

# PRODUCT DATASHEET

## LS PFM -1000/RGBW/840/5

LED STRIP PERFORMANCE-1000 RGBW | High performance RGBW LED strips with 1000 lm/m for high requirements



### Areas of application

- General illumination
- Architecture lighting
- Dynamic light as an architectural effect in public zones
- Intensive color effects for special moods
- Cove lighting
- Hotels and Offices
- Residential interiors

### Product benefits

- Great scope of design options due to long and flexible RGBW LED strips
- Easy installation, no tools required for connection
- Easy mounting thanks to self-adhesive tape
- Maximum flexibility due to large range of accessories
- Simple connection thanks to integrated cables on both sides
- Good white light quality thanks to dedicated white LEDs

### Product features

- Flexible and splittable LED strip with white Chip and Multichip RGB LEDs
- Smallest cuttable unit: 100 mm
- Lifetime (L70/B50): up to 40,000 h at  $T_c \text{ max.} \leq 85^\circ\text{C}$
- Dimmable by pulse width modulation (PWM)



## TECHNICAL DATA

### Electrical data

|                           |                         |
|---------------------------|-------------------------|
| Nominal wattage           | 98.00 W <sup>1)</sup>   |
| Construction wattage      | 98.00 W                 |
| Nominal wattage per meter | 20 W <sup>2)</sup>      |
| Nominal voltage           | 24 V <sup>3)</sup>      |
| Input voltage range       | 23...25 V <sup>3)</sup> |
| Type of current           | DC                      |
| Nominal current           | 4080 mA                 |

1) 48W for white, 14.4 W for Red, 16.1W for Green, 16.1W for Blue

2) 3.3W per meter for Red, 3.3W per meter for Green, 3.3W per meter for Blue, 9.6W per meter for White

3)  $V_{DC}$

### Photometrical data

|                                      |                       |
|--------------------------------------|-----------------------|
| Luminous efficacy                    | 109 lm/W              |
| Luminous flux                        | 6655 lm <sup>1)</sup> |
| Luminous flux per meter              | 1235 lm               |
| Luminous flux per module chain       | 6655 lm               |
| Luminous flux per meter - Red        | 100 lm/m              |
| Luminous flux per meter - Green      | 260 lm/m              |
| Luminous flux per meter - Blue       | 65 lm/m               |
| Luminous flux per meter - RGB        | 395 lm/m              |
| Color temperature                    | 4000 K                |
| Color rendering index Ra             | > 80                  |
| Light color LED                      | RGB, white            |
| Light color (designation)            | RGBW / Daylight       |
| Standard deviation of color matching | <4 sdcn               |

1) 4790lm for 2700K, 4820lm for 3000K, 5130lm for 4000K, 5160lm for 6500K, 425lm for Red, 1255lm for Green, 315lm for Blue

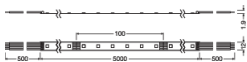
### Light technical data

|                                    |          |
|------------------------------------|----------|
| Beam angle                         | 120 °    |
| Rated beam angle (half peak value) | 120.00 ° |

## LED MODULE INFORMATION

|                                  |     |
|----------------------------------|-----|
| Number of LEDs per meter         | 120 |
| Number of LEDs per module        | 600 |
| Number of LEDs per smallest unit | 12  |

Dimensions & Weight



|                         |                     |
|-------------------------|---------------------|
| Length                  | 5000.00 mm          |
| Length – smallest unit  | 100 mm              |
| Cable length            | 500.000             |
| Width                   | 12.00 mm            |
| Height                  | 1.90 mm             |
| Prewired                | Yes                 |
| Conductor cross section | 0.5 mm <sup>2</sup> |
| LED pitch               | 16.67 mm            |
| Short pitch             | No                  |
| Product weight          | 188.00 g            |

Temperatures & operating conditions

|                                      |                            |
|--------------------------------------|----------------------------|
| Ambient temperature range            | -20...+55 °C <sup>1)</sup> |
| Maximum temperature at tc test point | 85 °C <sup>2)</sup>        |

- 1) Providing that temperature at Tc point is below max value during operation
- 2) Exceeding the maximum specified ratings can reduce expected life time or destroy the LED strip

Lifespan

|                        |         |
|------------------------|---------|
| Nominal lamp life time | 40000 h |
|------------------------|---------|

Capabilities

|                       |                   |
|-----------------------|-------------------|
| Dimmable              | Yes <sup>1)</sup> |
| Lowest bending radius | 30 mm             |
| Self-adhesive         | Yes               |

1) Dimmable with suitable drivers, see also [www.ledvance.com/dim](http://www.ledvance.com/dim)

Certificates & Standards

|                                          |                         |
|------------------------------------------|-------------------------|
| Approval marks – approval                | TUV / RoHS / CE / REACH |
| Protection class                         | III                     |
| Type of protection                       | IP00                    |
| Energy class of contained light source   | F                       |
| ID of contained light source             | AC38090                 |
| Salt mist resistance acc. IEC 60068-2-52 | No                      |
| UV resistance acc. IEC 60068-2-5         | No                      |

LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -35...+85 °C |
|------------------------------|--------------|

DOWNLOAD DATA

| Documents and certificates                                                         |                               |
|------------------------------------------------------------------------------------|-------------------------------|
|    | User instruction              |
|   | Addon Technical Information   |
|  | Declarations Of Conformity CE |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075436282 | Folding box<br>1             | 242 mm x 242 mm x 26 mm              | 379.00 g     | 1.52 dm <sup>3</sup>  |
| 4058075436299 | Shipping box<br>10           | 260 mm x 20 mm x 265 mm              | 4181.00 g    | 1.38 dm <sup>3</sup>  |
| 4058075436305 | Shipping box<br>40           | 540 mm x 280 mm x 555 mm             | 17731.00 g   | 83.92 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.