Product datasheet

LFP800S -G5-830-10 C

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



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
- 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 quite 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)

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

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Technical data

Electrical data

Nominal voltage	24.0 V
Type of current	DC
Nominal wattage per meter	6.7 W
Rated wattage	67.00 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	840 lm
Total useful luminous flux	8400 lm
Luminous efficacy	125 lm/W
Standard deviation of color matching	≤3 sdcm
Light color (designation)	3000 K
Color temperature	3000 K

Light technical data

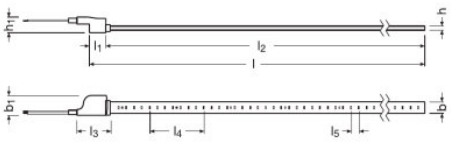
LED pitch	7.14 mm
Beam angle	120 °
Rated beam angle (half peak value)	120.00 °
Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s

LED module information

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

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Dimensions & weight



Length	10000 mm
Length – smallest unit	50.0 mm
Width	11.1 mm
Height	4.50 mm
Cable length	500.0
Product weight	616.00 g
Cable cross-section, input side	0.325 mm²

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

Additional product data

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Predecessor EAN	4052899575714
ID of contained light source	LS_TRV_285966

Capabilities

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

Certificates & standards

Energy consumption	74 kWh/1000h
Standards	CE/UL/ENEC/EAC
Type of protection	IP67
Energy efficiency class of the contained light source	F

Logistical data

Commodity code	940542319000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	17-02-2022
Primary Article Identifier	4062172170536
Candidate List Substance 1	No declarable substances contained
Declaration No. in SCIP database	No declarable substances contained

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

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Product datasheet

	Product Datasheet LINEARlight FLEX Protect Uniformity IP Specification Sheet (EN)
	Brochures Light is freedom of design (EN)
	Certificates LF(P)-Uniformity CB 181120
	Certificates LF(P)-Uniformity ENEC 181120
	Declarations of conformity LFP Uniformity CE 4252305 221121
	Eulumdat LFP800S-G5-830-10 C IES data 231020
	Eulumdat LFP800S-G5-830-10 C EULUM 231020
	IES data LFP800S-G5-830-10 C EULUM 231020
	IES data LFP800S-G5-830-10 C IES data 231020

Ecodesign regulation information:

- This product is considered to be a "containing product" in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015.
- Tolerances of the reported values, are according to LED Modules Performance standard IEC/EN 62717.
- In general, the replacement of the contained light sources without permanent damage to the product with the use of common available tools is possible in the final application when they can be dismantled from the installation environment and substituted for the necessary number of light sources restoring its full electrical/mechanical/thermal/optical functionality by means of a professional installer.In the contrary, and limited to the LINEARlight Flex Diffuse, LINEARlight Rigid Finesse, GINO LED Flex Diffuse and LUMINENT Milky product families, the contained light source is an integrated part of the containing product and its removal can only be done by causing a permanent damage to the containing product due to its tight mechanical, electrical, optical, thermal interaction and/or environmental protection with or from the containing product. Therefore, a replacement of the light source with the use of common available tools is not justified.
- Dismantling of light sources from containing products at end of life: Containing products with light sources which are scalable in length can be cut to the length of the contained light source and if applicable mechanically detached from protective and/or optical covers. Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer.Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172170536	LFP800S -G5-830-10 C	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm^3	9146.00 g

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Logistical Data

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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