LF2000S -G5-830-05 L1

LINEARlight FLEX Uniformity IP00 | – LED modules for professional and industrial applications



Product family features

- 24 V LED strips flexible and cuttable, 50 mm cut unit
- 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
- 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	14.6 W
Rated wattage	73.00 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	2000 lm
Total useful luminous flux	10000 lm
Luminous efficacy	137 lm/W
Standard deviation of color matching	≤3 sdcm
Light color (designation)	3000 K
Color temperature	3000 K

Light technical data

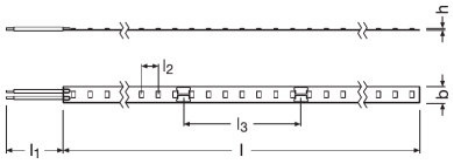
LED pitch	7.14 mm
Beam angle	120 °
Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s

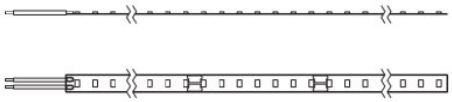
LED module information

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

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Dimensions & weight





Length	5000 mm
Length – smallest unit	50.0 mm
Cable length	500.0
Product weight	62.00 g
Cable cross-section, input side	0.5 mm²
Width	8.00 mm
Height	1.40 mm

Temperatures & operating conditions

Performance temp. acc. to IEC 62717	45 °C
Temperature range in operation at Tc point	-30…85 °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

ID of contained light source	LS_TRV_285951

Capabilities

Lowest bending radius	20 mm

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Certificates & standards

Energy consumption	81 kWh/1000h
Standards	CE/UL/ENEC/EAC
Type of protection	IP00
Energy efficiency class of the contained light source	E

Logistical data

Commodity code	85395100000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	16-06-2023
Primary Article Identifier	4062172170994
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	e79a8506-3d4d-42da-a3ee-6aa2df91303e

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 Uniformity
	Product Datasheet LINEARlight Flex Uniformity Specification Sheet (EN)
	Brochures Light is freedom of design (EN)
	Certificates LF(P)-Uniformity CB 181120
	Certificates VDE ENEC CERTIFICATE 40052516 160823

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	Certificates LF(P)Uniformity UL 241120
	Declarations of conformity LF Uniformity CE 4233484 221121
	Eulumdat LF2000S-G5-830-05 L1 EULUM 231020
	Eulumdat LF2000S-G5-830-05 L1 EULUM 231020
	IES data LF2000S-G5-830-05 L1 IES data 231020
	IES data LF2000S-G5-830-05 L1 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
4062172170994	LF2000S -G5-830-05 L1	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm^3	1429.00 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.

Accessories Optional

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Product description	Accessory name	Accessory code
LF2000S -G5-830-05 L1	CONN-FLEX -2P-050 KIT 10PCS	4062172179591
LF2000S -G5-830-05 L1	CONN-FLEX -2P-200 KIT 10PCS	4062172179614
LF2000S -G5-830-05 L1	CORNER-FLEX -4P-003 KIT 10PCS	4062172179638
LF2000S -G5-830-05 L1	CORNER-FLEX -4P-015 KIT 10PCS	4062172179676
LF2000S -G5-830-05 L1	LTS-SLIMTRACK -2000 KIT 5 PCS	4062172207300
LF2000S -G5-830-05 L1	FX-QMS-G1 -TU15H6-300	4052899448865
LF2000S -G5-830-05 L1	FX-QMS-G1 -TU15H6W3-300	4052899448889
LF2000S -G5-830-05 L1	FX-QMS-G1 -TU16H12W3-300	4052899448988
LF2000S -G5-830-05 L1	FX-QMS-G1 -TU16H12-300	4052899448964
LF2000S -G5-830-05 L1	FX -SC08-G2-CT4PJ	4052899464858
LF2000S -G5-830-05 L1	FX-QMS-G1 -TU16H12LS-300	4052899449046

Disclaimer

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

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