

Light is OSRAM

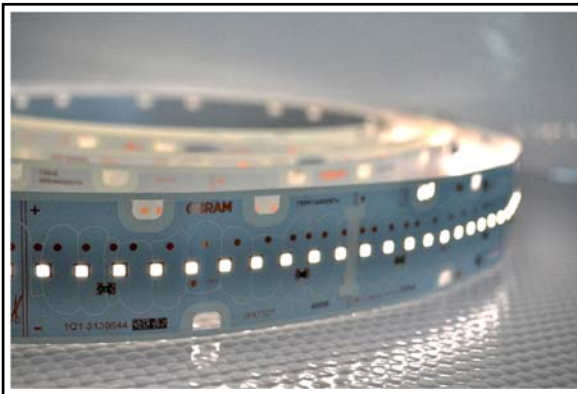


## PrevaLED® Flex Linear

**Pre-assembled connector  
every 1ft (281mm)**

### Dimension (l x w x h):

- 5620mm x 40mm x 5mm  
on a reel



### Application

- Office
- Industry
- Retail

### Features

- Module efficacy: up to 153 lm/W
- Luminous flux: 1100 lm at 281 mm length
- Dimensions (reel in total): 5620 mm x 40 mm
- Available with color temperature: 3000K, 3500K, 4000K or 5000K
- Color rendering index Ra: > 80
- Average lifetime (L80B10): 50,000 h (temperature at T<sub>p</sub> 45 °C)
- Geometry according to Zhaga Book 7 L28W4
- UL listed
- CE approval

### Benefits

- Flexible, ultra-thin substrate for customized luminaire design
- High flexibility due to cutting possibility each 93.3 mm
- Simplified storage due to module on reel
- Self-cooling, no additional heat sink required
- Minimum bending radius of 150 mm for use in curved luminaires
- SELV module for easy luminaire design
- Easy mounting and assembly

### Rated technical data per 281mm\*

| Product name                 | Reel | Flux (lm) | CCT (K) | CRI  | SDCM | U <sub>f</sub> (V) | I <sub>f</sub> (mA) | P (W) | Efficiency (lm/W) |
|------------------------------|------|-----------|---------|------|------|--------------------|---------------------|-------|-------------------|
| PFLZ1-LIN-1100-830-20x281x40 | 5,6m | 1100      | 3000    | > 80 | 3    | 29                 | 245                 | 7     | 153               |
| PFLZ1-LIN-1100-835-20x281x40 |      | 1100      | 3500    |      |      | 29                 | 245                 | 7     | 153               |
| PFLZ1-LIN-1100-840-20x281x40 |      | 1100      | 4000    |      |      | 29                 | 245                 | 7     | 153               |
| PFLZ1-LIN-1100-850-20x281x40 |      | 1100      | 5000    |      |      | 29                 | 224                 | 6.5   | 169               |

Typical values valid for T<sub>p</sub> = 65°C  
Energy Efficiency Class according 2012/874/EC: A++

Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.

\* Tolerance for optical and electrical data: +/-10%

## Maximum Values

| Product name                 | Reel | Flux (lm) | CCT (K) | CRI  | SDCM | Uf (V) | If (mA) | P (W) | Efficiency (lm/W) |
|------------------------------|------|-----------|---------|------|------|--------|---------|-------|-------------------|
| PFLZ1-LIN-1100-830-20x281x40 | 5,6m | 1560      | 3000    | > 80 | 3    | 29     | 360     | 11    | 142               |
| PFLZ1-LIN-1100-835-20x281x40 |      | 1560      | 3500    |      |      | 29     | 360     | 11    | 142               |
| PFLZ1-LIN-1100-840-20x281x40 |      | 1560      | 4000    |      |      | 29     | 360     | 11    | 142               |
| PFLZ1-LIN-1100-850-20x281x40 |      | 1700      | 5000    |      |      | 29     | 360     | 11    | 155               |

\*) Exceeding maximum ratings for operating and storage temperature will reduce expected lifetime or destroy the light engine. The temperature of the LED module must be measured at the  $t_c$ -point according to EN60598-1 in thermally settled conditions with a temperature sensor. For exact location of the  $T_c$  - point see drawing below

The current could be increased up to 360mA per 281mm without safety issues.

Optical and lifetime performances are guaranteed up to rated conditions.

## Optical parameter

| Product name                 | # LED | Pitch |
|------------------------------|-------|-------|
| PFLZ1-LIN-1100-8xx-20x281x40 | 30    | 9,3   |

## Lifetime data

| Product name                 | L80B10   |
|------------------------------|----------|
| PFLZ1-LIN-1100-8xx-20x281x40 | 50.000 h |

Valid for nominal current at  $T_p = 45^\circ\text{C}$

|                |              | LxBy  |       |       |       |       |       |    |
|----------------|--------------|-------|-------|-------|-------|-------|-------|----|
|                |              | x     | 70    |       | 80    |       | 90    |    |
|                |              | y     | 10    | 50    | 10    | 50    | 10    | 50 |
| <b>TP 45°C</b> | <b>225mA</b> | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 |    |
| <b>TP 60°C</b> | <b>225mA</b> | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 |    |
| <b>TP 75°C</b> | <b>225mA</b> | 50000 | 50000 | 43000 | 50000 | 23000 | 50000 |    |

### Disclaimer:

The calculation result fully relies on the validity of the input data. The calculation is not based on real experimental data, but on state of the art theoretical calculations acc. to the internal OSRAM procedure defined by Q-LAB REL. If any assumption of the data shown within this presentation turns out to be not valid at any point of time in the future, the calculation result will also have to be judged as not valid, anymore. The lifetime calculation generally assumes that all possible quality related problems of the components or processes were turned off during validation stage. Only accidental failures and lumen degradation failures are considered in the calculation.

## Temperature ratings

|  |                                |
|--|--------------------------------|
| T <sub>p</sub> (performance temperature)     | 45°C                           |
| T <sub>c</sub> max (maximum temperature)     | 75°C                           |
| T <sub>stg</sub> (storage temperature range) | -20°C < T <sub>a</sub> < +85°C |

## Cable

For connecting the module OSRAM recommend to use an AWG 20 (0.5mm<sup>2</sup>) solid wire cable, max diameter for cable inclusive insulation ~2(+/-0,05)mm.

## Cutting resolution

There are a poke in style connectors every 281mm. Power can be applied to any connection along the module length. i.e. end or middle. 18 AWG solid core wire is preferred for connections to driver. Cutting points are clearly marked every 93mm on each module. Cutting can start after the first 281mm is used.



## Modularity

Max operating length:

- 1.405m (5x281mm LED modules) if supplied from one end
- 2.248m (8x281mm LED modules) if supplied from the middle

### OT FIT CS (triple current driver – SELV)

PrevaLED Flex Linear designed to be operated by OT FIT drivers in parallel connection\*. Current setting via cable bridge on primary side.

### OTi DALI (wide window driver – SELV)

PrevaLED Flex Linear is designed to be operated by OTi DALI drivers in parallel connection\*. Current setting via Tuner4Tronic software and DALI magic or LEDset 2 interface.

| # of 93 mm pieces | 3000K<br><br>[mA] | 3500K<br>4000K<br>5000K<br><br>[mA] | OT FIT CS L                    |                           |                           | OTi DALI                    |                    |                    |
|-------------------|-------------------|-------------------------------------|--------------------------------|---------------------------|---------------------------|-----------------------------|--------------------|--------------------|
|                   |                   |                                     | (triple current driver – SELV) |                           |                           | (wide window driver – SELV) |                    |                    |
|                   |                   |                                     | OT FIT<br>35 700               | OT FIT<br>50 1A0          | OT FIT<br>80 1A6          | OTi DALI<br>35 0A7          | OTi DALI<br>50 1A0 | OTi DALI<br>80 2A1 |
|                   |                   |                                     | 0,5A /<br>0,6A /<br>0,7A       | 0,8A /<br>0,93A /<br>1,0A | 1,2A /<br>1,4A /<br>1,55A | 0,2A – 0,7A                 | 0,6A - 1,4A        | 1,0A - 2,1A        |
| 3                 | 245               | 224                                 |                                |                           |                           |                             |                    |                    |
| 4                 | 327               | 299                                 |                                |                           |                           |                             |                    |                    |
| 5                 | 408               | 373                                 |                                |                           |                           |                             |                    |                    |
| 6                 | 490               | 448                                 |                                |                           |                           |                             |                    |                    |
| 7                 | 572               | 523                                 |                                |                           |                           |                             |                    |                    |
| 8                 | 653               | 597                                 |                                |                           |                           |                             |                    |                    |
| 9                 | 735               | 672                                 |                                |                           |                           |                             |                    |                    |
| 10                | 817               | 747                                 |                                |                           |                           |                             |                    |                    |
| 11                | 898               | 821                                 |                                |                           |                           |                             |                    |                    |
| 12                | 980               | 896                                 |                                |                           |                           |                             |                    |                    |
| 13                | 1062              | 971                                 |                                |                           |                           |                             |                    |                    |
| 14                | 1143              | 1045                                |                                |                           |                           |                             |                    |                    |
| 15                | 1225              | 1120                                |                                |                           |                           |                             |                    |                    |
| 30                | 2450              | 2240                                |                                |                           |                           |                             |                    |                    |

## Ordering Codes

### Ordering codes PrevaLED Flex Linear 5.6m (introduction phase)

| Product name                 | Length | EAN           | SU    | Logistic      |
|------------------------------|--------|---------------|-------|---------------|
| PFLZ1-LIN-1100-830-20X281X40 | 5,6m   | 4052899938137 | 8 x 1 | Make to order |
| PFLZ1-LIN-1100-835-20X281X40 | 5,6m   | 4052899938151 | 8 x 1 | Make to order |
| PFLZ1-LIN-1100-840-20X281X40 | 5,6m   | 4052899938175 | 8 x 1 | Make to order |
| PFLZ1-LIN-1100-850-20X281X40 | 5,6m   | 4052899318229 | 8 x 1 | Make to order |

### Ordering codes PrevaLED Flex Linear 28,1m

| Product name                  | Length | EAN           | SU    | Logistic    |
|-------------------------------|--------|---------------|-------|-------------|
| PFLZ1-LIN-1100-830-100X281X40 | 28,1m  | 4052899938144 | 6 x 1 | Spring 2016 |
| PFLZ1-LIN-1100-835-100X281X40 | 28,1m  | 4052899938168 | 6 x 1 | Spring 2016 |
| PFLZ1-LIN-1100-840-100X281X40 | 28,1m  | 4052899938182 | 6 x 1 | Spring 2016 |
| PFLZ1-LIN-1100-850-100X281X40 | 28,1m  | 4052899318243 | 6 x 1 | Spring 2016 |

\*) EAN: Ordering number per single PRODUCT    \*\*) S-Unit: products per shipping unit

Note: Typical performance data are subject to change without any further notice, particularly as LED technology evolves.

## Safety Information

- The LED module itself and all its components must not be mechanically stressed.
- Installation of LED modules (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- Pay attention to standard ESD precautions when installing the module.
- Photobiological safety according to IEC 62471, risk group RG1
- Max. Voltage U-OUT = 60V for operation on SELV LED controlgear.

## Sales and Technical Support

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Sales and technical support is given by the  
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On our world wide homepage all OSRAM  
subsidiaries are listed with complete address and  
phone numbers.

Note: Typical performance data are subject to change without any further notice, particularly as LED technology evolves.

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