OSRAM

PRODUCT DATASHEET
LF1200S -G5-927-10 L2

LINEARlight Flex© 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
– 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)

TECHNICAL DATA

Electrical data

Nominal wattage	109.00 W
Construction wattage	109.00 W
Nominal wattage per meter	10.9 W
Nominal voltage	24 V
Input voltage range	23…25 V
Reverse Voltage	25 V
Type of current	DC
Nominal current	4542.000 mA

Photometrical data

Luminous efficacy	110 lm/W
Luminous flux per meter	1200 lm
Color temperature	2700 K
Color rendering index Ra	90
Light color LED	White
Light color (designation)	White
Standard deviation of color matching	≤3 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 %)	< 0.50 s

LED MODULE INFORMATION

Number of LEDs per meter	140

Dimensions & Weight

Length	10000.00 mm
Length – smallest unit	50,0 mm
Cable length	500.000
Width	8.00 mm
Height	1.40 mm

Cable cross-section, input side	0.5 mm²
Conductor cross section	0.5 mm²
Product weight	123.00 g

Temperatures & operating conditions

Ambient temperature range	-30…+50 °C [1]
Performance temp. acc. to IEC 62717	40 °C [2]

[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] 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	20 mm
Self-adhesive	Yes

Certificates & Standards

Standards	CE / ENEC / EAC / UL
Type of protection	IP00
Energy consumption	119.90 kWh/1000h
Energy efficiency class	A+
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
PDF	User instruction / safety instructions	16272371 LINEARlight FLEX Uniformity

	Photometric and lighting design files	Document name
IES	IES file (IES)	LF1200S -G5-927-10 L2
LDT	LDT file (Eulumdat)	LF1200S-G5-927-10 L2 IES data 231020

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4062172170611	Folding box 1	107 mm x 55 mm x 25 mm	1718.00 g	0.15 dm^3
4062172170628	Shipping box 8	241 mm x 195 mm x 205 mm	1917.00 g	9.63 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.