PRODUCT DATASHEET
LFP1200 -G3-830-09

LINEARlight FLEX® Protect POWER 1200 | LED modules for professional and industrial applications



Areas of application

- Architectural integration
- Border lighting
- General lighting
- Façade accent lighting
- Object integration
- Organically shaped luminaires
- Path and contour marking
- Signage applications

Product benefits

- Extra strong self-adhesive backside for easy mounting
- Extra-long lifetime – 50,000 hours (L70B50)

Product features

- High brightness linear LED light sources available in 1200 lumens per meter up to 3000 lumens per meter (365 lumens per feet to 915 lumens per feet)
- IP67 protected modules and connectors for outdoor operation
- Flexible and field cuttable every 100mm (3.94") to support design freedom
- Long operational length per single power feed possible
- Each reel is shipped with a pre-installed IP67 input connector
- Optimally paired with OPTOTRONIC 24V power supplies
- Increased reliability due to single piece reel-to-reel technology



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- Dimmable with PWM technology
- Module can be bent to conform to curved surfaces with a radius as tight as 1.9" (50 mm)

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TECHNICAL DATA

Electrical data

Nominal wattage	95.40 W
Construction wattage	95.40 W
Nominal wattage per meter	10.6 W
Nominal voltage	24 V
Input voltage range	23…24 V
Reverse Voltage	25 V
Type of current	DC
Nominal current	3.96 A

Photometrical data

Total useful luminous flux [PICOS]	10800 lm
Luminous efficacy	113 lm/W
Luminous flux	10800 lm
Luminous flux per meter	1200 lm
Color temperature	3000 K
Color rendering index Ra	> 80
Light color LED	White
Light color (designation)	3000 K
Standard deviation of color matching	≤4 sdcm
Lumen main.fact.at end of nom.life time	0.70

Light technical data

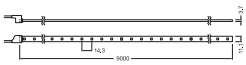
Beam angle	120 °
Rated beam angle (half peak value)	120.00 °
Starting time	< 0.5 s
Warm-up time (60 %)	0.00 s

LED MODULE INFORMATION

Number of LEDs per meter	70
Number of LEDs per module	630
Number of LEDs per smallest unit	7

Dimensions & Weight

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Length	9000 mm
Length – smallest unit	100 mm
Cable length	500,00 mm
Width	11.00 mm
Height	4.50 mm
Cable cross-section, input side	0.34 mm²
Conductor cross section	0.34 mm²
LED pitch	14.3 mm
Product weight	523.00 g

Colors & materials

Cover material	Silicone

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C [1)]
Maximum temperature at tc test point	70 °C
Temperature range in operation	-20…70 °C [2)]
Performance temp. acc. to IEC 62717	45 °C [3)]

1) Rated ambient temp. 25°C / Providing that temperature at Tc point is below max value during operation / Temperature ramping for environmental testing acc. to IEC 62717, 1K/min

2) Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

3) Tp rated. Tp point coincides with Tc point - marked on device

Lifespan

Nominal lamp life time	60000 h
Number of switching cycles	›15000

Additional product data

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Product remark	Modules perfectly matched to OSRAM OPTOTRONIC® LED drivers (see relevant table) / For current photometric data and important safety, installation and application information, see www.osram.com/led-systems. / All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Capabilities

Dimmable	Yes
Dimming interface	PWM
Type of installation	Surface mounting
Lowest bending radius	50 mm
Self-adhesive	Yes

Certificates & Standards

Standards	CE; ENEC 10 VDE / EAC / UL Recognized component according UL 8750
Type of protection	IP67
Energy consumption	105.00 kWh/1000h
Energy class of contained light source	F

LOGISTICAL DATA

Temperature range at storage	-40...+85 °C

DOWNLOAD DATA

	Documents and certificates
PDF	User instruction
PDF	Declarations Of Conformity CE
PDF	Certificates

	Photometric and lighting design files
	IES file (IES)
	LDT file (Eulumdat)

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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899481664	Folding box 1	353 mm x 349 mm x 32 mm	675.00 g	3.94 dm^3
4052899481671	Shipping box 8	365 mm x 286 mm x 366 mm	7713.00 g	38.21 dm^3

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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