

LFP800S -G5-824-10 C

LINEARlight FLEX Protect Uniformity | LED modules for professional and industrial applications



Product family 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 datasheet

Product family 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
- 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)
- IP66 including connector / IP67 excluding connector
- 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 voltage	24.0 V
Type of current	DC
Nominal wattage per meter	8.0 W
Rated wattage	80.00 W
Input voltage range	23...25 V
Accidental reverse input voltage protection up to	25 V

Photometrical data

Light color LED	White
Color rendering index Ra	80
Luminous flux per meter	870 lm
Total useful luminous flux	8700 lm
Luminous efficacy	109 lm/W
Standard deviation of color matching	≤3 sdcn
Light color (designation)	2500 K
Color temperature	2500 K

Light technical data

LED pitch	7.14 mm
Beam angle	120 °
Rated beam angle (half peak value)	120.00 °
Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s

LED module information

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

Dimensions & weight



Length	10000 mm
Length – smallest unit	50.0 mm
Width	11.1 mm
Height	4.50 mm
Cable length	500.0 mm
Product weight	616.00 g
Cable cross-section, input side	0.325 mm ²

Colors & materials

Cover material	Silicone
Body material	Silicone

Temperatures & operating conditions

Performance temp. acc. to IEC 62717	30 °C
Temperature range in operation at Tc point	-30...80 °C ¹⁾
Ambient temperature range	-30...+50 °C ²⁾
Temperature range at storage	-40...85 °C

¹⁾ Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

²⁾ 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

Lifespan

Rated lamp life time	60000 h
Nominal lamp life time	60000 h
Lumen main.fact.at end of nom.life time	0.70
Number of switching cycles	15000

Capabilities

Product datasheet

Dimmable	Yes
Lowest bending radius	50 mm
Self-adhesive	Yes
With connection set	Yes
With end piece	No

Certificates & standards

Energy efficiency class	A+
Energy consumption	88 kWh/1000h
Standards	CE/UL/ENEC/EAC
Type of protection	IP67







Logistical data

Commodity code	940540399000
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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

File	
	User instruction LINEARlight FLEX Protect Uniformity
	Product Datasheet LINEARlight FLEX Protect Uniformity IP Specification Sheet (EN)
	Brochures Light is freedom of design (EN)
	Declarations of conformity LFP Uniformity CE 4252305 231020
	Eulumdat LFP800S-G5-825-10 C EULUM 231020
	IES data LFP800S-G5-825-10 C IES data 231020

Logistical Data

Product datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172170499	LFP800S -G5-824-10 C	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	9146.00 g

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.