

PRODUCT DATASHEET LFP800S -G5-830-10 C

LINEARlight FLEX© Protect Uniformity | LED strips for professional and industrial applications



Product benefits

- Color uniformity better than 2 SDCM on the entire LED strip and between strips
- Light stability over time typically 1 SDCM, tested acc. to IEC 62717 @ 6,000 h
- LED lifetime acc.to IES LM-80 and IES TM-21 standards, and also internal OSRAM LAB tests
- Reliable photometric parameters according to IES LM-79, EN13032-4 and CIE S 025
- Accurate description of the color rendition of the light source acc. to IES TM-30-15
- Excellent robustness: single reel manufacturing technology (no solder joints on strip)
- Vibration-resistant for stationary installations acc. to IEC60068-2-6 and IEC60068-2-64
- Flicker and stroboscopic effect-free acc. to IEC TR 61547-1 and IEC TR 63158
- Tested by accredited Product Qualification Lab. ISO9001, ISO 17025, ACCREDIA, VDE
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back

Product features

- 24 V LED strips flexible and cuttable, 50 mm cut unit, with superior optically graded silicone encapsulation
- Available variants: 800 lm/m 1200 lm/m 2000 lm/m / CRI Ra: 95+ 90+ and 80+
- Up to 60,000 h L90/B10 with SDT technology, tested acc. to IEC 62717 on real LED strips



- Stable light flux over length: active constant current regulators (ICs), PWM safe
- Embedded automatic quick protection against accidental miswiring up to 25 V
- Fully PWM dimmable from zero up to 2.5 kHz, audible noise free, suitable for quiet places
- Excellent ESD protection of up to 8 kV in air or 4 kV in contact (acc. to IEC 61547)
- IP67 & IP65 with connector / IP66 & IP65 with optional flying leads
- Salt-mist atmosphere resistant (acc. to IEC 60068-2-52, highest severity)
- UV radiation resistant (acc. to ISO 4892-2) / Mixed flowing gas corrosion resistant (IEC 60068-2-60)
- Designed, engineered and manufactured and tested in Italy (ISO9001, ISO 17025, ACCREDIA, VDE)

TECHNICAL DATA

Electrical data

Nominal wattage	67.00 W
Construction wattage	67.00 W
Nominal wattage per meter	6.7 W
Nominal voltage	24 V
Input voltage range	23...25 V
Reverse Voltage	25 V
Type of current	DC
Nominal current	2792.000 mA

Photometrical data

Luminous efficacy	125 lm/W
Luminous flux per meter	840 lm
Color temperature	3000 K
Color rendering index Ra	> 80
Light color LED	White
Light color (designation)	White

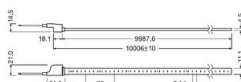
Light technical data

Beam angle	120 °
Rated beam angle (half peak value)	120.00 °
Starting time	< 0.5 s

LED MODULE INFORMATION

Number of LEDs per meter	140
Number of LEDs per smallest unit	7

Dimensions & Weight



Length	10000.00 mm
--------	-------------

Length – smallest unit	50,0 mm
Cable length	500.000
Width	11.10 mm
Height	4.50 mm
Cable cross-section, input side	0.325 mm ²
Conductor cross section	0.325 mm ²
Product weight	616.00 g

Colors & materials

Cover material	Silicone
----------------	----------

Temperatures & operating conditions

Ambient temperature range	-30...+50 °C ¹⁾
Maximum temperature at tc test point	-30...80 °C
Temperature range in operation	-30...80 °C ²⁾
Performance temp. acc. to IEC 62717	30 °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

Capabilities

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

Certificates & Standards

Standards	ENEC / CE / UL / EAC
Type of protection	IP67
Energy class of contained light source	F






LOGISTICAL DATA

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

EQUIPMENT / ACCESSORIES

- Flexessories: a complete set of aluminum channels with diffusers and lenses
- Connectors: quick-and-easy toolless installation with SLIMCONNECTsystem G2
- Drivers and dimmers: wide selection of OPTOTRONIC 24 V DALI, DMX and BLE
- Check for more detailed information the specification sheets in the download section

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	17168265 LINEARlight FLEX Protect Uniformity
	Certificates	LFP-Uniformity CB 181120
	Certificates	LFP-Uniformity ENEC 181120
Photometric and lighting design files		Document name
	IES file (IES)	LFP800S -G5-830-10 C
	LDT file (Eulumdat)	LFP800S-G5-830-10 C IES data 231020

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4062172170536	Folding box 1	353 mm x 349 mm x 32 mm	1026.00 g	3.94 dm ³
4062172170543	Shipping box 8	365 mm x 286 mm x 366 mm	9146.00 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.