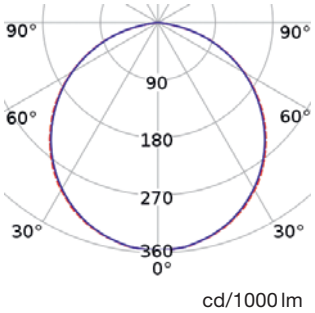


Lowest bending radius = 20 mm; LEDs/m = 50

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-30...+75 °C
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

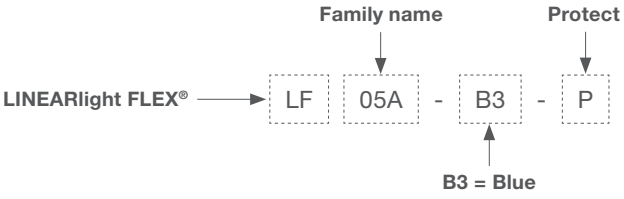
	LF05A-B3-P
Power [W/m]	7.3
Performance temperature T_p [°C]	25
Color	● Blue
Dom. λ [nm]	467
Luminous flux [lm/m]	80



Beam angle = 120°
Light distribution of LED module only

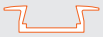
— C0-C180
— C90-C270

Product description and order code



Accessories

Power supply (see page 166)
Aluminum profile (see page 98)
Control system (see page 180)
Connector (see page 150)
Cover/lens (see page 162)

Compatibility	LF05A-B3-P						
Slim profile	**Slim 6 mm height** FX-QMS-G1-TU15H6-300	 **Slim 6 mm height, 3 mm wings** FX-QMS-G1-TU15H6W3-300	**Slim 12 mm height** FX-QMS-G1-TU16H12-300	**Slim 12 mm height, 3 mm wings** FX-QMS-G1-TU16H12W3-300	**Slim round** FX-QMS-G1-TR19H16-300	**Slim adjustable light angle** FX-QMS-G1-TU16H12LS-300	**Slim 45°** FX-QMS-G1-T45D19H19-300
W x H mm (without optics)	15.2 x 6	22 x 6	16 x 12	22 x 12	18.5 x 15.8	16 x 12	19 x 19
Reference page	106	108	110	114	104	112	102
Slim cover clear[1] FX-QMS-G1-CFTL-300 **Slim cover frosted**[1] FX-QMS-G1-CFDB-300	–	–					

Compatibility	LF05A-B3-P
Slim profile LF-LTS-2100	**Slim profile** LF-LTS-2100
W x H mm (without optics)	14.6 x 9.2
Reference page	100
Clear cover[2] LF-LTS-COVER-C	
Diffuse cover S[2] LF-LTS-COVER-S	
Diffuse cover D[2] LF-LTS-COVER-D	

Compatibility	LF05A-B3-P				
Wide profile	**Wide 30°** FX-QMW-G1-TK30D46H27-300	**Wide 8 mm height** FX-QMW-G1-TU26H8-300	**Wide 10 mm wings** FX-QMW-G1-TU26H25W10-300	**Wide 2 mm wings** FX-QMW-G1-TU26H25W2-300	**Wide 25 mm height** FX-QMW-G1-TU26H25-300
W x H mm (without optics)	45.6 x 26.7	26 x 7.5	46 x 24.5	26 x 24.5	30 x 24.5
Reference page	116	118	124	122	120
Wide flat cover clear[3] FX-QMW-G1-CFTP-300 **Wide flat cover frosted**[3] FX-QMW-G1-CFDB-300		–			
Wide round cover frosted[3] FX-QMW-G1-CRD-300					

Note:

Compatibility strip-profile at $T_a = 25\,°C$, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).

Only the following IP67 LED strips fit the profiles including IP connector, end cap and cover:

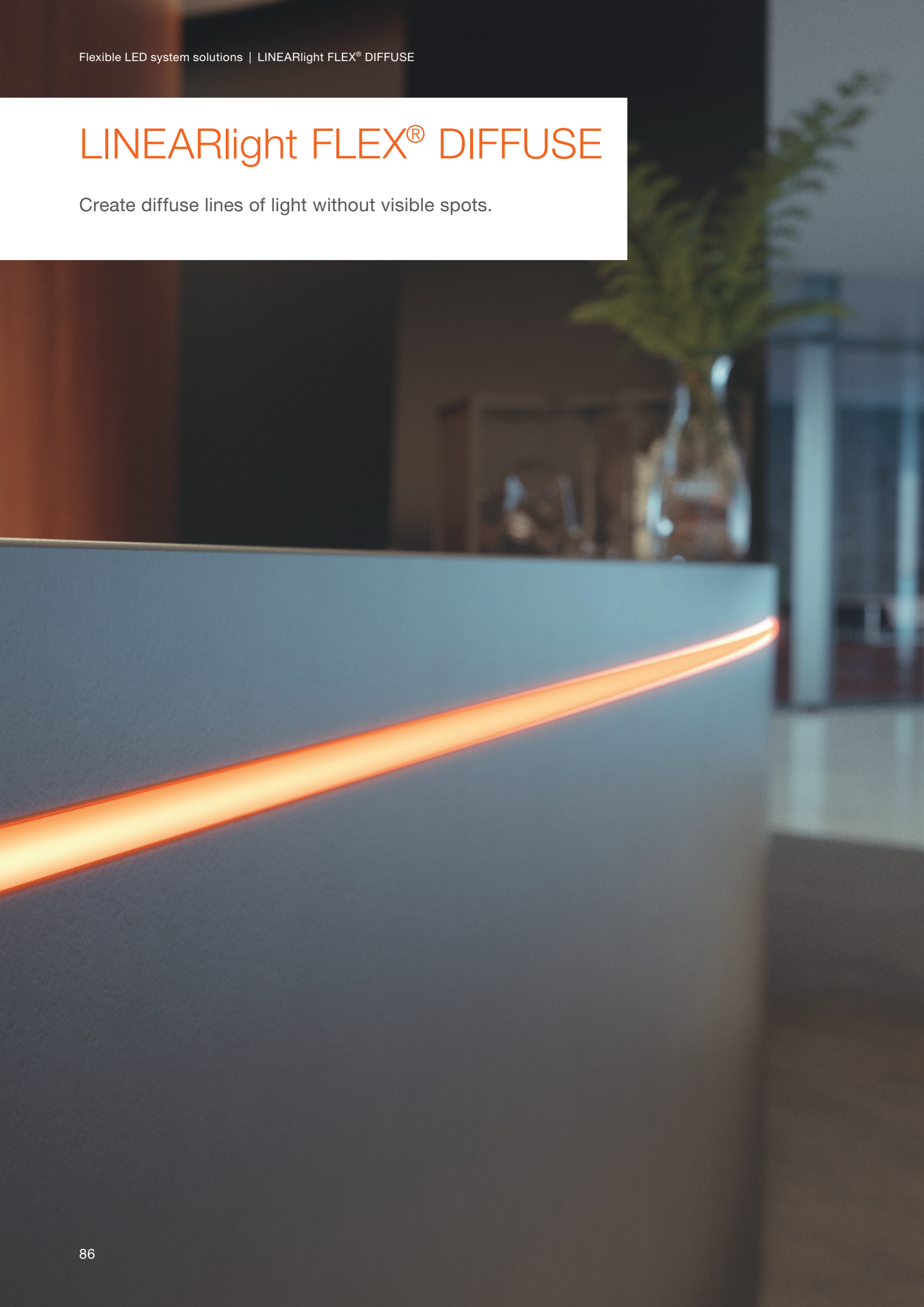
FX-QMW-G1-TU26H8-300, FX-QMW-G1-TU26H25W10-300, FX-QMW-G1-TU26H25W2-300 and FX-QMW-G1-TU26H25-300.

Optics for outdoor use: LF-LTS-COVER C, LF-LTS-COVER D and LF-LTS-COVER S.

[1] **Slim cover clear:** -10 % luminous flux (estimated value) / **Slim cover frosted:** -39 % luminous flux / **Slim lens cover:** -20 % luminous flux
[2] **Clear cover LTS:** -10 % luminous flux / **Diffuse cover LTS-D:** -38 % luminous flux / **Diffuse cover LTS-S:** -45 % luminous flux
[3] **Wide flat cover clear:** -10 % luminous flux (estimated value) / **Wide flat cover frosted:** -40 % luminous flux / **Wide round cover frosted:** -35 % luminous flux
For information about the diffusivity of the covers and light uniformity, check the table on page 126

LINEARlight FLEX® DIFFUSE

Create diffuse lines of light without visible spots.



LINEARlight FLEX® DIFFUSE Top White

Architectural integration, façade lighting, cove lighting, outdoor applications
Page 88

LINEARlight FLEX® DIFFUSE Side White

Architectural integration, façade lighting, cove lighting, outdoor applications
Page 90

LINEARlight FLEX® DIFFUSE Top Monochrome

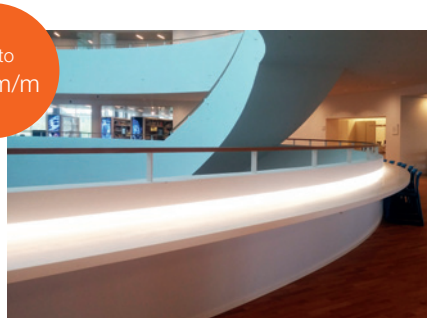
Architectural integration, decorative lighting, façade lighting, outdoor applications
Page 92

LINEARlight FLEX® DIFFUSE Side Monochrome

Architectural integration, decorative lighting, façade lighting, outdoor applications
Page 94

LINEARlight FLEX® DIFFUSE Top White

Up to 750 lm/m



Features and benefits

- Diffuse light lines without visible spots
- IP67 protection
- UV and salt-mist-resistant
- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Large selection of light color temperatures
- Dimmable by OPTOTRONIC® LED drivers

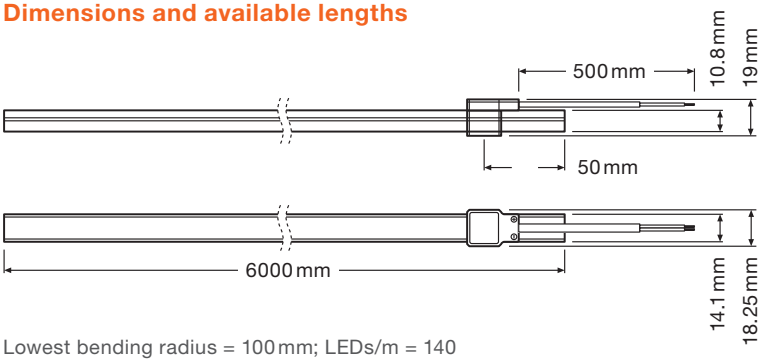
Application areas

- Architectural integration
- Façade lighting
- Cove lighting
- Outdoor applications

Standards

- CE, UL recognized component according to UL 8750, ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

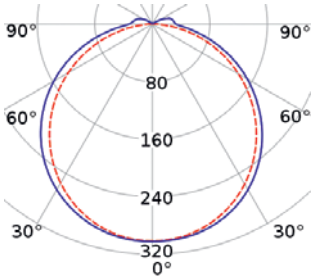


Lowest bending radius = 100 mm; LEDs/m = 140

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+65 °C
Storage temperature	-20...+85 °C
Ambient temperature range	-20...+50 °C

	LFD400T	LFD800T
Power [W/m] at 840	7.2	11.5
Luminous efficacy [lm/W] at 840	67	63
Performance temperature T_p [°C]	32	50



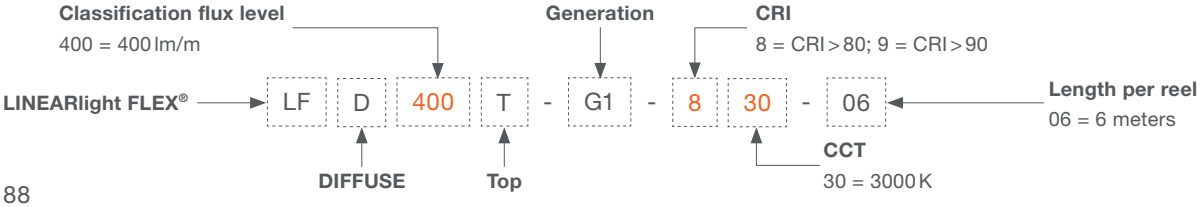
cd/1000 lm

Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature		CRI	LFD400T	lm/m	LFD800T	lm/m
● 825	2500 K	>80	LFD400T-G1-825-06	coming soon	LFD800T-G1-825-06	coming soon
● 827	2700 K	>80	LFD400T-G1-827-06	490	LFD800T-G1-827-06	750
● 830	3000 K	>80	LFD400T-G1-830-06	490	LFD800T-G1-830-06	750
● 835	3500 K	>80	LFD400T-G1-835-06	coming soon	LFD800T-G1-835-06	coming soon
○ 840	4000 K	>80	LFD400T-G1-840-06	480	LFD800T-G1-840-06	720
● 865	6500 K	>80	LFD400T-G1-865-06	460	LFD800T-G1-865-06	660
● 925	2500 K	>90	LFD400T-G1-925-06	coming soon	LFD800T-G1-925-06	coming soon
● 930	3000 K	>90	LFD400T-G1-930-06	coming soon	LFD800T-G1-930-06	coming soon
● 935	3500 K	>90	LFD400T-G1-935-06	coming soon	LFD800T-G1-935-06	coming soon
○ 940	4000 K	>90	LFD400T-G1-940-06	coming soon	LFD800T-G1-940-06	coming soon
● 965	6500 K	>90	LFD400T-G1-965-06	coming soon	LFD800T-G1-965-06	coming soon



Accessories

Power supply (see page 166)

Aluminum profile (see page 153)

Control system (see page 180)

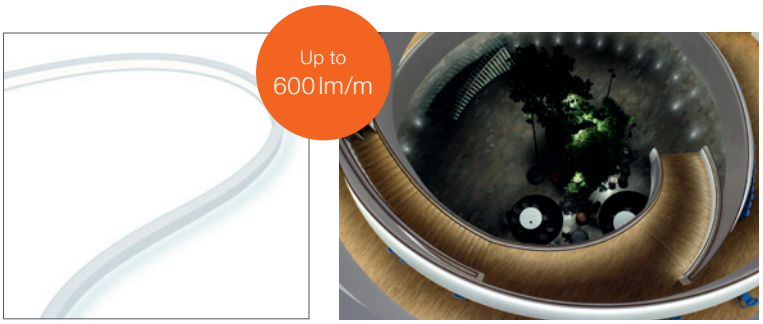
Connector (see page 153)

Other accessories (see page 153)

Compatibility	LFD400T, LFD800T	
Profile	**Top profile** FX-LFDM-G1-TTL-16H11W10-200	**Top profile** FX-LFDM-G1-TT-16H16-200
W x H mm (without optics)	16.2 x 20.5	16.2 x 15.5
Reference page	153	153

Note:
Compatibility strip-profile at $T_a = 25\,°C$, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating conditions).

LINEARlight FLEX® DIFFUSE Side White



Features and benefits

- Diffuse light lines without visible spots
- IP67 protection
- UV and salt-mist-resistant
- Color uniformity ≤2 SDCM (see p. 96)
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Large selection of light color temperatures
- Dimmable by OPTOTRONIC® LED drivers

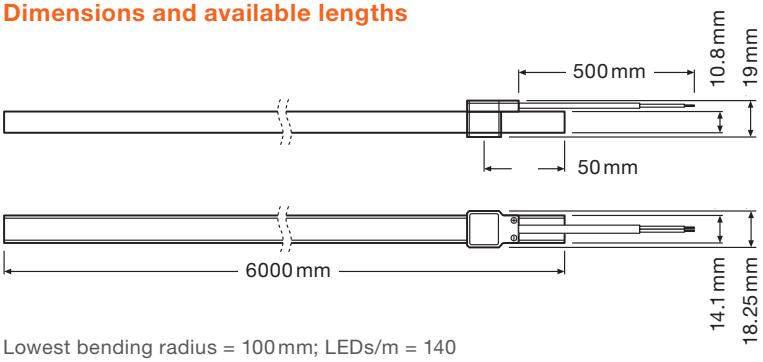
Application areas

- Architectural integration
- Façade lighting
- Cove lighting
- Outdoor applications

Standards

- CE, UL recognized component according to UL 8750, ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

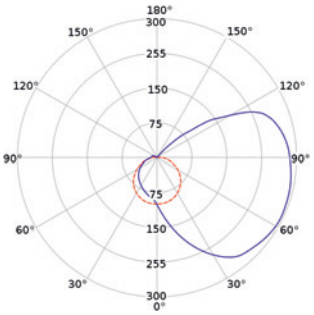


Lowest bending radius = 100 mm; LEDs/m = 140

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+65 °C
Storage temperature	-20...+85 °C
Ambient temperature range	-20...+50 °C (LFD600S) -25...+50 °C (LFD400S)

	LFD400S	LFD600S
Power [W/m] at 840	7.2	11.5
Luminous efficacy [lm/W] at 840	57	52
Performance temperature T_p [°C] at 840	32	50

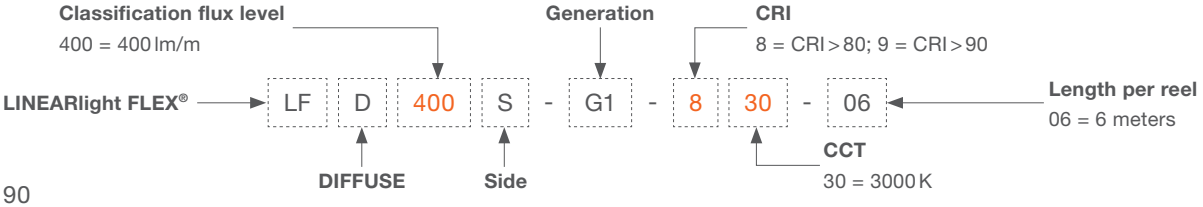


Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color temperature		CRI	LFD400S	lm/m	LFD600S	lm/m
825	2500 K	>80	LFD400S-G1-825-06	coming soon	LFD600S-G1-825-06	coming soon
827	2700 K	>80	LFD400S-G1-827-06	410	LFD600S-G1-827-06	600
830	3000 K	>80	LFD400S-G1-830-06	410	LFD600S-G1-830-06	600
840	4000 K	>80	LFD400S-G1-840-06	410	LFD600S-G1-840-06	600
865	6500 K	>80	LFD400S-G1-865-06	350	LFD600S-G1-865-06	530
925	2500 K	>90	LFD400S-G1-925-06	coming soon	LFD600S-G1-925-06	coming soon
930	3000 K	>90	LFD400S-G1-930-06	coming soon	LFD600TS-G1-930-06	coming soon
935	3500 K	>90	LFD400S-G1-935-06	coming soon	LFD600S-G1-935-06	coming soon
940	4000 K	>90	LFD400S-G1-940-06	coming soon	LFD600S-G1-940-06	coming soon
965	6500 K	>90	LFD400S-G1-965-06	coming soon	LFD600S-G1-965-06	coming soon



Accessories

Power supply (see page 166)

Aluminum profile (see page 154)

Control system (see page 180)

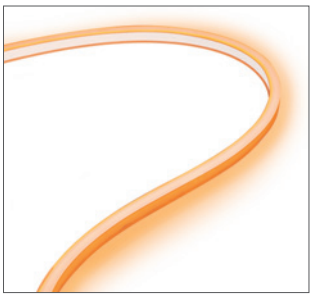
Connector (see page 154)

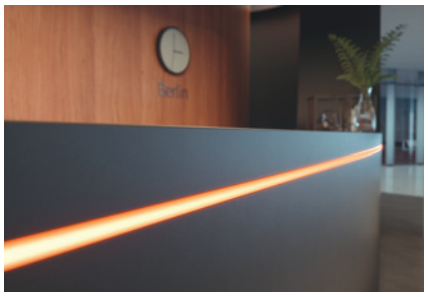
Other accessories (see page 154)

Compatibility	LFD400S, LFD600S
Profile	**Side profile** FFX-LFDM-G1-TS-16H16-200
W x H mm (without optics)	16.2 x 16.5
Reference page	154

Note:
Compatibility strip-profile at $T_a = 25\,°C$, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating conditions).

LINEARlight FLEX® DIFFUSE Top Monochrome





Features and benefits

- Diffuse light lines without visible spots
- IP67 protection
- UV and salt-mist-resistant
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

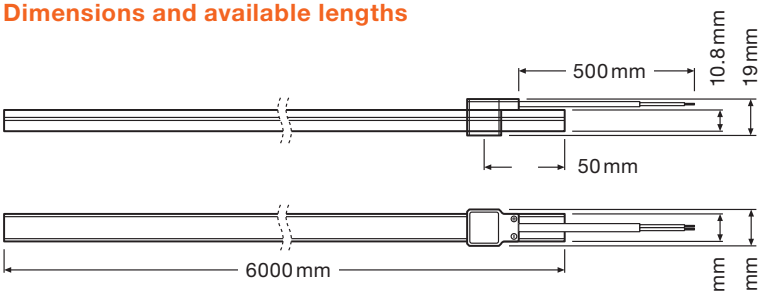
Application areas

- Architectural integration
- Decorative lighting
- Façade lighting
- Outdoor applications

Standards

- CE, UL recognized component according to UL 8750, ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

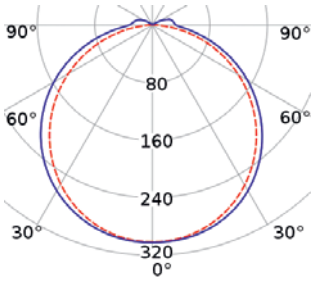


Lowest bending radius = 100 mm; LEDs/m = 150
*Green version available in 6 or 3 m reel

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-20...+65 °C
Storage temperature	-20...+85 °C
Ambient temperature range	-20...+50 °C

	LFD400MT
Power [W/m]	12
Performance temperature T_p [°C]	32



cd/1000 lm

Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color	Dom. λ (nm)	LFD400MT	lm/m	lm/W
Blue	457-467	LFD400MT-G1-BL-06	60	5
Green	525-539	LFD400MT-G1-GR-06	285	24
		LFD400MT-G1-GR-03		
Red	612-626	LFD400MT-G1-RE-06	320	27
Yellow	586-594	LFD400MT-G1-YE-06	162	14
Orange	603-611	LFD400MT-G1-OR-06	175	15

Classification flux level
400 = 400 lm/m

Generation

LINEARlight FLEX® → LF | D | 400 | MT - G1 - BL - 06

Length per reel
06 = 6 meters
03 = 3 meters (only for green version)

DIFFUSE
Monochrome Top
Color
BL = Blue, GR = Green, RE = Red, YE = Yellow, OR = Orange

Accessories

Power supply (see page 166)

Aluminum profile (see page 153)

Control system (see page 180)

Connector (see page 153)

Other accessories (see page 153)

Compatibility	LFD400MT	
Profile	**Top profile** FX-LFDM-G1-TTL-16H11W10-200	**Top profile** FX-LFDM-G1-TT-16H16-200
W x H mm (without optics)	16.2 x 20.5	16.2 x 15.5
Reference page	153	153

Note:
Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating conditions).

LINEARlight FLEX® DIFFUSE Side Monochrome

Features and benefits

- Diffuse light lines without visible spots
- IP67 protection
- UV and salt-mist-resistant
- Lifetime of up to 60,000 h (L80B10) at T_p
- Internal constant-current regulator
- LM80 and LM79 compliant
- Dimmable by OPTOTRONIC® LED drivers
- Reel-to-reel technology

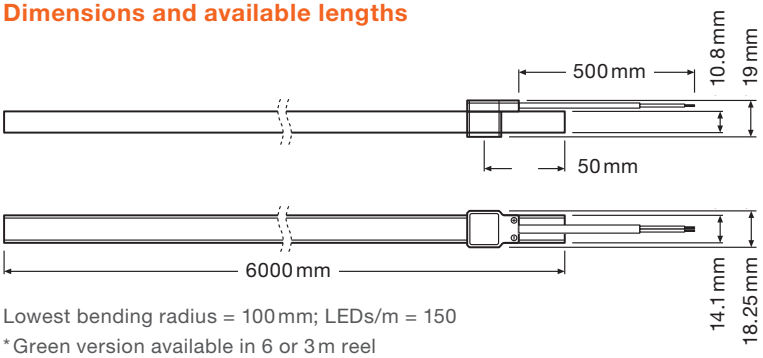
Application areas

- Architectural integration
- Decorative lighting
- Façade lighting
- Outdoor applications

Standards

- CE, UL recognized component according to UL 8750, ENEC, EAC, VDE according to ENEC 10

Dimensions and available lengths

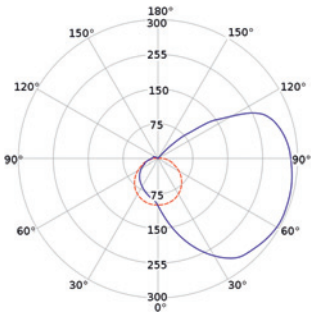


Lowest bending radius = 100 mm; LEDs/m = 150
*Green version available in 6 or 3 m reel

Electrical and output data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation at T_c point	-30...+65 °C
Storage temperature	-40...+85 °C
Ambient temperature range	-20...+50 °C

	LFD400MS
Power [W/m]	12
Performance temperature T_p [°C]	35



cd/1000 lm

Beam angle = 120°
Light distribution of LED module only

— C0-C180
— C90-C270

Product description and order code

Color	Dom. λ (nm)	LFD400MS	lm/m	lm/W
● Blue	457-467	LFD400MS-G1-BL-06	55	5
● Green	525-539	LFD400MS-G1-GR-06	260	22
		LFD400MS-G1-GR-03		
● Red	612-626	LFD400MS-G1-RE-06	240	20
● Yellow	586-594	LFD400MS-G1-YE-06	150	13
● Orange	603-611	LFD400MS-G1-OR-06	160	13

LINEARlight FLEX® → LF | D | 400 | MS | - | G1 | - | BL | - | 06

Classification flux level
400 = 400 lm/m

Generation

DIFFUSE

Monochrome Side

Color
BL = Blue, GR = Green, RE = Red, YE = Yellow, OR = Orange

Length per reel
06 = 6 meters
03 = 3 meters (only for green version)

Accessories

Power supply (see page 166)

Aluminum profile (see page 154)

Control system (see page 180)

Connector (see page 154)

Other accessories (see page 154)

Compatibility	LFD400MS
Profile	**Side profile** FF-LFDM-G1-TS-16H16-200
W x H mm (without optics)	16.2 x 16.5
Reference page	154

Note:
Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating conditions).

Disclaimer

The color uniformity indicated is a result of internal theoretical and statistical evaluation under specific conditions; it is intended to provide our customers with an estimation of color uniformity in real applications. Although LEDs used in OSRAM strips are single bin 3 SDCM ellipse, their careful combination in an LED strip during a proper manufacturing process results in a mixed light through a diffusive material which is within a 2 SDCM ellipse, with a probability greater than 90 %.

Due to variability of each single chip and statistical method, this indication cannot be considered as legally binding. The color consistency claim can be found inside the official datasheets of every product.

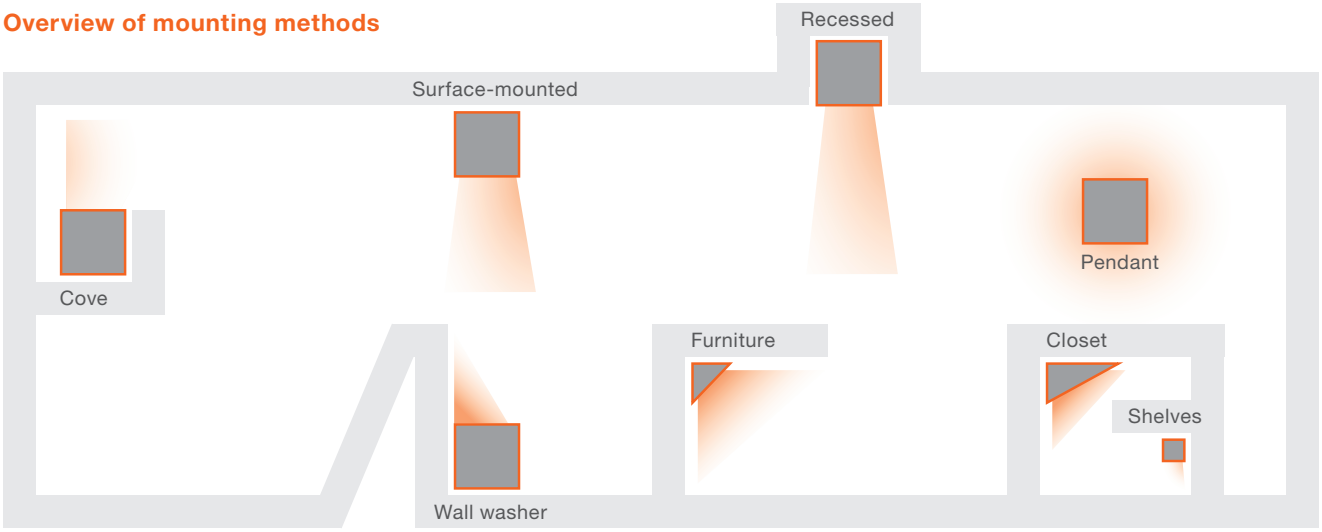
The values reported are based on measurements of a 500 mm module.

Due to the complex manufacturing process of light-emitting diodes, the specified typical values of the technical LED parameters merely represent purely statistical variables. They do not necessarily correspond to the actual technical parameters of each individual product, which may deviate from typical values.

Profiles

LINEARlight FLEX® LED strips open up a wide variety of different applications, especially thanks to our Flexessories®. For the creation of perfectly matched systems, our profiles facilitate installation and can be mounted in any kind of environment, even in confined spaces. With our slim profile and wide profile systems, you are able to develop unique lighting concepts that exactly meet your needs. The aluminum profiles can be combined with lenses of different beam angles and ensure homogeneous light distribution together with our range of covers. The entire product family is quick and easy to install, very durable and corrosion-resistant. Use our profiles to make your lighting design even more flexible, efficient and reliable.

Overview of mounting methods



Slim profile system

Slim profile 45°
FX-QMS-G1-T45D19H19-300

With its compact dimensions, the profile is ideal for highlighting furniture, shelves and closets. **Page 102**

Slim profile round
FX-QMS-G1-TR19H16-300

In addition to furniture and handrails, the profile is also suitable for pendant solutions. **Page 104**

Slim profile 6 mm height
FX-QMS-G1-TU15H6-300

Compact dimensions make the profile a good choice for coves, furniture, shelves and closets. **Page 106**

Slim profile 6 mm height, 3 mm wings
FX-QMS-G1-TU15H6W3-300

The profile is best suited for embedding seamless light lines into flat surfaces. **Page 108**

Slim profile 12 mm height
FX-QMS-G1-TU16H12-300

Slim but powerful, the profile can be used for general lighting, wall grazing and wall washing. **Page 110**

Slim profile adjustable light angle
FX-QMS-G1-TU16H12LS-300

The profile is suitable for mood and effect lighting across large surfaces, but also for general lighting. **Page 112**

Slim profile 12 mm height, 3 mm wings
FX-QMS-G1-TU16H12W3-300

The slim and powerful profile can be used for both decorative and general lighting. **Page 114**

Slim profile
LF-LTS-2100

The slim and powerful profile can highlight furniture or coves, even in confined spaces. **Page 100**

Wide profile system

Wide profile 30°
FX-QMW-G1-TK30D46H27-300

The profile is suitable for accent lighting and perfectly sets the stage for worktops and closets. **Page 116**

Wide profile 8 mm height
FX-QMW-G1-TU26H8-300

Due to its reduced height, the profile is ideal for surface-mounted or embedded lighting in suspended ceilings. **Page 118**

Wide profile 25 mm height
FX-QMW-G1-TU26H25-300

The profile ensures functional and elegant solutions for decorative and general lighting. **Page 120**

Wide profile 25 mm height, 2 mm wings
FX-QMW-G1-TU26H25W2-300

In decorative and general lighting, the profile is best suited for recessed mounting. **Page 122**

Wide profile 25 mm height, 10 mm wings
FX-QMW-G1-TU26H25W10-300

Thanks to its accessories for recessed mounting, the profile is suited for architectural integration. **Page 124**

Slim profile system

Slim profile
LF-LTS-2100

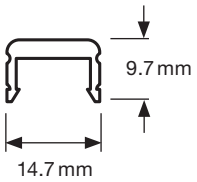
Features and benefits

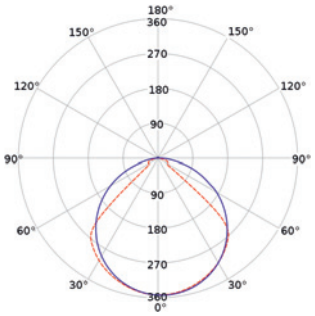
Powerful lighting in compact size. With reduced dimensions, this slim yet powerful profile is ideal for general illumination in confined spaces, such as coves. Suitable for lighting up furniture, cabinets and shelves and for integration into plasterboards, for both decorative and general lighting solutions.

Application areas

- Architectural integration
- Cove lighting
- Shelves, closets, showcases, cabinets
- Handrails and stairs

Slim profile

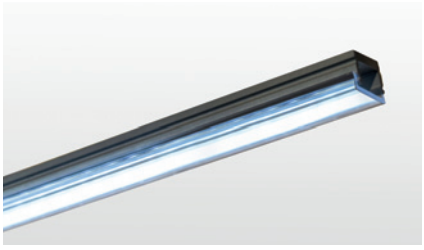




Light distribution without cover

Slim profile[1]
LF-LTS-2100
Dimensions: W14.7 x H9.7 x L2100 mm

Cover

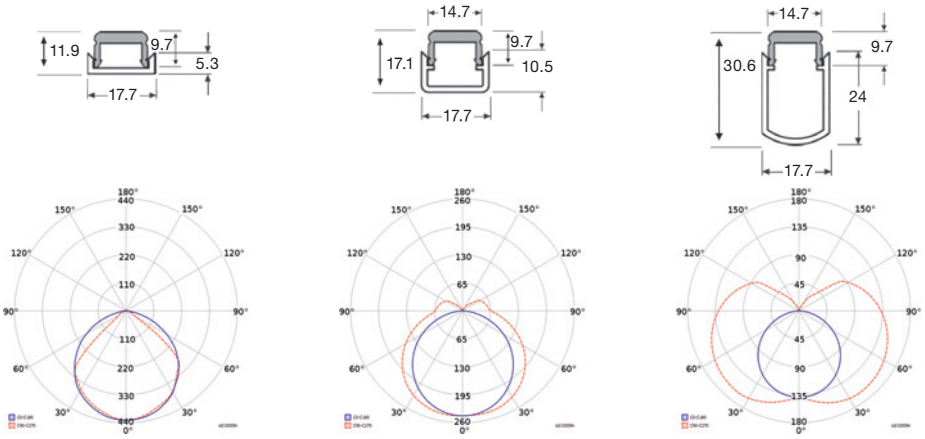


Clear cover LF-LTS-COVER-C[2]
Dimensions: W17.7 x H5.3 x L2100 mm

Diffuse cover LF-LTS-COVER-S[2]
Dimensions: W17.7 x H10.5 x L2100

Diffuse cover LF-LTS-COVER-D[2]
Dimensions: W17.7 x H24 x L2100

[1] -15 % luminous flux due to the profile's efficiency (Light Output Ratio = 85 %)
[2] -10 % luminous flux with clear cover, -45 % with diffuse cover S and -38 % with diffuse cover D
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

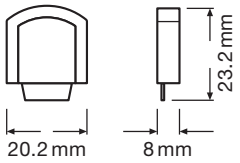


Clear cover | Diffuse cover S | Diffuse cover D

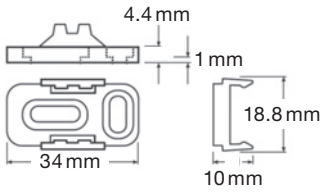
All figures in mm

End cap and mounting bracket

Silicone end cap for LF-LTS-COVER-D
LF-LTS-ENDCAP



Mounting bracket
LF-LTS-MB



Use with LED strips[3]

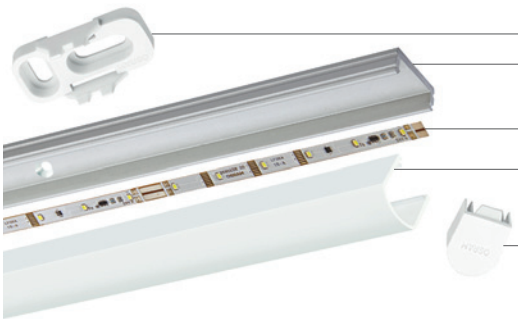
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TW*	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF3000TWW	p. 64	LF200C	p. 68
		LF1200/2000/3000SW	p. 58	LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000	p. 74	LFP200C	p. 82
LFP3000*	p. 74	LF05A-B3-P	p. 84
LFP1200/2000SW	p. 76		
LFP3000SW*	p. 76		

Complete system example



Mounting bracket
LF-LTS-MB

Slim profile
LF-LTS-2100

LED strip

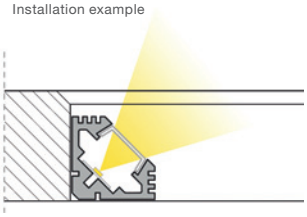
Diffuse cover
LF-LTS-COVER-D

End cap for LF-LTS-COVER-D
LF-LTS-ENDCAP

Slim profile system

Slim profile 45°
FX-QMS-G1-T45D19H19-300

Installation example



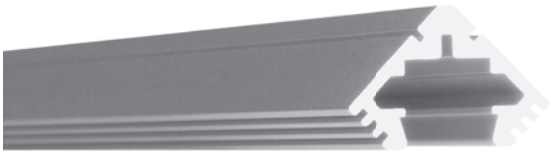
Features and benefits

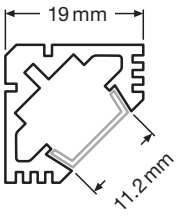
Bring the light to and from every corner, simply and with a pleasant result. Thanks to the compact dimensions, the slim profile 45° is ideal for highlighting furniture, shelves and closets with minimal space requirements. The high quality of the materials used makes it suitable to be installed in applications where it is directly visible and touchable.

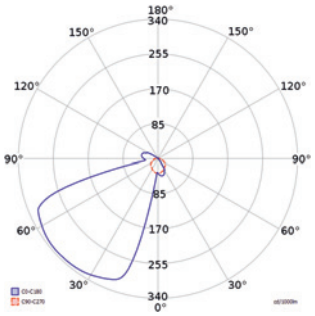
Application areas

- Architectural integration
- Shelves, closets, showcases, cabinets
- Cove lighting

Slim profile



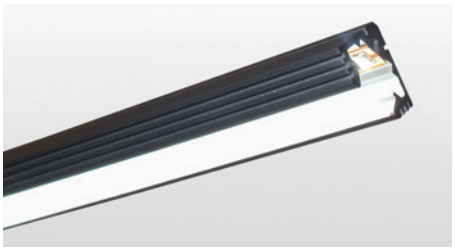


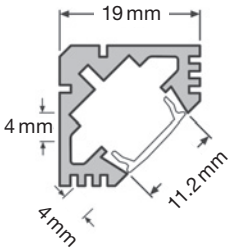


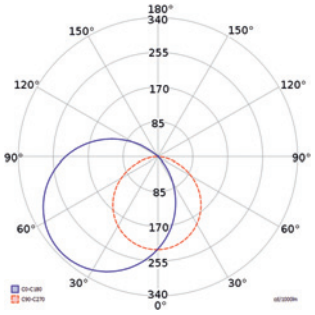
Light distribution without cover

Slim profile 45°[1]
FX-QMS-G1-T45D19H19-300
Dimensions: W19 x H19 x L3000 mm

Cover







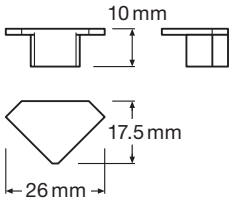
Slim cover frosted

Slim cover frosted[2]
FX-QMS-G1-CFDB-300
or
Slim cover clear[2]
FX-QMS-G1-CFTL-300
Dimensions: W11 x H4 x L3000 mm

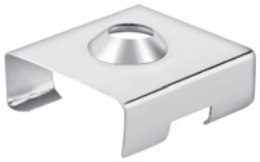
[1] -35 % luminous flux due to the profile's efficiency (Light Output Ratio = 65 %)
[2] -39 % luminous flux with frosted cover and -10 % with clear cover (estimated value)
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

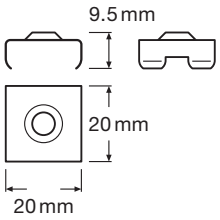
End cap and mounting bracket

End cap
FX-QMS-G1-EFGP-T45D19H19
or
End cap with hole
FX-QMS-G1-EFGH-T45D19H19



Mounting bracket
FX-QMS-G1-BMZI-T45D19H19





Use with LED strips[3]

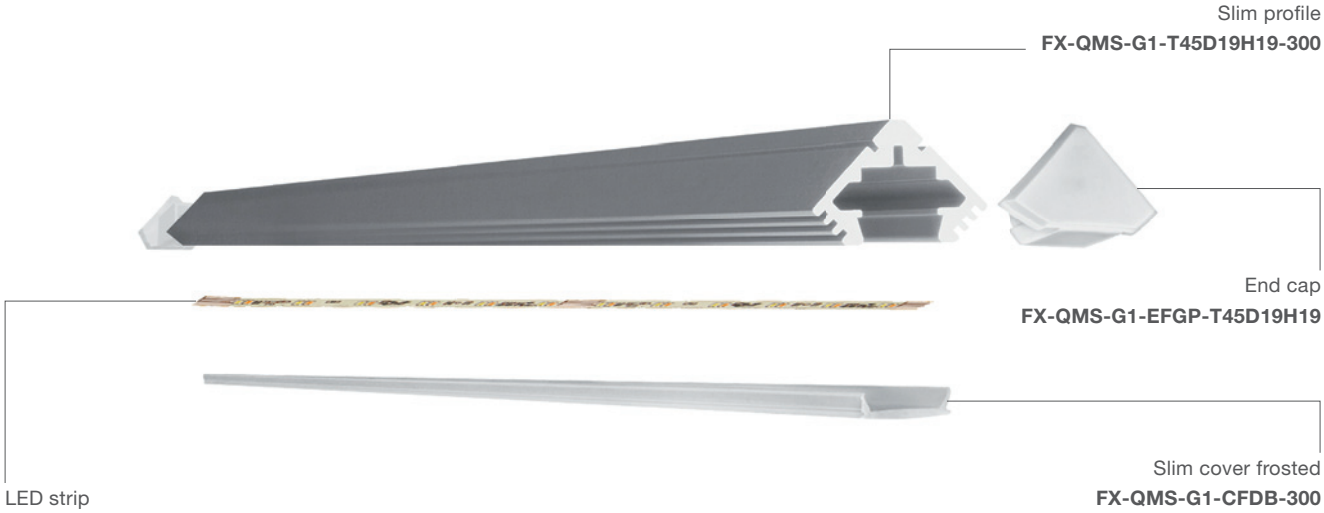
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000/3000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TWW	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF1200/2000/3000SW	p. 58	LF200C	p. 68
				LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000	p. 74	LFP200C	p. 82
LFP1200/2000SW	p. 76	LF05A-B3-P	p. 84

Complete system example



Slim profile system

Slim profile round
FX-QMS-G1-TR19H16-300

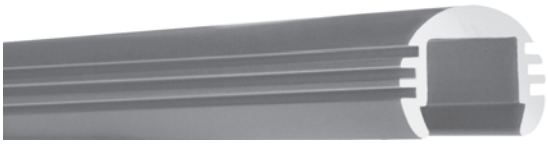
Features and benefits

Bring the light exactly where you need it. Thanks to its compact dimensions, this round profile is perfect for furniture and handrails. This also makes it an attractive solution for pendant lighting. The high quality of the materials used makes it suitable to be installed in applications where it is directly visible and touchable.

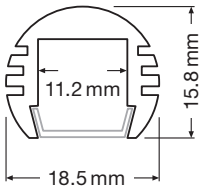
Application areas

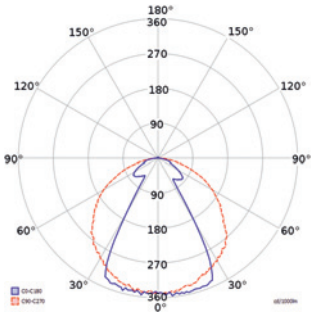
- Architectural integration
- Shelves, closets, showcases, cabinets
- Task lighting

Slim profile



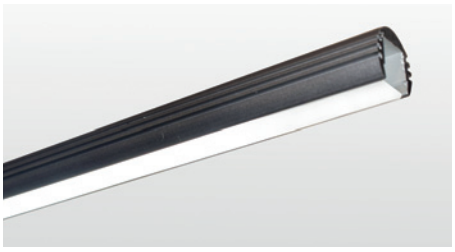
Slim profile round[1]
FX-QMS-G1-TR19H16-300
Dimensions: W18.5 x H15.8 x L3000 mm



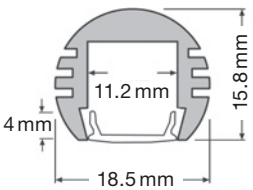


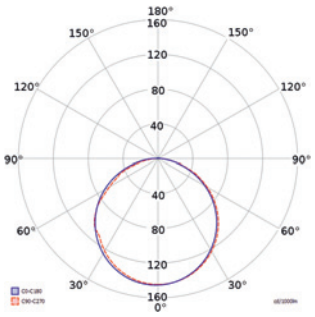
Light distribution without cover

Cover



Slim cover frosted[2]
FX-QMS-G1-CFDB-300
or
Slim cover clear[2]
FX-QMS-G1-CFTL-300
Dimensions: W11 x H4 x L3000 mm



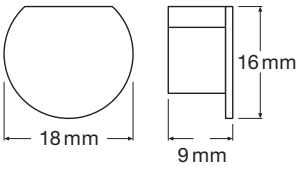


Slim cover frosted

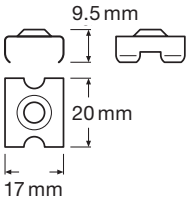
[1] -30 % luminous flux due to the profile's efficiency (Light Output Ratio = 70 %)
[2] -39 % luminous flux with frosted cover and -10 % with clear cover (estimated value)
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

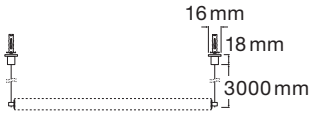
End cap
FX-QMS-G1-EFGP-TR19H16
or
End cap with hole
FX-QMS-G1-EFGH-TR19H16



Mounting bracket
FX-QMS-G1-BMZI-DIV1



Pendant kit
FX-QMS-G1-TR19H16-PENDANTKIT
One pendant kit contains: 2 electricity end caps, 2 steel cables of 3 m each, 2 conductive fasteners



Use with LED strips[3]

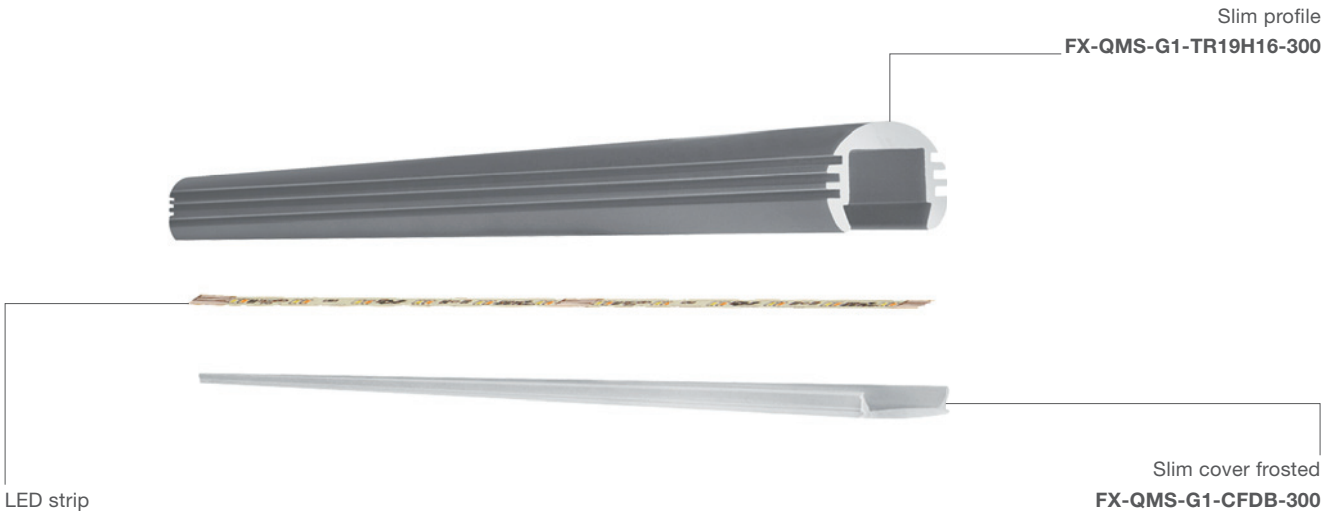
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TW*	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF3000TWW	p. 64	LF200C	p. 68
		LF1200/2000/3000SW	p. 58	LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

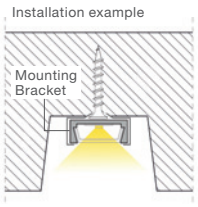
White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000	p. 74	LFP200C	p. 82
LFP3000*	p. 74	LF05A-B3-P	p. 84
LFP1200/2000SW	p. 76		
LFP3000SW*	p. 76		

Complete system example



Slim profile system

Slim profile 6 mm height
FX-QMS-G1-TU15H6-300



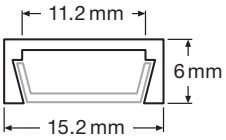
Features and benefits

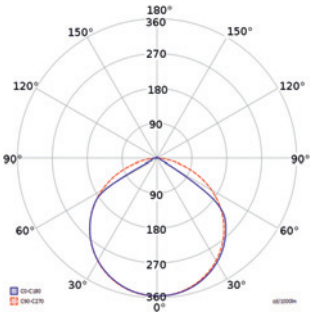
The best choice for a good lighting with an almost invisible light source. Thanks to the compact dimensions, this slim profile is ideal for general illumination in confined spaces, such as coves, furniture, shelves and closets.

Application areas

- Architectural integration
- Cove lighting
- Shelves, closets, showcases, cabinets
- Handrails and stairs

Slim profile

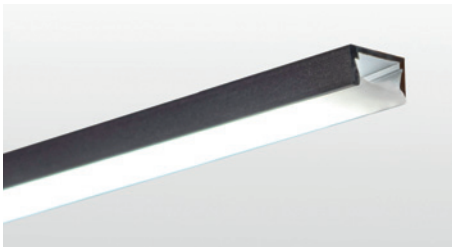


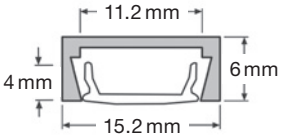


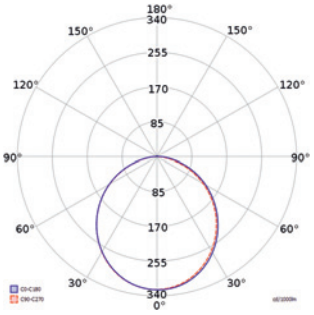
Light distribution without cover

Slim profile 6 mm height[1]
FX-QMS-G1-TU15H6-300
Dimensions: W15.2 x H6 x L3000 mm

Cover







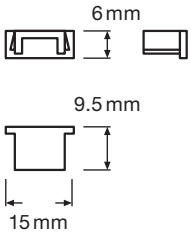
Slim cover frosted

Slim cover frosted[2]
FX-QMS-G1-CFDB-300
or
Slim cover clear[2]
FX-QMS-G1-CFTL-300
Dimensions: W11 x H4 x L3000 mm

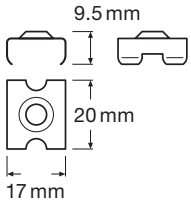
[1] -5 % luminous flux due to the profile's efficiency (Light Output Ratio = 95 %).
[2] -39 % luminous flux with frosted cover and -10 % with clear cover (estimated value).
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

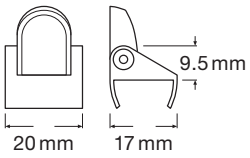
End cap
FX-QMS-G1-EFGP-TU15H6
or
End cap with hole
FX-QMS-G1-EFGH-TU15H6



Mounting bracket
FX-QMS-G1-BMZI-DIV1



Tiltable mounting bracket (moving 90°)
ADJUSTABLESLIMBRACKET



Use with LED strips[3]

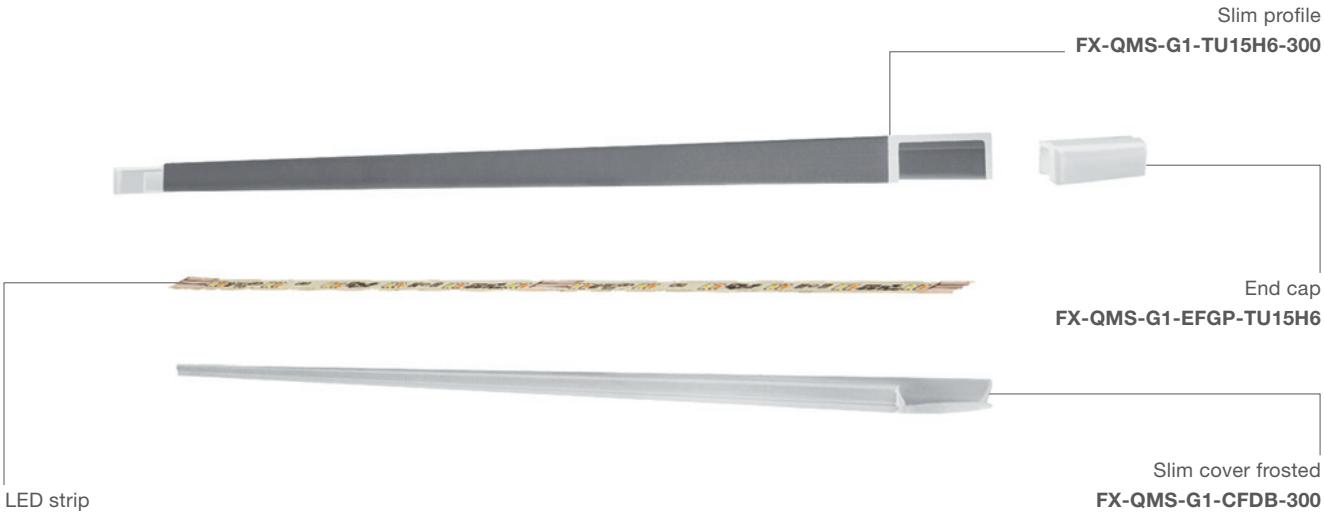
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TW*	p. 64	LF05CE	p. 68
LF1200/2000	p. 56	LF1200/2000SW	p. 58	LF200C	p. 68
				LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip (only without cover)

White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000	p. 74	LFP200C	p. 82
		LF05A-B3-P	p. 84
LFP1200/2000SW	p. 76		

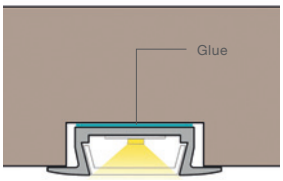
Complete system example



Slim profile system

Slim profile 6 mm height, 3 mm wings
FX-QMS-G1-TU15H6W3-300

Recessed installation example



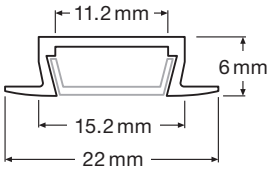
Features and benefits

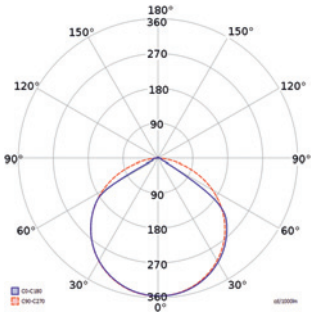
Embed homogeneous seamless lines of light into flat surfaces. Thanks to the compact dimensions, this slim profile is ideal to embed the light into any surface with a minimal thickness of 6 mm. Suitable for lighting up furniture, cabinets, shelves, plasterboards, to decorate or even provide additional general lighting.

Application areas

- Architectural integration
- Shelves, closets, showcases, cabinets
- Handrails and stairs

Slim profile

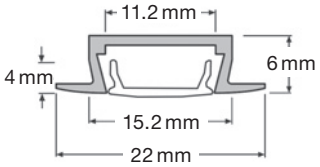


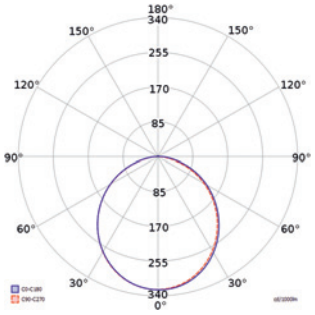


Light distribution without cover

Slim profile 3 mm wings[1]
FX-QMS-G1-TU15H6W3-300
Dimensions: W22 x H6 x L3000 mm

Cover





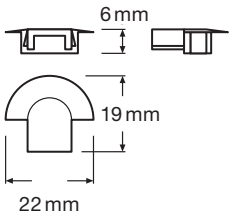
Slim cover frosted

Slim cover frosted[2]
FX-QMS-G1-CFDB-300
or
Slim cover clear[2]
FX-QMS-G1-CFTL-300
Dimensions: W11 x H4 x L3000 mm

[1] -5 % luminous flux due to the profile's efficiency (Light Output Ratio = 95 %)
[2] -39 % luminous flux with frosted cover and -10 % with clear cover (estimated value)
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

End cap
FX-QMS-G1-EFGP-TU15H6W3
or
End cap with hole
FX-QMS-G1-EFGH-TU15H6W3



Use with LED strips[3]

IP00 LED strip

White

LF500	p. 62
LF800S	p. 60
LF1200/2000	p. 56

Special White

LF1200/2000TW	p. 64
LF3000TW*	p. 64
LF1200/2000SW	p. 58

Color & RGBW

LF05CA2	p. 68
LF05CE	p. 68
LF200C	p. 68
LF05A2	p. 70
LF700/1300RGBW	p. 66

IP67 LED strip (only without cover)

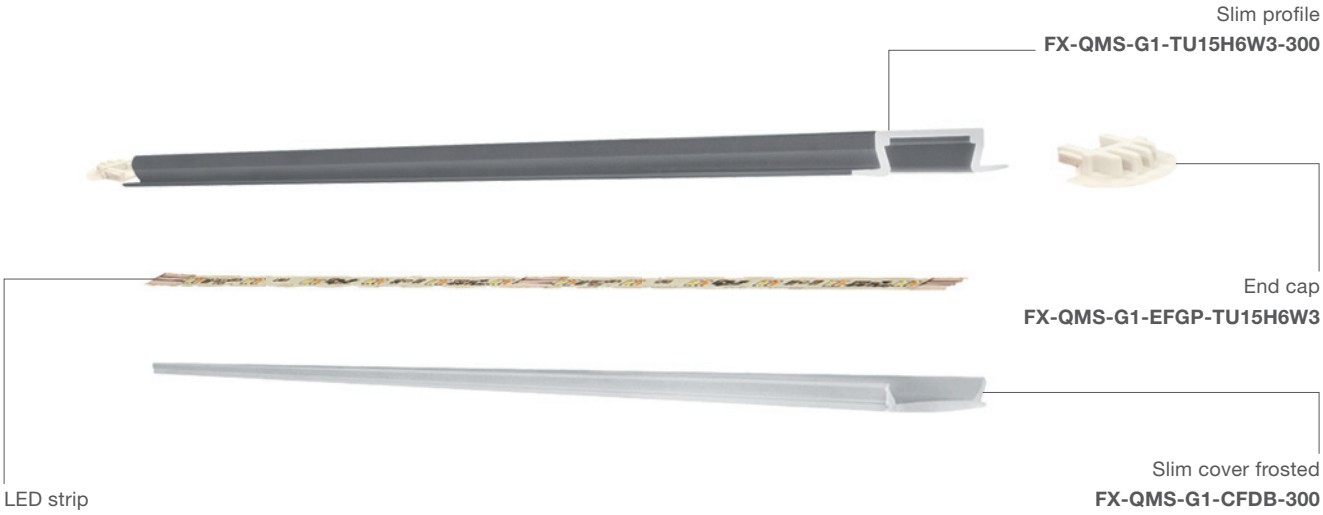
White & Special White

LFP500	p. 80
LFP800S	p. 78
LFP800/1200/2000	p. 74
LFP1200/2000SW	p. 76

Color

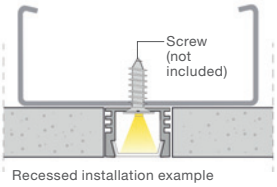
LF05CA-RGB3-P	p. 82
LF05CE-RGB1-P	p. 82
LFP200C	p. 82
LF05A-B3-P	p. 84

Complete system example

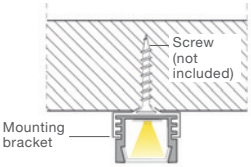


Slim profile system

Slim profile 12 mm height
FX-QMS-G1-TU16H12-300



Recessed installation example



Surface installation example

Features and benefits

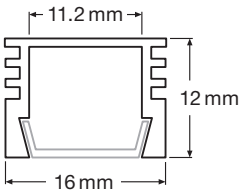
Powerful lighting in compact size. With reduced dimensions, this slim yet powerful profile is ideal to create tailor-made general lighting solutions thanks to the different available optics, also in confined spaces, such as coves and furniture. Perfect for wall grazing and wall washing effects thanks to narrow beam lens cover.

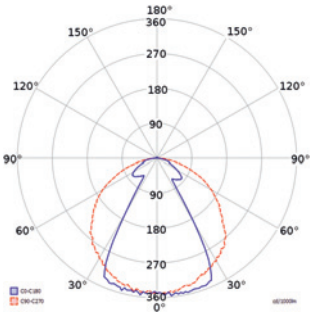
Application areas

- Architectural integration
- Shelves, closets, showcases, cabinets
- Handrails and stairs
- Wall washing

Slim profile

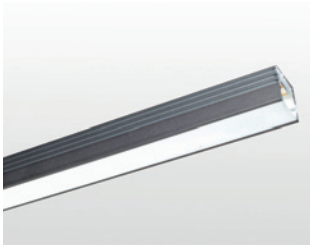
Slim profile 12 mm height[1]
FX-QMS-G1-TU16H12-300
Dimensions: W16 x H12 x L3000 mm



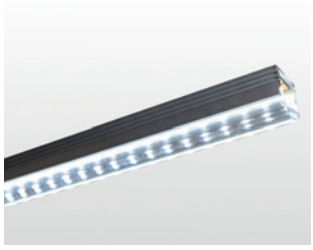


Light distribution without cover

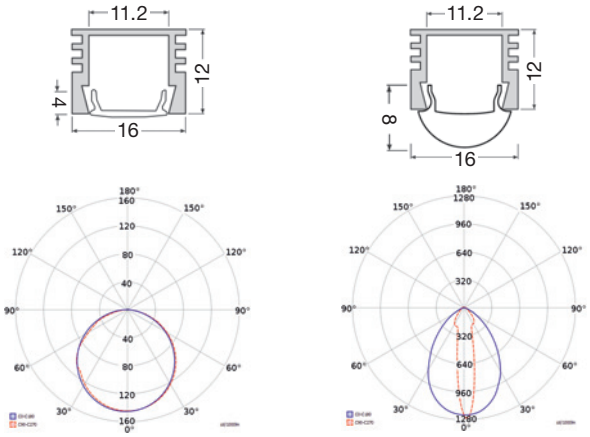
Cover



Slim cover frosted[2]
FX-QMS-G1-CFDB-300
or
Slim cover clear[2]
FX-QMS-G1-CFTL-300
Dimensions: W11 x H4 x L3000 mm



Slim lens cover[2]
FX-QMS-G1-CLT-300
Dimensions: W16 x H8 x L3000 mm



Slim cover frosted

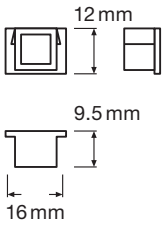
Slim lens cover 10° beam angle

All figures in mm

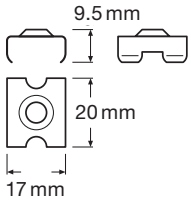
[1] -30 % luminous flux due to the profile's efficiency (Light Output Ratio = 70 %)
[2] -20 % luminous flux with lens cover, -39 % with frosted cover and -10 % with clear cover (estimated value)
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

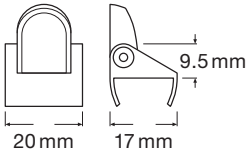
End cap
FX-QMS-G1-EFGP-TU16H12LS
or
End cap with hole
FX-QMS-G1-EFGH-TU16H12LS



Mounting bracket
FX-QMS-G1-BMZI-DIV1



Tiltable mounting bracket (moving 90°)
ADJUSTABLESLIMBRACKET



Use with LED strips[3]

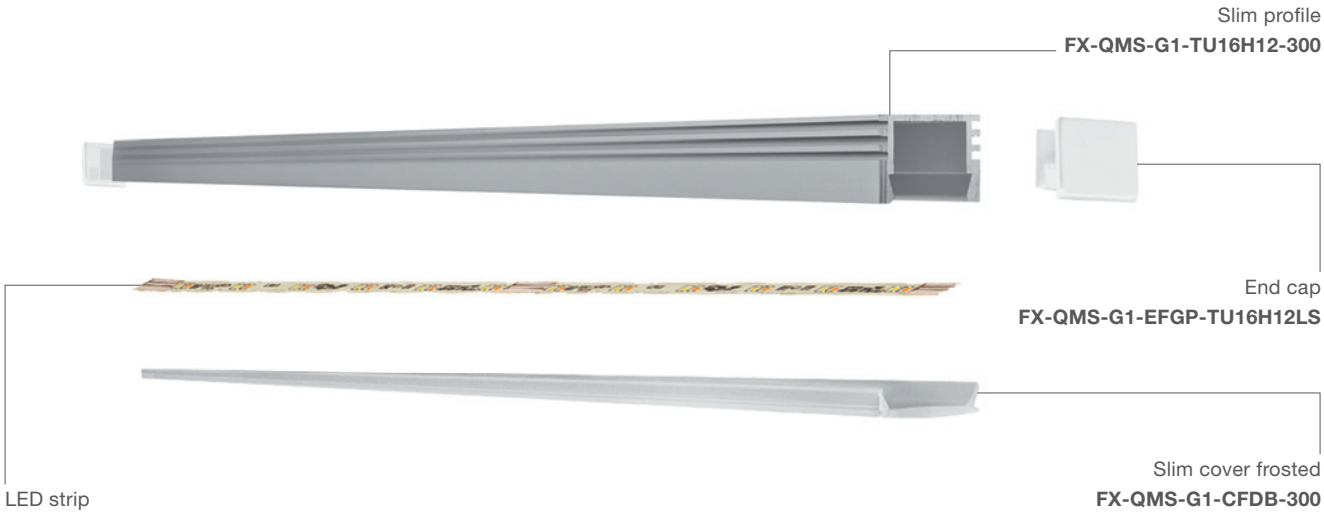
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TW*	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF3000TWW	p. 64	LF200C	p. 68
		LF1200/2000/3000SW	p. 58	LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

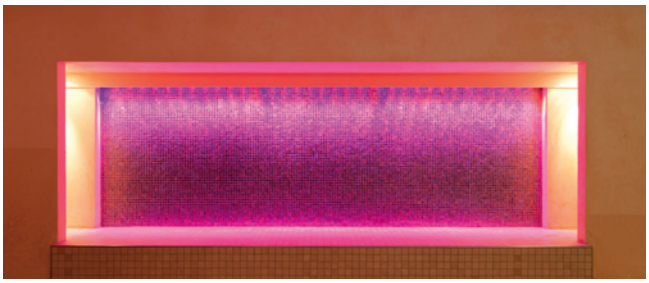
White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000	p. 74	LFP200C	p. 82
LFP3000*	p. 74	LF05A-B3-P	p. 84
LFP1200/2000SW	p. 76		
LFP3000SW*	p. 76		

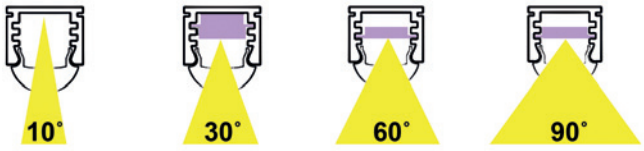
Complete system example



Slim profile system

Slim profile adjustable light angle
FX-QMS-G1-TU16H12LS-300





Features and benefits

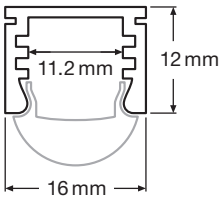
Amazing wall washing effects thanks to the adjustable light angle. Provide special mood and effect lighting across large surfaces, such as walls and ceilings, thanks to the lens cover. Due to the compact dimensions, this slim profile is also ideal for general illumination in confined spaces, such as coves, shelves, furniture, closets and many others.

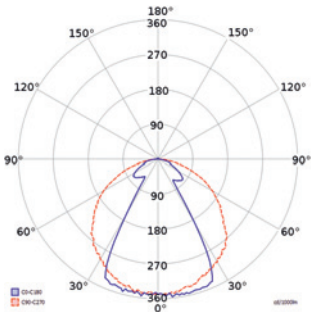
Application areas

- Wall washing
- Architectural integration
- Cove lighting
- Shelves, closets, showcases, cabinets
- Stairs

Slim profile

Slim profile adjustable light angle[1]
FX-QMS-G1-TU16H12LS-300
Dimensions: W16 x H12 x L3000 mm

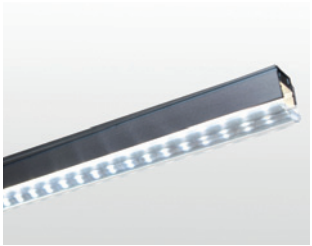




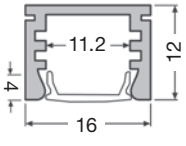
Light distribution without cover

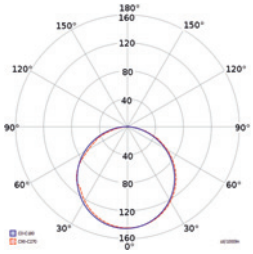
Cover

Slim cover frosted[2]
FX-QMS-G1-CFDB-300
or
Slim cover clear[2]
FX-QMS-G1-CFTL-300
Dimensions: W11 x H4 x L3000 mm

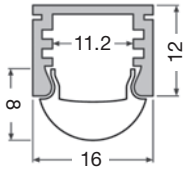


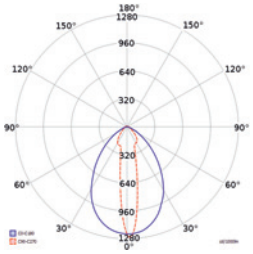
Slim lens cover[2]
FX-QMS-G1-CLT-300
Dimensions: W16 x H8 x L3000 mm





Slim cover frosted

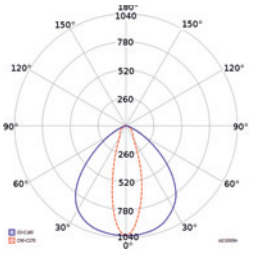




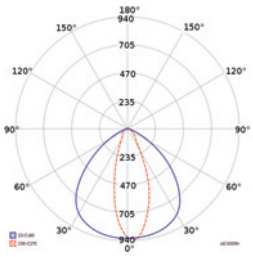
Slim lens cover 10° beam angle

All figures in mm

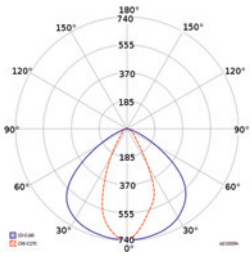
[1] -30 % luminous flux due to the profile's efficiency (Light Output Ratio = 30 %)
[2] -20 % luminous flux with lens cover, -39 % with frosted cover and -10 % with clear cover (estimated value)
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126



Slim lens cover 30°



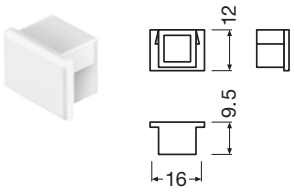
Slim lens cover 60°



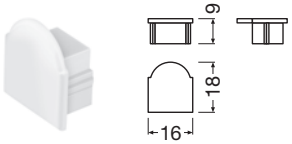
Slim lens cover 90°

End cap and mounting bracket

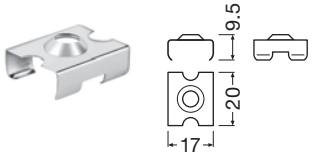
End cap for flat cover
FX-QMS-G1-EFGP-TU16H12LS
or
End cap with hole for flat cover
FX-QMS-G1-EFGH-TU16H12LS



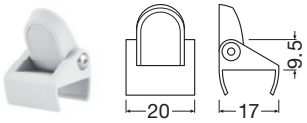
End cap for lens cover
FX-QMS-G1-ELGP-TU16H12LS
or
End cap with hole for lens cover
FX-QMS-G1-ELGH-TU16H12LS



Mounting bracket
FX-QMS-G1-BMZI-DIV1



Tiltable mounting bracket
(moving 90°)
ADJUSTABLESLIMBRACKET



All figures in mm

Use with LED strips[3]

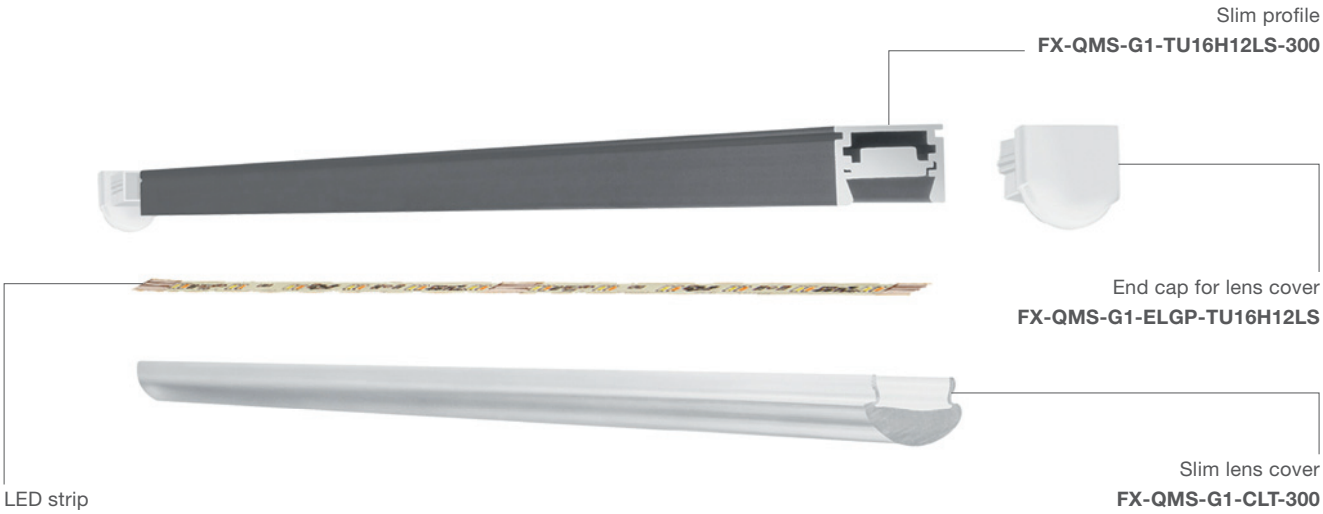
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TW*	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF3000TWW	p. 64	LF200C	p. 68
		LF1200/2000/3000SW	p. 58	LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip (only with cover frosted and clear)

White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000/3000	p. 74	LFP200C	p. 82
LFP1200/2000/3000SW	p. 76	LF05A-B3-P	p. 84

Complete system example



Slim profile
FX-QMS-G1-TU16H12LS-300

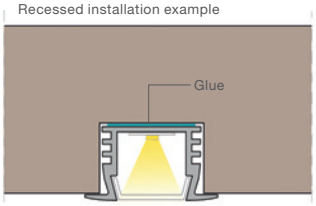
End cap for lens cover
FX-QMS-G1-ELGP-TU16H12LS

Slim lens cover
FX-QMS-G1-CLT-300

LED strip

Slim profile system

Slim profile 12 mm height, 3 mm wings
FX-QMS-G1-TU16H12W3-300



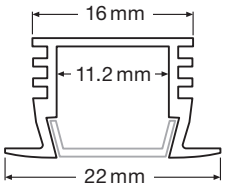
Features and benefits

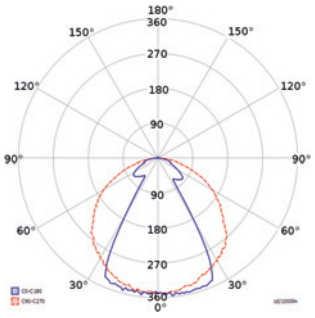
Embed powerful lighting into flat surfaces. Thanks to the compact dimensions, this slim yet powerful profile is ideal to embed the light into any surface with a minimal thickness of 12 mm. Suitable for lighting up cabinets, shelves and plasterboards, for both decorative and general lighting solutions.

Application areas

- Architectural integration
- Shelves, closets, showcases, cabinets
- Handrails and stairs

Slim profile

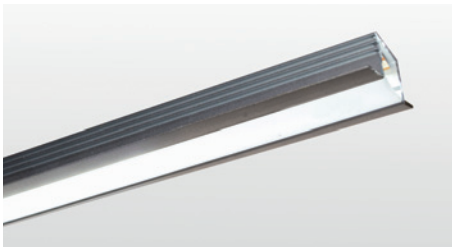


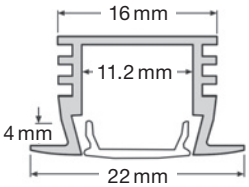


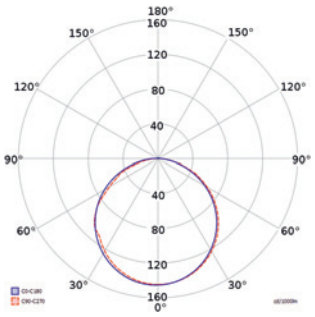
Light distribution without cover

Slim profile 3 mm wings, 12 mm height[1]
FX-QMS-G1-TU16H12W3-300
Dimensions: W22 x H12 x L3000 mm

Cover







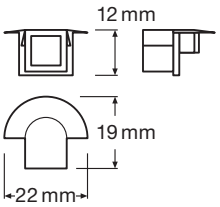
Slim cover frosted

Slim cover frosted[2]
FX-QMS-G1-CFDB-300
or
Slim cover clear[2]
FX-QMS-G1-CFTL-300
Dimensions: W11 x H4 x L3000 mm

[1] -30 % luminous flux due to the profile's efficiency (Light Output Ratio = 70 %)
[2] -39 % luminous flux with frosted cover and -10 % with clear cover (estimated value)
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

End cap
FX-QMS-G1-EFGP-TU16H12W3
or
End cap with hole
FX-QMS-G1-EFGH-TU16H12W3



Use with LED strips[3]

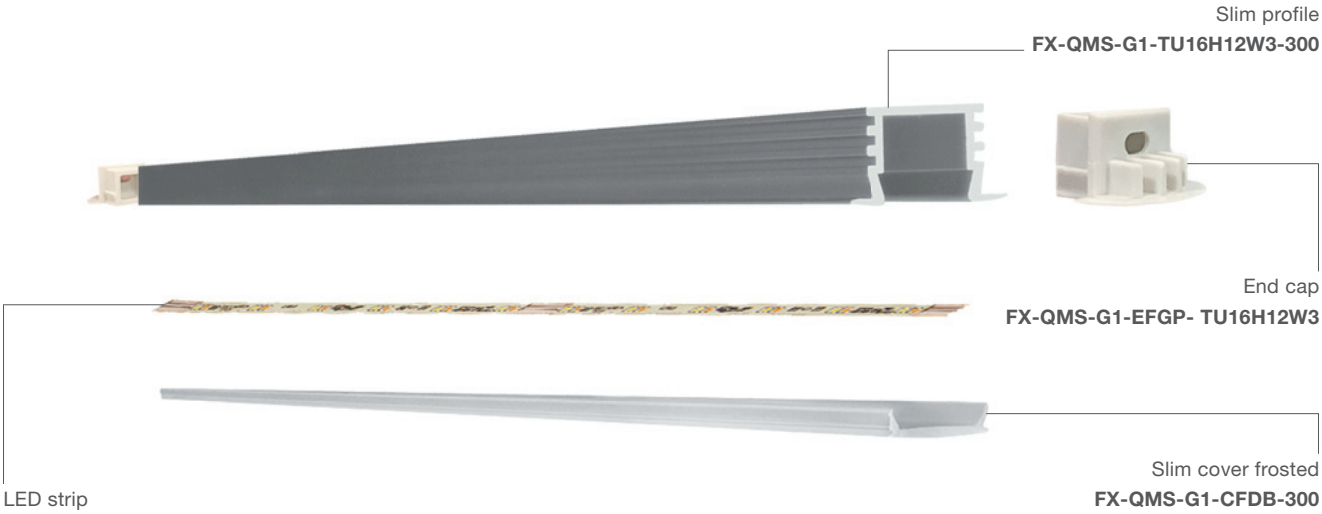
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TW*	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF3000TWW	p. 64	LF200C	p. 68
		LF1200/2000/3000SW	p. 58	LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

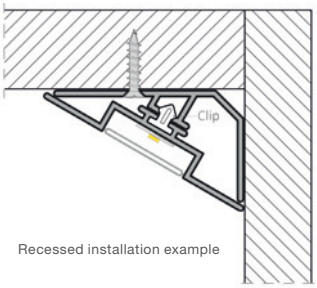
White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000	p. 74	LFP200C	p. 82
LFP3000*	p. 74	LF05A-B3-P	p. 84
LFP1200/2000SW	p. 76		
LFP3000SW*	p. 76		

Complete system example

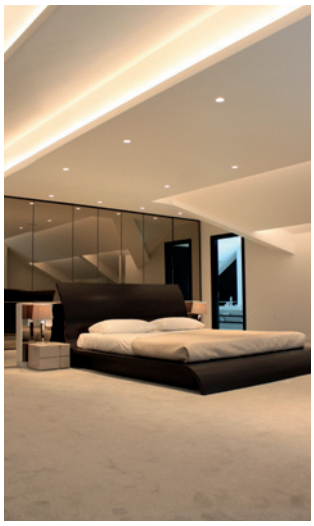


Wide profile system

Wide profile 30°
FX-QMW-G1-TK30D46H27-300



Recessed installation example

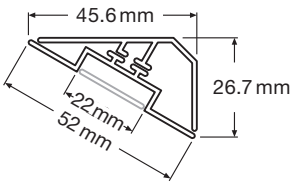


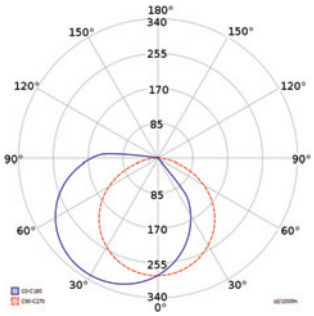
Features and benefits
Perfect balance between design and functional lighting. Thanks to the 30° shape, this wide profile is the best way to provide the adequate illuminance for worktops and closets and give the right light accent to shelves and furniture.

Application areas
- Closets, worktops, cabinets
- Architectural integration
- Cove lighting

Wide profile

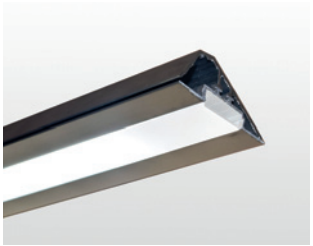
Wide profile 30°[1]
FX-QMW-G1-TK30D46H27-300
Dimensions: W45.6 x H26.7 x L3000 mm





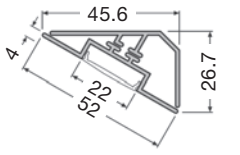
Light distribution without cover

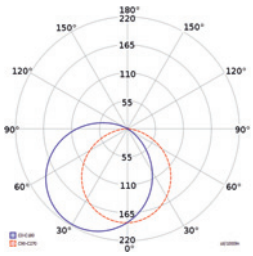
Cover



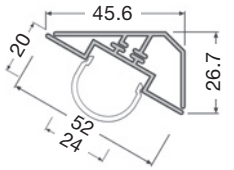
Wide flat cover frosted[2]
FX-QMW-G1-CFDB-300
or
Wide flat cover clear[2]
FX-QMW-G1-CFTP-300
Dimensions: W22 x H4 x L3000

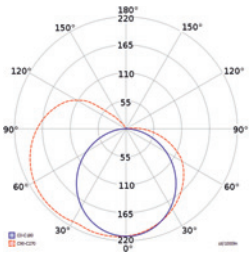
Wide round cover frosted[2]
FX-QMW-G1-CRD-300
Dimensions: W24 x H20 x L3000 mm





Wide flat cover frosted





Wide round cover frosted

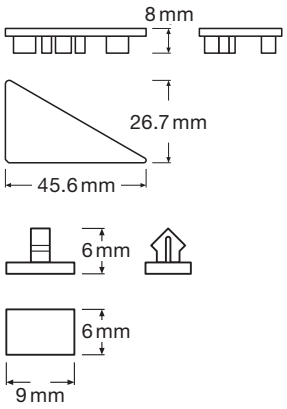
All figures in mm

[1] -5 % luminous flux due to the profile's efficiency (Light Output Ratio = 95 %)
[2] -40 % luminous flux with flat cover frosted, -10 % with flat cover clear (estimated value), -35 % with round cover frosted
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

End cap left side
FX-QMW-G1-EFGP-L-TK30D46H27
or
End cap right side
FX-QMW-G1-EFGP-R-TK30D46H27

Clip (to combine the two parts of the profile)
FX-QMW-G1-XCLPL1-DIV1



Use with LED strips[3]

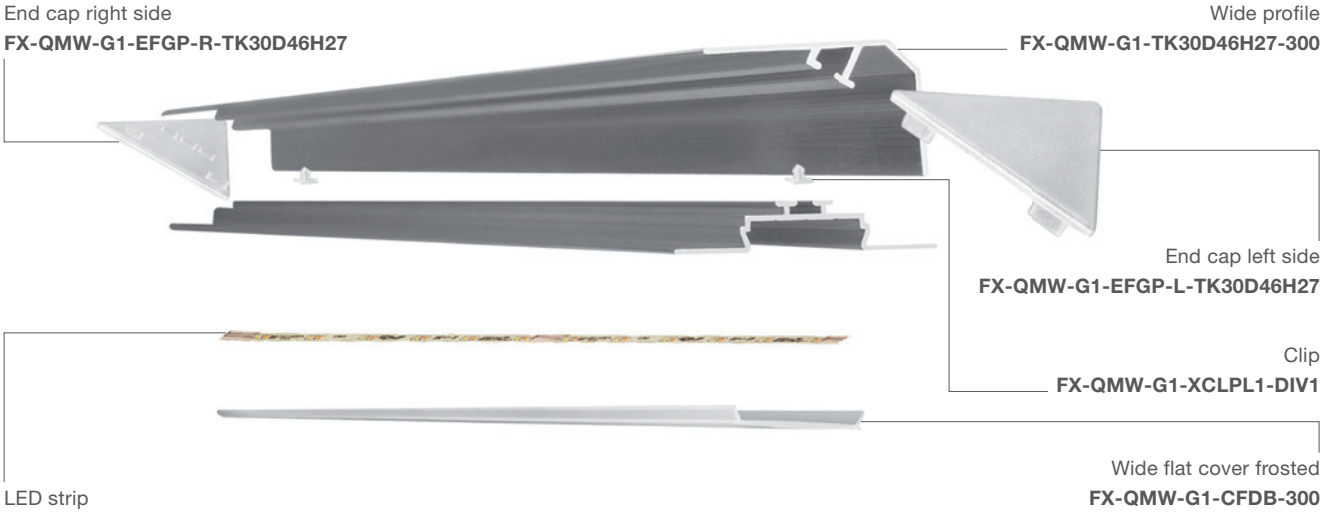
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000/3000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF4000TW*	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF3000TWW	p. 64	LF200C	p. 68
		LF1200/2000/3000SW	p. 58	LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

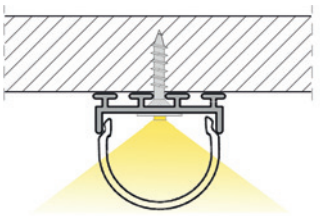
White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000/3000	p. 74	LFP200C	p. 82
LFP1200/2000/3000SW	p. 76	LF05A-B3-P	p. 84

Complete system example

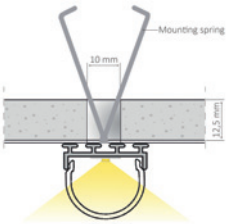


Wide profile system

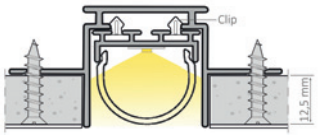
Wide profile 8 mm height
FX-QMW-G1-TU26H8-300



Surface installation example



Surface installation example with metal spring



Recessed installation example

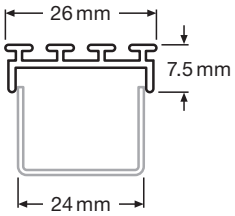
Features and benefits

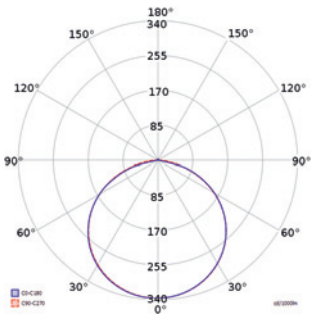
Perfectly diffuse and homogeneous lighting to add a cool atmosphere to any space. Thanks to its reduced height and its accessories for recessed mounting, this wide profile is ideal for surface-mounted or embedded lighting in suspended ceilings.

Application areas

- Architectural integration
- Cove lighting
- Recessed lighting

Wide profile

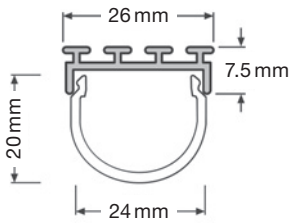


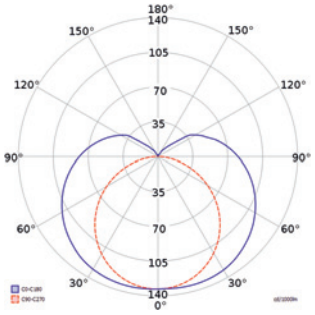


Light distribution without cover

Wide profile 8 mm height[1]
FX-QMW-G1-TU26H8-300
Dimensions: W26 x H7.5 x L3000 mm

Cover





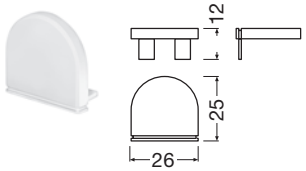
Wide round cover frosted

Wide round cover frosted[2]
FX-QMW-G1-CRD-300
Dimensions: W24 x H20 x L3000 mm

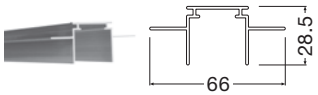
[1] No luminous flux reduction due to the profile's efficiency (Light Output Ratio = 100 %)
[2] -35 % luminous flux with round cover frosted
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile; products with * allow only surface mounting. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

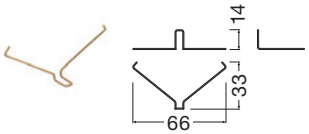
End cap
FX-QMW-G1-ERGP-TU26H8



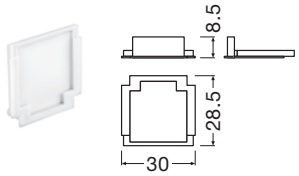
Mounting metal profile
FX-QMW-G1-P125C30-DIV1-300
Dimensions:
W66 x H28.5 x L3000 mm



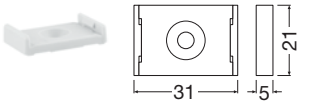
Mounting spring
FX-QMW-G1-SMME-DIV1



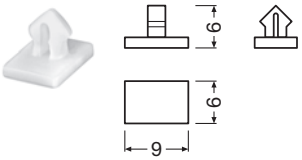
End cap for mounting metal profile
FX-QMW-G1-EFGP-PC30



Mounting bracket for surface installation
FX-QMW-G1-BGPL-DIV1



Clip (to combine the two parts of the profile)
FX-QMW-G1-XCLPL1-DIV1



Tiltable mounting bracket
(moving 90°)
ADJUSTABLEWIDEBRACKET

All figures in mm

Use with LED strips[3]

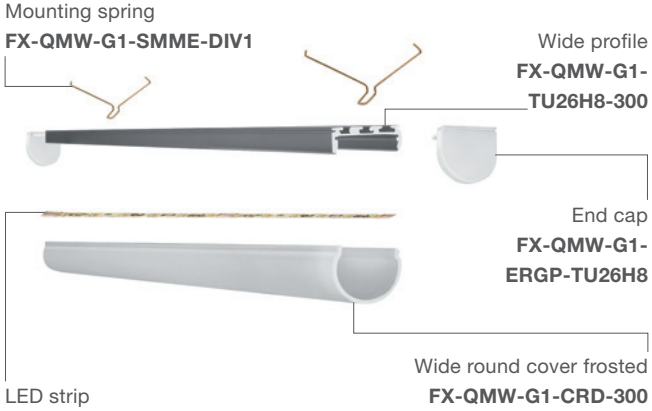
IP00 LED strip

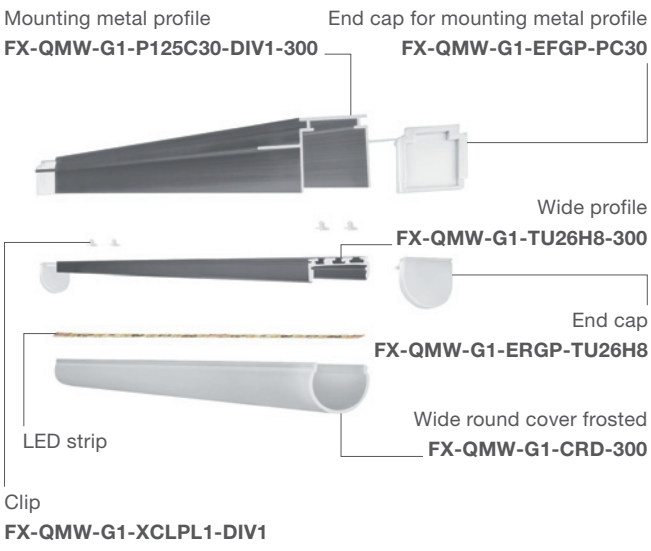
White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000/4000TW*	p. 64	LF05CE	p. 68
LF1200/2000	p. 56	LF3000TWW	p. 64	LF200C	p. 68
LF3000/4000*	p. 56	LF1200/2000SW	p. 58	LF05A2	p. 70
		LF3000SW*	p. 58	LF700/1300RGBW	p. 66

IP67 LED strip

White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000	p. 74	LFP200C	p. 82
LFP3000*	p. 74	LF05A-B3-P	p. 84
LFP1200/2000SW	p. 76		
LFP3000SW*	p. 76		

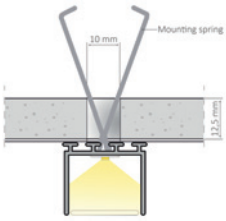
Complete system example



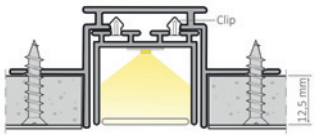


Wide profile system

Wide profile 25 mm height
FX-QMW-G1-TU26H25-300



Surface installation example



Recessed installation example

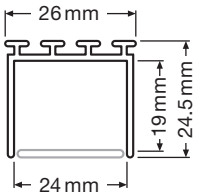
Features and benefits

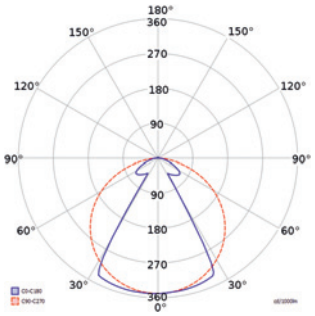
Ensure the adequate lighting for spaces in a functional yet elegant way. Thanks to the dedicated accessories, this wide profile is the best choice for surface or recessed mounting in suspended ceilings, for both decorative and general lighting.

Application areas

- Architectural integration
- Recessed lighting
- Cove lighting

Wide profile



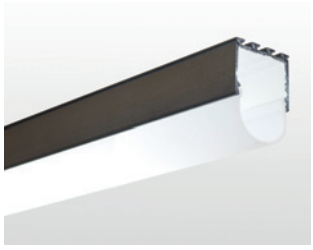


Light distribution without cover

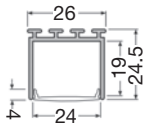
Wide profile 25 mm height[1]
FX-QMW-G1-TU26H25-300
Dimensions: W26 x H24.5 x L3000 mm

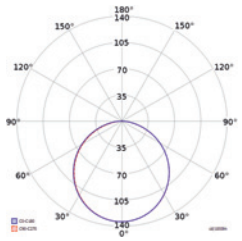
Cover

Wide flat cover frosted[2]
FX-QMW-G1-CFDB-300
or
Wide flat cover clear[2]
FX-QMW-G1-CFTP-300
Dimensions: W22 x H4 x L3000 mm

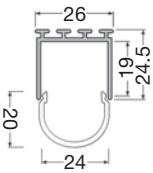


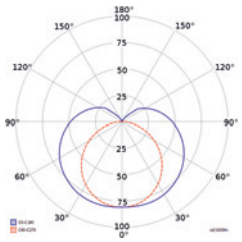
Wide round cover frosted[2]
FX-QMW-G1-CRD-300
Dimensions: W24 x H20 x L3000 mm





Wide flat cover frosted





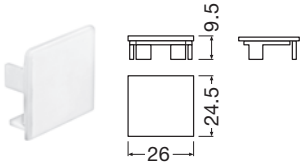
Wide round cover frosted

All figures in mm

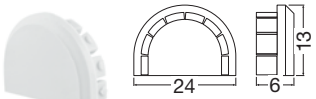
[1] -30 % luminous flux due to the profile's efficiency (Light Output Ratio = 70 %)
[2] -40 % luminous flux with flat cover frosted, -10 % with flat cover clear (estimated value), -35 % with round cover frosted
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

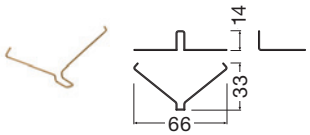
End cap
FX-QMW-G1-EFGP-TU26H25



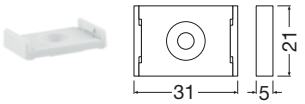
End cap (to close the gap of the round cover)
FX-QMW-G1-ERGP-DIV1



Mounting spring
FX-QMW-G1-SMME-DIV1

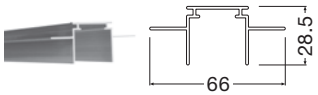


Mounting bracket for surface installation
FX-QMW-G1-BGPL-DIV1

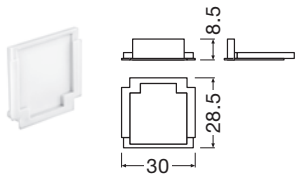


Tiltable mounting bracket (moving 90°)
ADJUSTABLEWIDEBRACKET

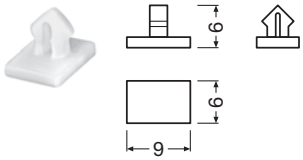
Mounting metal profile
FX-QMW-G1-P125C30-DIV1-300
Dimensions:
W66 x H28.5 x L3000 mm



End cap for mounting metal profile
FX-QMW-G1-EFGP-PC30



Clip (to combine the two parts of the profile)
FX-QMW-G1-XCLPL1-DIV1



All figures in mm

Use with LED strips[3]

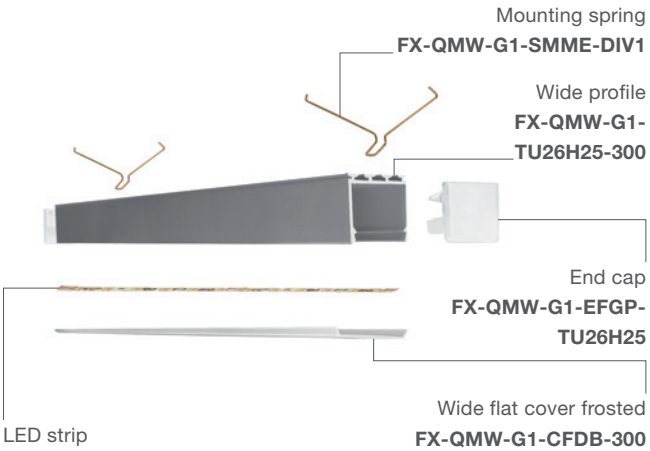
IP00 LED strip

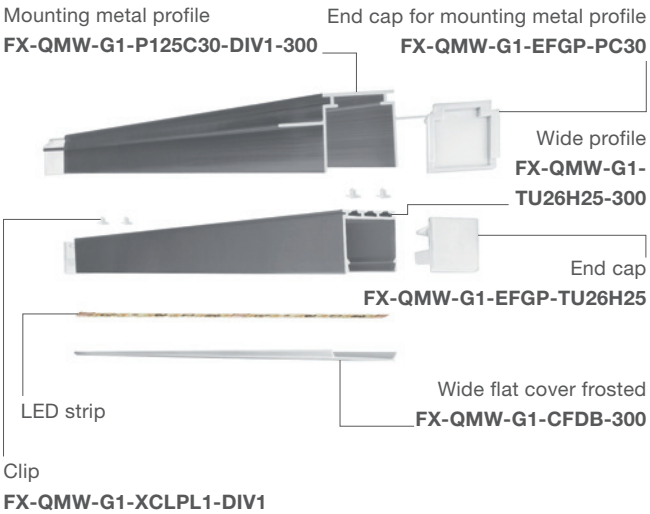
White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000/3000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TWW	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF1200/2000/3000SW	p. 58	LF200C	p. 68
				LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000/3000	p. 74	LFP200C	p. 82
LFP1200/2000/3000SW	p. 76	LF05A-B3-P	p. 84

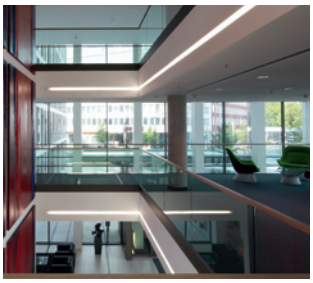
Complete system example

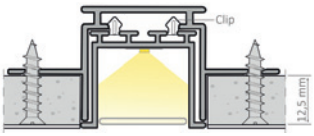




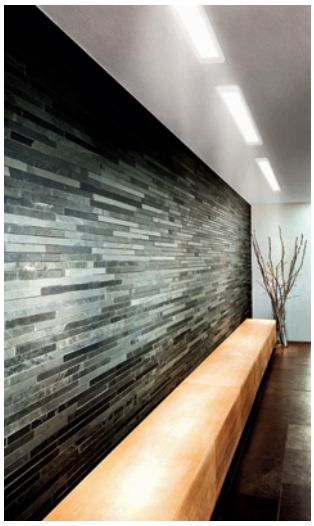
Wide profile system

Wide profile 25 mm height, 2 mm wings
FX-QMW-G1-TU26H25W2-300





Recessed installation example



Features and benefits

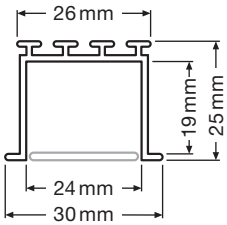
Create amazing light cuts on surfaces. Ensure the adequate lighting for spaces in a functional yet elegant way thanks to this wide profile and its accessories for recessed mounting, suitable for both decorative and general lighting.

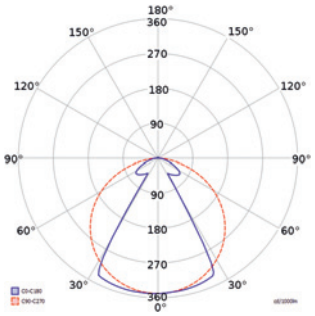
Application areas

- Architectural integration
- Recessed lighting

Slim profile

Wide profile 2 mm wings, 25 mm height[1]
FX-QMW-G1-TU26H25W2-300
Dimensions: W30 x H25 x L3000 mm

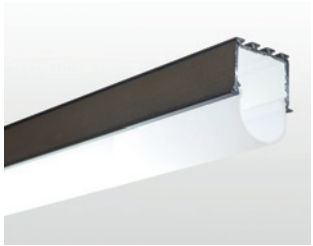




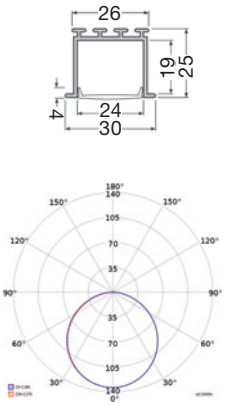
Light distribution without cover

Cover

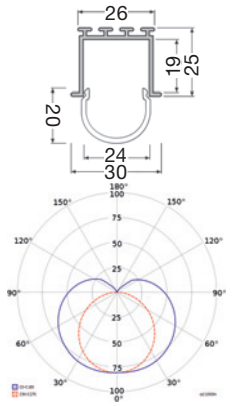
Wide flat cover frosted[2]
FX-QMW-G1-CFDB-300
or
Wide flat cover clear[2]
FX-QMW-G1-CFTP-300
Dimensions: W22 x H4 x L3000 mm



Wide round cover frosted[2]
FX-QMW-G1-CRD-300
Dimensions: W24 x H20 x L3000 mm



Wide flat cover frosted



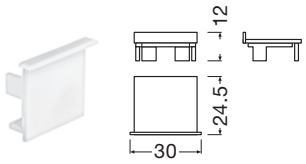
Wide round cover frosted

All figures in mm

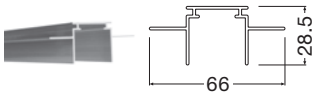
[1] -30 % luminous flux due to the profile's efficiency (Light Output Ratio = 70 %)
[2] -40 % luminous flux with flat cover frosted, -10 % with flat cover clear (estimated value), -35 % with round cover frosted
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

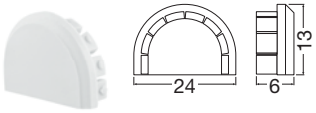
End cap for flat cover
FX-QMW-G1-EFGP-TU26H25W2



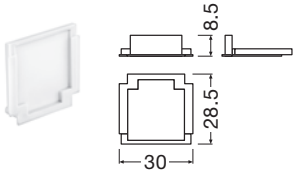
Mounting metal profile
FX-QMW-G1-P125C30-DIV1-300
Dimensions:
W66 x H28.5 x L3000 mm



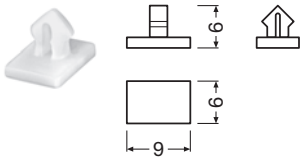
End cap (to close the gap of the round cover)
FX-QMW-G1-ERGP-DIV1



End cap for mounting metal profile
FX-QMW-G1-EFGP-PC30



Clip (to combine the two parts of the profile)
FX-QMW-G1-XCLPL1-DIV1



All figures in mm

Use with LED strips[3]

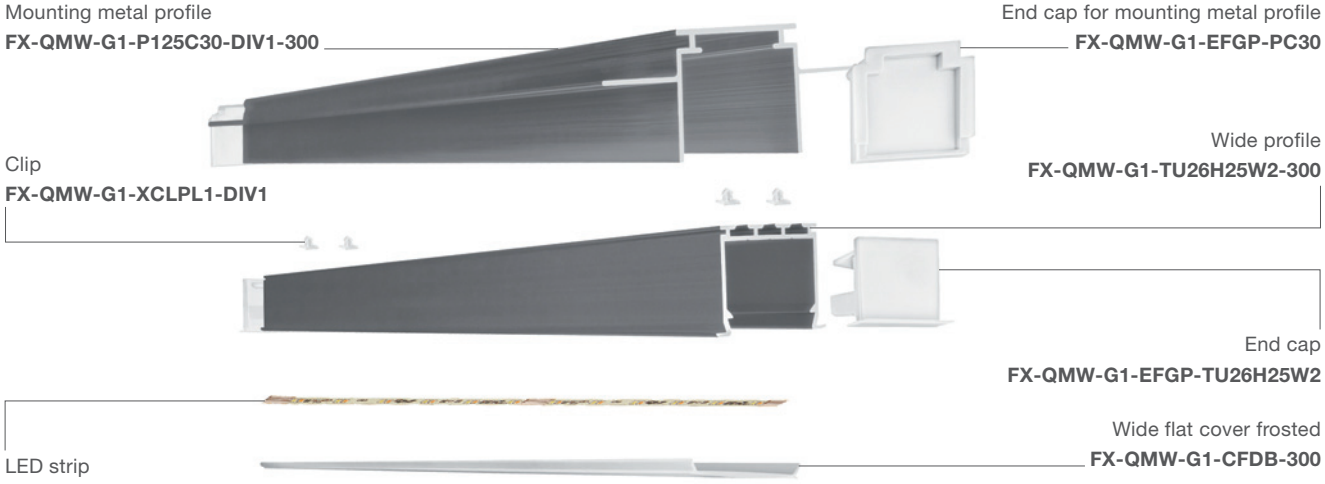
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000/3000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TWW	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF1200/2000/3000SW	p. 58	LF200C	p. 68
				LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

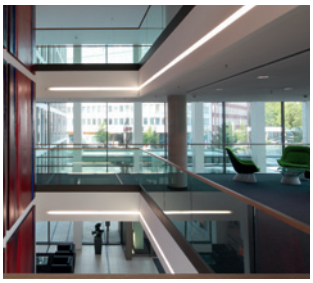
White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000/3000	p. 74	LFP200C	p. 82
LFP1200/2000/3000SW	p. 76	LF05A-B3-P	p. 84

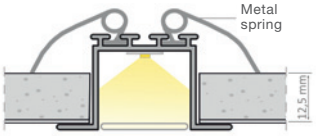
Complete system example



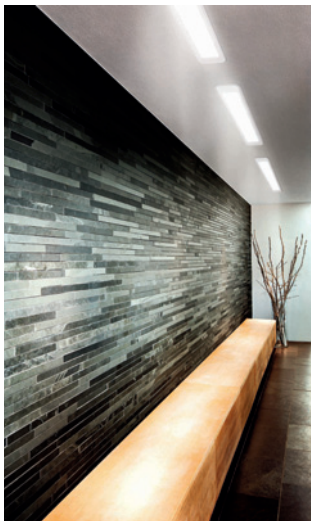
Wide profile system

Wide profile 25 mm height, 10 mm wings
FX-QMW-G1-TU26H25W10-300





Recessed installation example



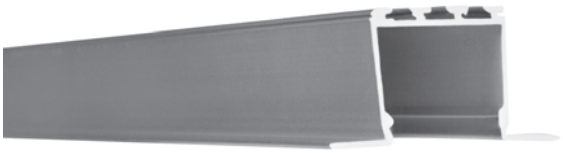
Features and benefits

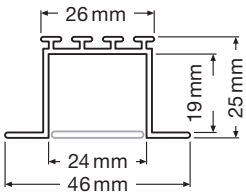
Create amazing light cuts on surfaces. Ensure the adequate lighting for spaces in a functional yet elegant way thanks to this wide profile and its accessories for recessed mounting, suitable for both decorative and general lighting.

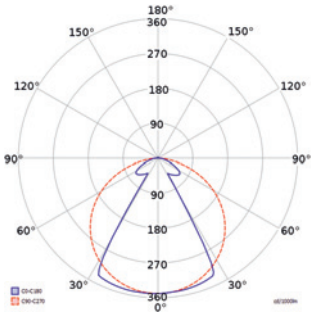
Application areas

- Architectural integration
- Recessed lighting

Wide profile





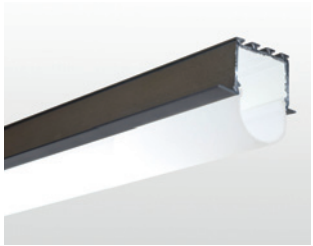


Light distribution without cover

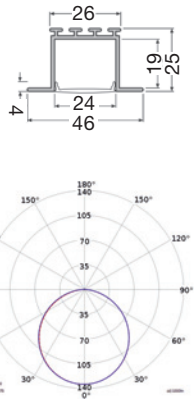
Wide profile 10 mm wings, 25 mm height[1]
FX-QMW-G1-TU26H25W10-300
Dimensions: W46 x H25 x L3000 mm

Cover

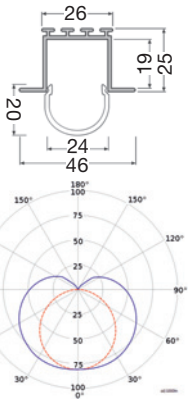
Wide flat cover frosted[2]
FX-QMW-G1-CFDB-300
or
Wide flat cover clear[2]
FX-QMW-G1-CFTP-300
Dimensions: W22 x H4 x L3000 mm



Wide round cover frosted[2]
FX-QMW-G1-CRD-300
Dimensions: W24 x H20 x L3000 mm



Wide flat cover frosted



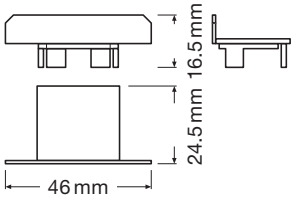
Wide round cover frosted

All figures in mm

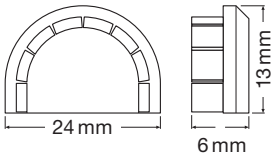
[1] -30 % luminous flux due to the profile's efficiency (Light Output Ratio = 70 %)
[2] -40 % luminous flux with flat cover frosted, -5 % with flat cover clear (sample value), -35 % with round cover frosted
[3] Compatibility strip-profile at T_a = 25 °C, refers to fully recessed or surface-mounted profile. Always ensure that the T_c point temperature never exceeds the maximum allowed temperature indicated in the LED strip datasheet (T_c depends on the installation and operating condition).
For information about the diffusivity of the covers and light uniformity, check the table on page 126

End cap and mounting bracket

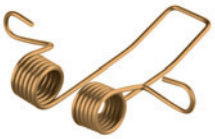
End cap
FX-QMW-G1-EFGP-TU26H25W10

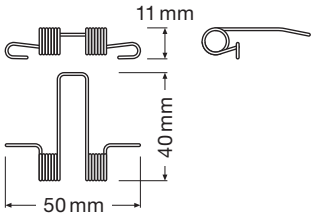


End cap (to close the gap of the round cover)
FX-QMW-G1-ERGP-DIV1



Mounting spring
FX-QMW-G1-SRME-DIV1





Use with LED strips[3]

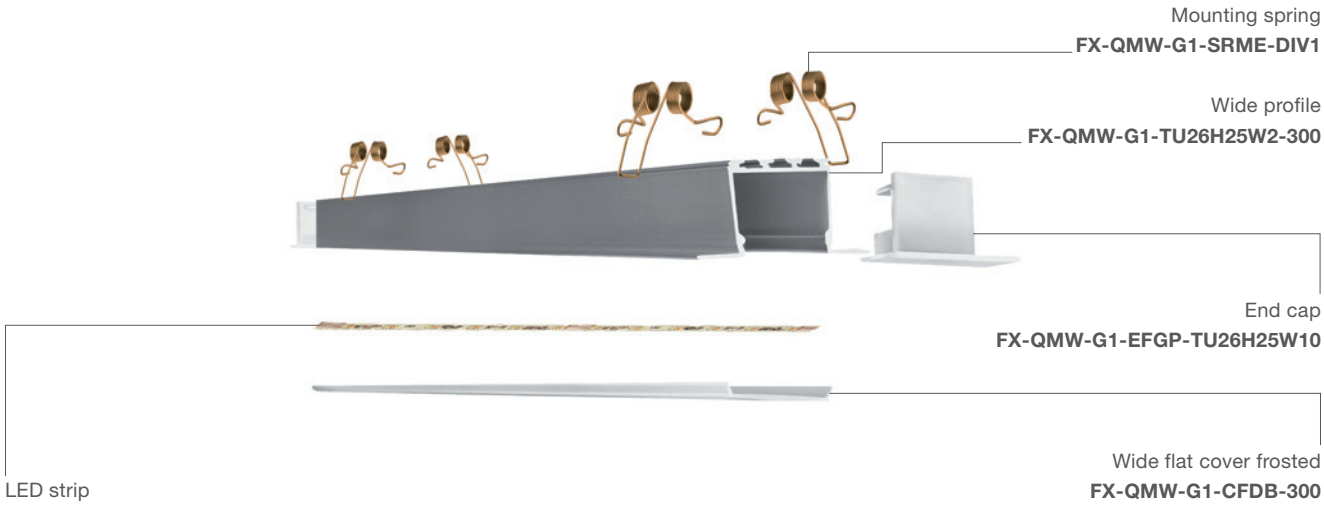
IP00 LED strip

White		Special White		Color & RGBW	
LF500	p. 62	LF1200/2000/3000TW	p. 64	LF05CA2	p. 68
LF800S	p. 60	LF3000TWW	p. 64	LF05CE	p. 68
LF1200/2000/3000/4000	p. 56	LF1200/2000/3000SW	p. 58	LF200C	p. 68
				LF05A2	p. 70
				LF700/1300RGBW	p. 66

IP67 LED strip

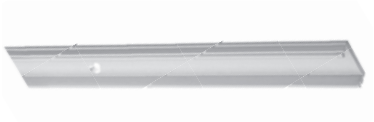
White & Special White		Color	
LFP500	p. 80	LF05CA-RGB3-P	p. 82
LFP800S	p. 78	LF05CE-RGB1-P	p. 82
LFP800/1200/2000/3000	p. 74	LFP200C	p. 82
LFP1200/2000/3000SW	p. 76	LF05A-B3-P	p. 84

Complete system example

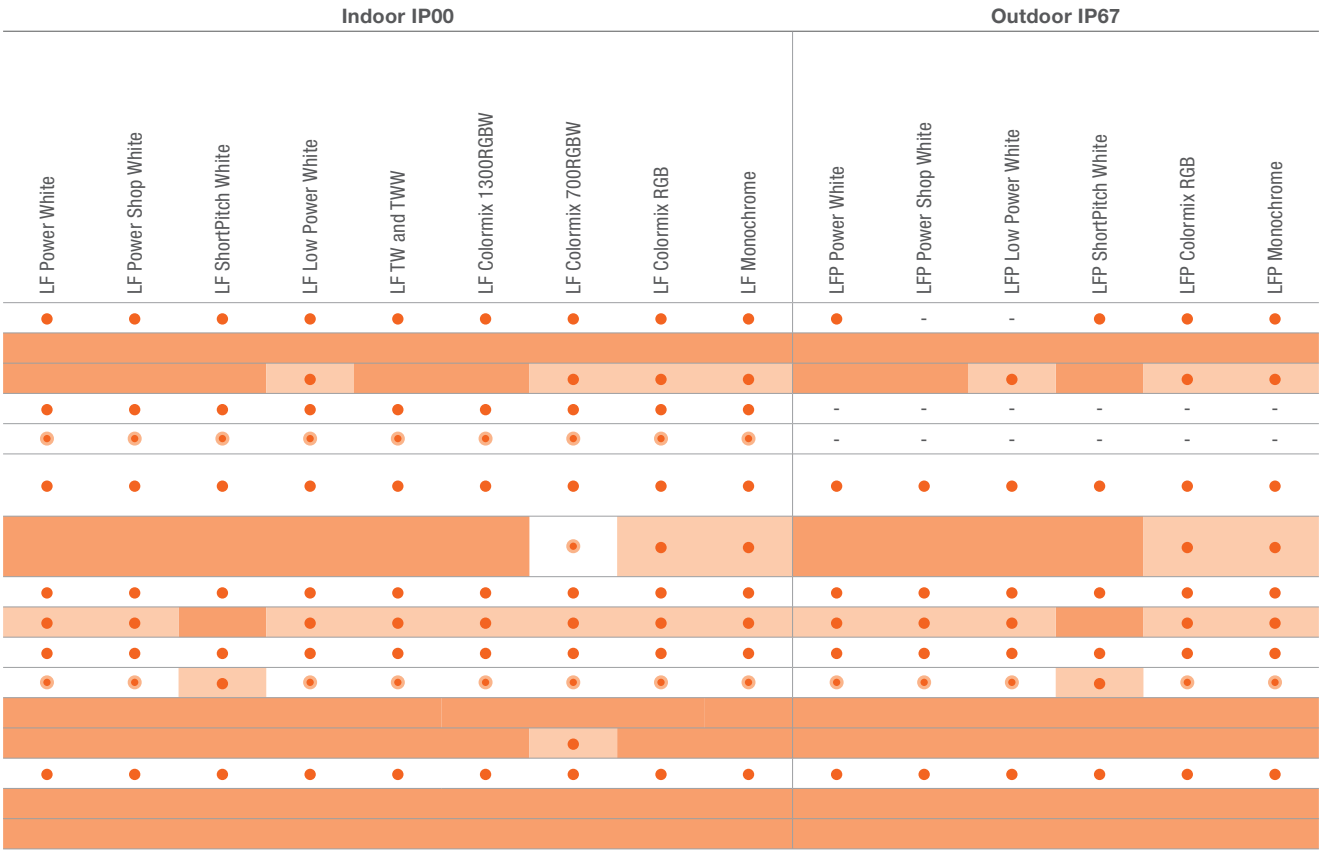


Visibility of LED spots – LINEARlight FLEX® LED strip in system combination with profile and cover

In applications with diffuse light distribution, the diffusivity of the covers plays an important role for the visual effect of the lighting system. With our portfolio of lens covers and profiles, you can choose the best suited products for your requirements. The following table shows the covers and profiles in combination with the corresponding LED strips.



Profile	Cover
LF-LTS-2100	LF-LTS-COVER-C
	LF-LTS-COVER-D
	LF-LTS-COVER-S
FX-QMS-G1-TU15H6-300	FX-QMS-G1-CFTL-300
FX-QMS-G1-TU15H6W3-300	FX-QMS-G1-CFDB-300
FX-QMS-G1-TU16H12-300	FX-QMS-G1-CFTL-300
FX-QMS-G1-TU16H12W3-300	
FX-QMS-G1-TU16H12LS-300	FX-QMS-G1-CFDB-300
FX-QMS-G1-TR19H16-300	
FX-QMS-G1-T45D19H19-300	FX-QMS-G1-CFTL-300
	FX-QMS-G1-CFDB-300
FX-QMW-G1-TK30D46H27-300	FX-QMW-G1-CFTP-300
	FX-QMW-G1-CFDB-300
	FX-QMW-G1-CRD-300
FX-QMW-G1-TU26H8-300	FX-QMW-G1-CRD-300
FX-QMW-G1-TU26H25W10-300	FX-QMW-G1-CFTP-300
FX-QMW-G1-TU26H25W2-300	FX-QMW-G1-CFDB-300
FX-QMW-G1-TU26H25-300	FX-QMW-G1-CRD-300



Front view from observing point: < 1.5 m, size: not to scale

Front view from observing point: < 1.5 m, size: not to scale

Front view from observing point: < 1.5 m, size: not to scale

Front view from observing point: < 1.5 m, size: not to scale

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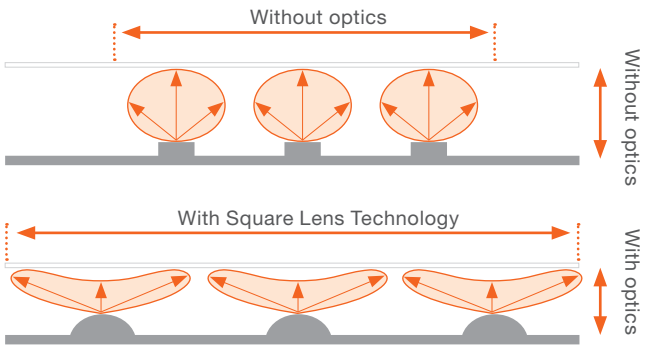
Light ceilings with BackLED® transform environments

Impressive backlighting of surfaces is increasingly used to highlight indoor locations such as conference rooms or entrance areas. In the development of corresponding light sources, the homogeneity of illumination, a uniform color effect and economic efficiency have top priority. Integrated into the architecture, the LED modules follow every shape and can be easily adapted to any kind of surface and form, allowing maximum freedom of design.

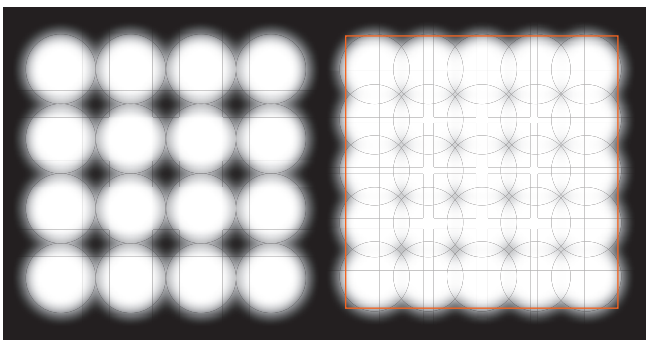
Together with the stretch ceiling, the BackLED® product family provides brilliant light and high visual comfort by reducing the glaring effect with a UGR down to 11. Thanks to the innovative, patented Square Lens Technology from OSRAM, lighting designers can create absolutely uniform light ceilings. These square lenses with a beam angle of 155° ensure an uninterrupted illumination, avoiding the shadows that occur with round lenses. Moreover, the acoustic insulation of the room and the absorption in the offices can be improved due to the stretch ceiling material. Thanks to an easy click-in of the LED modules on the mounting profiles, the entire system is also very easy to install. Realize your visions – with OSRAM.

Homogeneous light distribution through Square Lens Technology



- Less modules (wider area coverage)
- Shallow light ceiling

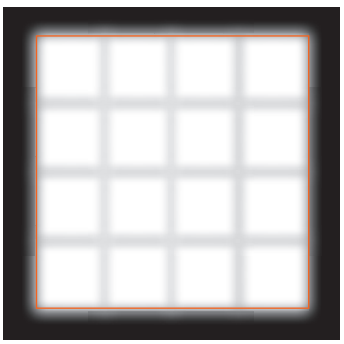
Batwing lenses with a beam angle of 155°



Formation of shadows with black holes

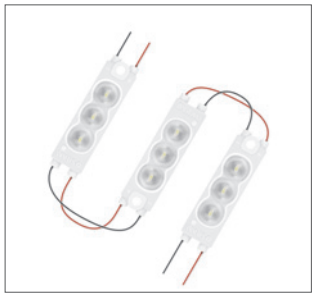
Homogeneous illumination by overlapping of the light-emitting surfaces with more modules

Square lenses with a beam angle of 155°



Homogeneous illumination of the entire light ceiling with fewer modules

BackLED® White



Features and benefits

- Lifetime of up to 50,000 h (L70B50) at T_p
- Consistent white light (<3 SDCM)
- Uniform illumination thanks to Square Lens Technology

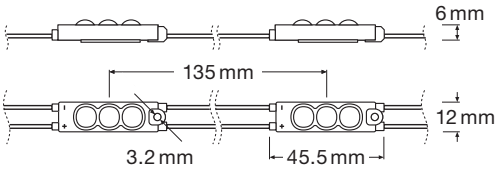
Application areas

- Luminous ceilings/walls
- Decorative lighting

Standards

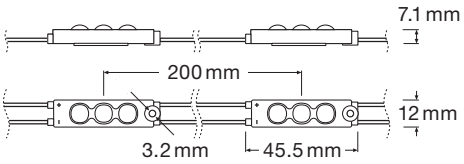
- CE, ENEC, UL recognized component

Dimensions



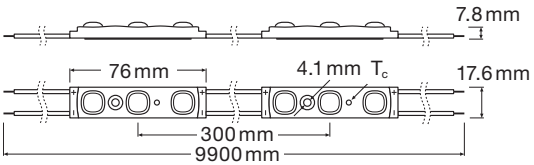
BA-S-PL

Number of LEDs per module = 3; number of modules per chain = 90



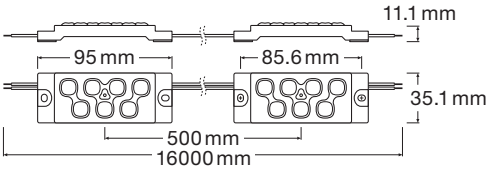
BA-M-PL HO

Number of LEDs per module = 3; number of modules per chain = 40



BA-L-PL

Number of LEDs per module = 3; number of modules per chain = 36



BA-XL-PL

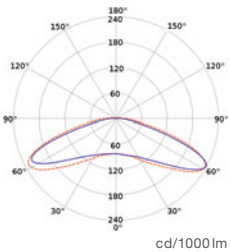
Number of LEDs per module = 7; number of modules per chain = 32

Electrical and output data

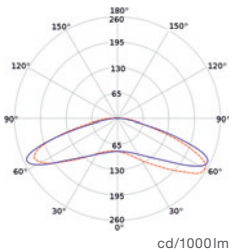
Nominal voltage	12 V (S-M HO-L); 24 V (XL)
Reverse voltage protection up to	13 V (S-M HO-L); 25 V (XL)
Temperature range in operation at T_c point	-25...+65 °C (S); -25...+75 °C (M HO-L-XL)
Storage temperature	-25...+85 °C

	BA-S-PL	BA-M-PL HO	BA-L-PL	BA-XL-PL
Power per chain (module) [W]	30 (0.33)	34 (0.85)	46 (1.31)	70 (2.2)
Luminous efficacy [lm/W] at 830	110	101	115	135

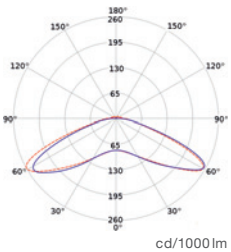
BackLED® S



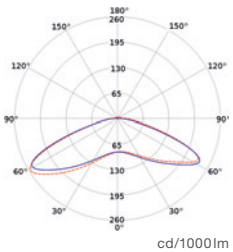
BackLED® M HO



BackLED® L



BackLED® XL

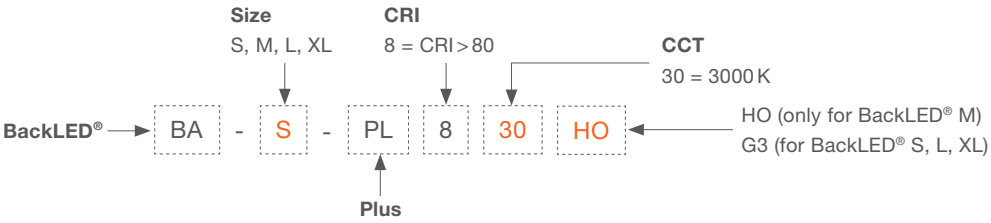


— C0-C180 — C90-C270

Light distribution diagrams; beam angle 155°

Product description and order code

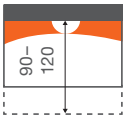
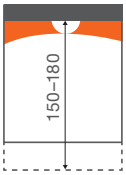
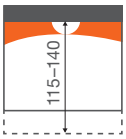
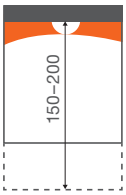
Color temperature	CRI	BackLED S	lm/chain (module)	BackLED M HO	lm/chain (module)	BackLED L	lm/chain (module)	BackLED XL	lm/chain (module)
830 3000 K	>80	BA-S-PL-830 G3	3330 (37)	BA-M-PL-830 HO	3440 (86)	BA-L-PL-830 G3	5400 (150)	BA-XL-PL-830 G3	9600 (300)
840 4000 K	>80	BA-S-PL-840 G3	3510 (39)	BA-M-PL-840 HO	3600 (90)	BA-L-PL-840 G3	5580 (155)	BA-XL-PL-840 G3	9760 (305)
865 6000 K	>80	BA-S-PL-865 G3	3510 (39)	BA-M-PL-865 HO	3600 (90)	BA-L-PL-865 G3	5400 (150)	BA-XL-PL-865 G3	9600 (300)



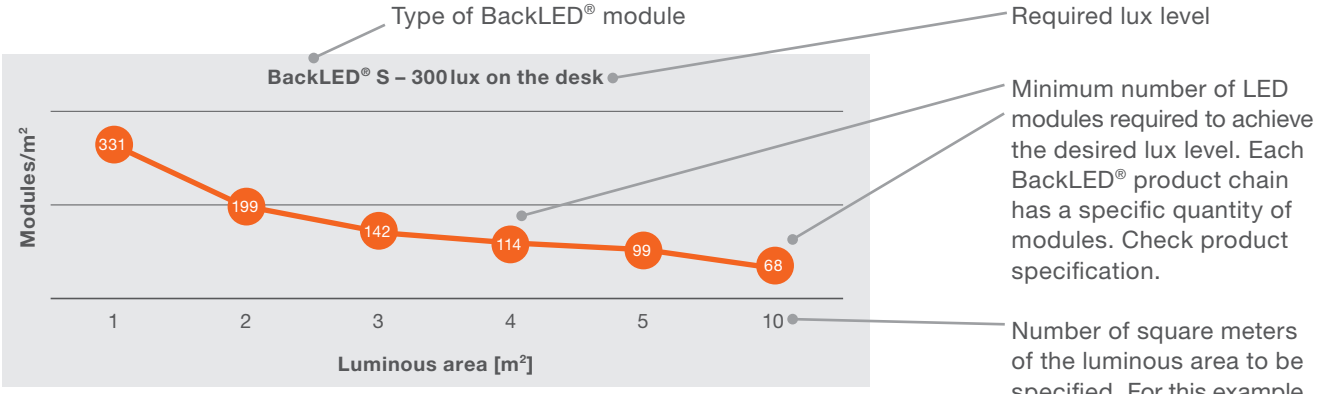
Accessories

Mounting profile (see page 165) | Power supply (see page 166) | Control system (see page 180)

How to specify a luminous ceiling

Depth of the luminous ceiling		Choose the right module	Depth of the luminous ceiling		Choose the right module
	90–120 mm	BA-S-PL		150–180 mm	BA-L-PL
	115–140 mm	BA-M-PL HO		150–200 mm	BA-XL-PL (high luminous flux application)

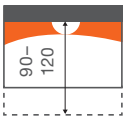
How many BackLED® modules are needed?



How to read the graph: Example (no planning values)

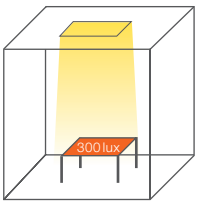
Note:
The bigger the area to be illuminated, the less LED modules per square meter are required to obtain the desired lux level. Uniformity must be considered regardless of the lighting level. Calculations based on a standard room, 3 m high, with non-reflective walls. The reference stretch material has a transmission of 50 %.

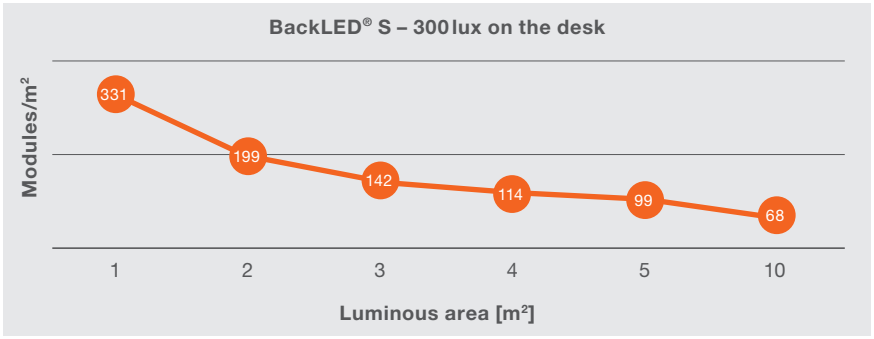
Application guide BackLED® S



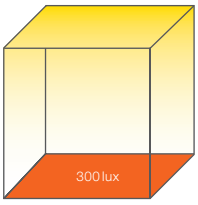
Use the BackLED® S when the depth of the luminous ceiling is around 90–120 mm.

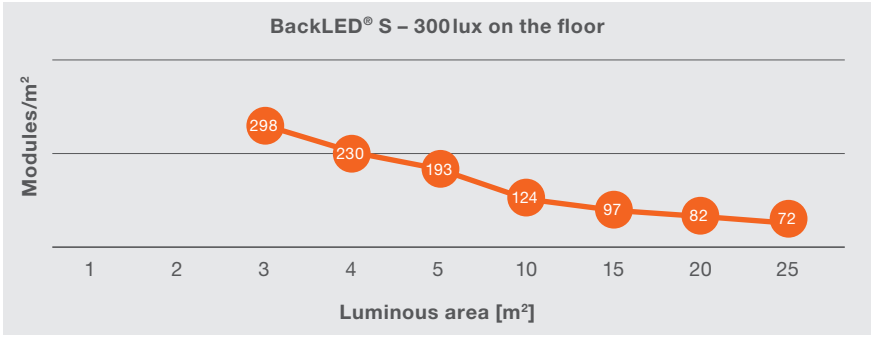
How to get 300 lux on the desk level



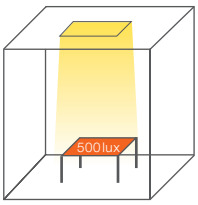


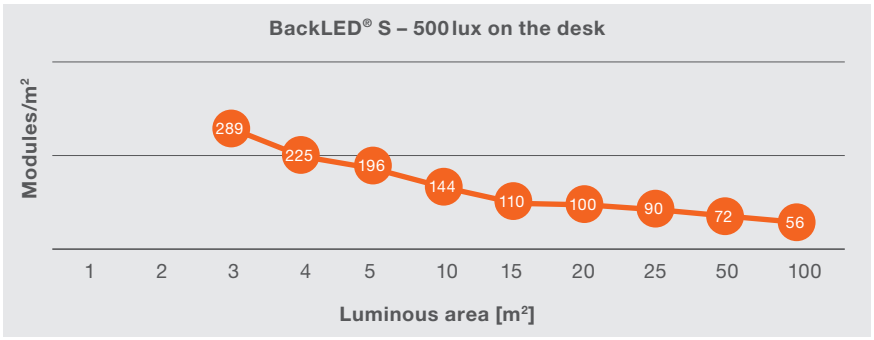
How to get 300 lux on the floor level



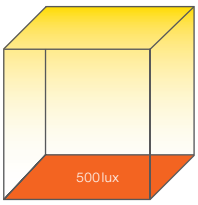


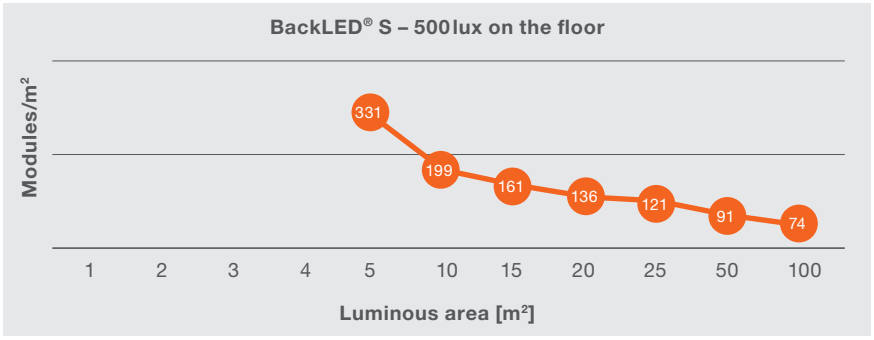
How to get 500 lux on the desk level





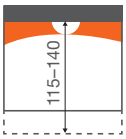
How to get 500 lux on the floor level





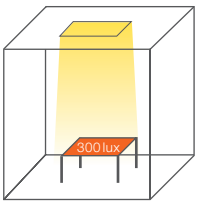
See note on page 131

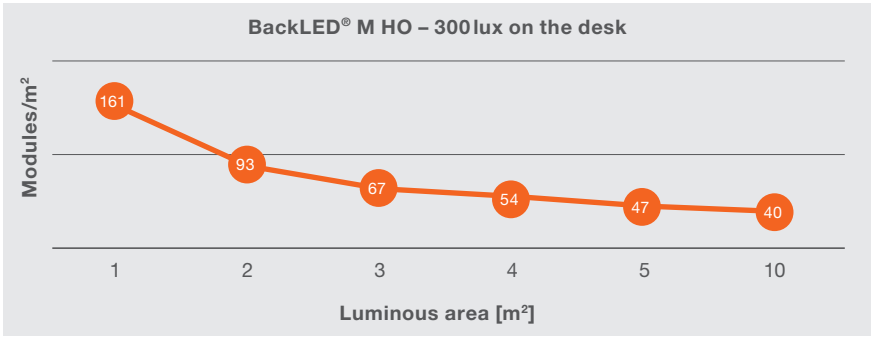
Application guide BackLED® M HO



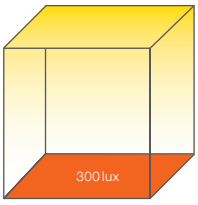
Use the BackLED® M HO when the depth of the luminous ceiling is around 115–140 mm.

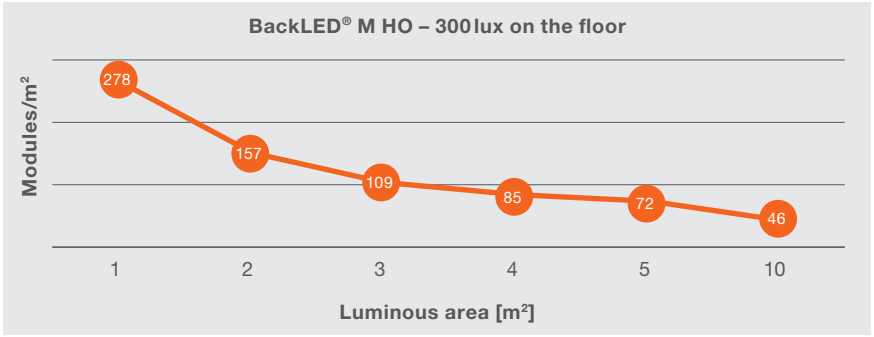
How to get 300 lux on the desk level



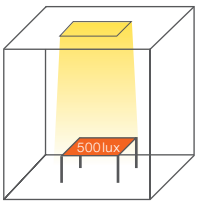


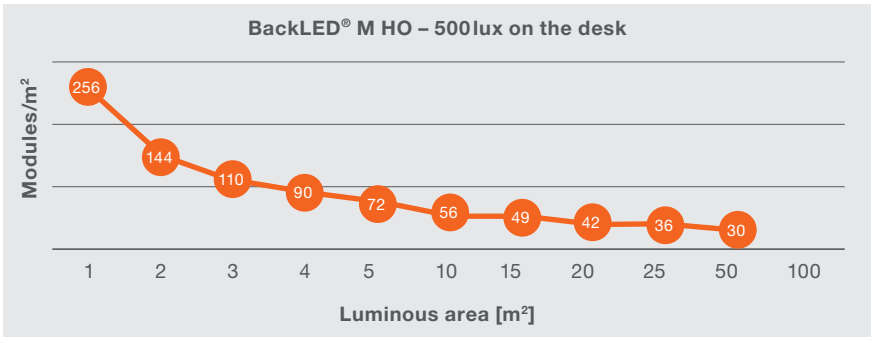
How to get 300 lux on the floor level



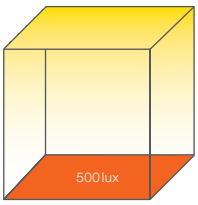


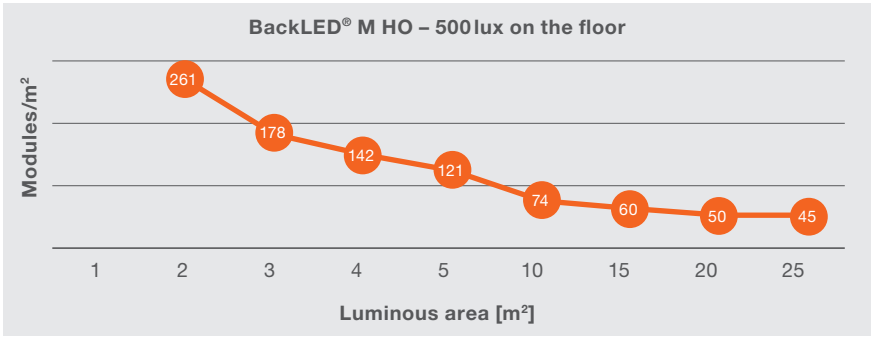
How to get 500 lux on the desk level





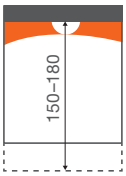
How to get 500 lux on the floor level





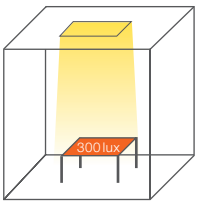
See note on page 131

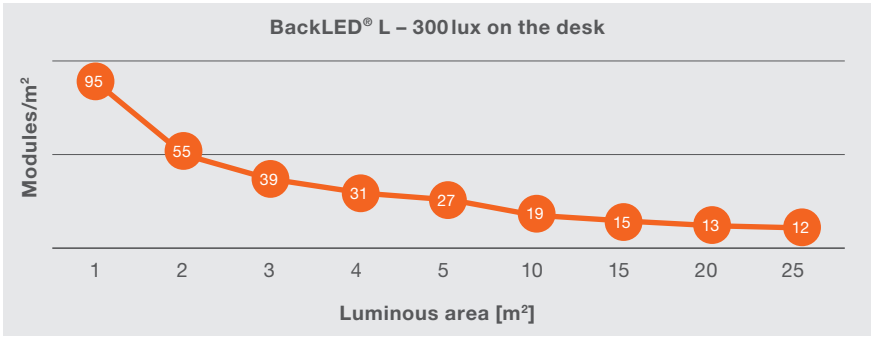
Application guide BackLED® L



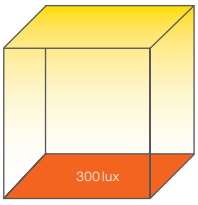
Use the BackLED® L when the depth of the luminous ceiling is around 150–180 mm.

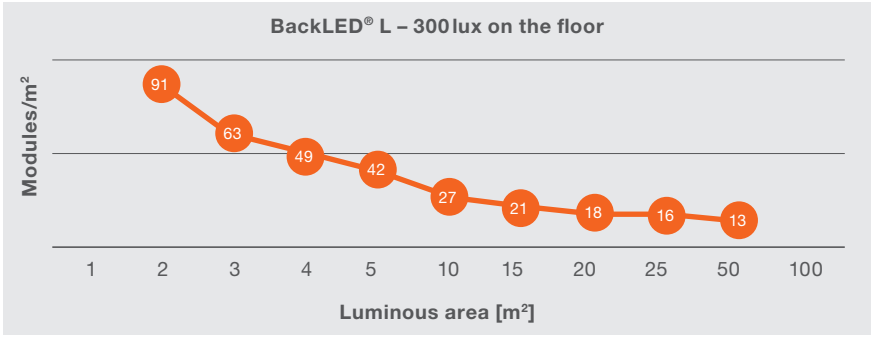
How to get 300 lux on the desk level



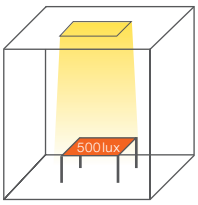


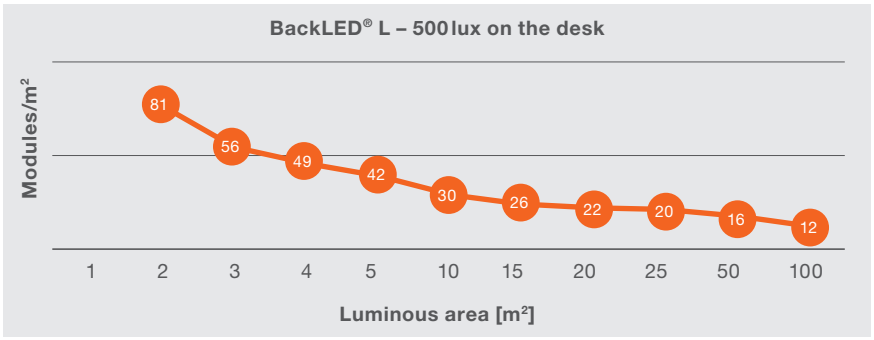
How to get 300 lux on the floor level



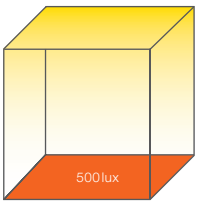


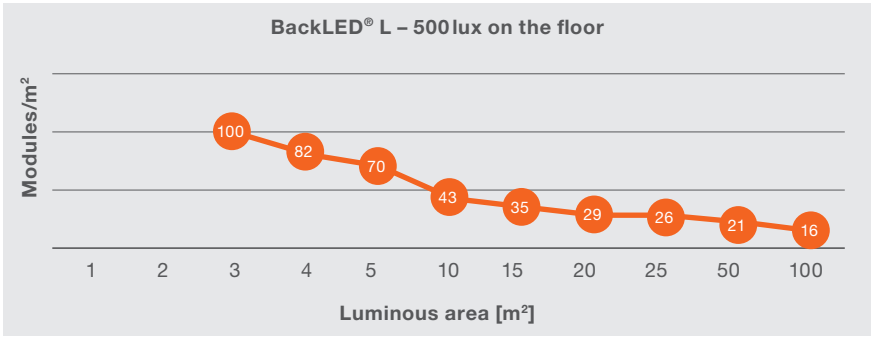
How to get 500 lux on the desk level





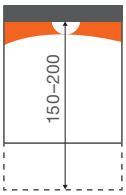
How to get 500 lux on the floor level



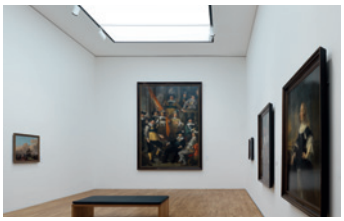


See note on page 131

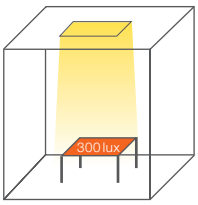
Application guide BackLED® XL

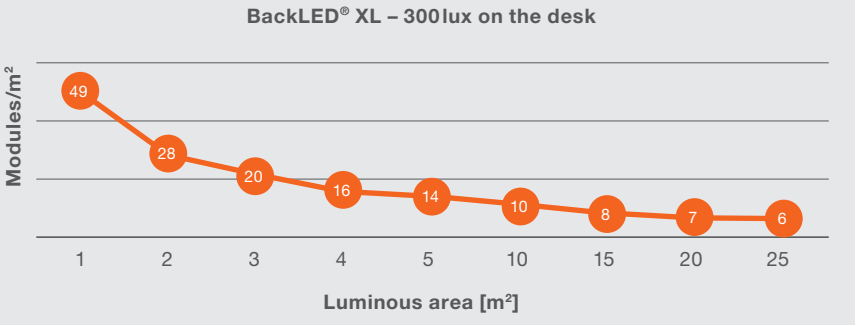


Use the BackLED® XL when a high luminous flux is needed and when the depth of the luminous ceiling is around 150–200 mm.

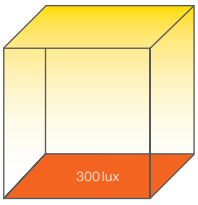


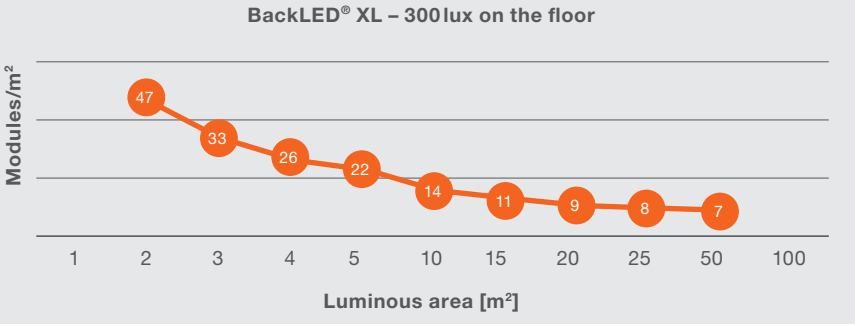
How to get 300 lux on the desk level



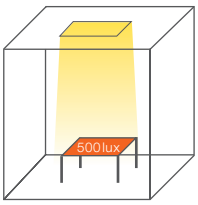


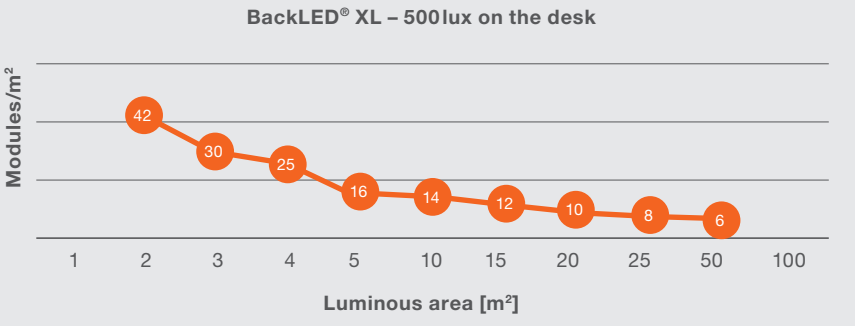
How to get 300 lux on the floor level



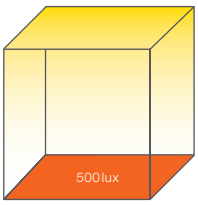


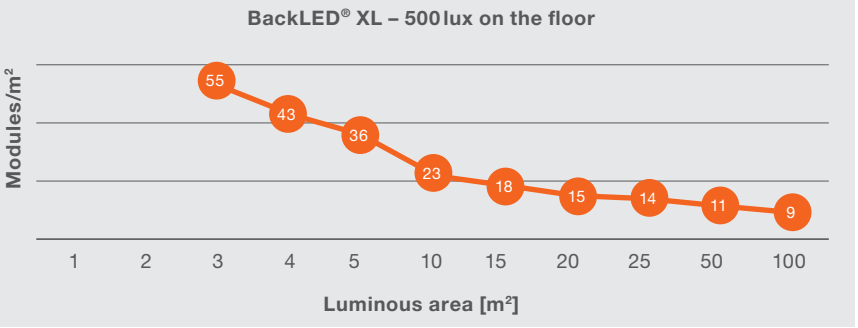
How to get 500 lux on the desk level





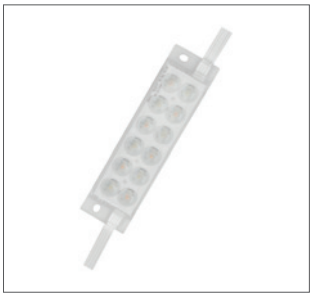
How to get 500 lux on the floor level





See note on page 131

BackLED® Tunable White



Features and benefits

- Lifetime of up to 50,000 h (L70B50) at T_p
- Consistent white light (<3 SDCM)
- Dynamic light color: 2,700...6,500 K
- Uniform illumination thanks to Square Lens Technology
- Flexible programmable lighting moods in connection with light management systems
- UV and IR-free to preserve exhibits
- Dimming range: 5...100 %

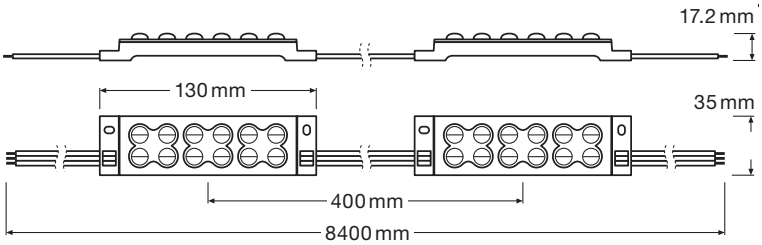
Application areas

- Daylight simulation
- Luminous ceilings/walls in spas
- Shops
- Offices
- Museums
- Art galleries

Standards

- CE

Dimensions

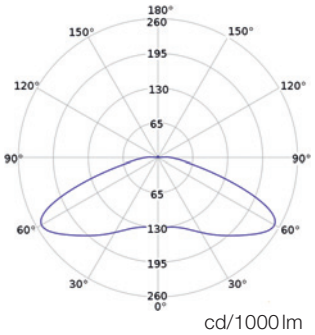


Number of LEDs per module = 12; number of modules per chain = 20

Electrical and output data

Nominal voltage	24 V
Reverse voltage protection up to	24 V
Temperature range in operation at T_c point	-25...+55 °C
Storage temperature	-25...+85 °C

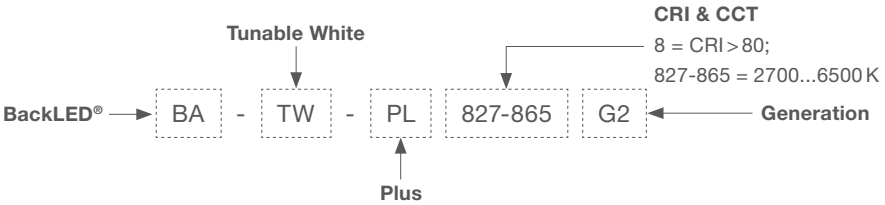
	BA-TW-PL 827-865 G2
Power per chain (module) [W]	96 (4.8)
Luminous efficacy [lm/W]	95.8
Luminous flux per chain (module) [lm]	9200 (460)
Color temperature	2700-6500 K
CRI	>80



Light distribution diagram
Beam angle 150°

— C0-C180/C90-C270

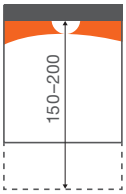
Order code



Accessories

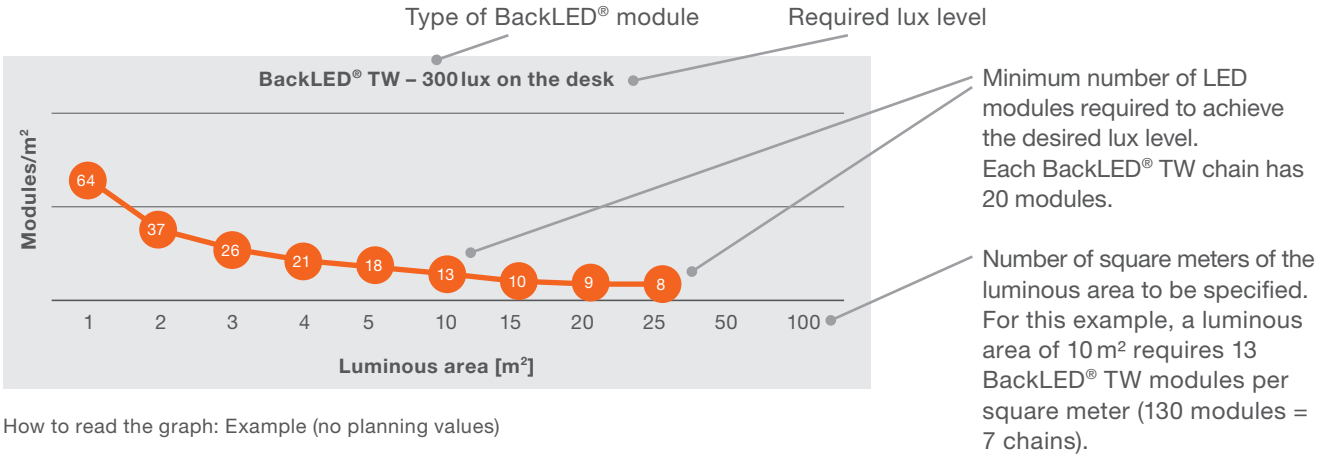
Mounting profile (see page 165) Power supply (see page 166) Control system (see page 180)

How to specify a luminous ceiling



150–200 mm

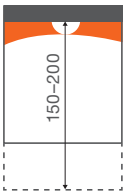
How many BackLED® modules are needed?



How to read the graph: Example (no planning values)

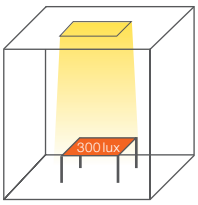
Note:
The bigger the area to be illuminated, the less LED modules per square meter are required to obtain the desired lux level. Uniformity must be considered regardless of the lighting level. Calculations based on a standard room, 3 m high, with non-reflective walls. The reference stretch material has a transmission of 50 %.

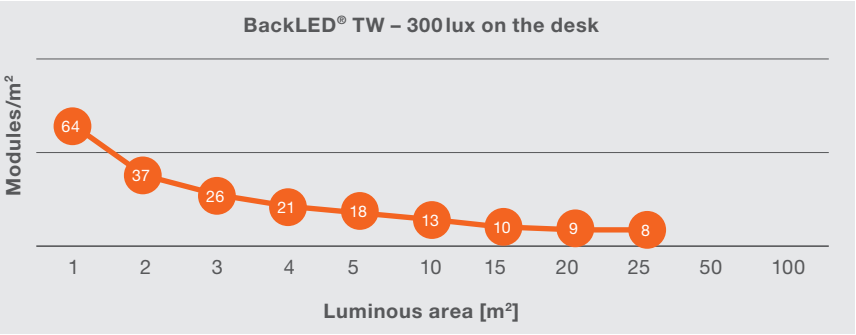
Application guide BackLED® TW



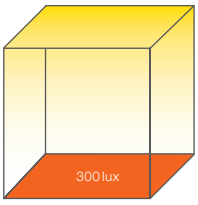
Use the BackLED® TW to have a dynamic lighting effect when the depth of the luminous ceiling is around 150–200 mm.

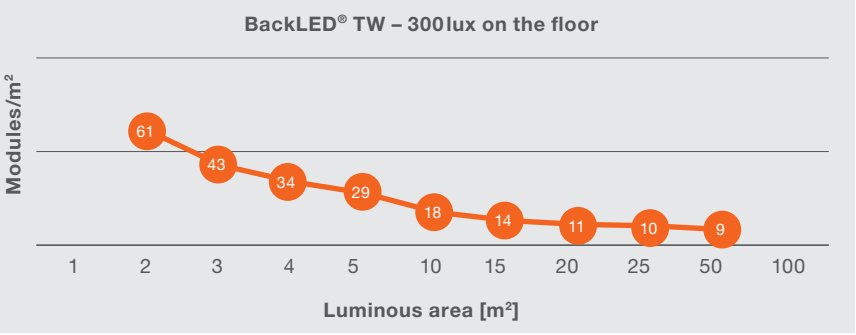
How to get 300 lux on the desk level



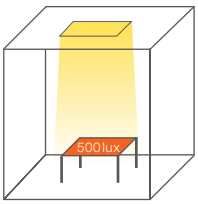


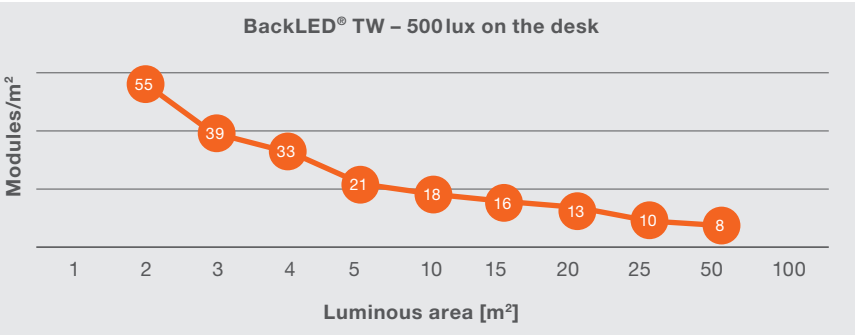
How to get 300 lux on the floor level



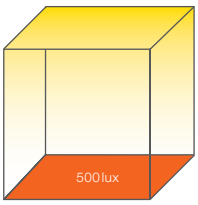


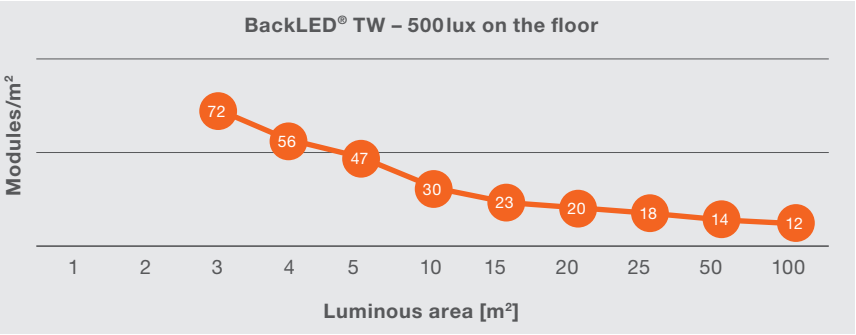
How to get 500 lux on the desk level





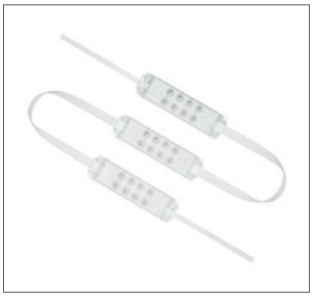
How to get 500 lux on the floor level





See note on page 137

BackLED® RGBW



Features and benefits

- Lifetime of up to 50,000 h (L70B50) at T_p
- Broad color mixing palette in connection with light management systems
- Uniform backlighting surfaces thanks to extremely wide angle optics
- Dimmable by PWM

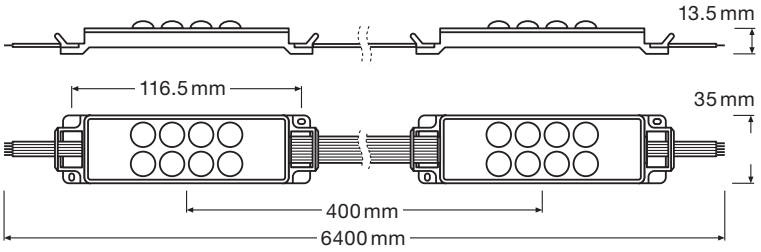
Application areas

- Dynamic color backlighting
- Dynamic mood lighting
- Spas, shops
- Restaurants
- Trade fair lighting

Standards

- CE

Dimensions



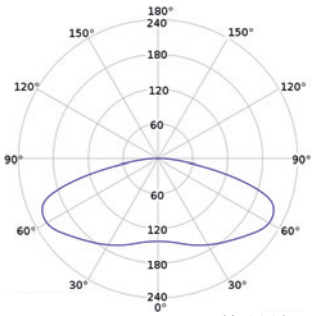
Number of LEDs per module = 8; number of modules per chain = 15

Electrical and output data

Nominal voltage	24 V
Reverse voltage protection up to	24 V
Temperature range in operation at T_c point	-25...+55 °C
Storage temperature	-25...+65 °C

	BA-RGBW-PL G2
Power per chain (module) [W]	55.2 (3.7)
Luminous efficacy [lm/W]	42
Luminous flux per chain (module) [lm]	2310 (154)
Color temperature (White)	6500 K
CRI (White)	>80

Color	**Dom. λ (nm)**
● R	625
● G	522
● B	468

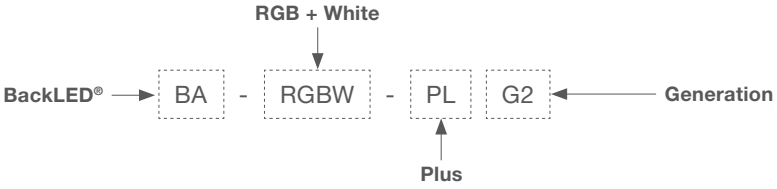


cd/1000 lm

— C0-C180/C90-C270

Light distribution diagram
Beam angle 150°

Order code

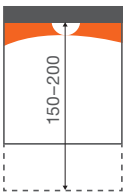


Accessories

Mounting profile (see page 165) | Power supply (see page 166) | Control system (see page 180)

How to specify a luminous ceiling

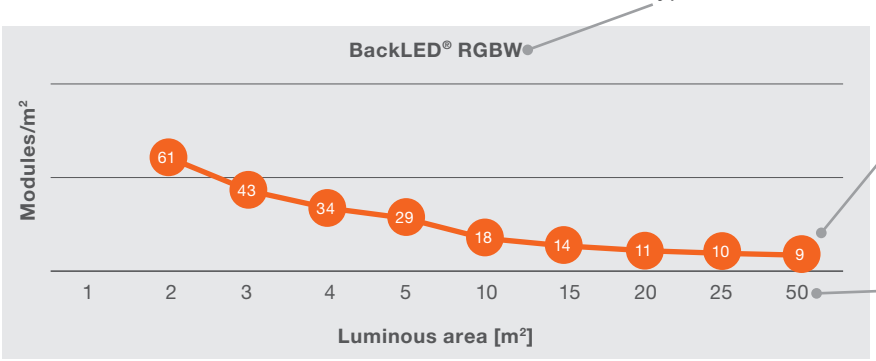
Minimum depth of the luminous ceiling with BackLED® RGBW



150–200 mm

Use the BackLED® RGBW when the depth of the luminous ceiling is around 150–200 mm.

How many BackLED® modules are needed?



Minimum number of LED modules required to achieve a uniform luminosity on the light-emitting surface. Each BackLED® RGBW chain has 15 modules and can be cut every 3 modules.

Number of square meters of the luminous area to be specified. For this example, a luminous area of 10 m² requires 18 BackLED® RGBW modules per square meter (180 modules = 12 chains). More modules can be installed to get more luminosity.

Note:
The bigger the area to be illuminated, the less LED modules per square meter are required. Uniformity must be considered regardless of the lighting level. Calculations based on a standard room, 3 m high, with non-reflective walls. The reference stretch material has a transmission of 50 %.

LINEARlight FLEX® Indoor IP00

Voltage 24 V, beam angle 120°

LINEARlight FLEX® Power 1200 White & Shop White (p. 56 + 58)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF1200-G3-820-09	4052899953055	> 80	2000	10.6	1000	94	100	9000	70	A+	1[1]
LF1200-G3-824-09	4052899953062	> 80	2400	10.6	1200	113	100	9000	70	A+	1[1]
LF1200-G3-827-09	4052899953079	> 80	2700	8.9	1200	135	100	9000	70	A++	1[1]
LF1200-G3-830-09	4052899953086	> 80	3000	8.9	1200	135	100	9000	70	A++	1[1]
LF1200-G3-840-09	4052899953093	> 80	4000	8.1	1200	147	100	9000	70	A++	1[1]
LF1200-G3-850-09	4052899953291	> 80	5000	8.1	1200	147	100	9000	70	A++	1[1]
LF1200-G3-865-09	4052899953314	> 80	6500	8.1	1200	147	100	9000	70	A++	1[1]
LF1200-G3-927-09	4052899953321	> 90	2700	10.6	1100	103	100	9000	70	A+	1[1]
LF1200-G3-930-09	4052899953338	> 90	3000	10.6	1200	113	100	9000	70	A+	1[1]
LF1200-G3-940-09	4052899953345	> 90	4000	10	1200	120	100	9000	70	A+	1[1]
LF1200-G3-SW30-09	4052899964044	> 90	3000	10	1200	120	100	9000	70	A+	1[1]
LF1200-G3-SW40-09	4052899964051	> 90	4000	10	1200	120	100	9000	70	A+	1[1]

LINEARlight FLEX® Power 2000 White & Shop White (p. 56 + 58)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF2000-G3-820-04	4052899952980	> 80	2000	17.9	1650	92	100	4500	70	A+	1[1]
LF2000-G3-824-04	4052899952997	> 80	2400	17.9	2000	112	100	4500	70	A+	1[1]
LF2000-G3-827-04	4052899953000	> 80	2700	15	2000	134	100	4500	70	A++	1[1]
LF2000-G3-830-04	4052899953017	> 80	3000	15	2000	134	100	4500	70	A++	1[1]
LF2000-G3-840-04	4052899953024	> 80	4000	13.6	2000	147	100	4500	70	A++	1[1]
LF2000-G3-850-04	4052899953031	> 80	5000	13.6	2000	147	100	4500	70	A++	1[1]
LF2000-G3-865-04	4052899953048	> 80	6500	13.6	2000	147	100	4500	70	A++	1[1]
LF2000-G3-927-04	4052899963993	> 90	2700	17.9	1800	101	100	4500	70	A+	1[1]
LF2000-G3-930-04	4052899964006	> 90	3000	17.9	2000	112	100	4500	70	A+	1[1]
LF2000-G3-940-04	4052899964013	> 90	4000	16.3	2000	123	100	4500	70	A+	1[1]
LF2000-G3-SW30-04	4052899964020	> 90	3000	17.9	2000	112	100	4500	70	A+	1[1]
LF2000-G3-SW40-04	4052899964037	> 90	4000	17.9	2000	112	100	4500	70	A+	1[1]

LINEARlight FLEX® Power 3000 White & Shop White (p. 56 + 58)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF3000-G3-820-03	4052899952911	> 80	2000	28.9	2500	87	100	3000	70	A	1[1]
LF3000-G3-824-03	4052899952928	> 80	2400	28.9	3000	104	100	3000	70	A+	1[1]
LF3000-G3-827-03	4052899952935	> 80	2700	23.7	3000	127	100	3000	70	A+	1[1]
LF3000-G3-830-03	4052899952942	> 80	3000	23.7	3000	127	100	3000	70	A+	1[1]
LF3000-G3-840-03	4052899952959	> 80	4000	21.8	3000	138	100	3000	70	A++	1[1]
LF3000-G3-850-03	4052899952966	> 80	5000	21.8	3000	138	100	3000	70	A++	1[1]
LF3000-G3-865-03	4052899952973	> 80	6500	21.8	3000	138	100	3000	70	A++	1[1]
LF3000-G3-927-03	4052899963948	> 90	2700	28.9	2700	93	100	3000	70	A+	1[1]
LF3000-G3-930-03	4052899963955	> 90	3000	28.9	3000	104	100	3000	70	A+	1[1]
LF3000-G3-940-03	4052899963962	> 80	4000	26.5	3000	113	100	3000	70	A+	1[1]
LF3000-G3-SW30-02	4052899963979	> 90	3000	27.6	3000	109	100	3000	70	A+	1[1]
LF3000-G3-SW40-02	4052899963986	> 90	4000	27.6	3000	109	100	3000	70	A+	1[1]

[1] The reel comes with a connector with 500 mm flying leads

LINEARlight FLEX® Power 4000 White (p. 56)

Product name	GTIN (EAN)	R_a	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF4000-G3-827-03	4052899952867	> 80	2700	28.9	3750	130	100	3000	70	A+	1[1]
LF4000-G3-830-03	4052899952874	> 80	3000	28.9	3750	130	100	3000	70	A+	1[1]
LF4000-G3-840-03	4052899952881	> 80	4000	28.9	3850	133	100	3000	70	A+	1[1]
LF4000-G3-850-03	4052899952898	> 80	5000	28.9	3850	133	100	3000	70	A+	1[1]
LF4000-G3-865-03	4052899952904	> 80	6500	28.9	3850	133	100	3000	70	A+	1[1]

LINEARlight FLEX® ShortPitch White (p. 60)

Product name	GTIN (EAN)	R_a	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF800S-G4-822-10	4052899575691	> 80	2200	7	680	97	50	1000	120	A+	1[1]
LF800S-G4-825-10	4052899575738	> 80	2500	7	740	106	50	1000	120	A+	1[1]
LF800S-G4-827-10	4052899575752	> 80	2700	7	740	106	50	1000	120	A+	1[1]
LF800S-G4-830-10	4052899575790	> 80	3000	7	800	114	50	1000	120	A+	1[1]
LF800S-G4-835-10	4052899575813	> 80	3500	7	800	114	50	1000	120	A+	1[1]
LF800S-G4-840-10	4052899575851	> 80	4000	7	800	114	50	1000	120	A+	1[1]
LF800S-G4-865-10	4052899575875	> 80	6500	7	800	114	50	1000	120	A+	1[1]
LF800S-G4-922-10	4062172002417	> 90	2200	7	620	89	50	1000	120	A+	1[1]
LF800S-G4-927-10	4052899575912	> 90	2700	7	620	89	50	1000	120	A+	1[1]
LF800S-G4-930-10	4052899575936	> 90	3000	7	620	89	50	1000	120	A+	1[1]
LF800S-G4-935-10	4052899575950	> 90	3500	7	680	97	50	1000	120	A+	1[1]
LF800S-G4-940-10	4052899575998	> 90	4000	7	680	97	50	1000	120	A+	1[1]
LF800S-G4-965-10	4052899576018	> 90	6500	7	680	97	50	1000	120	A+	1[1]

Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

LINEARlight FLEX® Low Power White (p. 62)

Product name	GTIN (EAN)	R_a	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF500-G1-822-10	4052899575134	> 80	2200	3.7	420	114	100	1000	70	–	1[1]
LF500-G1-825-10	4052899575158	> 80	2500	3.7	460	124	100	1000	70	–	1[1]
LF500-G1-827-10	4052899575172	> 80	2700	3.7	460	124	100	1000	70	–	1[1]
LF500-G1-830-10	4052899575196	> 80	3000	3.7	500	135	100	1000	70	–	1[1]
LF500-G1-835-10	4052899575219	> 80	3500	3.7	500	135	100	1000	70	–	1[1]
LF500-G1-840-10	4052899575233	> 80	4000	3.7	500	135	100	1000	70	–	1[1]
LF500-G1-865-10	4052899575257	> 80	6500	3.7	500	135	100	1000	70	–	1[1]
LF500-G1-922-10	4062172002394	> 90	2200	3.7	385	104	100	1000	70	–	1[1]
LF500-G1-927-10	4052899575271	> 90	2700	3.7	385	104	100	1000	70	–	1[1]
LF500-G1-930-10	4052899575295	> 90	3000	3.7	385	104	100	1000	70	–	1[1]
LF500-G1-935-10	4052899575318	> 90	3500	3.7	420	114	100	1000	70	–	1[1]
LF500-G1-940-10	4052899575332	> 90	4000	3.7	420	114	100	1000	70	–	1[1]
LF500-G1-965-10	4052899575356	> 90	6500	3.7	420	114	100	1000	70	–	1[1]

Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

[1] The reel comes with a connector with 500 mm flying leads

LINEARlight FLEX® Tunable White & Tunable Warm White (p. 64)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF4000TW-G3-827/865-02	4052899953260	> 80	2700…6500	36.8	3800	103	75	2100	160	A+	1[1]
LF3000TW-G3-827/865-03	4052899953277	> 80	2700…6500	30	3000	100	75	3000	160	A+	1[1]
LF2000TW-G3-827/865-04	4052899953284	> 80	2700…6500	18.5	2000	108	75	4500	160	A+	1[1]
LF1200TW-G3-827/865-09	4052899953161	> 80	2700…6500	10.5	1200	114	75	9000	160	A+	1[1]
LF3000TWW-G1-822.835-02	4052899563339	> 80	2200…3500	33.3	3000	90	65	2100	160	A	1[2]
LF3000TWW-G1-825.835-02	4052899563353	> 80	2500…3500	31	3000	95	65	2100	160	A	1[2]

Note:
Data related to TWW are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

LINEARlight FLEX® Colormix (p. 66 + 68)

Product name	GTIN (EAN)	Ra	K / λ	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF200C-G3-RGB-06	4052899501997	–	625/525/467	6.5	209	32	150	6000	33	–	1[3]
LF05CE-RGB1	4008321593375	–	625/525/467	6.5	180	28	150	6000	33	–	1[3]
LF05CA2-RGB3	4008321851536	–	625/525/467	18	470	26	100	4000	50	–	1[3]
LF700RGBW-G1-822-06	4052899525221	> 80	2200 K	10.7	657	61	150	6000	80	A+	1[2]
LF700RGBW-G1-827-06	4052899525269	> 80	2700 K	9.8	697	71	150	6000	80	A++	1[2]
LF700RGBW-G1-830-06	4052899525306	> 80	3000 K	9.8	697	71	150	6000	80	A++	1[2]
LF700RGBW-G1-840-06	4052899540668	> 80	4000 K	9.6	697	73	150	6000	80	A++	1[2]
LF700RGBW-G1-865-06	4052899525344	> 80	6500 K	9.6	697	73	150	6000	80	A++	1[2]
LF1300RGBW-G1-822-04	4052899525061	> 80	2200 K	19.9	1213	65	100	3900	120	A+	1[2]
LF1300RGBW-G1-827-04	4052899525122	> 80	2700 K	17.9	1293	72	100	3900	120	A++	1[2]
LF1300RGBW-G1-830-04	4052899525146	> 80	3000 K	17.9	1293	72	100	3900	120	A++	1[2]
LF1300RGBW-G1-840-04	4052899540620	> 80	4000 K	17.4	1293	74	100	3900	120	A++	1[2]
LF1300RGBW-G1-865-04	4052899525184	> 80	6500 K	17.4	1293	74	100	3900	120	A++	1[2]

LINEARlight FLEX® Monochrome (p. 70)

Product name	GTIN (EAN)	COLOR	K / λ	W/m	lm/m	lm/W	l min. [mm]	l [mm]	h [mm]	b [mm]	METER		
LF05A2-B3	4052899924123	Blue	467	7.2	80	11	100	10000	2.4	8	50	–	1[3]
LF05A2-R3	4052899924086	Red	625	8.3	120	14	100	10000	2.4	8	50	–	1[3]
LF05A2-T3	4052899924116	Green	525	4.9	180	37	100	10000	2.4	8	50	–	1[3]
LF05A2-Y3	4052899924109	Yellow	587	8.3	110	13	100	10000	2.4	8	50	–	1[3]
LF05A2-O3	4052899924093	Orange	602	8.3	130	16	100	10000	2.4	8	50	–	1[3]

[1] The reel comes with a connector with 500 mm flying leads
[2] The reels comes with pre-soldered wires, no connector included
[3] No connector included

LINEARlight FLEX® Protect IP67

Voltage 24 V, beam angle 120°

LINEARlight FLEX® Protect Power 800 White (p. 74)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFP800-G3-824-09	4052899481565	> 80	2400	7.6	800	106	100	9000	70	A+	1[1]
LFP800-G3-827-09	4052899481589	> 80	2700	7.1	800	113	100	9000	70	A++	1[1]

LINEARlight FLEX® Protect Power 1200 White & Shop White (p. 74 + 76)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFP1200-G3-824-09	4052899481640	> 80	2400	10.6	1100	104	100	9000	70	A+	1[1]
LFP1200-G3-827-09	4052899481626	> 80	2700	10.6	1150	108	100	9000	70	A+	1[1]
LFP1200-G3-830-09	4052899481664	> 80	3000	10.6	1200	113	100	9000	70	A+	1[1]
LFP1200-G3-840-09	4052899481688	> 80	4000	8.9	1200	135	100	9000	70	A++	1[1]
LFP1200-G3-860-09	4052899481701	> 80	6000	8.1	1100	135	100	9000	70	A++	1[1]
LFP1200-G3-930-09	4052899481725	> 90	3500	10.6	1100	104	100	9000	70	A+	1[1]
LFP1200-G3-940-09	4052899481749	> 90	4000	10.6	1200	113	100	9000	70	A+	1[1]
LFP1200-G3-960-09	4052899481763	> 90	6000	10	1200	120	100	9000	70	A+	1[1]
LFP1200-G3-SW40	4052899501935	> 90	4300	10.6	1200	113	100	9000	70	A+	1[1]

LINEARlight FLEX® Protect Power 2000 White & Shop White (p. 74 + 76)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFP2000-G3-824-04	4052899481138	> 80	2400	17.9	1800	101	100	4500	70	A+	1[1]
LFP2000-G3-827-04	4052899481152	> 80	2700	17.9	1900	106	100	4500	70	A+	1[1]
LFP2000-G3-830-04	4052899481176	> 80	3000	17.9	1900	106	100	4500	70	A+	1[1]
LFP2000-G3-840-04	4052899481190	> 80	4000	15	1900	127	100	4500	70	A+	1[1]
LFP2000-G3-860-04	4052899481213	> 80	6000	13.6	1800	132	100	4500	70	A+	1[1]
LFP2000-G3-930-04	4052899481237	> 90	3500	17.9	1800	101	100	4500	70	A+	1[1]
LFP2000-G3-940-04	4052899481251	> 90	4000	17.9	1900	106	100	4500	70	A+	1[1]
LFP2000-G3-960-04	4052899481275	> 90	6000	16.3	1900	117	100	4500	70	A+	1[1]
LFP2000-G3-SW40	4052899501911	> 90	4300	17.9	1900	106	100	4500	70	A+	1[1]

LINEARlight FLEX® Protect Power 3000 White & Shop White (p. 74 + 76)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFP3000-G3-824-03	4052899481299	> 80	2400	28.9	2800	97	100	3000	70	A+	1[1]
LFP3000-G3-827-03	4052899481312	> 80	2700	28.9	3000	104	100	3000	70	A+	1[1]
LFP3000-G3-830-03	4052899481336	> 80	3000	28.9	3000	104	100	3000	70	A+	1[1]
LFP3000-G3-840-03	4052899481350	> 80	4000	23.7	3000	127	100	3000	70	A+	1[1]
LFP3000-G3-860-03	4052899481374	> 80	6000	21.8	2800	128	100	3000	70	A+	1[1]
LFP3000-G3-930-03	4052899481398	> 90	3500	28.9	2850	99	100	3000	70	A+	1[1]
LFP3000-G3-940-03	4052899481411	> 90	4000	28.9	3000	104	100	3000	70	A+	1[1]
LFP3000-G3-960-03	4052899481435	> 90	6000	26.5	3000	113	100	3000	70	A+	1[1]
LFP3000-G3-SW40	4052899501898	> 90	4300	27.6	3000	109	100	3000	70	A+	1[1]

[1] The reel comes with a connector with 500 mm flying leads

LINEARlight FLEX® Protect ShortPitch White (p. 78)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFP800S-G4-827-10	4052899575677	> 80	2700	7	680	97	50	1000	120	A+	1[1]
LFP800S-G4-830-10	4052899575714	> 80	3000	7	740	106	50	1000	120	A+	1[1]
LFP800S-G4-835-10	4052899575776	> 80	3500	7	740	106	50	1000	120	A+	1[1]
LFP800S-G4-840-10	4052899575837	> 80	4000	7	800	114	50	1000	120	A+	1[1]
LFP800S-G4-865-10	4052899575899	> 80	6500	7	800	114	50	1000	120	A+	1[1]
LFP800S-G4-927-10	4052899595231	> 90	2700	7	620	89	50	1000	120	A+	1[1]
LFP800S-G4-935-10	4052899576032	> 90	3500	7	620	89	50	1000	120	A+	1[1]
LFP800S-G4-940-10	4052899576056	> 90	4000	7	620	89	50	1000	120	A+	1[1]
LFP800S-G4-965-10	4052899576070	> 90	6500	7	680	97	50	1000	120	A+	1[1]

Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

LINEARlight FLEX® Protect Low Power White (p. 80)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFP500-G1-827-10	4052899575400	> 80	2700	3.7	420	114	100	1000	70	–	1[1]
LFP500-G1-830-10	4052899575424	> 80	3000	3.7	460	124	100	1000	70	–	1[1]
LFP500-G1-835-10	4052899575448	> 80	3500	3.7	460	124	100	1000	70	–	1[1]
LFP500-G1-840-10	4052899575462	> 80	4000	3.7	500	135	100	1000	70	–	1[1]
LFP500-G1-865-10	4052899575486	> 80	6500	3.7	500	135	100	1000	70	–	1[1]
LFP500-G1-927-10	4052899595217	> 90	2700	3.7	385	104	100	1000	70	–	1[1]
LFP500-G1-935-10	4052899575523	> 90	3500	3.7	385	104	100	1000	70	–	1[1]
LFP500-G1-940-10	4052899575547	> 90	4000	3.7	385	104	100	1000	70	–	1[1]
LFP500-G1-965-10	4052899575561	> 90	6500	3.7	420	114	100	1000	70	–	1[1]

Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

LINEARlight FLEX® Protect Colormix RGB (p. 82)

Product name	GTIN (EAN)	Ra	λ	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF05CA-RGB3-P	4008321977205	–	625/525/467	18	435	–	100	4000	50	–	1[2]
LFP200C-G3-RGB-06	4052899501973	–	625/525/467	6.5	209	–	150	6000	33	–	1[2]
LF05CE-RGB1-P	4008321977182	–	625/525/467	6.5	180	–	150	6000	33	–	1[2]

LINEARlight FLEX® Protect Monochrome (p. 84)

Product name	GTIN (EAN)	Ra	λ	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LF05A-B3-P	4008321617804	–	467	7.3	85	–	100	9900	50	–	1[2]

[1] The reel comes with a connector with 500 mm flying leads
[2] No connector included

LINEARlight FLEX® DIFFUSE

Voltage 24 V, beam angle 120°

LINEARlight FLEX® DIFFUSE Top White (p. 88)

Product name	GTIN (EAN)	R_a	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFD400T-G1-825-06	coming soon	> 80	2500	–	–	–	50	6000	–	–	1[1]
LFD400T-G1-827-06	4052899953512	> 80	2700	7.2	490	68	50	6000	140	A+	1[1]
LFD400T-G1-830-06	4052899953529	> 80	3000	7.2	490	68	50	6000	140	A+	1[1]
LFD400T-G1-835-06	coming soon	> 80	3500	–	–	–	50	6000	–	–	1[1]
LFD400T-G1-840-06	4052899953536	> 80	4000	7.2	480	67	50	6000	140	A+	1[1]
LFD400T-G1-865-06	4052899953543	> 80	6500	7.2	460	64	50	6000	140	A+	1[1]
LFD400T-G1-925-06	coming soon	> 90	2500	–	–	–	50	6000	–	–	1[1]
LFD400T-G1-930-06	coming soon	> 90	3000	–	–	–	50	6000	–	–	1[1]
LFD400T-G1-935-06	coming soon	> 90	3500	–	–	–	50	6000	–	–	1[1]
LFD400T-G1-940-06	coming soon	> 90	4000	–	–	–	50	6000	–	–	1[1]
LFD400T-G1-965-06	coming soon	> 90	6500	–	–	–	50	6000	–	–	1[1]
LFD800T-G1-825-06	coming soon	> 80	2500	–	–	–	50	6000	–	–	1[1]
LFD800T-G1-827-06	4052899499768	> 80	2700	11.5	750	65	50	6000	140	A	1[1]
LFD800T-G1-830-06	4052899499805	> 80	3000	11.5	750	65	50	6000	140	A	1[1]
LFD800T-G1-835-06	coming soon	> 80	3500	–	–	–	50	6000	–	–	1[1]
LFD800T-G1-840-06	4052899499843	> 80	4000	11.5	720	63	50	6000	140	A	1[1]
LFD800T-G1-865-06	4052899499881	> 80	6500	11.5	660	57	50	6000	140	A	1[1]
LFD800T-G1-925-06	coming soon	> 90	2500	–	–	–	50	6000	–	–	1[1]
LFD800T-G1-930-06	coming soon	> 90	3000	–	–	–	50	6000	–	–	1[1]
LFD800T-G1-935-06	coming soon	> 90	3500	–	–	–	50	6000	–	–	1[1]
LFD800T-G1-940-06	coming soon	> 90	4000	–	–	–	50	6000	–	–	1[1]
LFD800T-G1-965-06	coming soon	> 90	6500	–	–	–	50	6000	–	–	1[1]

Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

[1] The reel comes with a connector with 500 mm flying leads

LINEARlight FLEX® DIFFUSE Side White (p. 90)

Product name	GTIN (EAN)	Ra	K	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFD400S-G1-825-06	coming soon	> 80	2500	–	–	–	50	6000	–	–	1[1]
LFD400S-G1-827-06	4052899953611	> 80	2700	7.2	410	57	50	6000	140	A+	1[1]
LFD400S-G1-830-06	4052899953628	> 80	3000	7.2	410	57	50	6000	140	A+	1[1]
LFD400S-G1-835-06	coming soon	> 80	3500	–	–	–	50	6000	–	–	1[1]
LFD400S-G1-840-06	4052899953635	> 80	4000	7.2	410	57	50	6000	140	A+	1[1]
LFD400S-G1-865-06	4052899953642	> 80	6500	7.2	350	52	50	6000	140	A	1[1]
LFD400S-G1-925-06	coming soon	> 90	2500	–	–	–	50	6000	–	–	1[1]
LFD400S-G1-930-06	coming soon	> 90	3000	–	–	–	50	6000	–	–	1[1]
LFD400S-G1-935-06	coming soon	> 90	3500	–	–	–	50	6000	–	–	1[1]
LFD400S-G1-940-06	coming soon	> 90	4000	–	–	–	50	6000	–	–	1[1]
LFD400S-G1-965-06	coming soon	> 90	6500	–	–	–	50	6000	–	–	1[1]
LFD600S-G1-825-06	coming soon	> 80	2500	–	–	–	50	6000	–	–	1[1]
LFD600S-G1-827-06	4052899499928	> 80	2700	11.5	600	52	50	6000	140	A	1[1]
LFD600S-G1-830-06	4052899499966	> 80	3000	11.5	600	52	50	6000	140	A	1[1]
LFD600S-G1-835-06	coming soon	> 80	3500	–	–	–	50	6000	–	–	1[1]
LFD600S-G1-840-06	4052899500006	> 80	4000	11.5	600	52	50	6000	140	A	1[1]
LFD600S-G1-865-06	4052899500044	> 80	6500	11.5	530	46	50	6000	140	A	1[1]
LFD600S-G1-925-06	coming soon	> 90	2500	–	–	–	50	6000	–	–	1[1]
LFD600S-G1-930-06	coming soon	> 90	3000	–	–	–	50	6000	–	–	1[1]
LFD600S-G1-935-06	coming soon	> 90	3500	–	–	–	50	6000	–	–	1[1]
LFD600S-G1-940-06	coming soon	> 90	4000	–	–	–	50	6000	–	–	1[1]
LFD600S-G1-965-06	coming soon	> 90	6500	–	–	–	50	6000	–	–	1[1]

Note:
Data are preliminary and subject to change without notice. For updated values, please check www.osram.com/flex.

LINEARlight FLEX® DIFFUSE Top Monochrome (p. 92)

Product name	GTIN (EAN)	Ra	λ	COLOR	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFD400MT-G1-BL-06	4052899953550	–	457-467	Blue	12	60	5	40	6000	150	–	1[1]
LFD400MT-G1-GR-06	4052899953567	–	525-539	Green	12	285	24	40	6000	150	–	1[1]
LFD400MT-G1-GR-03	4052899450851	–	525-539	Green	12	285	24	40	3000	150	–	1[1]
LFD400MT-G1-RE-06	4052899953574	–	612-626	Red	12	320	27	40	6000	150	–	1[1]
LFD400MT-G1-YE-06	4052899953581	–	586-594	Yellow	12	162	14	40	6000	150	–	1[1]
LFD400MT-G1-OR-06	4052899953598	–	603-611	Orange	12	175	15	40	6000	150	–	1[1]

[1] The reel comes with a connector with 500 mm flying leads

LINEARlight FLEX® DIFFUSE Side Monochrome (p. 94)

Product name	GTIN (EAN)	Ra	λ	COLOR	W/m	lm/m	lm/W	l min. [mm]	l [mm]	METER		
LFD400MS-G1-BL-06	4052899953659	–	457-467	Blue	12	55	5	40	6000	150	–	1[1]
LFD400MS-G1-GR-06	4052899953666	–	525-539	Green	12	260	22	40	6000	150	–	1[1]
LFD400MS-G1-GR-03	4052899450882	–	603-611	Green	12	260	13	40	6000	150	–	1[1]
LFD400MS-G1-RE-06	4052899953673	–	525-539	Red	12	240	22	40	6000	150	–	1[1]
LFD400MS-G1-YE-06	4052899953680	–	612-626	Yellow	12	150	20	40	6000	150	–	1[1]
LFD400MS-G1-OR-06	4052899953697	–	586-594	Orange	12	160	13	40	6000	150	–	1[1]

[1] The reel comes with a connector with 500 mm flying leads

Accessories

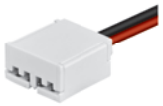
LINEARlight FLEX® compatibility connectors

Product families		Connecting systems	
LINEARlight FLEX® Power White LINEARlight FLEX® Power Shop White LINEARlight FLEX® ShortPitch White LINEARlight FLEX® Low Power White	+	FX-SC08-G2-CT2PF-0500 (2pin)	4052899464735
		FX-SC08-G2-CT2PF-1000 (2pin)	4052899464766
		FX-SC08-G2-CT4PJ (Jumper)	4052899464858
		FX-SC08-G1-FW4P-LIN-0030 (extension)	4008321875587
LINEARlight FLEX® Monochrome	+	FX-SC08-G2-CT2PF-0500 (2pin)	4052899464735
		FX-SC08-G2-CT2PF-1000 (2pin)	4052899464766
		FX-SC08-G2-CT4PJ (Jumper)	4052899464858
		FX-SC08-G1-FW4P-LIN-0030 (extension)	4008321875587
		FX-SC08-G1-FW4P-LIN-0150 (extension)	4008321875563
		FX-SC08-G1-FW4P-LIN-0300 (extension)	4052899469259
	+	LF-2PIN FLEX	4008321955326
		LF-CONN-10 FLEX	4008321955333
		LF-CONN-150 FLEX	4008321955340
		LF-2TERM FLEX	4008321955357
LINEARlight FLEX® Tunable White LINEARlight FLEX® Tunable Warm White	+	FX-SC08-G2-CT4PJ (Jumper)	4052899464858
		FX-SC08-G2-CT3PF-0500HF (3pin)	4052899482999
		FX-SC08-G2-CT3PFE-0500HF (3pin)	4052899483026
		FX-SC08-G1-FW4P-LIN-0030 (extension)	4008321875587
		FX-SC08-G1-FW4P-LIN-0150 (extension)	4008321875563
		FX-SC08-G1-FW4P-LIN-0300 (extension)	4052899469259
LINEARlight FLEX® Colormix RGB (LF05CA2)	+	FX-SC08-G2-CT4PF-0500 (4pin)	4052899464797
		FX-SC08-G2-CT4PF-1000 (4pin)	4052899464827
		FX-SC08-G1-FW4P-LIN-0030 (extension)	4008321875587
		FX-SC08-G1-FW4P-LIN-0150 (extension)	4008321875563
		FX-SC08-G1-FW4P-LIN-0300 (extension)	4052899469259
LINEARlight FLEX® Colormix RGB (LF200C/LF05CE)	+	LF-4PIN FLEX	4008321514585
		LF-CONN-10 FLEX	4008321955333
		LF-CONN-150 FLEX	4008321955340

LINEARlight FLEX® Protect

Product families		Connecting systems	
LINEARlight FLEX® Protect Power LINEARlight FLEX® Protect Shop White LINEARlight FLEX® Protect ShortPitch White LINEARlight FLEX® Protect Low Power White	+	LF-ENDCAP IP67 LP	4062172016360
		LF-2CONN IP67 LP	4062172016384
		LF-2PIN IP67 LP	4062172016414
LINEARlight FLEX® Protect Monochrome	+	LF-ENDCAP-PROTECT	4062172016438
		LF-CLIP FIXTURE PROTECT	4008321644749
		LF-2PIN-PROTECT	4062172016513
		LF-2CONN-PROTECT	4062172016476
LINEARlight FLEX® Protect Colormix RGB	+	LF-ENDCAP-PROTECT	4062172016438
		LF-CLIP FIXTURE PROTECT	4008321644749
		LF-4PIN PROTECT	4062172016490
		LF-2CONN-PROTECT	4062172016476
		LF-4CONN-PROTECT	4062172016452

Accessories for LINEARlight FLEX®

1 

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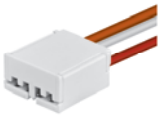
3 

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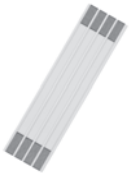
5 

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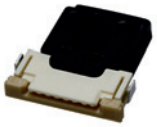
8 

SLIMCONNECT system G2

Product name	GTIN (EAN)	h [mm]	l [mm]	b [mm]		No.
FX-SC08-G2-CT2PF-0500 (2pin)	4052899464735	5.9	510	9.2	20[1]	1
FX-SC08-G2-CT2PF-1000 (2pin)	4052899464766	5.9	1010	9.2	20[1]	1
FX-SC08-G2-CT4PJ (Jumper)	4052899464858	5.9	9	9.2	25[2]	2
FX-SC08-G2-CT3PF-0500HF (3pin)	4052899482999	5.9	510	9.2	20[3]	3
FX-SC08-G2-CT3PFE-0500HF (3pin)	4052899483026	5.9	510	9.2	20[3]	3
FX-SC08-G2-CT4PF-0500 (4pin)	4052899464797	5.9	510	9.2	20[4]	4
FX-SC08-G2-CT4PF-1000 (4pin)	4052899464827	5.9	1010	9.2	20[4]	4
FX-SC08-G1-FW4P-LIN-0030 (extension)	4008321875587	–	30	8	100[5]	5
FX-SC08-G1-FW4P-LIN-0150 (extension)	4008321875563	–	150	8	50[5]	5
FX-SC08-G1-FW4P-LIN-0300 (extension)	4052899469259	–	300	8	50[5]	5

SLIMCONNECT system FLEX

Product name	GTIN (EAN)	h [mm]	l [mm]	b [mm]		No.
LF-2PIN FLEX	4008321955326	5.3	510	16.4	10[6]	6
LF-4PIN FLEX	4008321514585	5.3	510	16.4	10[4]	–
LF-CONN-10 FLEX	4008321955333	5.3	36.5	16.4	10[7]	7
LF-CONN-150 FLEX	4008321955340	5.3	176.5	16.4	10[7]	7
LF-2TERM FLEX	4008321955357	5.3	16.2	16.4	10[8]	8

[1] 2pin feeder
[2] Jumper
[3] 3pin feeder
[4] 4pin feeder
[5] Wire
[6] 2pin feeder
[7] Bridge
[8] Terminal

Accessories for LINEARlight FLEX® Protect

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CONNECTsystem FLEX IP67 LP (low profile)

Product name	GTIN (EAN)	h [mm]	l [mm]	b [mm]		No.
LF-ENDCAP IP67 LP	4062172016360	7	13.7	10	10[1], 1[5]	1
LF-2CONN IP67 LP	4062172016384	13.5	30	21	5[2]	2
LF-2PIN IP67 LP	4062172016414	13.5	510	21	5[3], 5[1], 1[5]	3

CONNECTsystem IP67

Product name	GTIN (EAN)	h [mm]	l [mm]	b [mm]		No.
LF-ENDCAP-PROTECT	4062172016438	8	13.7	10	10[1], 1[5]	1
LF-CLIP FIXTURE PROTECT	4008321644749	5.7	27	6	50[4]	4
LF-2PIN-PROTECT	4062172016513	13.5	510	21	5[3], 5[1], 1[5]	3
LF-4PIN PROTECT	4062172016490	13.5	510	21	5[3], 5[1], 1[5]	3
LF-2CONN-PROTECT	4062172016476	13.5	30	21	5[2]	2
LF-4CONN-PROTECT	4062172016452	13.5	30	21	5[2]	2

[1] End cap
[2] Jumper
[3] Feeder
[4] Clip
[5] Glue

Accessories and profiles for LINEARlight FLEX® DIFFUSE

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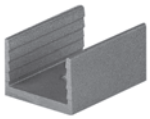
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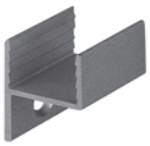
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Accessories for top bending

Product name	GTIN (EAN)	h [mm]	l [mm]	b [mm]		No.
FX-DCS-G1-CM2PF-IP67-500-X5	4052899451971	30	260	150	5[1]	1
FX-DCS-G1-CM2PJ-IP67-0190-X5	4052899452039	30	260	150	5[2]	2
FX-LFDM-G1-BT-17H11	4052899452480	20	11	16.5	50[6]	3
FX-LFDM-G1-BTL-17H11E9	4052899452510	20	19	16.5	50[6]	4
FX-DCS-G1-CM2PF-IP67-TOPKIT5	4052899451995	30	260	150	5[1], 10[3], 1[4]	5
FX-DCS-G1-CM2PJ-IP67-TOPKIT5	4052899452053	30	260	150	5[2], 10[3], 1[4]	6
FX-DCS-G1-ECT-KIT20	4052899452107	30	100	100	20[2], 2[4]	7
FX-DCS-G1-EHT-KIT20	4052899452176	30	100	100	20[2], 1[5]	8
FX-DCS-G1-GL-25	4052899452244	30	100	150	1[5]	9
FX-LFDM-G1-TTL-16H11W10-200	4052899544963	20.5	2000	16.2	5[7]	10
FX-LFDM-G1-TT-16H16-200	4052899544949	15.5	2000	16.2	5[7]	11
FX-QMS-G1-BMZI-DIV1	4052899446861	9.5	17	20	40[6]	12

[1] Feeder
[2] Jumper
[3] End cap
[4] Glue (5 g)
[5] Glue (25 g)
[6] Mounting brackets
[7] Profile

Accessories and profiles for LINEARlight FLEX® DIFFUSE

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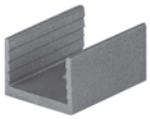
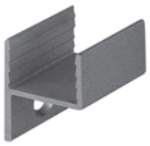
3 

4 

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Accessories for side bending

Product name	GTIN (EAN)	h [mm]	l [mm]	b [mm]		No.
FX-DCS-G1-CM2PF-IP67-500-X5	4052899451971	30	260	150	5[1]	1
FX-DCS-G1-CM2PJ-IP67-0190-X5	4052899452039	30	260	150	5[2]	2
FX-LFDM-G1-BS-12H13	4052899452541	20	11.5	13	50[6]	3
FX-LFDM-G1-BSL-12H13E9	4052899452572	20	20	13	50[6]	4
FX-DCS-G1-CM2PF-IP67-SIDEKIT5	4052899452015	30	260	150	5[1], 10[3], 1[4]	5
FX-DCS-G1-CM2PJ-IP67-SIDEKIT5	4052899452077	30	260	150	5[2], 10[3], 1[4]	6
FX-DCS-G1-ECS-KIT20	4052899452121	30	100	100	20[3], 2[4]	7
FX-DCS-G1-EHS-KIT20	4052899452206	30	100	100	20[3], 1[5]	8
FX-DCS-G1-GL-25	4052899452244	30	100	150	1[5]	9
FX-LFDM-G1-TS-16H16-200	4052899544925	16.5	2000	16.2	5[7]	10
FX-QMS-G1-BMZI-DIV1	4052899446861	9.5	17	20	40[6]	11

[1] Feeder
[2] Jumper
[3] End cap
[4] Glue (5 g)
[5] Glue (25 g)
[6] Mounting brackets
[7] Profile

Profile systems

Slim profile systems

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim profile	LF-LTS-2100	4008321978981	1x profile (L2100 mm)	9	15	2100	40	1
End cap for LF-LTS-COVER-D	LF-LTS-ENDCAP	4052899387591	35x end cap	8	20	20	160	2
Mounting bracket	LF-LTS-MB	4008321979025	20x mounting bracket	4	16	35	280	3

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim 6 mm height	FX-QMS-G1-TU15H6-300	4008321978981	1x profile (L3000 mm)	6	15.2	3000	40	1
End cap	FX-QMS-G1-EFGP-TU15H6	4052899449107	40x end cap	6	9.5	15	400	2
End cap with hole	FX-QMS-G1-EFGH-TU15H6	4052899999923	40x end cap	6	9.5	15	400	3
Mounting bracket	FX-QMS-G1-BMZI-DIV1	4052899446861	40x mounting bracket	9.5	20	17	400	4
Tiltable mounting bracket (moving 90°)	ADJUSTABLESLIMBRACKET	4052899600010	40x tiltable bracket	9.5	17	20	400	5

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim 6 mm height, 3 mm wings	FX-QMS-G1-TU15H6W3-300	4052899448889	1x profile (L3000 mm)	6	22	3000	40	1
End cap	FX-QMS-G1-EFGP-TU15H6W3	4052899449138	40x end cap	6	19	22	400	2
End cap with hole	FX-QMS-G1-EFGH-TU15H6W3	4052899999947	40x end cap	6	19	22	400	3

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim 12 mm height	FX-QMS-G1-TU16H12-300	4052899448964	1x profile (L3000 mm)	12	16	3000	20	1
End cap	FX-QMS-G1-EFGP-TU16H12LS	4052899449183	40x end cap	12	9.5	16	400	2
End cap with hole	FX-QMS-G1-EFGH-TU16H12LS	4052899999848	40x end cap	12	9.5	16	400	3
Mounting bracket	FX-QMS-G1-BMZI-DIV1	4052899446861	40x mounting bracket	9.5	20	17	400	4
Tiltable mounting bracket (moving 90°)	ADJUSTABLESLIMBRACKET	4052899600010	40x tiltable bracket	9.5	17	20	400	5

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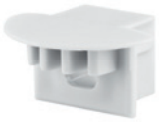
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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim 12 mm height, 3 mm wings	FX-QMS-G1-TU16H12W3-300	4052899448988	1x profile (L3000 mm)	12	22	3000	20	1
End cap	FX-QMS-G1-EFGP-TU16H12W3	4052899449817	40x end cap	12	19	22	400	2
End cap with hole	FX-QMS-G1-EFGH-TU16H12W3	4052899999886	40x end cap	12	19	22	400	3

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim adjustable light angle	FX-QMS-G1-TU16H12LS-300	4052899449046	1x profile (L3000 mm)	12	16	3000	20	1
End cap	FX-QMS-G1-EFGP-TU16H12LS	4052899449183	40x end cap	12	9.5	16	400	2
End cap with hole	FX-QMS-G1-EFGH-TU16H12LS	4052899999848	40x end cap	12	9.5	16	400	3
End cap for lens cover	FX-QMS-G1-ELGP-TU16H12LS	4052899449879	40x end cap	9	18	16	400	4
End cap with hole for lens cover	FX-QMS-G1-ELGH-TU16H12LS	4052899999961	40x end cap	9	18	16	400	5
Mounting bracket	FX-QMS-G1-BMZI-DIV1	4052899446861	40x mounting bracket	9.5	20	17	400	6
Tiltable mounting bracket (moving 90°)	ADJUSTABLESLIMBRACKET	4052899600010	40x tiltable bracket	9.5	17	20	400	7

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim round	FX-QMS-G1-TR19H16-300	4052899449008	1x profile (L3000 mm)	15.8	18.5	3000	20	1
End cap	FX-QMS-G1-EFGP-TR19H16	4052899999985	40x end cap	9	16	18	400	2
End cap with hole	FX-QMS-G1-EFGH-TR19H16	4052899999909	40x end cap	9	16	18	400	3
Mounting bracket	FX-QMS-G1-BMZI-DIV1	4052899446861	40x end cap	9.5	20	17	400	4
Pendant kit	FX-QMS-G1-TR19H16-PENDANTKIT	4052899600034	2x electricity end cap; 2x steel cable of 3 m; 2x conductive fastener	–	–	–	20	5

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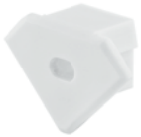

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim 45°	FX-QMS-G1-T45D19H19-300	4052899448667	1x profile (L3000 mm)	19	19	3000	4	1
End cap	FX-QMS-G1-EFGP-T45D19H19	4052899450028	40x end cap	10	17.5	26	400	2
End cap with hole	FX-QMS-G1-EFGH-T45D19H19	4052899999862	40x end cap	10	17.5	26	400	3
Mounting bracket	FX-QMS-G1-BMZI-T45D19H19	4052899446960	40x mounting bracket	9.5	20	20	400	4

Wide profile systems

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Wide 30°	FX-QMW-G1-TK30D46H27-300	4052899448827	1x profile (L3000 mm)[1]	26.7	45.6	3000	10	1
End cap left	FX-QMW-G1-EFGP-L-TK30D46H27	4052899450059	40x end cap	8	26.7	45.6	400	2
End cap right	FX-QMW-G1-EFGP-R-TK30D46H27	4052899449909	40x end cap	8	26.7	45.6	400	2
Clip	FX-QMW-G1-XCLPL1-DIV1	4052899446731	40x clip	6	6	9	400	3

[1] 14 clips are included with each profile

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Wide 8 mm height	FX-QMW-G1-TU26H8-300	4052899448643	1x profile (L3000 mm)	7.5	26	3000	20	1
End cap	FX-QMW-G1-ERGP-TU26H8	4052899450271	40x end cap	12	25	26	400	2
Spring	FX-QMW-G1-SMME-DIV1	4052899446830	40x spring	14	33	66	400	3
Mounting bracket for surface installation	FX-QMW-G1-BGPL-DIV1	4052899999800	40x mounting bracket	5	21	31	400	4
Mounting metal profile	FX-QMW-G1-P125C30-DIV1-300	4052899449060	1x mounting profile	28.5	66	3000	4	5
End cap for mounting metal profile	FX-QMW-G1-EFGP-PC30	4052899450165	40x end cap	8.5	28.5	30	400	6
Clip	FX-QMW-G1-XCLPL1-DIV1	4052899446731	40x clip	6	6	9	400	7
Tiltable mounting bracket (moving 90°)	ADJUSTABLEWIDEBRACKET	4052899600669	40x tiltable bracket	10	21	31	400	8

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Wide 25 mm height	FX-QMW-G1-TU26H25-300	4052899448803	1x profile (L3000 mm)	24.5	26	3000	20	1
End cap	FX-QMW-G1-EFGP-TU26H25	4052899450240	40x end cap	16.5	24.5	26	400	2
End cap for round cover	FX-QMW-G1-ERGP-DIV1	4052899999824	40x end cap	12	25	26	400	3
Spring	FX-QMW-G1-SMME-DIV1	4052899446830	40x spring	14	33	66	400	4
Mounting bracket for surface installation	FX-QMW-G1-BGPL-DIV1	4052899999800	40x mounting bracket	5	21	31	400	5
Mounting metal profile	FX-QMW-G1-P125C30-DIV1-300	4052899449060	1x mounting profile	28.5	66	3000	4	6
End cap for mounting metal profile	FX-QMW-G1-EFGP-PC30	4052899450165	40x end cap	8.5	28.5	30	400	7
Clip	FX-QMW-G1-XCLPL1-DIV1	4052899446731	40x clip	6	6	9	400	8
Tiltable mounting bracket (moving 90°)	ADJUSTABLEWIDEBRACKET	4052899600669	40x tiltable bracket	10	21	31	400	9

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Wide 25 mm height, 2 mm wings	FX-QMW-G1-TU26H25W2-300	4052899448841	1x profile (L3000 mm)	25	30	3000	20	1
End cap	FX-QMW-G1-EFGP-TU26H25W2	4052899450219	40x end cap	12	24.5	30	400	2
End cap for round cover	FX-QMW-G1-ERGP-DIV1	4052899999824	40x end cap	6	13	24	400	3
Mounting metal profile	FX-QMW-G1-P125C30-DIV1-300	4052899449060	1x mounting profile	28.5	66	3000	4	4
End cap for mounting metal profile	FX-QMW-G1-EFGP-PC30	4052899450165	40x end cap	8.5	28.5	30	400	5
Clip	FX-QMW-G1-XCLPL1-DIV1	4052899446731	40x clip	6	6	9	400	6

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Wide 25 mm height, 10 mm wings	FX-QMW-G1-TU26H25W10-300	4052899448773	1x profile (L3000 mm)	24	46	3000	4	1
End cap	FX-QMW-G1-EFGP-TU26H25W10	4052899450134	40x end cap	16.5	24.5	46	400	2
End cap for round cover	FX-QMW-G1-ERGP-DIV1	4052899999824	40x end cap	6	13	24	400	3
Spring	FX-QMW-G1-SRME-DIV1	4052899446786	40x spring	11	40	50	400	4

Covers

Covers for slim profile LF-LTS-2100

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Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim cover clear	LF-LTS-COVER-C	4008321790187	1x cover (2100 mm)	5	18	2100	40	1
Slim cover diffuse ShortPitch	LF-LTS-COVER-S	4008321790200	1x cover (2100 mm)	10	18	2100	40	2
Slim cover diffuse	LF-LTS-COVER-D	4008321979001	1x cover (3000 mm)	24	18	2100	40	3

Covers for slim profiles

1

2

3

Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Slim cover frosted	FX-QMS-G1-CFDB-300	4052899446991	1x cover (3000 mm)	4	11	3000	40	1
Slim cover clear	FX-QMS-G1-CFTL-300	4052899999749	1x cover (3000 mm)	4	11	3000	40	2
Slim lens cover	FX-QMS-G1-CLT-300	4052899447783	1x cover (3000 mm)	8	16	3000	40	3

Covers for wide profiles

1

2

3

Description	Product name	GTIN (EAN)	EAN10 content	h [mm]	b [mm]	l [mm]		No.
Wide flat cover frosted	FX-QMW-G1-CFDB-300	4052899447806	1x cover (3000 mm)	4	11	3000	40	1
Wide flat cover clear	FX-QMW-G1-CFTP-300	4052899999787	1x cover (3000 mm)	4	11	3000	40	2
Wide round cover frosted	FX-QMW-G1-CRD-300	4052899447035	1x cover (3000 mm)	20	24	3000	40	3

BackLED®

BackLED® S Plus G3

Product name	GTIN (EAN)	V	W CHAIN	W MODULE	K		lm CHAIN	lm MODULE			Modules/ Chain		
BA-S-PL 830 G3	4052899504592	12	30	0.33	3000	White	3330	37	155	3	90	A+	5
BA-S-PL 840 G3	4052899504615	12	30	0.33	4000	White	3510	39	155	3	90	A+	5
BA-S-PL 865 G3	4052899504639	12	30	0.33	6500	White	3510	39	155	3	90	A+	5

BackLED® M Plus HO G1

Product name	GTIN (EAN)	V	W CHAIN	W MODULE	K		lm CHAIN	lm MODULE			Modules/ Chain		
BA-M-PL 830 HO	4052899504707	12	34	0.85	3000	White	3440	86	155	3	40	B	5
BA-M-PL 840 HO	4052899504721	12	34	0.85	4000	White	3600	90	155	3	40	B	5
BA-M-PL 865 HO	4052899504745	12	34	0.85	6500	White	3600	90	155	3	40	B	5

BackLED® L Plus G3

Product name	GTIN (EAN)	V	W CHAIN	W MODULE	K		lm CHAIN	lm MODULE			Modules/ Chain		
BA-L-PL 830 G3	4052899990463	12	46	1.31	3000	White	5400	150	155	3	36	A+	5
BA-L-PL 840 G3	4052899990449	12	46	1.31	4000	White	5580	155	155	3	36	A+	5
BA-L-PL 865 G3	4052899990425	12	46	1.31	6500	White	5400	150	155	3	36	A+	5

BackLED® XL Plus G3

Product name	GTIN (EAN)	V	W CHAIN	W MODULE	K		lm CHAIN	lm MODULE			Modules/ Chain		
BA-XL-PL 830 G3	4052899990524	24	71	2.2	3000	White	9600	300	155	7	32	A+	5
BA-XL-PL 840 G3	4052899990500	24	71	2.2	4000	White	9760	305	155	7	32	A+	5
BA-XL-PL 865 G3	4052899990487	24	71	2.2	6500	White	9600	300	155	7	32	A+	5

BackLED® RGBW Plus G2

Product name	GTIN (EAN)	V	W CHAIN	W MODULE	λ		lm CHAIN	lm MODULE			Modules/ Chain		
BA-RGBW-PL G2	4052899452930	24	55.20	3.7	625 / 522	RGB, white	2310	154	150	8	15	B	5

BackLED® TW Plus G2

Product name	GTIN (EAN)	V	W CHAIN	W MODULE	K		lm CHAIN	lm MODULE			Modules/ Chain		
BA-TW-PL 827-865 G2	4052899452954	24	96	4.8	2700	White	9200	460	150	12	20	A+	5

1

2

3

Mounting profiles for BackLED®

Product name	GTIN (EAN)	h [mm]	b [mm]	l [mm]		No.
BA-SM-MP	4052899264540	7	14.5	2000	24	1
BA-MP	4052899145863	8	20	2000	24	2
BX-MP	4008321981110	16	38	2365	24	3

OPTOTRONIC® LED drivers

Constant-voltage LED drivers – Indoor
24 V with DALI DT8 and DALI DT6

Product features
- Dimmable via Touch DIM®
- Dimming range: 0.1…100 %
- Line frequency: 0 Hz 50 Hz 60 Hz
- LED driver whose output power can be shared arbitrarily among the 4 channels

Product benefits
- Intelligent power matching thanks to Smart Power Supply
- Slim form factor for mounting on the cove or in linear luminaires
- Minimized flicker thanks to high PWM frequency
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Available as Tunable White version (DALI Device Type 8)
- DALI message detection “LED module failure”

Areas of application
- Cove lighting, wall washer, corridor, handrail
- Suitable for use in luminaires of protection class I and II

Equipment/Accessories
- Suitable for 24 V LED modules

24 V with DALI DT8

Product name	GTIN (EAN)	Interface for dimming	Hz	W	h [mm]	b [mm]	l [mm]	IP	
OTi DALI 50/220-240/24 TW	4052899490772	DALI	0 / 50 / 60	50	22	32	346	IP20	20
OTi DALI 80/220-240/24 TW	4052899490758	DALI	0 / 50 / 60	80	22	32	346	IP20	20
OTi DALI 160/220-240/24 TW	4052899986312	DALI	0 / 50 / 60	160	35	50	300	IP20	20

24 V with DALI DT6

Product name	GTIN (EAN)	Interface for dimming	Hz	W	h [mm]	b [mm]	l [mm]	IP	
OTi DALI 50/220-240/24 1-4 CH	4052899452916	DALI-2	0 / 50 / 60	50	22	32	346	IP20	20
OTi DALI 80/220-240/24 1-4 CH	4052899452893	DALI-2	0 / 50 / 60	80	35	32	346	IP20	20
OTi DALI 160/220-240/24 1-2 CH	4052899986305	DALI-2	0 / 50 / 60	160	35	22	300	IP20	20

Constant-voltage LED drivers – Indoor
24 V

Product benefits
- Power range of up to 240 W
- High efficiency
- Constant luminous flux for very low and high temperatures due to Smart Power Supply

Areas of application
- Suitable for indoor use
- Suitable for use in tight, flat luminaires or installation in suspended ceilings

Product name	GTIN (EAN)	Interface for dimming	Hz	W	h [mm]	b [mm]	l [mm]	IP	
OT 20/220-240/24	4050300618111	–	50 / 60	20	35	50	109	IP20	20
OT 50/220-240/24	4052899905566	–	0 / 50 / 60	50	16	40	242	IP20	20
OT 75/220-240/24	4050300817477	–	50 / 60	75	44	47	220	IP20	10
OT 6/200-240/24 CE	4008321113269	–	50 / 60	6	22	50	51	IP65	20

Constant-voltage LED drivers – Outdoor
24 V with 1...10 V

Product features
- Dimmable via fully isolated 1…10 V interface
- Driver with output power range of up to 240 W

Product benefits
- Versatile 1…10 V window driver up to 240 W due to flexible output characteristic
- High efficiency
- IP rating: IP67
- High surge protection: up to 3 kV (L-N)/6 kV (L/N-PE)

Areas of application
- Suitable for use in tight, flat luminaires or installation in suspended ceilings
- Suitable for indoor and outdoor SELV installations

Product name	GTIN (EAN)	Interface for dimming	Hz	W	h [mm]	b [mm]	l [mm]	IP	
OT 20/220-240/24 DIM P	4052899545809	1...10 V	0-60	20	25	43	178	IP66	20
OT 40/220-240/24 DIM P	4052899545823	1...10 V	0-60	40	26	43	208	IP66	20
OT 60/220-240/24 DIM P	4052899545847	1...10 V	0-60	60	26	43	208	IP66	20
OT 100/220-240/24 DIM P	4052899545861	1...10 V	0-60	100	34	50	240	IP66	10
OT 130/220-240/24 DIM P	4052899545885	1...10 V	0-60	130	37	63	220	IP66	10
OT 250/220-240/24 DIM P	4052899545908	1...10 V	0-60	250	40	68	265	IP66	10

Constant-voltage LED drivers – Outdoor
24 V

Product benefits
- Versatile scope of application due to output power range of up to 240 W
- High efficiency
- Constant luminous flux for very low and high temperatures due to Smart Power Supply

Areas of application
- Suitable for indoor and outdoor SELV installations
- Outdoor applications only in suitable installations
- Suitable for use in tight, flat luminaires or installation in suspended ceilings

Product name	GTIN (EAN)	Interface for dimming	Hz	W	h [mm]	b [mm]	l [mm]	IP	
OT 20/220-240/24 P	4052899545922	–	0-60	20	25	43	178	IP66	20
OT 40/220-240/24 P	4052899545946	–	0-60	40	26	43	208	IP66	20
OT 60/220-240/24 P	4052899545960	–	0-60	60	26	43	208	IP66	20
OT 100/220-240/24 P	4052899545984	–	0-60	100	34	50	240	IP66	10
OT 130/220-240/24 P	4052899546004	–	0-60	130	37	63	220	IP66	10
OT 250/220-240/24 P	4052899546028	–	0-60	250	40	68	265	IP66	10

Constant-voltage LED drivers – Outdoor
12 V

Product benefits
- Versatile scope of application due to output power range of up to 120 W
- High efficiency
- IP rating: up to IP67
- High surge protection: up to 3 kV (L-N)/6 kV (L/N-PE)

Areas of application
- Suitable for indoor and outdoor installations
- Ideal for mounting in very tight spaces

Product name	GTIN (EAN)	Interface for dimming	Hz	W	h [mm]	b [mm]	l [mm]	IP	
OT 15/220…240/12 P	4052899905559	–	50 / 60	15	22	20	237	IP66	50
OT 30/220…240/12 P	4052899905542	–	50 / 60	30	22	40	220	IP66	30
OT 60/220…240/12 P	4008321790811	–	50 / 60	60	34	50	180	IP67	10
OT 120/220…240/12 P	4008321790835	–	50 / 60	120	39	60	220	IP67	10

OPTOTRONIC® dimmers

Constant-voltage dimmer with 1...10 V
10.5...24 V

Product features
- Intelligent analog dimmer (1…10 V) with constant output voltage
- Dimming range: 0…100 %
- Cable clamp housing for independent mounting
- Device also fits special applications where dimming below 1 % is required

Areas of application
- Suitable for indoor SELV installations

Product benefits
- 1...10 V control port basic isolated

Product name	GTIN (EAN)	W	h [mm]	b [mm]	l [mm]	IP	
OT DIM	4050300943459	120	20	42	172	IP20	20

Constant-voltage dimmer with DALI
10.5...24 V

Product features
- Intelligent digital dimmer (DALI) with constant output voltage
- Dimming range: 0…100 %
- Device also fits special applications where dimming below 1 % is required

Areas of application
- Suitable for indoor installations
- Separate installation (ceiling mounting)

Product benefits
- Very precise dimming thanks to digital light control

Product name	GTIN (EAN)	W	h [mm]	b [mm]	l [mm]	IP	
OTi DALI DIM	4008321061195	120	20	42	172	IP20	20

Constant-voltage dimmer with DMX
10.5...24 V

Product features
- Intelligent DMX dimmer with multi-channel topology and single control
- Automatic or manual addressing
- Device also fits special applications where dimming below 1 % is required

Areas of application
- Suitable for indoor installations
- Shops and hospitality: retail, hotels, restaurants
- Museums
- Residential buildings

Product benefits
- 4-channel DMX dimmer for RGB and RGBW LED modules
- Independent housing for ceiling installation
- High PWM frequency to optimize video recording

Product name	GTIN (EAN)	W	h [mm]	b [mm]	l [mm]	IP	
OT DMX RGBW DIM	4052899557949	182	20	42	172	IP20	20

Constant-voltage dimmer with Bluetooth®
12...24 V

Product features
- Wireless 4-channel dimmer, with an output voltage of 12 V and 24 V
- Control of LED loads of up to 240 W
- Wireless module based on Bluetooth® Low Energy

Areas of application
- Suitable for indoor installations
- Shops and hospitality: retail, hotels, restaurants
- Museums
- Residential buildings

Product benefits
- Control of white, Tunable White, RGB and RGBW LED modules
- Independent housing for ceiling installation
- Support of systems based on CASAMBI lighting control solutions
- Minimal installation effort
- Dry contacts for connection to any commercial pushbutton

Product name	GTIN (EAN)	W	h [mm]	b [mm]	l [mm]	IP	
OT BLE DIM	4052899557833	240	20	42	172	IP20	20

All under control with OSRAM light management systems (LMS)

The increasing demand for lighting solutions for more and more energy saving, flexibility and individual customization options has dramatically changed lighting requirements. Having the right light brings a greater sense of well-being, for example, and boosts motivation. Light management systems from OSRAM enable you to implement a diverse range of dynamic lighting solutions in a simple and efficient way – from simple dimming to daylight simulation.

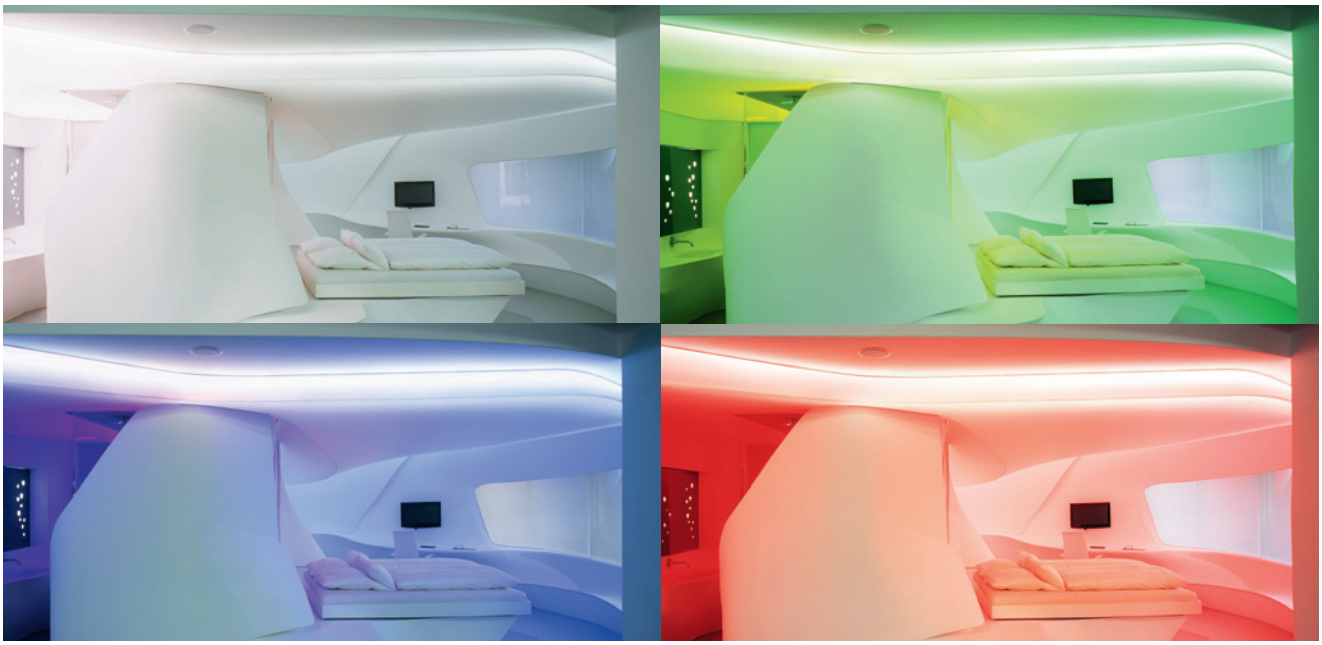
OSRAM provides individual light management systems (LMS) for many different applications:

- Luminaire-integrated solutions for autonomous luminaires
- Room controllers for fast and easy installation in multiple rooms
- Flexible floor controllers for connected light in medium-sized installations
- Powerful building light management system with data analytics for big installations

Product highlights

MCU for small-sized projects

- **DALI MCU**
  Simple manual dimming solution to control up to 25 luminaires with integrated DALI supply



DALI PROFESSIONAL for medium-sized projects
- App interface/configurator
- Tunable White control
- Human Centric Lighting (HCL) functions
- Color control functions
- Controller interconnectivity

Easy dynamic control of LINEARlight FLEX® for medium-sized projects
- Wireless light control for 12 V and 24 V LED modules
- Bluetooth® Low Energy (BLE) app by CASAMBI
- Up to 240 W control in a four-channel device: White, Tunable White, RGB, RGBW

MCU

Simple manual dimming solutions

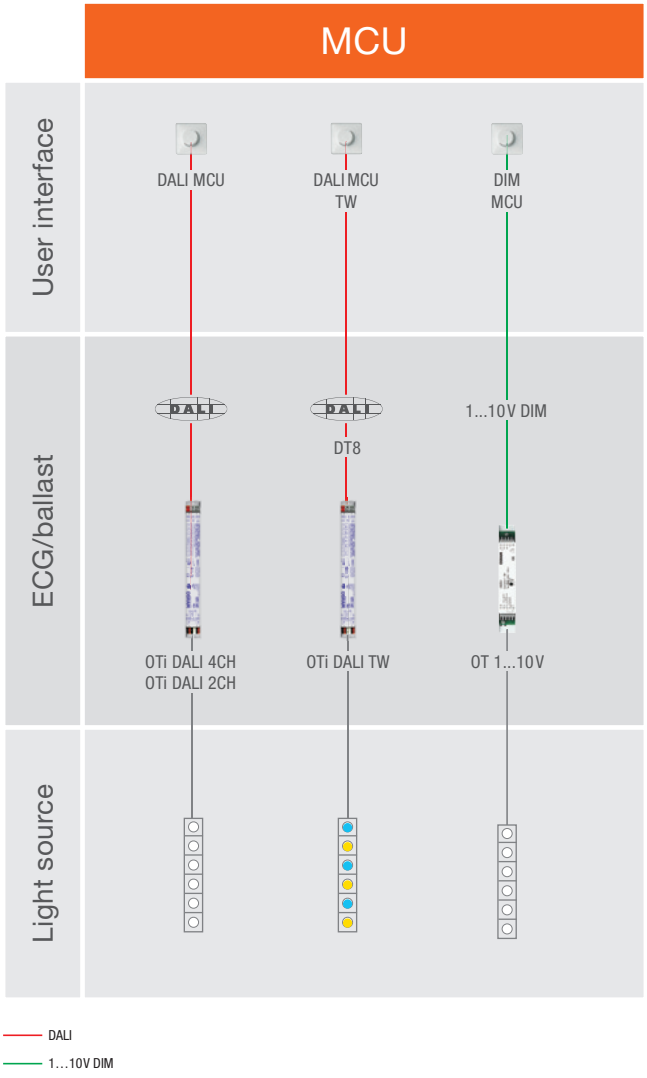
Installed in a flush-mounted box and connected to the AC power supply, a DALI MCU can control up to 25 luminaires with the integrated DALI supply. Parallel connection enables the number of luminaires per group to be increased to 100 and up to four control points can be provided.

DALI MCUs connected to one another synchronize automatically; in other words, the control point can be changed at any time without the risk of side effects such as sudden changes in brightness. The digital rotary dimmer DALI MCU has tactile detents, so brightness can be fine-tuned in individual steps as required.

In addition, the DALI MCU TW allows a manual control of the color temperature if connected to Tunable White luminaires equipped with LED drivers compliant with DALI Device Type 8 (DT8).

The white cover can be removed from the DALI MCU, DALI MCU TW and from the DIM MCU and replaced with commercially available covers.

Applications
- Single luminaires
- Conference rooms
- Partitioned rooms
- Living rooms



OT BLE DIM plus CASAMBI app

All-in-one dynamic Bluetooth® light management system

Wireless light control for 12 V and 24 V LED modules

Our solution based on the OT Bluetooth® Low Energy (OT BLE DIM) minimizes the installation effort with a wireless system. It is intuitive to set up, along with the powerful control base from the app.

The CASAMBI solution is based on Bluetooth® Low Energy, the state-of-the-art wireless technology and the only low-power wireless technology in all modern smartphones, tablets and even smart watches, making it the only mainstream and future-proof low-power radio technology in the world.

Key features

- Bluetooth® Low Energy (BLE) app by CASAMBI
- Light management of constant-voltage LED systems, including all LINEARlight FLEX® and backlighting modules as well as OPTOTRONIC® LED drivers from OSRAM
- Intuitive plug-and-play solution; easy setup and control via app, no additional professional knowledge for commissioning needed
- Dimming, scene storage, sequences, daylight rhythm
- Multicolor control (RGBW, RGB, Tunable White and Tunable Warm White)
- Time-programmable events
- Reliable mesh network communication based on Bluetooth® Low Energy
- Customizable app elements (such as buttons)
- Autonomous system, constant cloud synchronization available

www.casambi.com

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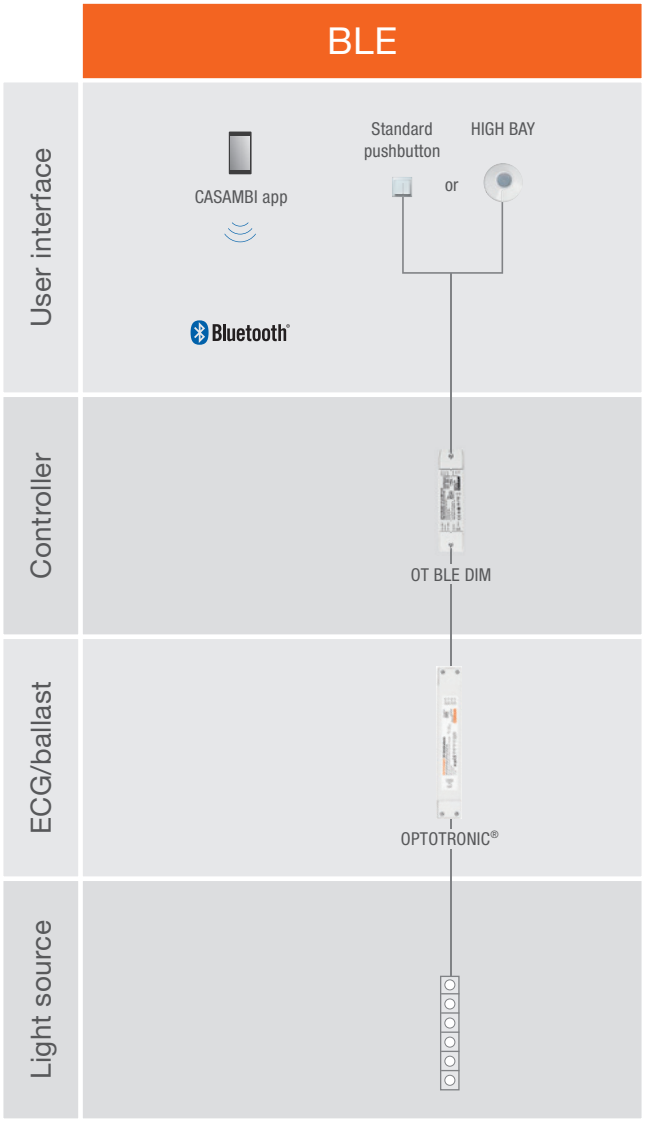


OPTOTRONIC®

OT Bluetooth® Low Energy (OT BLE DIM)

LINEARlight FLEX® Power

DALI PROFESSIONAL

A flexible light management system for large rooms and multiroom solutions

The DALI PROFESSIONAL system with its 4 DALI lines (256 DALI ECGs) is suitable for complex applications in room and floor control, daylight-dependent regulation, RGB control, TW control and dynamic lighting. With LAN interconnectivity, you can connect up to 4 controllers, so in total 1024 DALI ECGs can be controlled.

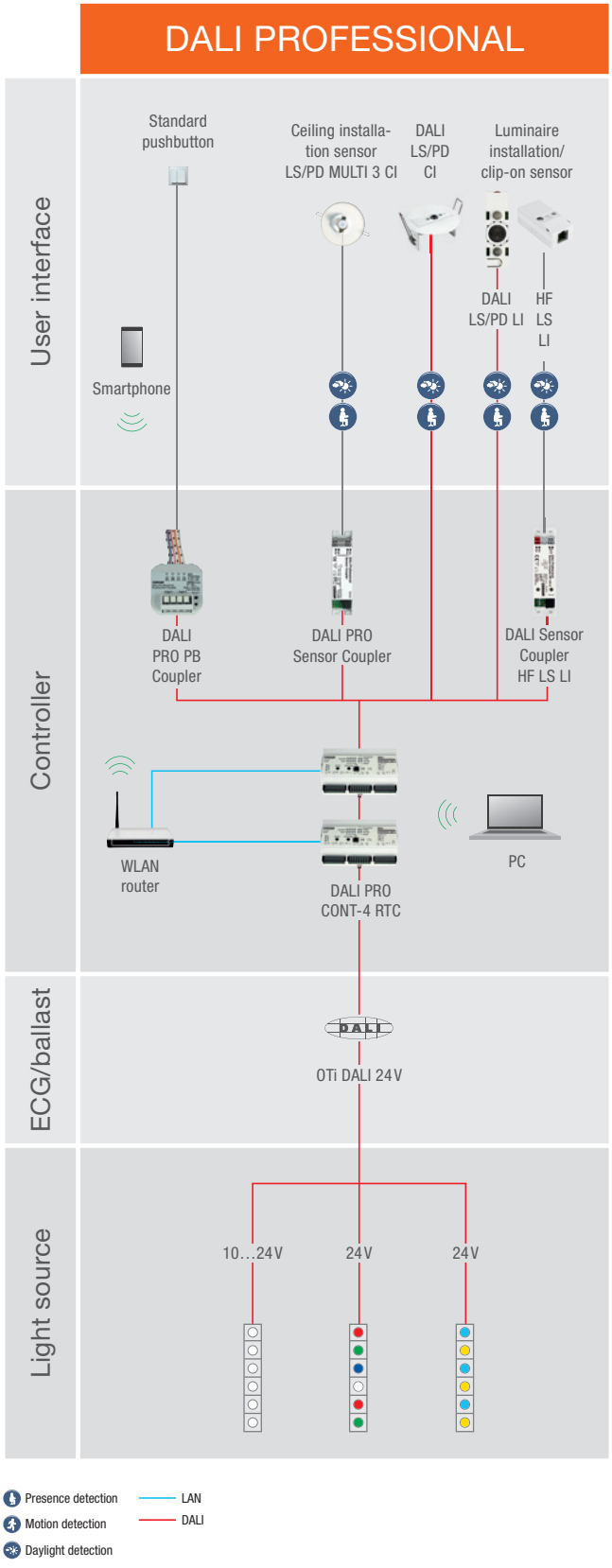
Configuration and setup are easy to achieve with a Windows-based PC software and a USB or LAN port. Plug-and-play settings are preconfigured for instant use without any setup.

The system is operated with standard pushbuttons, which are connected to a DALI PRO Pushbutton Coupler. Furthermore, the DALI PRO Sensor Coupler integrates all light and occupancy sensors from the LS/PD MULTI 3 family. In total, a maximum of 50 couplers can be attached. A smartphone app is available as an attractive and functional input device. Using the DALI HIGHBAY ADAPTER and HIGH BAY sensor, daylight-dependent lighting and motion control is possible up to an installation height of 13 m.

Applications

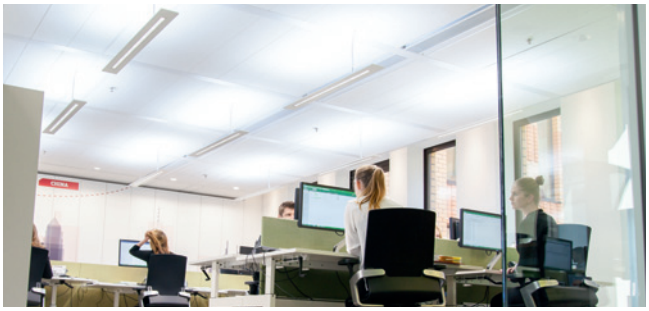
- Offices
- Retail outlets
- Storage areas
- Production and assembly facilities

The latest software can be found here:
www.osram.com/ds-tools



New: RGB sequencer

- Freely configurable color sequences for dynamic light with adjustable stopping times and cross-fading times
- Up to 100 sequences are programmable
- Up to 50 color scenes per sequence
- Easy color selection via color wheel



New: Time-of-day-dependent color temperature adjustment (Human Centric Lighting)

- Profiles with time-of-day-dependent light value and color temperature adjustment are freely configurable
- Integrated astro function with adjusted sunrise and sundown times for any time of the year
- Can be interrupted at any time (starting triggers light and color temperature value according to the current time of day)
- Combinable with timer function and presence detector
- Up to 50 different scenes per profile
- Up to 100 profiles per project

New: App features at a glance

- Comfortable switching and dimming of illumination with status display
- Clearly arranged through grouping of rooms
- Access restriction with individual clearance of each control element per user
- Activate/override daylight control
- Selection of static lighting scenes and dynamic sequences
- Control element for colored light (RGB)
- Control element for color temperature adjustment (TW)

Download on the App Store

GET IT ON Google Play

OSRAM

DALI PRO Control

Light management systems

DALI MCU – rotary dimmer with integrated DALI power supply

Product name	GTIN (EAN)	V	CONTROL	No. of OUTPUTS	W SYSTEM	IP		T_a	COLOR	l [mm]	b [mm]	h [mm]	l_1 [mm]	
DALI MCU	4008321189721	230	DALI	1	2	IP20	Integrated in flush device box	0…+50	White	80	80	50	70	15

DALI MCU Tunable White – rotary dimmer with integrated DALI power supply

Product name	GTIN (EAN)	V	CONTROL	No. of OUTPUTS	IP		T_a	COLOR	l [mm]	b [mm]	h [mm]	
DALI MCU TW	4052899465916	230	DALI	1	IP20	Integrated in flush device box	0…+50	White	80	80	50	15

DIM MCU – rotary dimmer with 1...10 V interface

Product name	GTIN (EAN)	V	CONTROL	No. of OUTPUTS	Max Load [A]	IP		T_a	COLOR	l [mm]	b [mm]	h [mm]	l_1 [mm]	
DIM MCU	4050300347424	230	1...10	1	6	IP20	Integrated in flush device box	0…+50	Cream white	80	80	40	70	100

HIGH BAY – stand-alone motion sensor with switching contact

Product name	GTIN (EAN)	V	Hz	h m	[m]		Max. Load[A]	W SYSTEM	IP		COLOR	d [mm]	h [mm]	
HIGH BAY	4008321410078	120...277	50...60	13	18	100	5	0.60	IP20	On-top ceiling mounting	White	116	40	20

VISION – stand-alone motion sensor with switching contact

Product name	GTIN (EAN)	V	Hz	h m	[m]		Max. Load[A]	W SYSTEM	IP		COLOR	d [mm]	h [mm]	
VISION	4008321957047	120...277	50...60	4.5	21	140	5	0.60	IP20	On-top ceiling mounting	White	116	40	20

DUO – stand-alone motion/daylight sensor with switching contact

Product name	GTIN (EAN)	V	Hz	h m	[m]		Lx	Max. Load[A]	IP		COLOR	l [mm]	b [mm]	h [mm]	
DUO	4008321496355	220...240	50...60	5	12	110	50...500	5	IP20	Luminaire integration / On-top ceiling mounting / Clip-on lamp	White	58	71	47	20

DIM MULTI – stand-alone motion/daylight sensor with 1...10 V dimming interface

Product name	GTIN (EAN)	V	Hz	CONTROL	h m	[m]		Max. Load[A]	IP		COLOR	l [mm]	b [mm]	h [mm]	
DIM MULTI	4050300554471	220...240	50...60	1...10	5	12	110	5	IP20	Luminaire integration / On-top ceiling mounting / Clip-on lamp	White	58	71	42	20

DIM PICO – stand-alone daylight sensor with 1...10 V dimming interface

Product name	GTIN (EAN)	CONTROL	h m		IP		COLOR	l [mm]	b [mm]	h [mm]	
DIM PICO	4050300554457	1...10	4	50	IP20	Luminaire integration / Clip-on lamp	White	21	21	31	20

DIM MICO – stand-alone daylight sensor with 1...10 V dimming interface

Product name	GTIN (EAN)	CONTROL	h m		Lx	IP		COLOR	l [mm]	b [mm]	h [mm]	
DIM MICO	4008321586056	1...10	8	80	20...800	IP20	Luminaire integration / Clip-on lamp	Gray	59	28	40	20

DALI LS/PD LI – light and motion sensor for DALI light management systems

Product name	GTIN (EAN)	h m	[m]		Lx	IP		T_a	COLOR	l [mm]	b [mm]	h [mm]	
DALI LS/PD LI	4052899043954	5	6	80	20...800	IP20	Luminaire integration	0...+50	Gray	48	15	17	25

DALI LS/PD CI – light and motion sensor for DALI light management systems

Product name	GTIN (EAN)	h m	[m]		Lx	IP		T_a	h [mm]	d [mm]	
DALI LS/PD CI	4052899930292	5	6	40...90	20...800	IP20	Ceiling integration	0...+50	55	80	10

DALI HIGHBAY ADAPTER – light sensor for DALI light management systems

Product name	GTIN (EAN)	CONTROL	h m	Lx	IP		T_a	l [mm]	b [mm]	h [mm]	
DALI HIGHBAY ADAPTER	4008321774132	DALI	13	20...800	IP20	On-top ceiling mounting	0...+50	139	118	37	20

DALI PRO Sensor Coupler – DALI coupler for LS/PD MULTI 3 sensors

Product name	GTIN (EAN)	CONTROL	No. of OUTPUTS	IP		T_a	l [mm]	b [mm]	h [mm]	l_1 [mm]	
DALI PRO Sensor Coupler	4008321379269	DALI	1	IP20	Luminaire integration / Ceiling integration	0...+50	118	30	21	110	25

LS/PD MULTI 3 CI – miniaturized light and motion sensor

Product name	GTIN (EAN)	h m	[m]		Lx	IP		Ta	COLOR	h [mm]	d [mm]	
LS/PD MULTI 3 CI	4008321916648	4	6	80	20...600	IP20	On-top ceiling mounting / Ceiling integration	0...+50	White	25	50	10

DALI Sensor Coupler HF LS LI – DALI coupler for HF LS LI sensor

Product name	GTIN (EAN)	CONTROL	No. of OUTPUTS	IP		Ta	l [mm]	b [mm]	h [mm]	h [mm]	
DALI Sensor Coupler HF LS LI	4052899141728	DALI	1	IP20	Luminaire integration / Ceiling integration	0...+50	118	30	21	110	25

HF LS LI – miniaturized microwave motion detector with light sensor

Product name	GTIN (EAN)	h m		Lx	IP		Ta	COLOR	l [mm]	b [mm]	h [mm]	
HF LS LI	4052899921481	8	25...80	20...800	IP20	Luminaire attachment / Luminaire integration	-20...+50	White	56	28	21	25

DALI PRO PB Coupler – 4-fold pushbutton interface for DALI light management systems

Product name	GTIN (EAN)	CONTROL	No. of OUTPUTS	IP		Ta	l [mm]	b [mm]	h [mm]	
DALI PRO PB Coupler	4008321496461	DALI	1	IP20	Integrated in flush device box	0...+50	42	42	20	20

Appendix

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Our production process: More flexibility for individual lighting solutions

LINEARlight FLEX® LED strips are the best solution for combining a high level of design freedom with innovative and reliable products to create unique lighting effects.

Customer satisfaction is always our top priority: Therefore, OSRAM continously improves its design, operation and quality assurance processes to achieve the best performance of all products and services.

Our reel-to-reel production process with fully automated controls ensures the top quality of flexible LED strips and allows customized products.

Maximum flexibility in length is guaranteed: Every LED strip can be cut to the desired length. Cutting lines are well indicated on the strip.

The versatility of our product portfolio is further increased by high CRIs, a wide range of color temperatures and different lumen outputs.

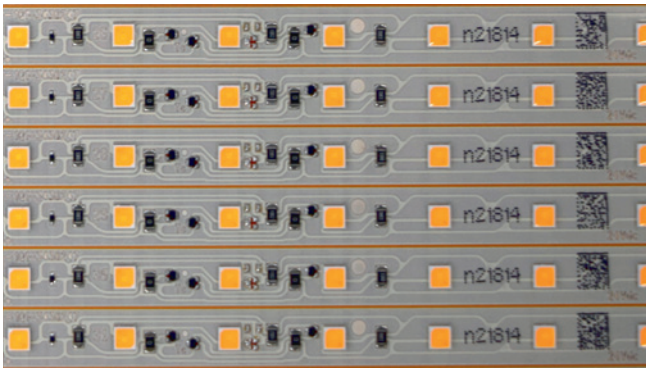
LINEARlight FLEX® LED strips with IP67 protection are also suitable for outdoor use, for instance, to implement attractive façade lighting or to easily integrate the light into architecture.

Reel-to-reel process for safe and reliable flexible LED strips

Our well-proven reel-to-reel process enables the series production of the LED strips, starting from the substrate and ending with the complete reel, with an assembly capacity of over 5 million components per day and resulting in a total of 6,800 km of LED strip lighting.

Thanks to the fully automatic assembly of the LEDs and electronic components, this process is extremely reliable and ensures maximum mechanical stability of the LEDs and highest flexibility in cutting the strips to the desired length.

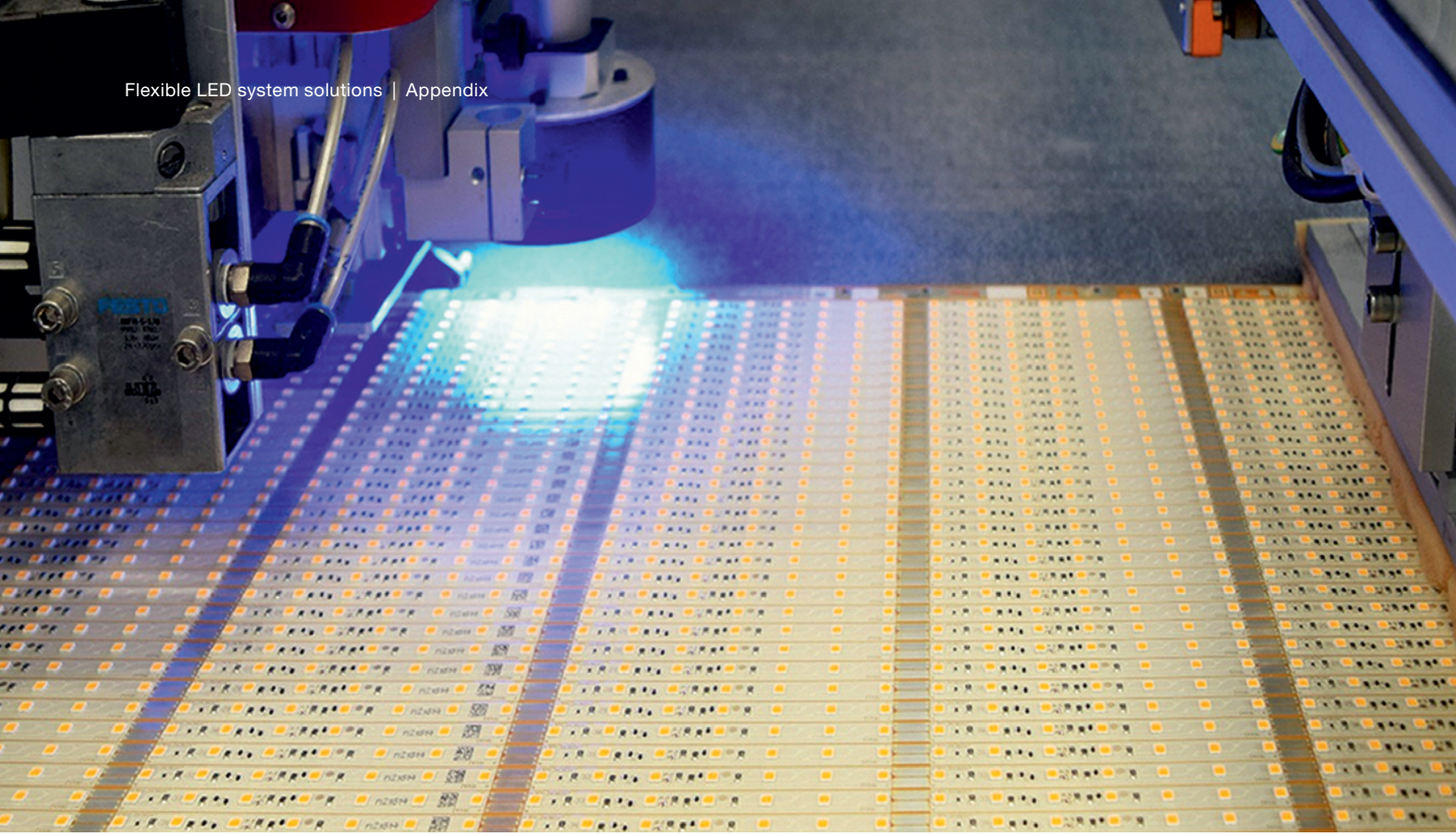
During the process, all LED strips are equipped with a very thin, yet powerful self-adhesive tape on the back, which ensures easy and quick installation on smooth surfaces.



The manufacturing area is completely protected against electrostatic discharge (ESD) to prevent possible damages of electronic components. Thus, we ensure that customers receive LED strips that will achieve the declared lifetime.

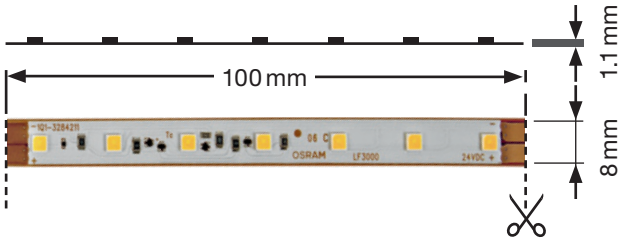
Additional protection against ESD is also installed in the LED strip to allow for safe handling and installation by electricians.

In order to avoid differences of important performance factors, such as luminous flux and color consistency over time and production batches, the manufacturing process is continuously monitored, including air humidity and temperature. Moreover, all components are verified and tracked through barcode scanning.



The components: State-of-the art LED technology and high-quality materials

LINEARlight FLEX® are manufactured in Italy with a selection of high-quality components. However, the use of premium components is not enough to ensure optimally assembled products: The manufacturing process is also crucial to deliver excellence. Therefore, we use all our experience and great care every day in the selection of components, testing and electronics production. All our LED strips undergo fully automatic electrical and optical testing.



Smallest unit of LINEARlight FLEX® Power LF1200

FPC: Flexible Printed Circuit

The layout of the flexible substrate of the LINEARlight FLEX® LED strips is designed to ensure high robustness during the bending of the module and the best power dissipation of each electronic component on board.

Our FPC guarantees complete flux uniformity along the entire LED strip in all declared operating conditions, avoiding voltage drops and a decrease in luminous flux. In addition, it ensures a continuous insulation on the bottom side, preventing any electrical risk.

LED: Light-Emitting Diode

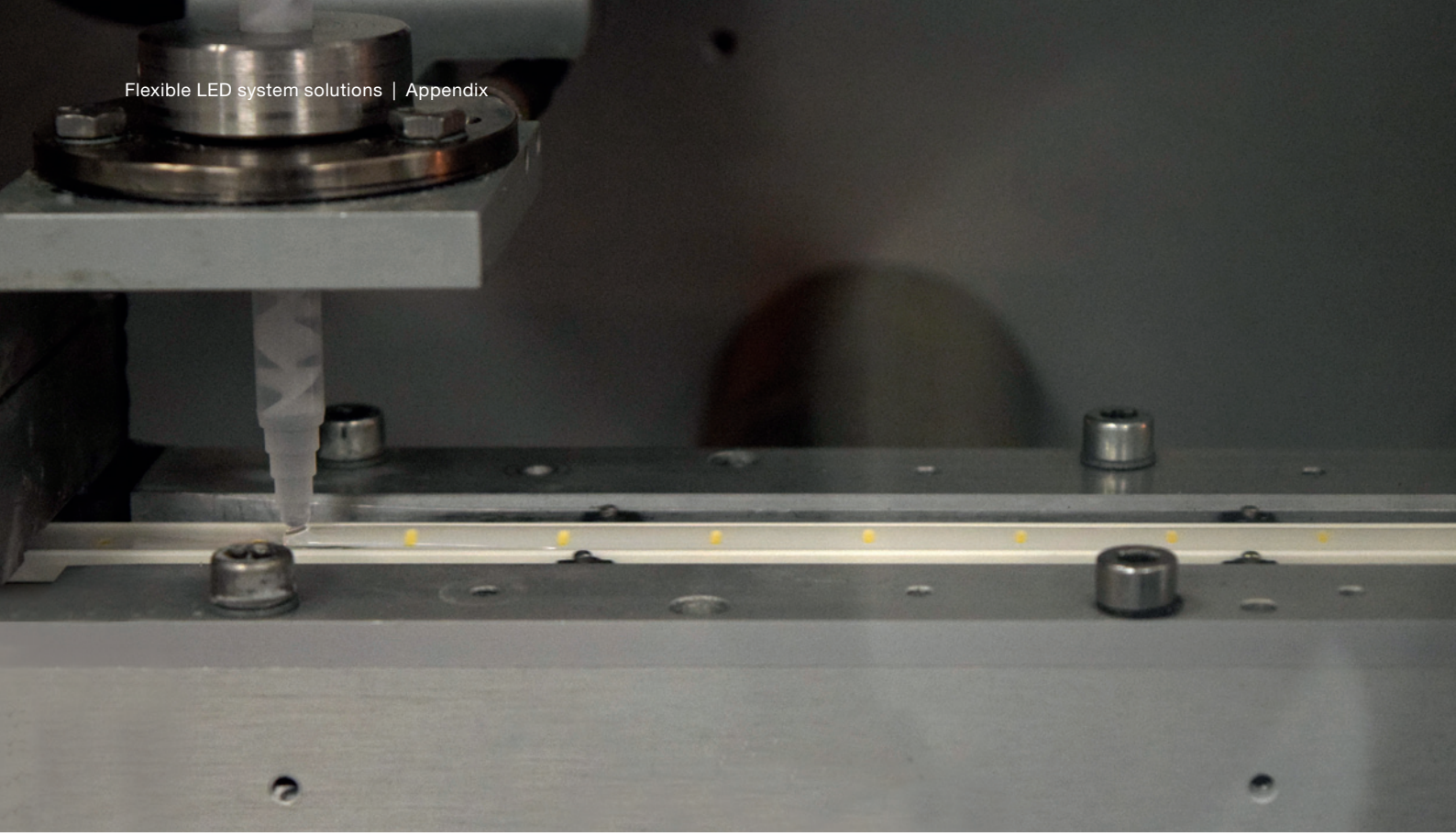
Our LEDs provide a wide range of CCTs, from 2,000 K to 6,500 K, with an accurate single color bin selection within a maximum of 3 MacAdam steps.

All LEDs undergo full optical control and are assembled with a specific algorithm to ensure excellent color consistency between different reels over time.

The LED soldering process is crucial for lifetime and performance: We use a highly reliable soldering paste (according to J-STD-001), optimized by state-of-the-art technologies, such as IR monitoring and X-ray inspection analysis systems, which are based on our 30 years of experience.

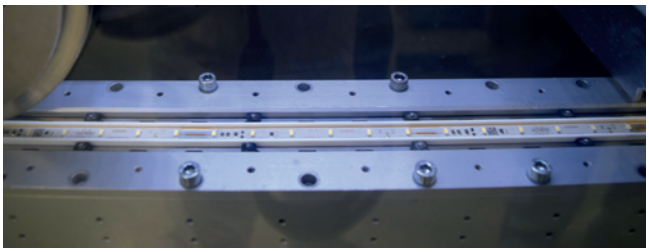
Constant-current regulator

Flux uniformity and color consistency along the entire LED strip are provided by the LED current regulators installed in each single cuttable unit of the strip.
The constant-current regulators also prevent the performance degradation of the LEDs due to the variation of power supply voltage or ambient temperature.



LINEARlight FLEX® Protect: IP67 protection for complete design freedom

LINEARlight FLEX® IP67 LED strips are suitable for outdoor use and resistant to severe weather conditions thanks to high-quality silicone protection against dust, water and UV rays.



Sealing technology for best-protected LED strips
LINEARlight FLEX® IP67 LED strips are manufactured in “clean rooms”, specific working environments with purified air, to ensure maximum reliability and safety during the sealing process.

The automatic potting process is done in two steps: First, white silicone is used to cover the electronic components and improve light reflection. Second, ultra-clear transparent silicone is used to minimize the light losses.

All strips are automatically lit up in line, tested and laser-marked for a human-error-free handling of the finished goods.

Silicone sealing, the right choice

The silicone used in combination with our unique sealing process enables easy installation of the LED strip at a lower temperature (more flexible), is UV-resistant, mechanically stable over temperature (no cracks) and remains crystal clear, avoiding the annoying yellowing effect present in other materials such as PVC, polyurethane, and even extruded silicone.

Our high-performance silicone makes long-lasting, fully reliable LED strips, which easily pass the needle flame test (IEC 62031), do not melt and do not release polluting gases. Furthermore, their chemical characteristics are not affected by high temperature or humidity.

Difference between an OSRAM LINEARlight FLEX® DIFFUSE and another LED strip with evident yellowing effect

IP67 protection for outdoor applications

IP is an acronym for “Ingress Protection”. The IP rating indicates the type of protection the LED strips provide against solid objects, such as dust and sand, and liquids. IP67 means that the LED strip is completely protected against the ingress of dust and water jets. It can therefore be used outside in any kind of weather. OSRAM IP67 LED strips are protected with a special silicone encapsulation, which ensures the best performance in outdoor applications, such as façades.

Heat management: Key for maximum performance

Optimal heat management is essential for the reliable and long-term operation of LED strips.

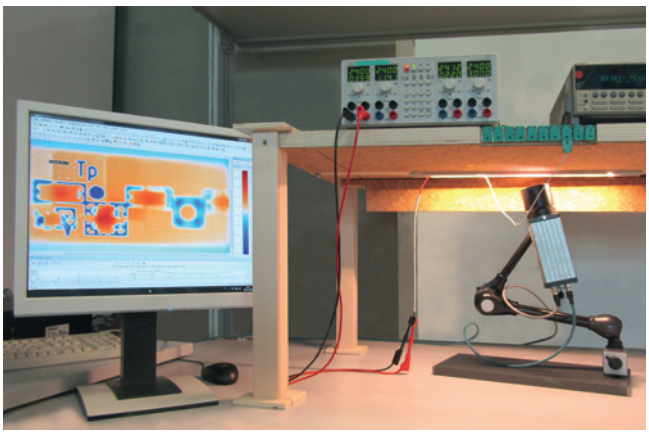
In a microscopic place of its body called “junction”, the LED converts electricity into light. In addition, this process also generates heat, which continuously increases the temperature of the LED if not properly dissipated.

All performance parameters of the LED, such as luminous flux and lifetime, are strongly affected by the temperature of that “junction”, which is called T_j: If T_j increases, the luminous flux and lifetime will decrease.

As T_j is inside the LED chip, it is obviously not directly measurable. With years of experience and the sophisticated equipment of our laboratories, OSRAM engineers correlate the T_j with another point on the LED strip, the T_c point, which can easily be measured. We provide all technical and photometric data measured in operation when T_c reaches a specific value stated in the product datasheet. This value is called the performance temperature T_p.

To further ease the use of the LED strip, we also provide indications of expected T_p values at different ambient temperatures T_a for specific typical installations (LED strip + profile + cover in surface mounting or concealed).

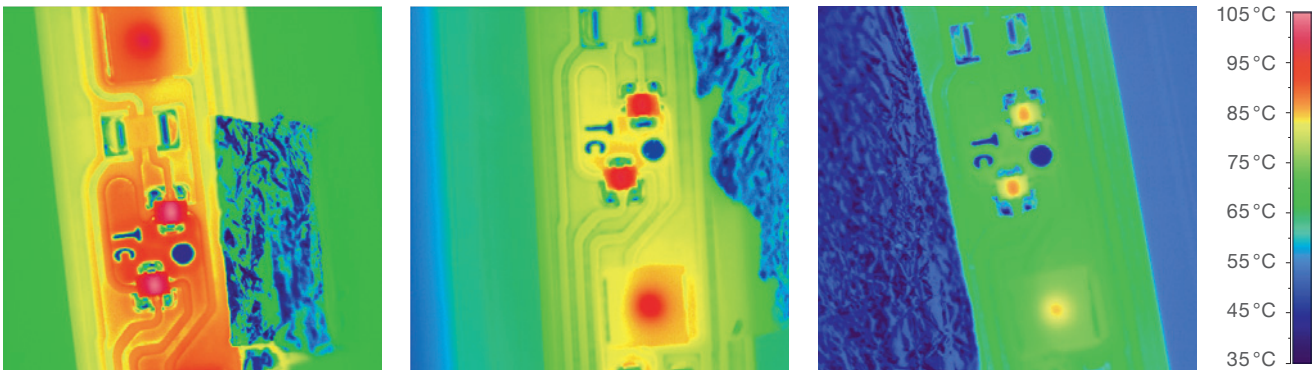
The lifetime always has to be reported in relation to the T_p and it makes no sense to declare a lifetime in relation only to T_j or only to T_a without mentioning the T_p.



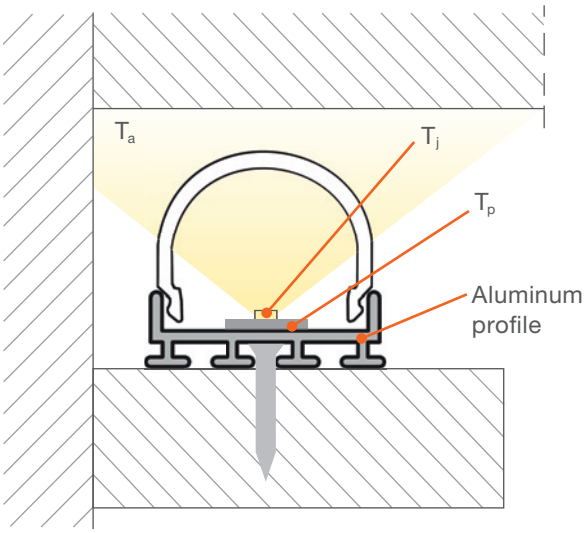
Recessed installation
T_c = 90 °C
25000 h L80B10

Surface installation
T_c = 82 °C
45000 h L80B10

Larger dissipation area
T_c = 72 °C
60000 h L80B10



The lifetime strongly depends on the temperature that is related to the installation environment. T_c and T_p should be measured related to the surface or recessed installation condition.

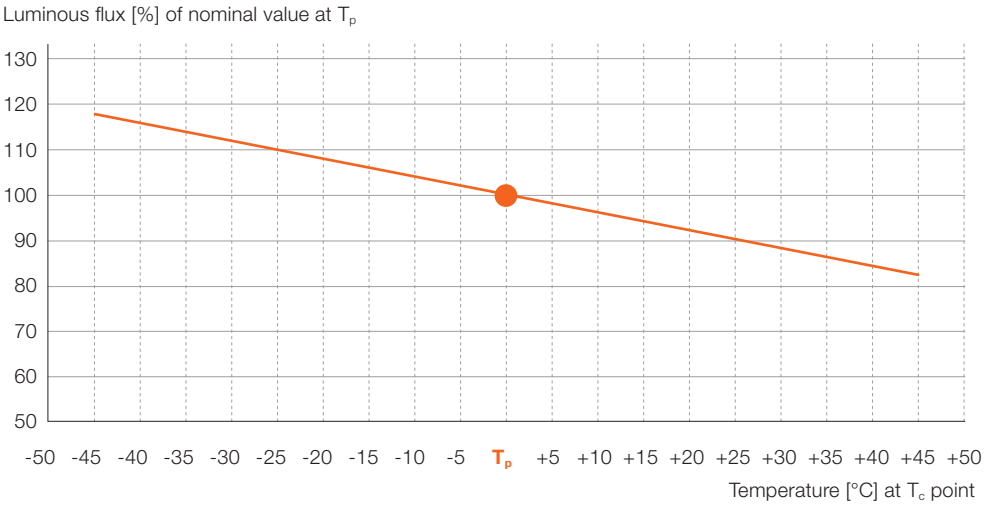


It is always recommended to use adequate aluminum profiles to keep the LED strip cool. The higher the ambient temperature or the higher the power of the LED strip, the larger is the profile surface needed for the heat transfer. Check our documentation to see the recommended aluminum profiles for each specific application and ambient temperature.

Some of our LED strips dissipate heat themselves even at a high ambient temperature. Thus, an aluminum profile is not needed for thermal aspects.

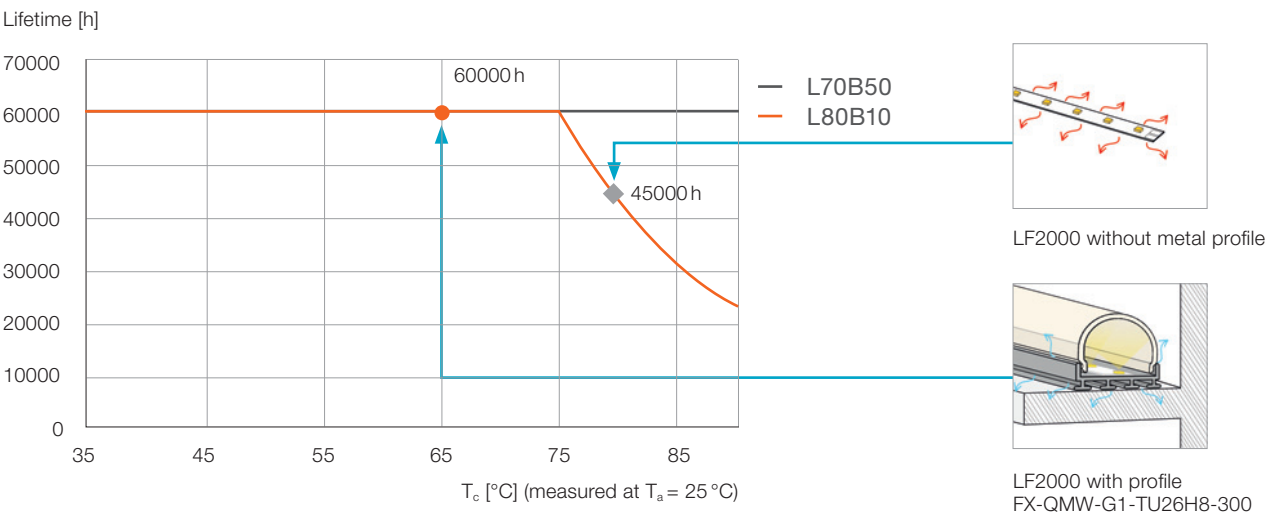
In case of doubt or extreme applications, we suggest to always measure the T_c in a real installation to make sure that the LED strips are used properly and will achieve the declared performance data.

Flux derating vs. T_p



Flux derating according to T_p value of LINEARlight FLEX® Power LED strips: The luminous flux varies with the temperature measured at the T_c point. Nominal values are given at $T_c = T_p$. The luminous flux increases when T_c decreases.

Lifetime vs. T_c



LF2000 without metal profile

LF2000 with profile FX-QMW-G1-TU26H8-300

LM79 and LM80: Lifetime and testing

LEDs (light-emitting diodes) are a relatively recent technology in the world of lighting. This is why they require new and updated standards and testing methods. In 2008, IESNA, the Illuminating Engineering Society of North America, developed two new testing methods, LM79 and LM80, for LED fixtures and LED modules. All OSRAM LED products are tested according to these standards.

Electrical and photometric measurements according to LM-79-08

LM-79-08 is the IESNA-approved testing method for **Electrical and Photometric Measurements of Solid-State Lighting**. It is used for the testing of LED fixtures and luminaires. LM79 measures several aspects of the complete light source and includes photometric, colorimetric and electrical measurements of parameters such as total luminous flux, luminous intensity distribution, electric power, efficacy and color characteristics.

LM79 is fundamental for testing the performance of the LEDs inside the fixture and the behavior of the complete system in controlled conditions, with a uniform method used by all manufacturers.

Tests on traditional light sources are based on relative photometry, so manufacturers use reference lamps and ballasts without taking into account the thermal characteristics of the system regarding efficacy of chromaticity and electric power.

On the contrary, LM79 is based on absolute photometry, which means that manufacturers have to make measurements for the complete SSL system in the way it will be installed to provide the real luminous flux, colorimetric performance and electric power values of the lighting fixture for the use it was intended for. This method is related to the junction temperature and it is fundamental for obtaining reliable and realistic measurements.

Lumen maintenance according to LM-80-08

LM-80-08 (Measuring Lumen Maintenance of LED Light Source) is a standard for the measurement of the LED performance. This standard provides the method for testing the lumen maintenance of the LED light source including LED packages, arrays and single LED modules.

LM-80-08 requires a testing duration of at least 6,000 hours, or better 10,000 hours, with data collection at least every 1,000 hours. OSRAM tests the LED strips up to 6,000 hours, ensuring the compliance with the standards and the better quality of the products.

The method also prescribes to test the LEDs at two fixed temperatures, 55 °C and 85 °C, and one case temperature chosen by the manufacturer (OSRAM measures at rated T_p). In this way, the LEDs are tested while they are in operation and the T_j increases compared to the pulse mode operation without heat sink, with which manufacturers used to test the LEDs.

Lifetime prediction according to TM-21-11: 60,000 hours and more

The lifetime of the LED modules is extremely dependent on the luminous flux depreciation at a given temperature.

There is only one correct way to provide a transparent declaration of the lifetime according to ERP and IEC 62717 (LED modules for general lighting – performance requirements): **n hours LxBy at T_p °C**

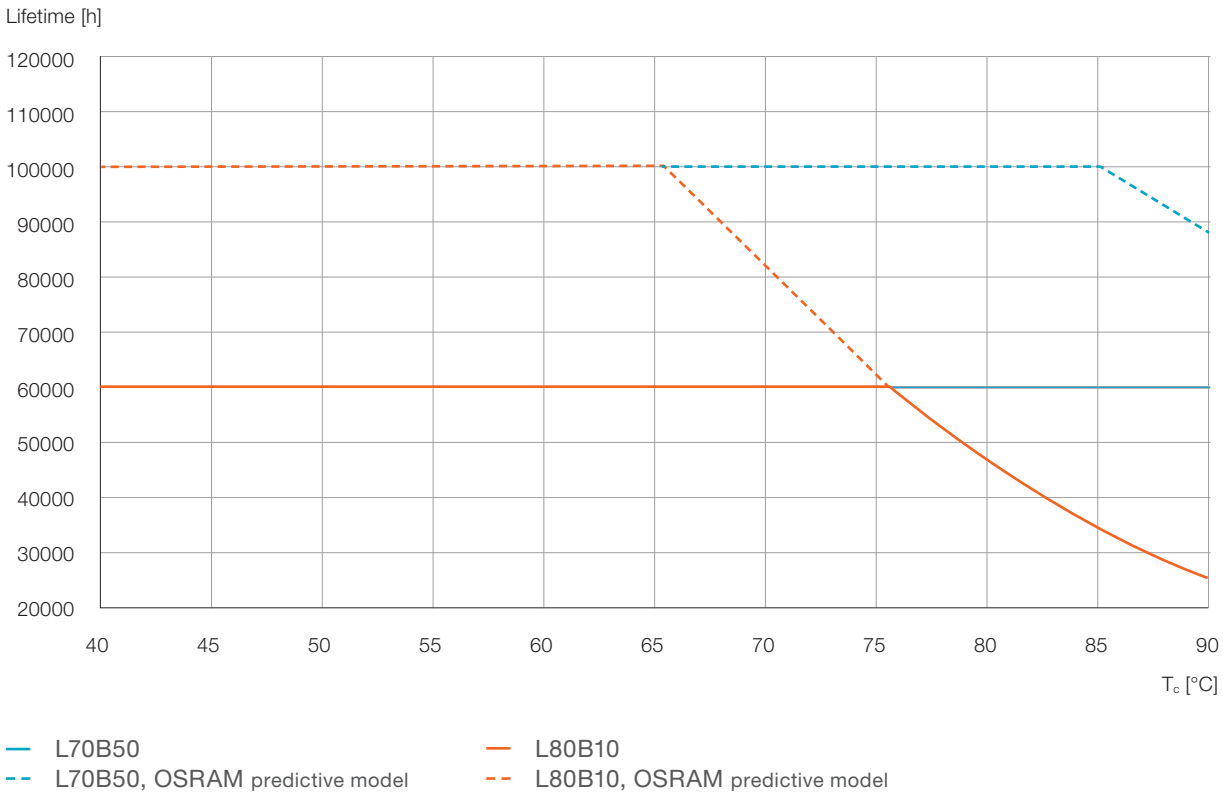
The L value indicates the luminous flux that is maintained by the LED module after n hours of operation at a certain declared temperature T_p. It is given in percentage related to the initial luminous flux.

The B value represents the percentage of LED modules of the same type that show a light output degradation after n hours. The T_p of OSRAM products is measured in the same point as the T_c (thus, the maximum temperature that must not be exceeded for safety reasons).

OSRAM LED strips are designed and tested to achieve a lifetime of 60,000 hours and more at the declared T_p.

TM-21-11 is a standard published by IESNA for “Projecting Long Term Lumen Maintenance of LED Light Sources”. It provides a calculation tool to predict the lifetime of the product starting with the results of LM-80-08 tests.

This standard limits the length of lumen maintenance predictions to 6 times the test duration. Therefore, for a test duration of 10,000 hours, the maximum lifetime that can be declared is 60,000 hours.



LINEARlight FLEX® Power LF1200: Lifetime prediction according to TM-21-11 and OSRAM predictive model.

Color consistency by OSRAM

Single bin and color consistency

LINEARlight FLEX® LED strips provide an excellent color consistency between products with different luminous flux per meter, and even between non-IP and IP67 versions. This allows you to use different LED strips in the same space for specific applications, all with the same CCT. Please note that all photometric data, such as luminous flux, light color and light distribution, refer to the complete LED strips, even for the IP67 versions.

With the goal to provide you with reliable data that is very close to your actual application of our products, we measure all performance parameters in steady-state conditions and also indicate the related T_p temperature.

LINEARlight FLEX®

LINEARlight FLEX® Protect

LINEARlight FLEX® DIFFUSE

Photometric data

Light color LED	White	Light color LED	White	Light color LED	White
Color temperature	3000 K	Color temperature	3000 K	Color temperature	3000 K
Color rendering index R_a	> 80	Color rendering index R_a	> 80	Color rendering index R_a	> 80
Luminous flux per meter	2000 lm	Luminous flux per meter	1900 lm	Luminous flux per meter	750 lm
Luminous efficacy	134 lm/W	Luminous efficacy	106 lm/W	Luminous efficacy	65.1 lm/W

IES TM-30-15: A new method to evaluate LED color rendition

TM-30-15 is a new calculation method for the evaluation of light color rendition, which was introduced by the Illuminating Engineering Society (IES) in 2015.

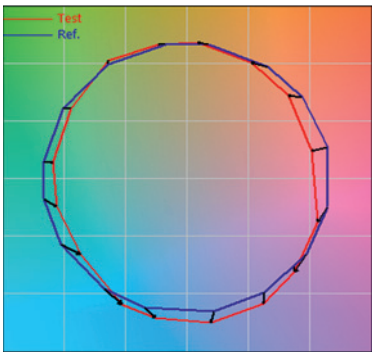
The TM-30-15 method uses 99 color evaluation samples (CES) divided into 7 sample types (nature, skin, textiles, paints, plastics, printed materials, color system) including saturated and non-saturated colors, which are used to evaluate the color rendition of a test light source compared to the one of a reference source.

The light source is characterized by two indexes, the Fidelity Index (R_f) and the Gamut Index (R_g). R_f indicates the fidelity of the CES illuminated by the test light source compared to the reference one. The maximum value is 100 and it means that the test source renders the color sample in the same way as the reference source.

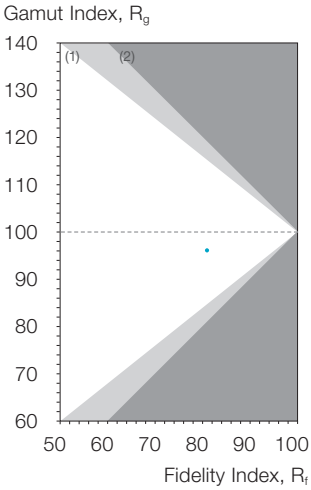
R_g represents the avarage saturation shift of the test source compared to the reference source. The R_g values can change from 60 to 140. R_g = 100 means that the test source does not modify the tone and the saturation of the CES. R_g > 100 means that saturation increases and R_g < 100 means that saturation decreases.

In addition to these parameters, the color rendition is graphically represented by the color vector graphic, which shows the deviation of the test source compared to the reference one. The deviation outside of the reference circle represents the color shift and the saturation variation of the test source.

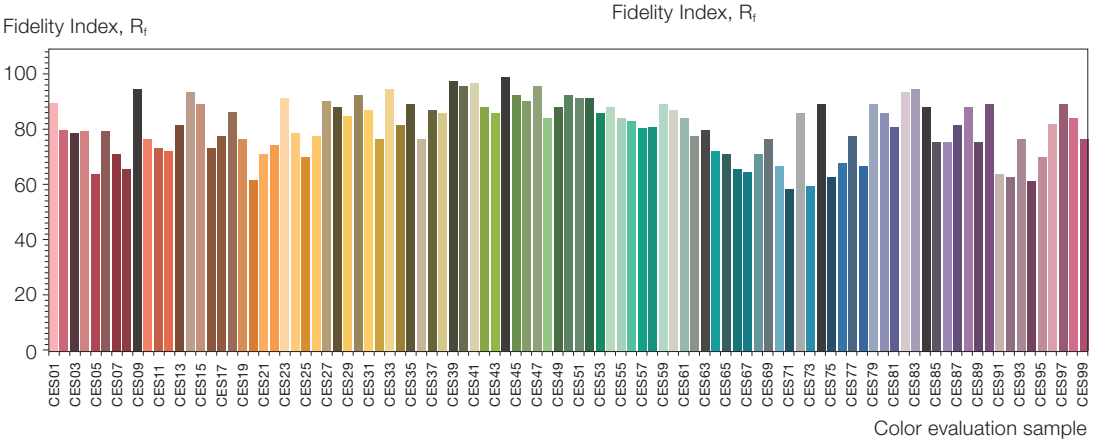
LF Power 840 – 4000 K CRI 80



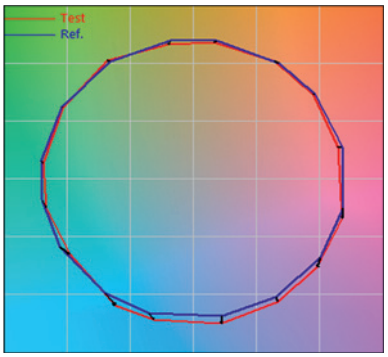
Color vector graphic



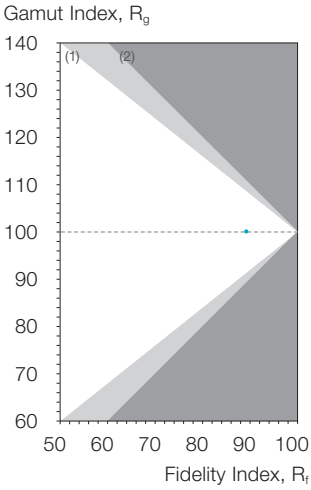
(1) Approx. limits for sources on the Planckian locus.
(2) Approx. limits for practical light sources.



LF Power 940 – 4000 K CRI 90



Color vector graphic



(1) Approx. limits for sources on the Planckian locus.
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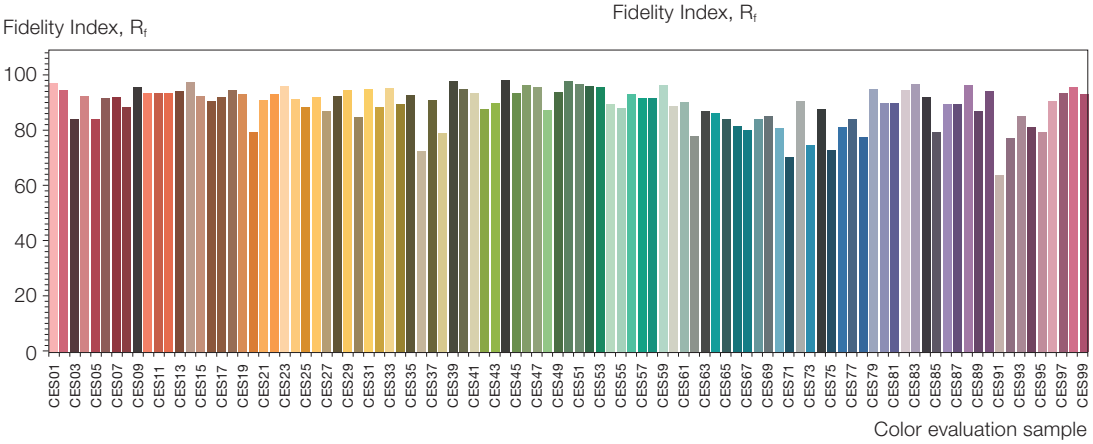


Quality first: Reliability and tests

The OSRAM laboratory

OSRAM pursues the strategy of “quality first”, focusing on the satisfaction of our customers and providing the highest quality in all products, services and processes. This “quality first” philosophy is part of our daily work and is the engine of our continuous improvement process supported by pragmatic tools. Our quality standards in processes and projects are built on preventive measures and tests that are continuously improved.

Our laboratory was established in 2008 and has been developed progressively by increasing the number of performed test types. Experience and know-how are focused on lighting, including power supplies, light sources, lighting fixtures and control devices. The laboratory is able to perform electrical and mechanical safety tests, electromagnetic compatibility tests, environmental tests with climatic chambers, IP grade tests, vibration tests as well as photometric tests with sphere measurements and goniophotometers.

Each product goes through extensive validation testing before market release. The following overview shows some of our testing methods and results.

Temperature shock

Description: The product is thermally stressed in different temperature cycles, 30 minutes for each extreme with a transfer time of less than 10 seconds.
Test condition: T_a = -40...+85 °C
Typical duration: 1000 h
Machinery and tools: Rapid air change chambers

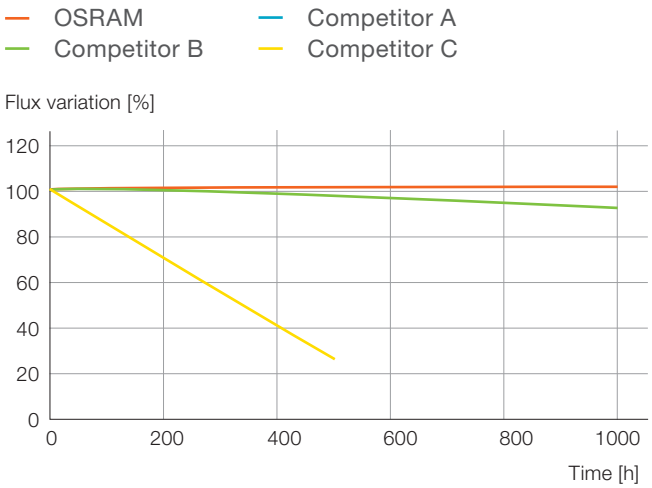
Power temperature cycle

Description: The product is thermally stressed in different temperature and switching cycles, 1 h for each ramp, 1 h for each extreme, on/off in cycles of 17 minutes.
Test condition: T_a = -20...+50 °C
Typical duration: 1000 h
Machinery and tools: Climatic/environmental chambers

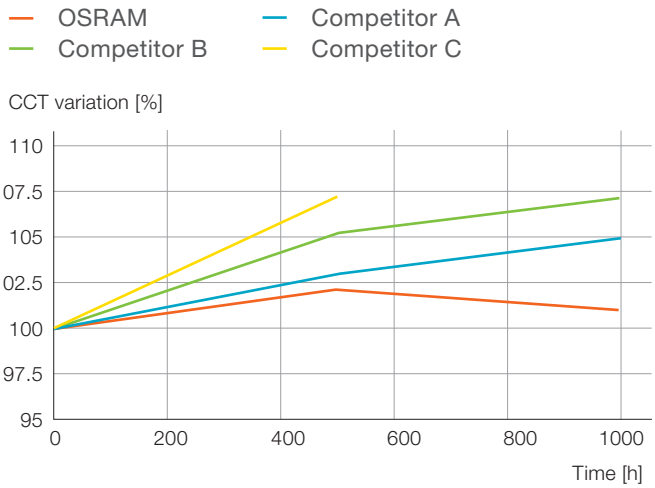
Operation/steady-state life test

Description: The product is tested in different and extreme temperature and humidity conditions to simulate the effect of time on its features and behavior.
Test condition: Defined by product standards
Typical duration: 6000 h or 10000 h
Machinery and tools: Lifetime test ovens

Flux variation



CCT variation



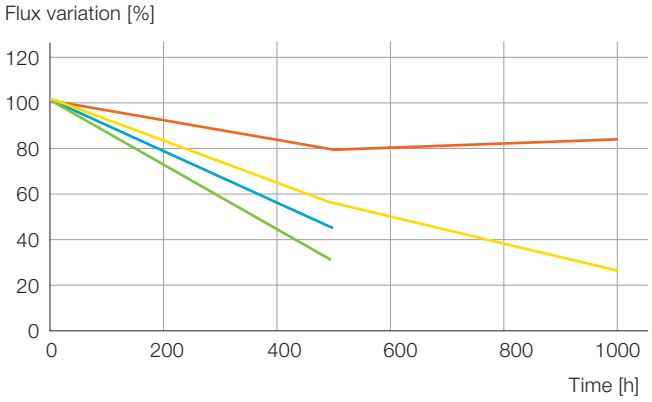
Note:
Due to failure, the results of competitor A are not representative.

Temperature humidity bias

Description: This test simulates the accelerated effect of moisture on the product.
Test condition:
T_a = 85 °C/85 % r. h. biased
T_a = 60 °C/90 % r. h. biased
T_a = 40 °C/93 % r. h. biased
Typical duration: 1000 h
Machinery and tools: Climatic/environmental chambers

Flux variation

OSRAM — Competitor A
Competitor B — Competitor C

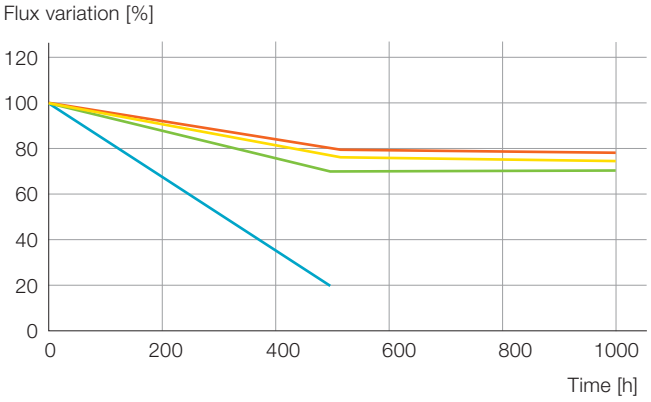


Temperature humidity storage

Description: The product is tested in different humidity conditions to simulate the effect of moisture on the product.
Test condition:
T_a = 85 °C/85 % r. h.
T_a = 60 °C/90 % r. h.
T_a = 40 °C/93 % r. h.
Typical duration: 1000 h
Machinery and tools: Climatic/environmental chambers

Flux variation

OSRAM — Competitor A
Competitor B — Competitor C



Combined temperature and humidity cycling

Description: The product goes through on/off cycles of 6 hours at different ambient temperature and humidity ranges.
Test condition:
T_a = 85 °C/85 % r. h., 6 h on/off
T_a = 60 °C/90 % r. h., 6 h on/off
T_a = 40 °C/93 % r. h., 6 h on/off
Typical duration: 1000 h
Machinery and tools: Climatic/environmental chambers

Low-temperature storage

Description: The product is tested at a very low temperature according to standards and customers' needs.
Test condition: T_a = -40 °C or -20 °C, not biased
Typical duration: 1000 h
Machinery and tools: Cold chambers

High-temperature storage

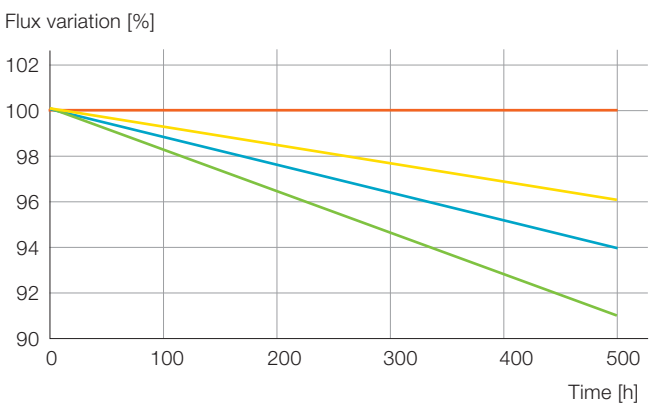
Description: This test evaluates the effect of very high temperatures on the product and ensures its reliability in extreme conditions.
Test condition: T_a = 85 °C, not biased
Typical duration: 1000 h
Machinery and tools: Ovens

Special tests

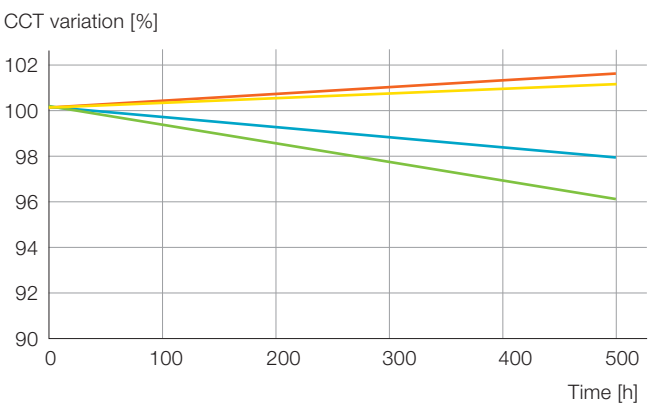
Salt mist corrosion

Description: The test procedure is separated into a specified number of periods of spraying by a salt mist, each followed by a storage period under humid conditions.
Test condition: T_a = 35 °C, NaCl 5 % W./W., storage period at 40 °C ±2 °C, (93+3) % r. h.
Typical duration: minimum of 168 h
Machinery and tools: Salt mist chamber

Flux variation



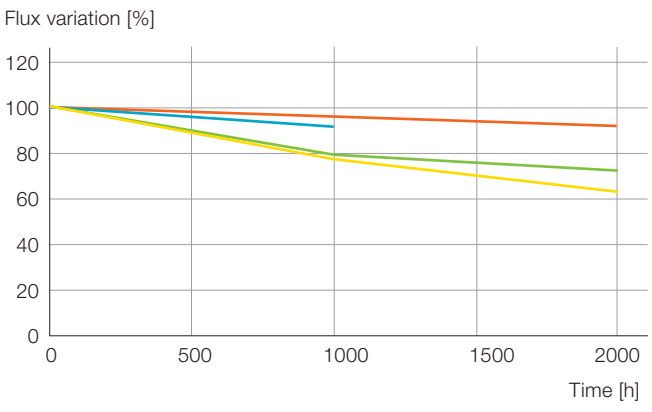
CCT variation



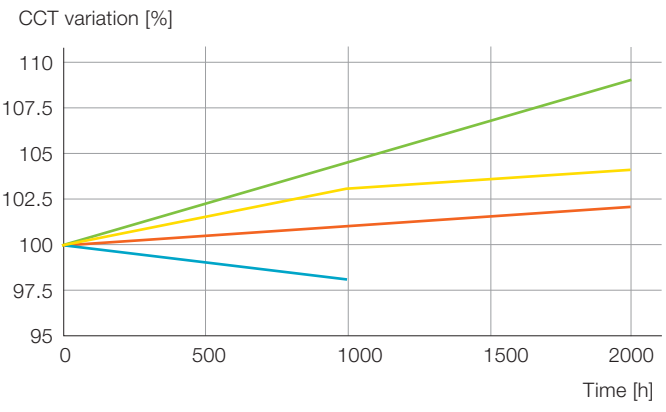
Outdoor weathering test

Description: This test simulates the exposure of the product to extreme weather conditions, in cycles of different temperature and humidity ranges.
Test condition: T_a = 10 °C...34 °C, humidity range = 43 %...88 %
Typical duration: Defined by product standards
Machinery and tools: Climatic/environmental chambers

Flux variation



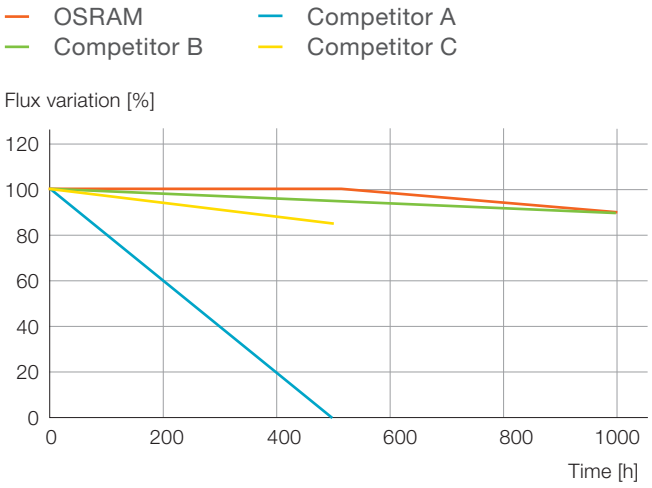
CCT variation



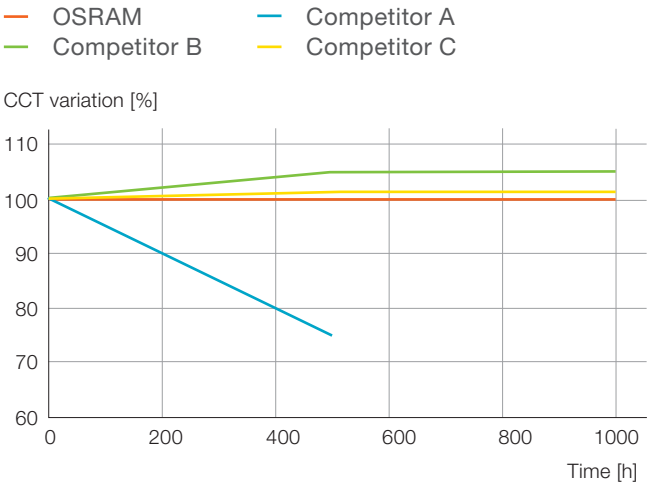
UV radiation test

Description: The product is exposed to cycles of 102 min dry and 18 min water spray to evaluate the effect of accelerated exposure to UV rays.
Test condition: Broadband: 300 nm...400 nm, W/m^2: 60 ±2; black standard temperature: 65 ±3 °C
Typical duration: 102 min dry; 18 min water spray

Flux variation



CCT variation



Vibration sine random shock

Description: The product is subjected to vibrations inside a special machinery up to a force of 10 kN and over a frequency range of 5–2000 Hz.
Typical duration: Defined by product standards
Machinery and tools: Shaker

Impact test

Description: According to product standards or customer specifications, the product is tested for impacts up to IK10.
Test condition: IK06-IK10
Typical duration: Defined by product standards
Machinery and tools: Impact test machine

Water and solid object ingress protection

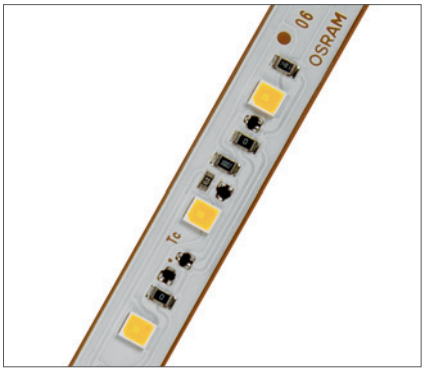
Description: This test simulates the exposure of the product to water and dust in extreme conditions.
Test condition: Up to IP67
Typical duration: Defined by product standards
Machinery and tools: Water and dust ingress test station

Photometric measurements

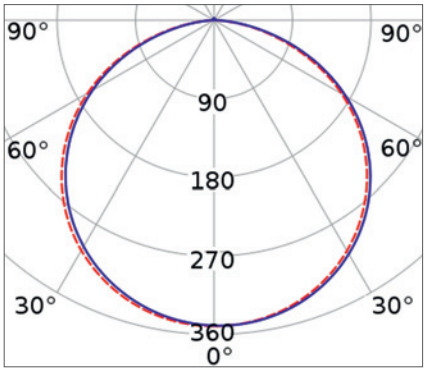
Measurements of luminous intensity and radiation pattern
Test condition: Distance of 0.8 m, 4 m and 17 m
Test results: Intensity in defined C/G direction
Machinery and tools: Goniophotometer

Luminous flux spectrum
Test results: Luminous flux, efficacy, CCT, color coordinates, color rendering index and other spectral parameters
Machinery and tools: Integrating sphere with spectro-radiometer

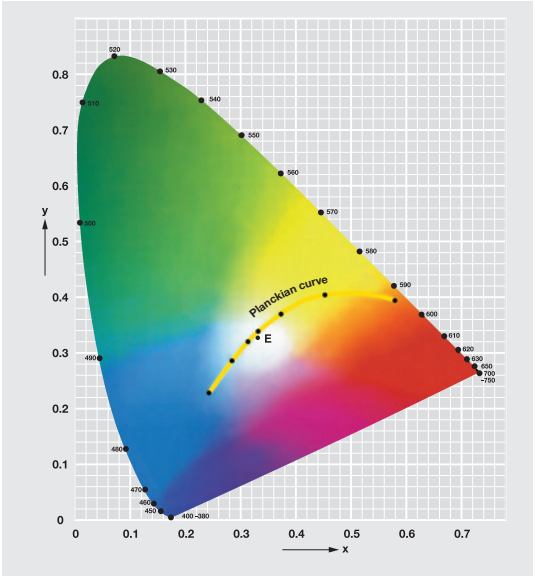
Color distribution
Test condition: LM-79-08
Test results: Color coordinates in defined C/G direction
Machinery and tools: Goniophotometer



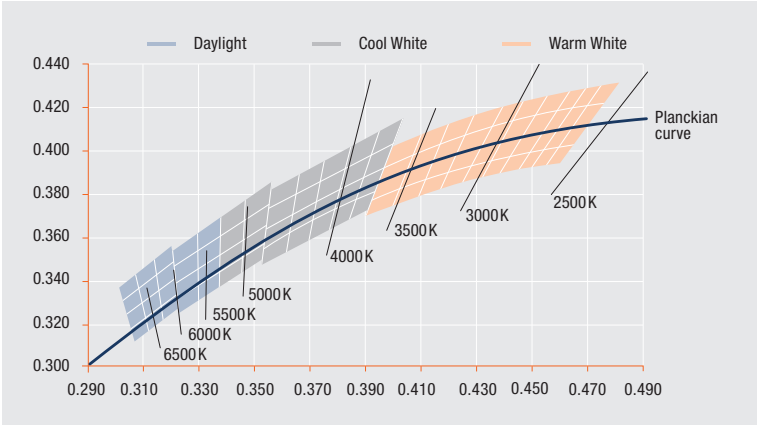
LF1200-G3-940-09



Light distribution diagram



Chromaticity diagram acc. to DIN 5033



Extract from the chromaticity diagram showing the Planckian curve

Quality you can rely on: 5-year guarantee

Year after year, hundreds of thousands of customers place their trust in us. In return, we provide guarantees lasting many years.

As they deliver maximum quality, we offer a full 5-year guarantee on the following products mentioned in this catalog:

LED modules
- LINEARlight FLEX®
- BackLED®

OPTOTRONIC® LED drivers
- OTi
- OT...P
- OT.../12 and OT.../24

The guarantee starts with commissioning of the corresponding OSRAM LED drivers and/or OSRAM LED light sources as well as OSRAM LMS components and ends no later than 66 months after the OSRAM product was manufactured.

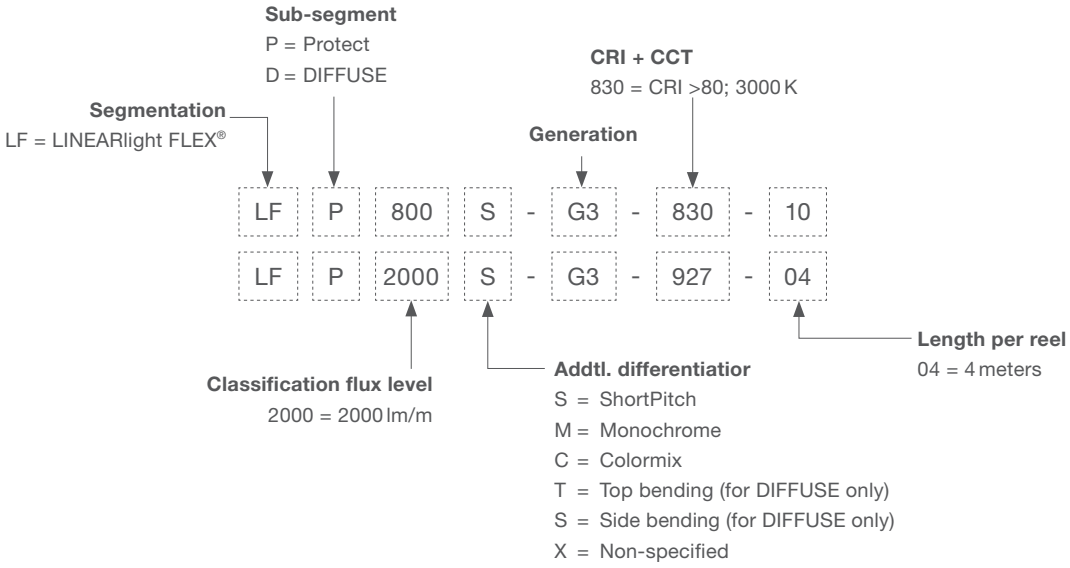
In order to benefit from the OSRAM guarantee, registration is not required. For each product from the above-specified series that fails due to a material or manufacturing defect, a replacement or credit note will be provided as part of the guarantee service.

For conditions and details, go to
www.osram.com/guarantee

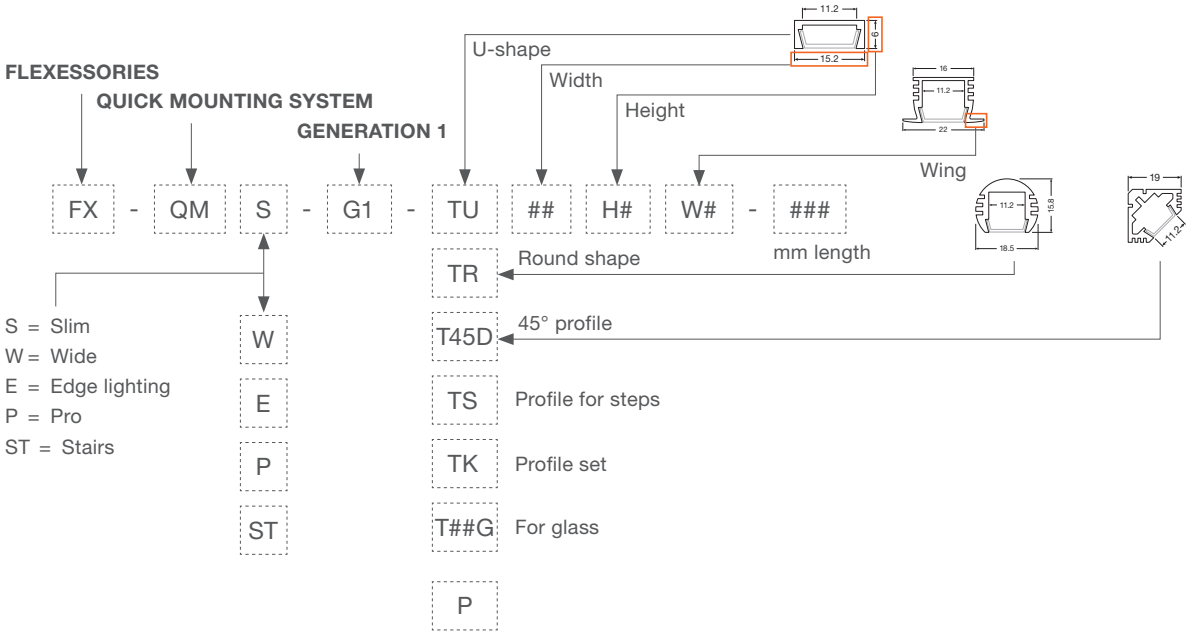
Product naming concept

The product reference code describes each product with the most important technical specifications. This gives you all relevant information at a glance.

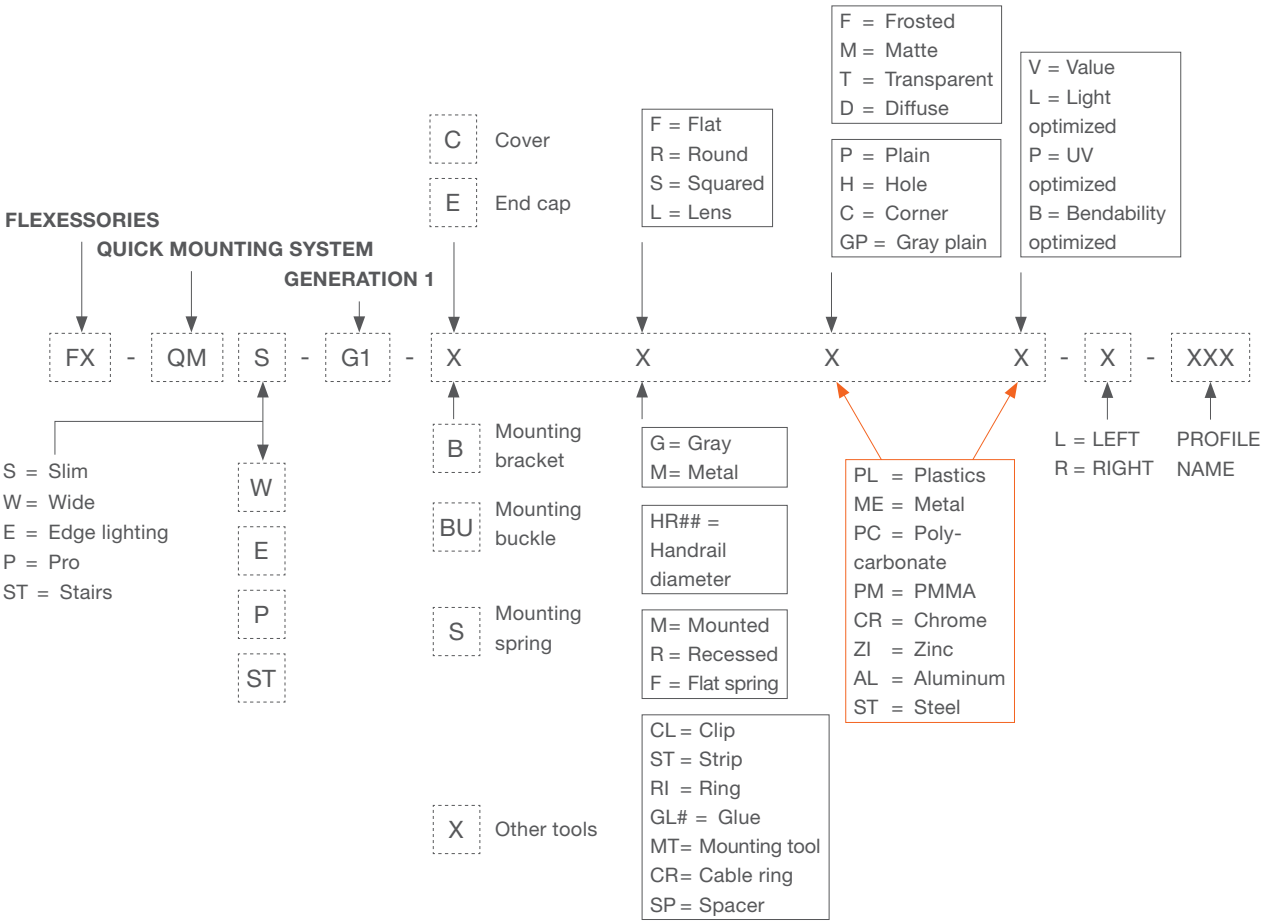
LED strip naming concept



Profile naming concept



Naming systematic for other accessories



CE labeling for lighting products

Products that fall under the scope of the European directives on low voltage (LVD), electromagnetic compatibility (EMC), radio equipment (RED), restriction of certain hazardous substances (RoHS) and the eco-design of energy-related products (ErP and its applicable implementation measures) must carry the CE label to be sold within the EU. The CE label indicates compliance with the essential requirements of these regulations and ordinances. All relevant OSRAM products for sale on the EU market carry the CE label.

Notes on CE labeling:

1. CE labeling as a requirement for marketing products in Europe

Some EU Regulations ("CE Regulations") require CE marking of products. In this case, the CE label is a prerequisite for sales within the EU and must therefore be applied before a product can be marketed. By applying the CE label to their products, manufacturers and importers confirm that their products comply with the "essential requirements" of all applicable CE Regulations and that they meet the stated objectives of these directives (electromagnetic compatibility, for example). In many cases, compliance with these "essential requirements" is demonstrated by complying with the relevant harmonized European standards (EN).

2. The CE label is an administrative mark

The CE label is addressed to the EU customs and market authorities. The CE label indicates to them that at the time of its marketing the labeled product complies with the European directives that (a) apply to the product and (b) require a CE label.

3. CE labeling for inspection

Consumers do not have the right to inspect the CE declarations of the manufacturers, except for radio products. Here, the CE declaration must be made available with the product, either in printed form or via a download link.

The right to request and inspect CE declarations is reserved exclusively for those market authorities responsible for checking that electrical and electronic products comply with statutory requirements. In Germany, for example, these are the Bundesnetzagentur (Federal Network Agency), the Gewerbeaufsichtsämter (Trade Supervision Offices), the relevant authorities and the Bundesanstalt für Materialforschung und -prüfung (Federal Agency for Material Research and Testing) as the commissioned agency (in connection with the ErP directive).

4. The CE label is not a seal of quality or an approval mark

CE labeling relates solely to compliance with the statutory "essential requirements" contained in certain directives and ordinances. It is therefore not an indicator of the quality of the product. As an administrative label required by law, the CE label should not be confused with the approval marks (such as ENEC and VDE marks) issued by independent inspectorates.

Simple and correct disposal of lighting products

EU directive 2012/19/EU on waste electrical and electronic equipment (WEEE) relates, among other things, to luminaires, discharge lamps and LED lamps.

Starters, control gears and light-emitting diodes are classed as luminaire components and as such are part of the luminaire disposal process.

All OSRAM products that need to be disposed of under the WEEE directive are labeled with the symbol shown here.

All manufacturers, importers and initial distributors must register with their relevant national authority. Products from non-registered manufacturers may no longer be marketed.

There are individual regulations governing the disposal of lighting products in the member states of the EU and also in Norway and Switzerland. For more information, please contact your local OSRAM office.

The primary objectives of the WEEE directive are to reduce the load on the environment, safeguard valuable resources and protect the environment and public health.

All consumers (commercial and domestic) are obliged to return old affected lighting products for separate disposal. Collection points have been set up for this.

The latest information from OSRAM can be found on our Sustainability pages:
www.osram-group.com/en/sustainability/environmental/recycling or at any relevant national authorities.

Approval marks and internal certifications

Our laboratory is accredited by VDE for electrical testing, electromagnetic compatibility, electrical and photometric performance, according to the following standards:

Safety standards

IEC/EN 60598-1	Luminaires
IEC/EN 61558-1	Isolating transformers
IEC/EN 61347-1	Lamp control gears
IEC/EN 61347-2-2	Electronic convertors
IEC/EN 61347-2-11	Aux. equipment lighting
IEC/EN 61347-2-13	LED drivers
IEC/EN 62031	LED modules

Electromagnetic compatibility standards

IEC/EN 61000-3-2	Harmonic currents
EN 55015	Emission for lighting equipment
IEC/EN 62493	EMF human exposure
EN 50065	Power line communications
IEC/EN 61547	Immunity for lighting equipment
IEC 61000-4-2	ESD
IEC 61000-4-4	Burst
IEC 61000-4-5	Surge
IEC 61000-4-6	Injected currents
IEC 61000-4-11	Voltage dips

Photometry and performance standards

IEC 62717	LED module performance
IEC 62722-2-1	LED luminaire performance
EN 13032-4	LED lamps, modules and luminaires – photometry

Reliability standards

IEC 62717	LED module performance
IEC 62722-2-1	LED luminaire performance

Our laboratory is accredited by UL for safety tests to check compliance with the following standards:

Safety standards

UL 8750	LED equipment
UL 1310	Class 2 power units

Other standards (not accredited by VDE/UL):

Photometry and performance standards

LM-79-08	Electrical/photometric measurements of SSL products
EN 13032-1	Photometry of luminaires
IEC TR 62788	Blue light hazard (photobiological safety)

Environmental tests

IEC 60068-2-1	Test A: Cold
IEC 60068-2-2	Test B: Dry heat
IEC 60068-2-14	Test N: Change of temperature
IEC 60068-2-78	Test Cab: Damp heat, steady state
IEC 60068-2-11	Test Ka: Salt mist
IEC 60068-2-52	Test Kb: Salt mist, cyclic
IEC 60068-2-6	Test Fc: Vibration sine
IEC 60068-2-64	Test Fh: Vibration random
IEC 60068-2-27	Test Ea: Shock
IEC 62262	Impact test IK06-IK10
IEC 60598-1 clause 9	Water and dust ingress IP67
IEC 60529	Water and dust ingress IP67

Do you need professional support?

Our experienced lighting professionals are at your service to consult you in the planning and successful implementation of your projects.

For technical questions, please do not hesitate to send an e-mail to one of the following addresses:

For FLEX, write to:
flex-support@osram.com

Your support for …
— Project planning
— Implementation
— Accessories

www.osram.com/flex
www.osram.com/flex-configurator

For backlighting and luminous areas, write to:
signage-support@osram.com

Your support for …
— Backlighting
— Side lighting
— Light ceilings

www.osram.com/led-designer
www.osram.com/backlighting

Symbols

- W — Power in W
- W SYSTEM — System wattage in W
- W CHAIN — Wattage of chain in W
- W MODULE — Module wattage in W
- W/m — Nominal wattage per meter in W/m
- V — Voltage in V
- Hz — Operating frequency in Hz
- K — Color temperature in K
- Light color
- COLOR — Color
- Ra — Color rendering index
- lm CHAIN — Luminous flux of chain
- lm MODULE — Luminous flux of module
- lm/m — Luminous efficacy per meter
- lm/W — Luminous efficacy
- λ — Power factor/wavelength
- d [mm] — Diameter d in mm
- l [mm] — Length l in mm
- l_1 [mm] — Length l_1 in mm
- l min. [mm] — Length l min. in mm
- b [mm] — Width b in mm
- h [mm] — Height h in mm
- h m — Maximum installation height in m
- Beam angle in °
- IP — Type of protection
- CONTROL — Control
- No. of OUTPUTS — Number of control outputs
- T_a — Ambient temperature range in °C
- Energy efficiency class
- No. of LEDs per module
- METER — Number of LEDs per meter
- Modules/Chain — Number of LED modules per chain
- [m] — Detection area
- Lx — Working range of light sensor in Lx
- Max Load [A] — Maximum load contact in A
- Type of installation
- Standard pack in pcs.
- No. — Fig. no.

Glossary

CCT	Color Temperature
CRI	Color Rendering Index
DALI	Digital Addressable Lighting Interface
DT6/DT8	DALI Device Type 6/8
ECG	Electronic Control Gear
PWM	Pulse Width Modulation
R_a	Color Rendering Index

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