

## PRODUCT DATASHEET LFP1200 -G3-840-09

LINEARlight FLEX® Protect POWER 1200 | LED modules for professional and industrial applications



### Areas of application

- Architectural integration
- Border lighting
- General lighting
- Façade accent lighting
- Object integration
- Organically shaped luminaires
- Path and contour marking
- Signage applications

### Product benefits

- Extra strong self-adhesive backside for easy mounting
- Extra-long lifetime – 50,000 hours (L70B50)

### Product features

- High brightness linear LED light sources available in 1200 lumens per meter up to 3000 lumens per meter (365 lumens per foot to 915 lumens per foot)
- IP67 protected modules and connectors for outdoor operation
- Flexible and field cuttable every 100mm (3.94") to support design freedom
- Long operational length per single power feed possible
- Each reel is shipped with a pre-installed IP67 input connector
- Optimally paired with OPTOTRONIC 24V power supplies
- Increased reliability due to single piece reel-to-reel technology



- Dimmable with PWM technology
- Module can be bent to conform to curved surfaces with a radius as tight as 1.9" (50 mm)

## TECHNICAL DATA

### Electrical data

|                           |             |
|---------------------------|-------------|
| Nominal wattage           | 80.10 W     |
| Construction wattage      | 80.10 W     |
| Nominal wattage per meter | 8.9 W       |
| Nominal voltage           | 24 V        |
| Input voltage range       | 23...24 V   |
| Reverse Voltage           | 25 V        |
| Type of current           | DC          |
| Nominal current           | 3300.000 mA |

### Photometrical data

|                                         |          |
|-----------------------------------------|----------|
| Total useful luminous flux [PICOS]      | 10800 lm |
| Luminous efficacy                       | 135 lm/W |
| Luminous flux                           | 10800 lm |
| Luminous flux per meter                 | 1200 lm  |
| Color temperature                       | 4000 K   |
| Color rendering index Ra                | > 80     |
| Light color LED                         | White    |
| Light color (designation)               | White    |
| Standard deviation of color matching    | ≤4 sdcm  |
| Lumen main.fact.at end of nom.life time | 0.70     |

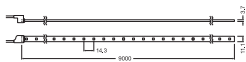
### Light technical data

|                                    |          |
|------------------------------------|----------|
| Beam angle                         | 120 °    |
| Rated beam angle (half peak value) | 120.00 ° |
| Starting time                      | < 0.5 s  |
| Warm-up time (60 %)                | 0.00 s   |

### LED MODULE INFORMATION

|                                  |     |
|----------------------------------|-----|
| Number of LEDs per meter         | 70  |
| Number of LEDs per module        | 630 |
| Number of LEDs per smallest unit | 7   |

### Dimensions & Weight



|                                 |           |
|---------------------------------|-----------|
| Length                          | 9000 mm   |
| Length – smallest unit          | 100 mm    |
| Cable length                    | 500,00 mm |
| Width                           | 11.00 mm  |
| Height                          | 4.50 mm   |
| Cable cross-section, input side | 0.34 mm²  |
| Conductor cross section         | 0.34 mm²  |
| LED pitch                       | 14.3 mm   |
| Product weight                  | 523.00 g  |

Colors & materials

|                |          |
|----------------|----------|
| Cover material | Silicone |
|----------------|----------|

Temperatures & operating conditions

|                                      |                            |
|--------------------------------------|----------------------------|
| Ambient temperature range            | -20...+50 °C <sup>1)</sup> |
| Maximum temperature at tc test point | 70 °C                      |
| Temperature range in operation       | -20...70 °C <sup>2)</sup>  |
| Performance temp. acc. to IEC 62717  | 40 °C <sup>3)</sup>        |

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) Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

3) Tp rated. Tp point coincides with Tc point - marked on device

Lifespan

|                            |         |
|----------------------------|---------|
| Nominal lamp life time     | 60000 h |
| Number of switching cycles | >15000  |

Additional product data

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product remark | Modules perfectly matched to OSRAM OPTOTRONIC® LED drivers (see relevant table) / For current photometric data and important safety, installation and application information, see <a href="http://www.osram.com/led-systems">www.osram.com/led-systems</a> . / All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Capabilities

|                       |                  |
|-----------------------|------------------|
| Dimmable              | Yes              |
| Dimming interface     | PWM              |
| Type of installation  | Surface mounting |
| Lowest bending radius | 50 mm            |
| Self-adhesive         | Yes              |

### Certificates & Standards

|                                        |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| Standards                              | CE; ENEC 10 VDE / EAC / UL Recognized component according UL 8750 |
| Type of protection                     | IP67                                                              |
| Energy consumption                     | 88.00 kWh/1000h                                                   |
| Energy class of contained Light source | E                                                                 |

### LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...+85 °C |
|------------------------------|--------------|

### DOWNLOAD DATA

| Documents and certificates                                                         |                               |
|------------------------------------------------------------------------------------|-------------------------------|
|  | User instruction              |
|  | Declarations Of Conformity CE |
|  | Certificates                  |
| Photometric and lighting design files                                              |                               |
|  | IES file (IES)                |
|  | LDT file (Eulumdat)           |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4052899481688 | Folding box<br>1             | 353 mm x 349 mm x 32 mm              | 675.00 g     | 3.94 dm <sup>3</sup>  |
| 4052899481695 | Shipping box<br>8            | 365 mm x 286 mm x 366 mm             | 8402.00 g    | 38.21 dm <sup>3</sup> |

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.