



Light is everywhere
LINEARlight Flex BACKBONE

Light is OSRAM

OSRAM



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1 OSRAM Digital Systems

The light you need

Expand your lighting possibilities thanks to products from OSRAM Digital Systems! Our business develops power supplies and related light modules, software and connectable components for traditional and LED illumination. These are essential components for luminaires in professional lighting applications that enable smart lighting solutions and digitalization. OSRAM DS offers easy-to-install, highly efficient products and extensive services that enable customers to develop their business with maximum flexibility. With a strong market presence, a diversified network of lighting specialists and globally recognized certificates, OSRAM Digital Systems can always provide the right portfolio of user-friendly technologies and expert support. Production is based on a close cooperation with electronic manufacturing service (EMS) suppliers and original design manufacturers (ODMs).





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 DS comes into play. With a comprehensive portfolio for a wide variety of lighting applications, OSRAM DS 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!





2 Discovering new dimensions of flexibility: LINEARlight Flex BACKBONE

Designed for outdoor and indoor contour lighting, LINEARlight Flex BACKBONE highlights building outlines in sophisticated and stylish architectural projects, underlining details and shapes. This innovative design from OSRAM DS combines unprecedented flexibility with high-quality optical lenses for every single LED. Depending on your lighting task, you can choose between lenses with a beam angle of 30° (symmetrical) for subtle wallgrazing or 60° (asymmetrical) for powerful wallwashing effects.

Moreover, the fact that our innovative LINEARlight Flex BACKBONE is bendable sideways as well as upwards and downwards makes it stand out from the competition and enables you to discover completely new dimensions of 3D-flexibility and creative freedom.



LINEARlight Flex BACKBONE

Flexible LED modules with optical systems

Highlights:

- Outdoor or indoor contour/border light
- Integrated optics with dedicated lenses
- Optional accessories to ease installation
- Works perfectly with OPTOTRONIC LED drivers
- Flexible LED module, ideal for shaped surfaces
- Soldered cables on both sides

Features:

- Dimensions: 22 x 12 mm
- Length: 4.88 meters with soldered cables on each side (cuttable every 300 mm)
- 3 SDCM, CRI: 80, IP67
- 3 CCTs: 2700 / 3000 / 4000 K
- All products have a lifetime of 50,000 hours (L70B50)
- Two different optics: 30° symmetrical and 60° asymmetrical

Application areas:

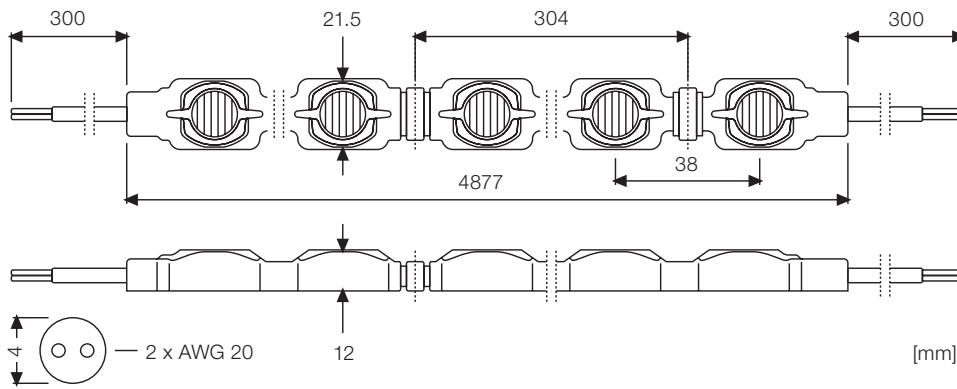
- Architectural
- Outdoor
- Façade
- Path
- Cove



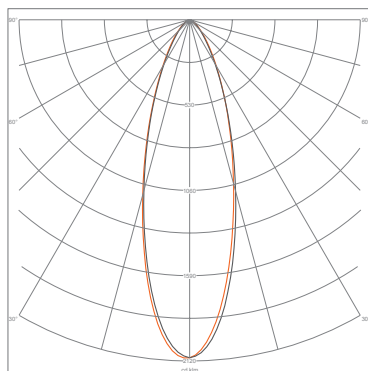
Technical data

Lowest bending radius = 175 mm

Number of LEDs per meter: = 26

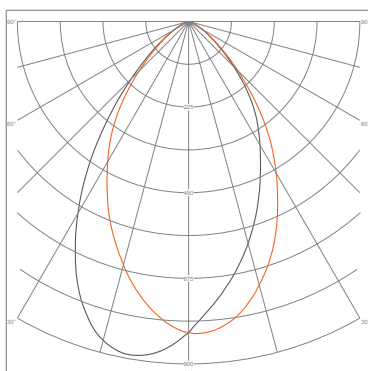
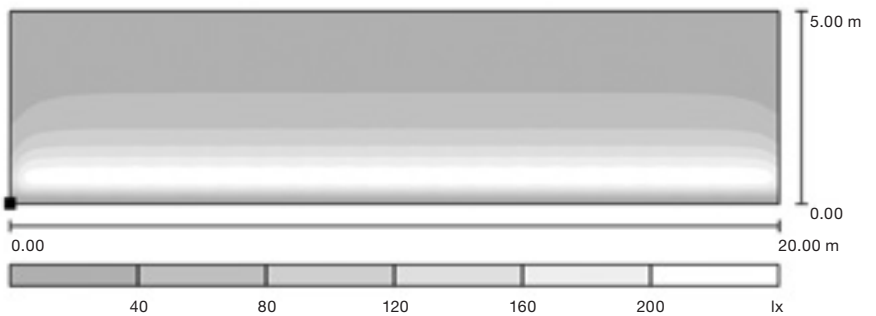


Light distribution curves



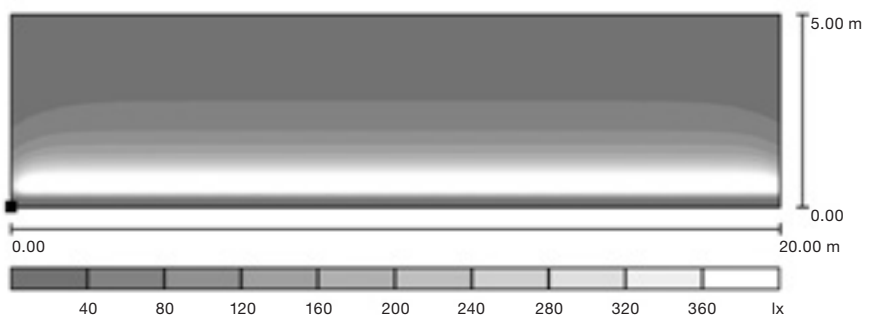
— C0-C180 cd/1000lm
— C90-C270

Optical lens 30° symmetrical



— C0-C180 cd/1000lm
— C90-C270

Optical lens 60° asymmetrical



Voltage and temperature data

Nominal voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation @ Tc point	-20...+70 °C
Storage temperature	-30...+70 °C
Ambient temperature IP67	-20...+40 °C
Ambient temperature IP65	-20...+50 °C

Technical data

Product name	Nominal CCT See color output data [K]	CRI	Optics	Lum. flux per meter [lm/m]	Power [W/m]	Lum. efficacy [lm/W]	Perform. temp. Tp [°C]	Length [m]
LFB1000-G1-827-30S-BK-05 L2	2700	>80	30°	1064	11.9	89	35	4.9
LFB1000-G1-830-30S-BK-05 L2	3000	>80	30°	1118	11.9	94	35	4.9
LFB1000-G1-840-30S-BK-05 L2	4000	>80	30°	1184	11.9	100	35	4.9
LFB1000-G1-827-60A-BK-05 L2	2700	>80	60°	1294	11.9	109	35	4.9
LFB1000-G1-830-60A-BK-05 L2	3000	>80	60°	1349	11.9	113	35	4.9
LFB1000-G1-840-60A-BK-05 L2	4000	>80	60°	1480	11.9	124	35	4.9

Order codes

Product name	Product code	EAN10 package dimensions (L x W x H) [mm]
LFB1000-G1-827-30S-BK-05 L2	4062172344753	390 x 390 x 45
LFB1000-G1-830-30S-BK-05 L2	4062172345194	390 x 390 x 45
LFB1000-G1-840-30S-BK-05 L2	4062172345255	390 x 390 x 45
LFB1000-G1-827-60A-BK-05 L2	4062172344777	390 x 390 x 45
LFB1000-G1-830-60A-BK-05 L2	4062172345217	390 x 390 x 45
LFB1000-G1-840-60A-BK-05 L2	4062172345279	390 x 390 x 45

Accessories

Product name	Product code	Product description	Package content
FX-LFBM-G1-BT-29H13.4-KIT20	4062172346368	Side mounting clips	40 x screws, 20 x clip kits
FX-LFBM-G1-BSL-29.2H28.5-KIT20	4062172346382	Top mounting clips	40 x screws, 20 x clip kits
FX-LFBM-G1-EC-KIT5	062172346344	End caps	5 x end caps, 1 x glue

3 Compatible LED drivers from OSRAM DS

Integrated complete solutions for any kind of installation

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 controls and accessories that form a perfectly matched system. OSRAM DS 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.

System components

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



OSRAM DS constant-voltage LED drivers

24 V output for indoor and outdoor applications

Outdoor

1. Non-dimmable

OPTOTRONIC 24 V Protect

20 W	40 W	60 W	100 W	130 W	250 W
24 V	24 V	24 V	24 V	24 V	24 V
IP66	IP66	IP66	IP66/67	IP66/IP67	IP66/67
OT 20/220... 240/24 P	OT 40/220... 240/24 P	OT 60/220... 240/24 P	OT 100/220... 240/24 P	OT 130/220... 240/24 P	OT 250/220... 240/24 P
4052899545922	4052899545946	4052899545960	4052899545984	4052899546004	4052899546028
178 x 43 x 25 mm	208 x 43 x 26 mm	208 x 43 x 26 mm	240 x 50 x 34 mm	220 x 63 x 37 mm	265 x 68 x 40 mm

OPTOTRONIC FIT 24 V Protect

80 W	150 W	200 W	300 W
24 V	24 V	24 V	24 V
IP66/67	IP66/67	IP66/67	IP66/67
OT FIT 80/220- 240/24 P	OT FIT 150/220- 240/24 P	OT FIT 200/220- 240/24 P	OT FIT 300/220- 240/24 P
4062172085465	4062172085601	4062172085649	4062172085687
170 x 53 x 31.5 mm	240 x 53 x 31.5 mm	215 x 53 x 31.5 mm	250 x 68 x 39.6 mm

2. Dimmable

OPTOTRONIC intelligent DALI 24 V 1-4 CH

100 W	210 W
24 V	24 V
IP66/67	IP66/67
1-4 CH	1-4 CH
OTi DALI 100/220- 240/24 1-4 CH P	OTi DALI 210/220- 240/24 1-4 CH
4062172119191	4062172032087
237 x 69 x 37 mm	330 x 69 x 37 mm

OPTOTRONIC 24 V Protect 1-10 V DIM

20 W	40 W	60 W	100 W	130 W	250 W
24 V	24 V	24 V	24 V	24 V	24 V
IP66	IP66	IP66	IP66/67	IP66/IP67	IP66/67
OT 20/220... 240/24 DIM P	OT 40/220... 240/24 DIM P	OT 60/220... 240/24 DIM P	OT 100/220... 240/24 DIM P	OT 130/220... 240/24 DIM P	OT 250/220... 240/24 DIM P
4052899545809	4052899545823	4052899545847	4052899545861	4052899545885	4052899545908
178 x 43 x 25 mm	208 x 43 x 26 mm	208 x 43 x 26 mm	240 x 50 x 34 mm	220 x 63 x 37 mm	265 x 68 x 40 mm

Indoor

1. Non-dimmable

OPTOTRONIC 24 V SLIM

30 W	60 W	100 W	160 W	250 W
24 V	24 V	24 V	24 V	24 V
IP20	IP20	IP20	IP20	IP20
OT SLIM 30/220-240/24	OT SLIM 60/220-240/24	OT SLIM 100/220-240/24	OT SLIM 160/220-240/24	OT SLIM 250/220-240/24
4062172135733	4062172135856	4062172135870	4062172135894	4062172135917
270 x 30 x 17.5 mm	338 x 30 x 17.5 mm	374 x 30 x 18.5 mm	404 x 30 x 21.5 mm	343 x 60 x 31 mm

2. Dimmable

Phase-cut dimming

36 W	75 W	150 W
24 V	24 V	24 V
IP20	IP20	IP20
OT FIT 36/220-240/24 PC	OT FIT 75/220-240/24 PC	OT FIT 150/220-240/24 PC
4062172237390	4062172237413	4062172237642
103 x 67 x 29.5 mm	110 x 76 x 30 mm	170 x 76 x 30 mm

**Bluetooth®
-Casambi***

80 W
24 V
IP20
OTI BLE 80/220...240/24 1...4 CH
4062172046558
346 x 32 x 22 mm

OPTOTRONIC intelligent DALI 24 V

50 W	80 W	160 W	30 W	50 W	80 W	160 W
24 V	24 V	24 V	24 V	24 V	24 V	24 V
IP20	IP20	IP20	IP20	IP20	IP20	IP20
4 CH	4 CH	2 CH	1 CH	1 CH	1 CH	1 CH
DT6/8	DT6/8	DT6/8				
OTi DALI 50/220-240/24 4CHDT6/8	OTi DALI 80/220-240/24 4CHDT6/8	OTi DALI 160/220-240/24 2CHDT6/8	OTi DALI 30/220-240/24 1CH	OTi DALI 50/220-240/24 1CH	OTi DALI 80/220-240/24 1CH	OTi DALI 160/220-240/24 1CH
4062172177900	4062172177924	4062172177948	Coming soon!	4062172177962	4062172177986	4062172178006
346 x 32 x 22 mm	346 x 32 x 22 mm	300 x 50 x 35 mm	103 x 67 x 29.5 mm	346 x 32 x 22 mm	346 x 32 x 22 mm	300 x 50 x 35 mm

Dimming devices from OSRAM DS

DALI	Bluetooth	DMX	1-10 V
240 W	240 W	182 W	120 W
12-48 V	12-24 V	12-24 V	10-24 V
IP20	IP20	IP20	IP20
1-4 CH	1-4 CH	1-4 CH	1-4 CH
OTi DALI DIM 1-4CH D	OT BLE DIM	OT DMX RGBW DIM	OT DIM
4062172166010	4052899557833	4052899557949	4050300943459
181 x 42 x 20 mm	172 x 42 x 20 mm	172 x 42 x 20 mm	172 x 42 x 20 mm

*Download Casambi app from App store or Google play. For the correct functioning of the Casambi app refer to the Casambi website: <http://www.casambi.com>. The Casambi App is provided to you by Casambi. OSRAM shall have no liability for the Casambi app and does not make any representations, express or implied, about the availability and/or performance of the Casambi app. The Casambi cloud services are provided to you by Casambi. OSRAM shall have no liability for the Casambi cloud services and does not make any representations, express or implied, about the availability and/or performance of the Casambi cloud services. OSRAM shall have no liability for and does not make any representations, express or implied, about the connectivity of Casambi ready products of OSRAM with any other Casambi ready products.

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