

## LF800S -G5-940-10 L2

LINEARlight FLEX 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

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### 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
- Fully PWM dimmable from zero up to 2.5 kHz, audible noise free, suitable for quiet places
- 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                         | 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             | 90       |
| Luminous flux per meter              | 800 lm   |
| Total useful luminous flux           | 8000 lm  |
| Luminous efficacy                    | 119 lm/W |
| Standard deviation of color matching | ≤3 sdcn  |
| Light color (designation)            | 4000 K   |
| Color temperature                    | 4000 K   |

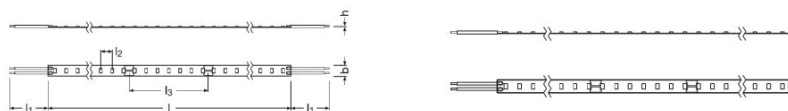
### Light technical data

|                                    |          |
|------------------------------------|----------|
| 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



|  |                     |
|--|---------------------|
| <b>Length</b>                          | 10000 mm            |
| <b>Length – smallest unit</b>          | 50.0 mm             |
| <b>Width</b>                           | 8.00 mm             |
| <b>Height</b>                          | 1.40 mm             |
| <b>Cable length</b>                    | 500.0 mm            |
| <b>Product weight</b>                  | 123.00 g            |
| <b>Cable cross-section, input side</b> | 0.5 mm <sup>2</sup> |

## Temperatures & operating conditions

|   |                            |
|---|----------------------------|
| <b>Performance temp. acc. to IEC 62717</b>        | 35 °C                      |
| <b>Temperature range in operation at Tc point</b> | -30...85 °C <sup>1)</sup>  |
| <b>Ambient temperature range</b>                  | -30...+50 °C <sup>2)</sup> |
| <b>Temperature range at storage</b>               | -40...85 °C                |

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

<sup>2)</sup> 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

|  |         |
|--|---------|
| <b>Rated lamp life time</b>                    | 60000 h |
| <b>Nominal lamp life time</b>                  | 60000 h |
| <b>Lumen main.fact.at end of nom.life time</b> | 0.70    |
| <b>Number of switching cycles</b>              | 15000   |

## Capabilities

|                              |       |
|------------------------------|-------|
| <b>Dimmable</b>              | Yes   |
| <b>Lowest bending radius</b> | 20 mm |
| <b>Self-adhesive</b>         | Yes   |
| <b>With connection set</b>   | No    |

## Product datasheet

|                |    |
|----------------|----|
| With end piece | No |
|----------------|----|

### Certificates & standards

|                         |                |
|-------------------------|----------------|
| Energy efficiency class | A++            |
| Energy consumption      | 74 kWh/1000h   |
| Standards               | CE/UL/ENEC/EAC |
| Type of protection      | IP00           |







### Logistical data

|                |              |
|----------------|--------------|
| Commodity code | 940540399000 |
|----------------|--------------|

### 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<br>LINEARlight FLEX Uniformity                           |
|  Product Datasheet<br>LINEARlight Flex Uniformity Specification Sheet (EN) |
|  Brochures<br>Light is freedom of design (EN)                              |
|  Declarations of conformity<br>LF Uniformity CE 4233484 290720             |
|  Eulumdat<br>LF800S-G5-940-10 L2 EULUM 231020                              |
|  IES data<br>LF800S-G5-940-10 L2 IES data 231020                           |

### Logistical Data

| Product code  | Product description  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|----------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4062172170079 | LF800S -G5-940-10 L2 | Shipping carton box<br>8     | 241 mm x 195 mm x 205 mm             | 9.63 dm <sup>3</sup> | 1917.00 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.

## Product datasheet

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### Disclaimer

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