



## Light is the spirit of architecture

### Light as the fourth dimension

Extraordinary building concepts are the result of a holistic approach. As an integral part of the architecture, lighting solutions support and enhance the overall visual impression. The ultra-flat lighting systems from OSRAM help create working environments with a unique character and an inspiring ambience.

**Light is OSRAM**

**OSRAM**

# Perfect symbiosis of light and architecture

Modern architecture reflects the philosophy of a company and translates its values into a unique design. The interplay between different geometries and selected materials as well as the creation of special areas for communication and interaction help design inspiring working environments that are a source of identification for employees. In this context, light plays a crucial role: It enhances the appeal of rooms and fills the entire building with life. Thanks to innovative, ultra-flat and flexible lighting solutions from OSRAM, the lighting blends discreetly into the architectural concept of a room and opens up completely new opportunities for creative design.



## The new standard in luminaire design

Thanks to the UltraFlat System, creative luminaire manufacturers and lighting planners profit from an unprecedented level of design freedom. The flattest lighting system on the market with a casing height of only 11 mm allows for the design of extremely slim luminaires that perfectly fit their architectural environment. No matter which type of luminaire you have in mind: The UltraFlat System helps you to design pendant, wall, surface-mounted and floor-standing luminaires that can be adapted to any interior without making compromises. The portfolio, which consists of ultra-flat DALI LED drivers, perfectly matched light and presence sensors as well as the particularly slim PrevaLED® Linear LED modules in various light colors and lengths, combines high performance, excellent efficiency and unique design.

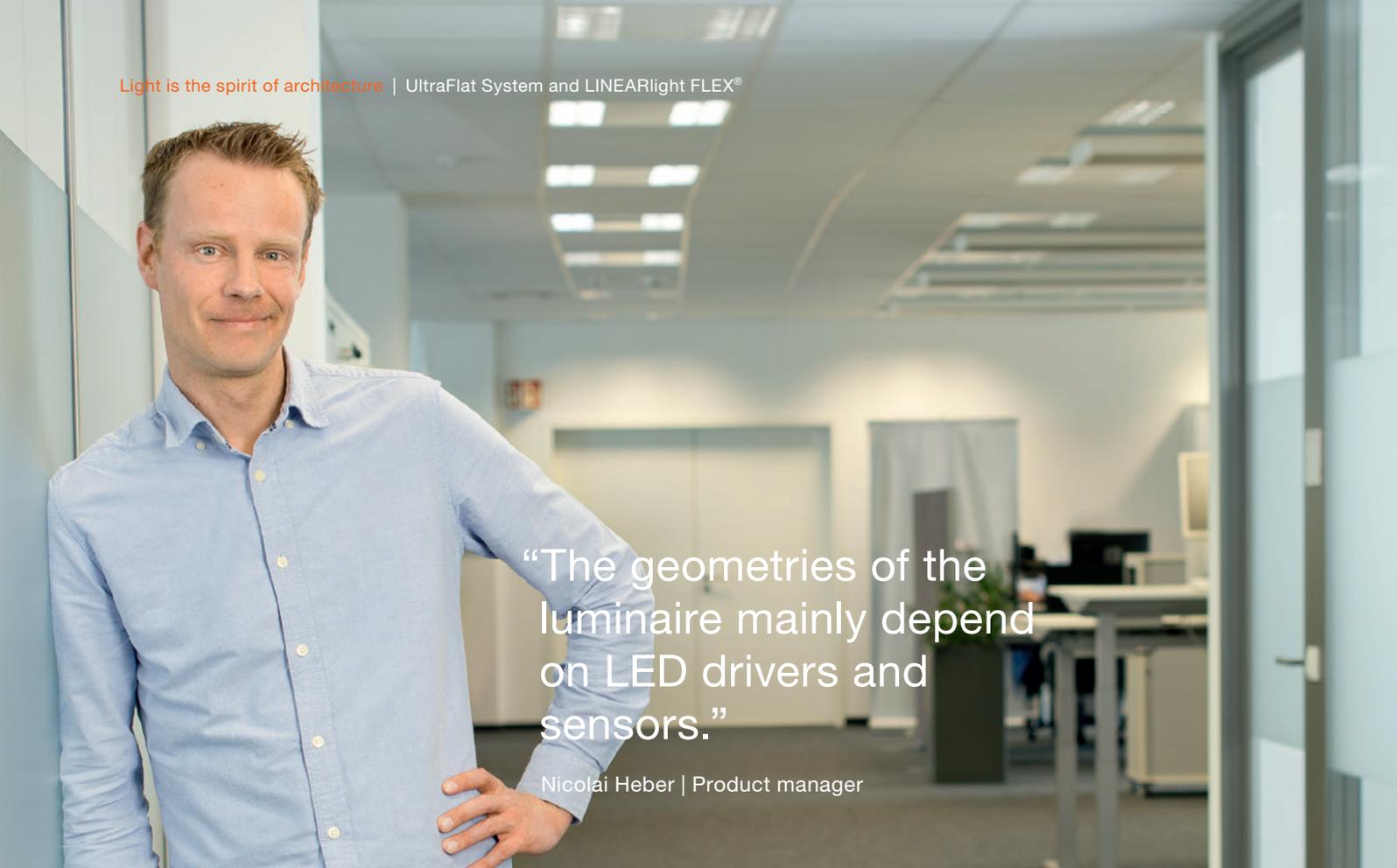
- 1 Extremely slim and flat pendant luminaires with UltraFlat System
- 2 LINEARlight FLEX® LED modules connected to provide homogeneous strip lighting
- 3 The UltraFlat System offers design freedom for elegant floor-standing luminaires
- 4 BackLED® LED modules allow for brilliant backlighting of light ceilings



### Inspiration and harmony through integrated light

Homogeneous light ceilings and lines of light 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 walls in a seamless, unobtrusive and harmonious way. While LED strips are hidden in light covers or cut-outs of furniture systems, BackLED® LED modules bathe specific areas in pleasant light. As harmonious general lighting, for the accentuation of architectural shapes or as decorative design element: The LINEARlight FLEX® system offers you maximum flexibility – with a wide selection of different LED modules, the corresponding LED drivers and a comprehensive range of accessories, the so-called Flexessories®.

**Make your visionary design come true – with ultra-flat lighting systems from OSRAM!**



“The geometries of the luminaire mainly depend on LED drivers and sensors.”

Nicolai Heber | Product manager

## Thinking out of the box, turning design visions into reality

An interview with Nicolai Heber, product manager

**OSRAM: Lighting plays an important role in architecture. Which challenges do we face today in the design of modern lighting solutions?**

**Nicolai Heber:** Interior design concepts have indeed always been influenced by the lighting. However, due to the dimensions of electronic components, compromises had to be made in terms of luminaire shapes and sizes. LED technology has revolutionized everything and gives much more leeway for sophisticated luminaire designs.

**OSRAM: LED modules, however, are not the only components of a luminaire.**

**Nicolai Heber:** That's the key issue. Today, LED modules are no longer the limiting factor. Instead, the geometries of the luminaire mainly depend on LED drivers and sensors. Another important factor are the higher requirements regarding intelligent light management. The entire hardware has to be placed inside luminaires that have to be increasingly flatter and slimmer at the same time.

**OSRAM: In other words, luminaires become more minimalistic and more advanced at the same time. How did you manage to meet the different requirements?**

**Nicolai Heber:** We simply put everything to the test. With the UltraFlat System, not only the height of the LED driver has been reduced by almost 50 %, from 21 to just 11 mm, but the UltraFlat light and presence sensor has also been perfectly adjusted to meet the new standards. In addition, the new, only 20 mm slim PrevaLED® Linear LED modules complement this ultra-flat and slender system. Thanks to their outstanding efficiency of up to 195 lm/W, the broad range of different light colors and the long lifetime, these modules are an excellent choice for luminaire designers.

**OSRAM: This means that design freedom is a decisive advantage of the UltraFlat System. Are there further potentials?**

**Nicolai Heber:** The LED driver allows for stepless analog dimming from 1 to 100 % and offers additional integrated functions such as Touch DIM®, Corridor Function and Constant Lumen Output. Moreover, we have radically simplified the programming of the driver by using NFC technology. Via the integrated NFC interface, the programmed settings can be transmitted wirelessly. Intelligent light management opens up new potentials for the demand-based control of the luminaires. For this, we offer two ultra-flat light sensors – with LEDset2 and DALI. The LEDset version, on the one hand, is the ideal solution for use in single luminaires or small applications. It can be connected directly to two UltraFlat LED drivers, e.g. for direct and indirect lighting, and allows for manual dimming as well as the storage of individual lighting levels. The DALI version, on the other hand, is addressable and can be integrated into light management systems of any size.

**OSRAM: Modern lighting concepts go beyond the application of conventional luminaires. What trends do you see?**

**Nicolai Heber:** Light no longer only comes from conventional luminaires, it can take on many different shapes. In the course of the advancement of LED technology, the task today is to implement complete visual concepts. In addition to standard lighting tasks, light is increasingly applied to follow architectural shapes and lines in order to take the visual impression of a room to a new level. In other words, light becomes the fourth dimension.

**OSRAM: Does this mean that the classic relationship between luminaire and light is dissolved?**

**Nicolai Heber:** That's right. Today, light is everywhere. Light ceilings open the space, while lines of light in ceilings, walls or handrails accentuate curved contours or emphasize linear elements. Going beyond general lighting, architecture puts the main focus on the shape of the space and the interior design. Light should rather be perceived subconsciously, while the light source disappears into the background.

**OSRAM: Which lighting tasks can be fulfilled with the flexible LINEARlight FLEX® LED modules?**

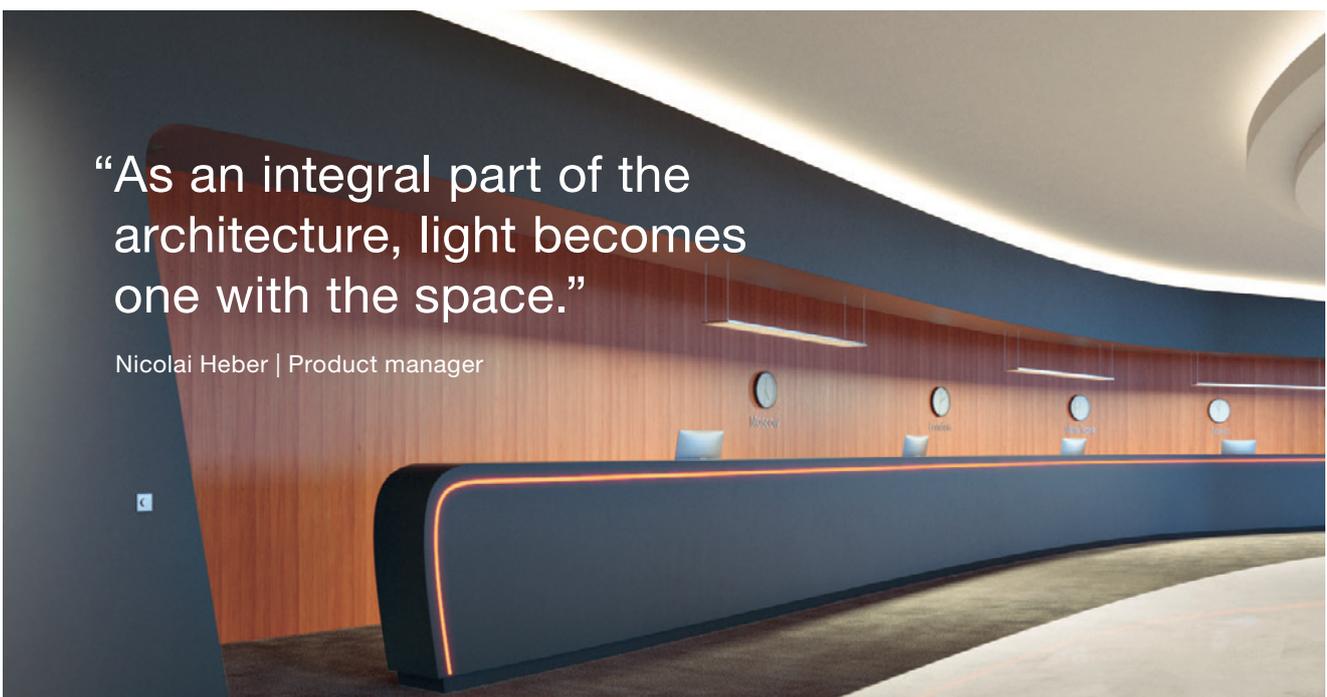
**Nicolai Heber:** We really have a very broad portfolio. The modules cover a wide spectrum from brilliant white tones to Tunable White, provide effect lighting with rich colors and create a harmonious atmosphere with diffused light. Moreover, UV-resistant versions with IP67 are also available for outdoor use.

**OSRAM: It is often said that the installation of such systems is very complicated and time-consuming. Is this correct?**

**Nicolai Heber:** No, quite the contrary. OSRAM is a one-stop shop for lighting. LED modules and LED drivers as well as the corresponding light management system are perfectly matched to provide the optimal performance for the given application. Moreover, a wide range of Flexessories®, accessories for the FLEX® LED modules, is available for quick and simple installation. Therefore, it's really easy to integrate the individual components into flexible luminaires that are immediately ready for use.

“As an integral part of the architecture, light becomes one with the space.”

Nicolai Heber | Product manager



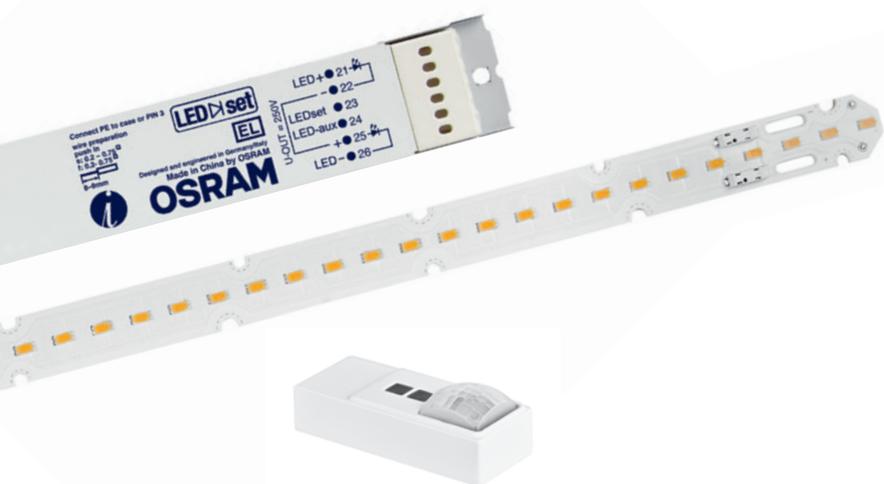
# A new level of design

Light sets up the visual framework for the architecture and takes the overall concept to a new level. It thus becomes the fourth dimension of space. Sophisticated lighting helps architects, lighting planners and designers create, refine and fill their visionary ideas with life. Innovative lighting solutions provide the basis for an unprecedented freedom of design that paves the way for completely new lighting concepts.

## The lightness of luminaire design

The design of luminaires is precisely adjusted to the shapes and materials of the interior in order to create a pleasant optical unit. With their extremely flat and slim shape, the floor-standing and pendant luminaires seem to float over the desks. This opens the view across the entire room so that the pleasantly airy atmosphere is maintained.

This minimalist design is made possible by the use of the UltraFlat System. With a height of 11 mm, it is the flattest LED driver on the market. The gained design freedom provides the basis for office concepts communicating ease and elegance without making compromises in terms of functionality and performance.





### Room geometry as light axes

In interior design, light covers open up a multitude of opportunities. The homogeneous lines of light reproduce the room geometry elegantly, creating a perfectly integrated whole. At the same time, working and meeting areas can be separated and individual elements can be highlighted for a decorative effect.

Thanks to the specially developed ShortPitch LED strips, light covers in ever smaller dimensions blend elegantly into the overall ambience. Due to the short LED pitches, homogeneous light is produced even at a very close distance to the wall. The slim and flat LED drivers are also designed to avoid shadowing in the cove.



### Creating unique light objects

The LINEARlight FLEX® LED strips can be easily adapted to curved shapes and organic structures. This way, furniture systems can also be integrated into the overall concept. The deliberate selection of color and brightness conveys the character of the furniture in an impressive way. In the design of extravagant luminaires, LINEARlight FLEX® offers considerable design freedom, resulting in unique light objects that can take on almost any shape thanks to the flexible LED strips.



### Creating open spaces

They seem to open the ceiling so that the room appears higher and airier. Light ceilings can provide accentuation with colored effects, brightly illuminate certain areas or create a peaceful atmosphere with different tones of white. The LED modules of the BackLED® family offer absolutely uniform backlighting of the entire surface.



# UltraFlat System

With an installation depth of only 11 mm, the OSRAM UltraFlat System offers perfect conditions for modern luminaire design. The efficient and perfectly matched lighting system consists of ultra-flat LED drivers, a similarly flat light and presence sensor as well as the particularly slim PrevaLED® Linear LED modules.



## OPTOTRONIC® UltraFlat DALI

- Ultra-flat casing: only 11 mm – 50 % flatter than standard OTi DALI
- Three programming interfaces: DALI, NFC, LEDset (current)
- 1...100 % amplitude dimming, low current ripple: less than 1 %
- Direct sensor connection via LEDset interface
- Very high reliability and efficiency (up to 93 %)
- Lifetime: up to 100 000 h (at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- Suitable for emergency lighting (EL) systems with central battery
- Low standby consumption (< 0.25 W)

## OPTOTRONIC® UltraFlat DALI

Product reference	Product code	Output power	Output voltage	Rated output current	ECG efficiency (max.)	Current ripple (100 Hz)	Dimensions (L x W x H)	Ambient temperature range
OTi DALI 35/220...240/400D LT2 UF L	4052899957022	4...38 W	54...240 V	75...400 mA	Up to 92 %	< 1 %	360 x 30 x 11 mm	-25...+60 °C
OTi DALI 75/220...240/700D LT2 UF L	4008321371560	9.7...75 W	54...240 V	250...700 mA	Up to 93 %	< 1 %	360 x 30 x 11 mm	-25...+50 °C



## Light and motion sensor

- Minimized dimensions: 50 x 20 x 11 mm
- Long lifetime: 50 000 hours (at  $T_c$  max)
- Wide detection range\*: Motion up to 6 x 6 m, presence up to 4 x 4 m
- Two versions: Addressable DALI version for integration into lighting control systems, LEDset2 version for direct connection to LED driver for intelligent single luminaires

## Light and motion sensor

Product reference	Product code	Motion detection range*	Presence detection range*	Light sensing range	Installation type	Ingress protection	Ambient temperature range
LS/PD DALI LI UF	4052899984608	6 x 6 m	4 x 4 m	10...1000 lx	Luminaire integration	IP 20	0...+50 °C
LS/PD LT2 LI UF	4052899984615	6 x 6 m	4 x 4 m	10...1000 lx	Luminaire integration	IP 20	0...+50 °C

\* At a mounting height of 3 m



### PrevaLED® Linear G4

- Efficiency of up to 195 lm/W
- Wide selection of light colors (2 700 K, 3 000 K, 4 000 K, 5 000 K and 6 500 K)
- Different module lengths of 140 mm, 280 mm, 560 mm, 1 120 mm and 1 400 mm
- Color rendering index of > 80 and > 90
- Cut-out area for shadow-free wiring
- Smart Fixation (SF) with connector on the back

### PrevaLED® Linear G4

Product reference Product portfolio excerpt	Product code	Rated power	Color temperature	Total useful luminous flux	Luminous efficacy	Rated current	Construction length
<b>20 mm LED module, R<sub>a</sub> ≥ 80</b>							
PL-LIN-Z4 550-840 140X20	4052899984745	2.9 W	4000 K	564 lm	194 lm/W	87,5 mA	140 mm
PL-LIN-Z4 1100-840 280X20	4052899984844	5.8 W	4000 K	1128 lm	194 lm/W	175 mA	280 mm
PL-LIN-Z4 2000-840 280X20	4052899985049	11.7 W	4000 K	2235 lm	190 lm/W	300 mA	280 mm
PL-LIN-Z4 2200-840 560X20	4052899985223	11.6 W	4000 K	2257 lm	194 lm/W	350 mA	560 mm
PL-LIN-Z4 4000-840 560X20	4052899985421	23.5 W	4000 K	4469 lm	190 lm/W	600 mA	560 mm
PL-LIN-Z4 4400-840 1120X20	4052899985605	22.1 W	4000 K	4313 lm	195 lm/W	250 mA	1120 mm
PL-LIN-Z4 5500-840 1400X20	4052899985803	27.6 W	4000 K	5391 lm	195 lm/W	250 mA	1400 mm
<b>20 mm LED module SF R<sub>a</sub> ≥ 80, with connector on the back for Smart Fixation</b>							
PL-LIN-Z4 1100-840 280X20 SF	4052899984851	5.8 W	4000 K	1128 lm	194 lm/W	175 mA	280 mm
PL-LIN-Z4 2200-840 560X20 SF	4052899985230	11.6 W	4000 K	2257 lm	194 lm/W	350 mA	560 mm
<b>20 mm LED module, R<sub>a</sub> ≥ 90</b>							
PL-LIN-Z4 1100-940 280X20	4052899984905	8.6 W	4000 K	1188 lm	139 lm/W	250 mA	280 mm
PL-LIN-Z4 2000-940 280X20	4052899985094	16.1 W	4000 K	2202 lm	137 lm/W	400 mA	280 mm
PL-LIN-Z4 2200-940 560X20	4052899985285	17.1 W	4000 K	2375 lm	139 lm/W	500 mA	560 mm
PL-LIN-Z4 4000-940 560X20	4052899985476	32.2 W	4000 K	4404 lm	137 lm/W	800 mA	560 mm
<b>33 mm LED module, R<sub>a</sub> ≥ 80</b>							
PL-LIN-Z4 650-840 280X33	4052899985995	3.4 W	4000 K	638 lm	190 lm/W	100 mA	280 mm
PL-LIN-Z4 1100-840 280X33	4052899986060	5.8 W	4000 K	1128 lm	194 lm/W	175 mA	280 mm
PL-LIN-Z4 1300-840 560X33	4052899986152	6.7 W	4000 K	1277 lm	190 lm/W	200 mA	560 mm
PL-LIN-Z4 2200-840 560X33	4052899986220	11.6 W	4000 K	2257 lm	194 lm/W	350 mA	560 mm

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The LED modules are available in various light colors: 2 700 K, 3 000 K, 4 000 K, 5 000 K and 6 500 K.

Additional products of this range can be found in our online catalog: [www.osram.com/prevaled-linear](http://www.osram.com/prevaled-linear)

# LINEARlight FLEX®

In modern architectural lighting, LINEARlight FLEX® LED strips take on the task of presenting rooms with integrated lighting in an elegant way, for example in light coves, suspended ceilings or furniture systems. In outdoor applications, they create an attractive light ambience and highlight the contours of the building.



## LINEARlight FLEX®

- Flexible und cuttable LED strip
- Seamless light without shadowing
- Fine White Binning (3 SDCM)
- Dimmable (PWM)
- Self-adhesive back for easy mounting
- Flexessories® – dedicated accessories for FLEX® strips – for quick installation and homogeneous light distribution: mounting tracks, covers, mounting brackets and end caps
- Recommended for systems with OPTOTRONIC® LED drivers
- Lifetime of up to 60 000 h (L70B50)
- 5-year guarantee\*

## LINEARlight FLEX®

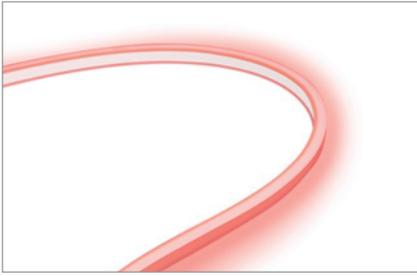
Product reference Product portfolio excerpt	Product code	Light color	Watts per meter	Length	Rated voltage
<b>Power (LF4000) R<sub>a</sub> ≥ 80, 3 SDCM Single Bin</b>					
LF4000-G3-827-03	4052899952867	White (2700 K)	28.9 W	3000 mm	24 V
LF4000-G3-840-03	4052899952881	White (4000 K)	28.9 W	3000 mm	24 V
LF4000-G3-865-03	4052899952904	White (6500 K)	28.9 W	3000 mm	24 V
<b>Power (LF3000) R<sub>a</sub> ≥ 80 bzw. ≥ 90, 3 SDCM Single Bin</b>					
LF3000-G3-840-03	4052899952959	White (4000 K)	21.8 W	3000 mm	24 V
LF3000-G3-865-03	4052899952973	White (6500 K)	21.8 W	3000 mm	24 V
LF3000-G3-927-03	4052899963948	White (2700 K)	28.9 W	3000 mm	24 V
LF3000-G3-940-03	4052899963962	White (4000 K)	26.5 W	3000 mm	24 V
<b>Tunable White (LFxxxx-TW) R<sub>a</sub> ≥ 80</b>					
Set the right color temperature of white light to simulate natural daylight.					
LF4000TW-G3-82765-02	4052899953260	Dynamic (2700-6500 K)	36.8 W	2100 mm	24 V
LF3000TW-G3-82765-03	4052899953277	Dynamic (2700-6500 K)	30 W	3000 mm	24 V
LF2000TW-G3-82765-04	4052899953284	Dynamic (2700-6500 K)	18.5 W	4500 mm	24 V
LF1200TW-G3-82765-09	4052899953161	Dynamic (2700-6500 K)	10.5 W	9000 mm	24 V
<b>Shortpitch (LF800S) R<sub>a</sub> ≥ 80</b>					
LF800S-G3-827-10	4052899953116	White (2700 K)	8.9 W	10000 mm	24 V
LF800S-G3-840-10	4052899953130	White (4000 K)	8.6 W	10000 mm	24 V
LF800S-G3-865-10	4052899953154	White (6500 K)	8.6 W	10000 mm	24 V
<b>Colormix (LF700RGBW, LF1300RGBW, LF05CA2, LF05CE)</b>					
LF700RGBW-G1-830-06	40528999525306	RGBW (622/534/468/3000 K)	10.1 W	6000 mm	24 V
LF1300RGBW-G1-830-04	40528999525146	RGBW (622/534/468/3000 K)	18.4 W	3900 mm	24 V
LF05CA2-RGB3	4008321851536	RGB (625/525/467)	18.0 W	4000 mm	24 V
LF05CE-RGB1	4008321593375	RGB (625/525/467)	6.5 W	6000 mm	24 V

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\* For conditions and detailed information, see [www.osram.com/guarantee](http://www.osram.com/guarantee).

Additional products of this range and corresponding accessories can be found in our online catalog: [www.osram.com/flex](http://www.osram.com/flex)

Find all Flexessories® at [www.osram.com/flex](http://www.osram.com/flex)



### LINEARlight FLEX® Diffuse

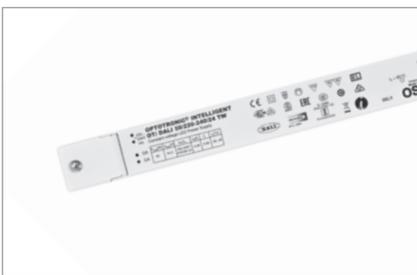
- Diffused light lines without visible spots
- IP67 protection with high-performance silicone
- Outdoor use possible: UV-resistant and salt-mist-proof
- Long operational length per single power feed possible (up to 6 m)
- Increased reliability due to single-piece reel-to-reel technology

## LINEARlight FLEX® Diffuse – the new, integration-ready homogeneous light

Product reference Product portfolio excerpt	Product code	Light color	Watts per meter	Length	Rated voltage
<b>Top bending (LFD400T, LFD400MT, LFD800T) <math>R_a \geq 80</math> or monochrome</b>					
LFD400T-G1-827-06	4052899953512	White (2700 K)	7.2 W	6000 mm	24 V
LFD400T-G1-840-06	4052899953536	White (4000 K)	7.2 W	6000 mm	24 V
LFD400T-G1-865-06	4052899953543	White (6500 K)	7.2 W	6000 mm	24 V
LFD800T-G1-827-06	4052899499768	White (2700 K)	11.5 W	6000 mm	24 V
LFD800T-G1-830-06	4052899499805	White (3000 K)	11.5 W	6000 mm	24 V
LFD800T-G1-840-06	4052899499843	White (4000 K)	11.5 W	6000 mm	24 V
LFD800T-G1-865-06	4052899499881	White (6500 K)	11.5 W	6000 mm	24 V
LFD400MT-G1-color-06, available colors: blue, green, red, yellow, orange – check website for detailed information					

<b>Side bending (LFD400S, LFD400MS, LFD600S) <math>R_a \geq 80</math> or monochrome</b>					
LFD400S-G1-827-06	4052899953611	White (2700 K)	7.2 W	6000 mm	24 V
LFD400S-G1-840-06	4052899953635	White (4000 K)	7.2 W	6000 mm	24 V
LFD400S-G1-865-06	4052899953642	White (6500 K)	7.2 W	6000 mm	24 V
LFD600S-G1-827-06	4052899499928	White (2700 K)	11.5 W	6000 mm	24 V
LFD600S-G1-830-06	4052899499966	White (3000 K)	11.5 W	6000 mm	24 V
LFD600S-G1-840-06	4052899500006	White (4000 K)	11.5 W	6000 mm	24 V
LFD600S-G1-865-06	4052899500044	White (6500 K)	11.5 W	6000 mm	24 V
LFD400MS-G1-color-06, available colors: blue, green, red, yellow, orange – check website for detailed information					

Additional products of this range and corresponding accessories can be found in our online catalog: [www.osram.com/flex](http://www.osram.com/flex)



### OSRAM OTi DALI 24V LED drivers 1-4 CH/Tunable White (DALI DT 8)

- Intelligent power adjustment thanks to Smart Power Supply
- Small cross section for mounting in coves and linear luminaires
- Flicker-minimized thanks to high PWM frequency
- Dimmable 0.1...100 % (PWM)
- Wide range of applications thanks to different power outputs (50/80/160 W and 75 W)
- Dedicated versions for Tunable White (TW) and multi-channel RGBW (up to 4 channels)

## OPTOTRONIC®

Product reference Product portfolio excerpt	Product code	Output power	Output voltage	Rated output current	ECG efficiency (max.)	Dimensions (L x W x H)	Ambient temperature range
OTi DALI 50/220-240/24 1-4 CH	4052899452916	50 W	24 V	2060 mA	92	345 x 32 x 22 mm	-20...+45 °C
OTi DALI 80/220-240/24 1-4 CH	4052899452893	80 W	24 V	3300 mA	93	345 x 32 x 22 mm	-20...+45 °C
OTi DALI 160/220-240/24 1-2 CH	4052899986305	160 W	24 V	6600 mA	93	300 x 50 x 35 mm	-20...+45 °C
OTi DALI 50/220-240/24 TW	4052899490772	50 W	24 V	2060 mA	92	346 x 32 x 22 mm	-20...+45 °C
OTi DALI 80/220-240/24 TW	4052899490758	80 W	24 V	3300 mA	93	346 x 32 x 22 mm	-20...+45 °C
OTi DALI 160/220-240/24 TW	4052899986312	160 W	24 V	6600 mA	93	300 x 50 x 35 mm	-20...+45 °C

Additional LED drivers with 24 V, also in IP67, can be found at [www.osram.com/ot24vdim](http://www.osram.com/ot24vdim).

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