

# PRODUCT DATASHEET

## LS PFM -1000/RGBW/830/5/IP66

LED STRIP PERFORMANCE-1000 RGBW PROTECTED | High performance IP66 protected RGBW LED strips with 1000 lm/m for high requirements



### 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 cuttable 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)
- Type of protection: IP66
- Highly UV-resistant



– Salt mist proof

## TECHNICAL DATA

### Electrical data

|                           |                         |
|---------------------------|-------------------------|
| Nominal wattage           | 98.00 W <sup>1)</sup>   |
| Construction wattage      | 98.00 W                 |
| Nominal wattage per meter | 20.0 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                    | 98 lm/W               |
| Luminous flux                        | 5775 lm <sup>1)</sup> |
| Luminous flux per meter              | 1110 lm               |
| Luminous flux per module chain       | 6748 lm               |
| Luminous flux per meter - Red        | 90 lm/m               |
| Luminous flux per meter - Green      | 240 lm/m              |
| Luminous flux per meter - Blue       | 60 lm/m               |
| Luminous flux per meter - RGB        | 375 lm/m              |
| Color temperature                    | 3000 K                |
| Color rendering index Ra             | > 80                  |
| Light color LED                      | RGB, white            |
| Light color (designation)            | RGBW / Warm White     |
| Standard deviation of color matching | ·4 sdcM               |

1) 4380lm for 2700K, 4420lm for 3000K, 4670lm for 4000K, 4710lm for 6500K, 395lm for Red, 1145lm for Green, 290lm for Blue

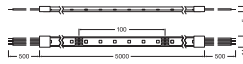
### Light technical data

|                                    |          |
|------------------------------------|----------|
| Beam angle                         | 120 °    |
| Rated beam angle (half peak value) | 110.00 ° |

## 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                   | 14.00 mm            |
| Height                  | 5.00 mm             |
| Prewired                | Yes                 |
| Conductor cross section | 0.5 mm <sup>2</sup> |
| LED pitch               | 16.67 mm            |
| Short pitch             | No                  |
| Product weight          | 501.00 g            |

### Colors & materials

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

### 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                       | IP66                    |
| Energy class of contained light source   | F                       |
| Salt mist resistance acc. IEC 60068-2-52 | Yes                     |
| UV resistance acc. IEC 60068-2-5         | Yes                     |

### LOGISTICAL DATA







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

### Accessories Mandatory

| Product image   | Product name                 | EAN           |
|---|------------------------------|---------------|
|   | DR-PFM -150/220-240/24/P     | 4058075239975 |
|  | DR-PFM -100/220-240/24/P     | 4058075239937 |
|  | DR DIM-PFM -100/220-240/24/P | 4058075240070 |
|  | DR DIM-PFM -250/220-240/24/P | 4058075240155 |
|  | DR-VAL -120/220-240/24       | 4058075240131 |
|  | DR-VAL -150/220-240/24       | 4058075240179 |




| Product image   | Product name                 | EAN           |
|---|------------------------------|---------------|
|  | DR DIM-PFM -150/220-240/24/P | 4058075240117 |
|  | DR-PFM -250/220-240/24/P     | 4058075240032 |


Accessories Optional

| Product image  | Product name              | EAN           |
|--|---------------------------|---------------|
|    | LS AY -PW02/UW/39X26/14/1 | 4058075278134 |
|    | LS AY -PW01/U/26X8/14/2   | 4058075401440 |
|  | LS AY PFM -CP/P5/500/P    | 4058075451179 |
|  | LS AY -PW03/U/26X26/14/1  | 4058075278165 |
|  | LS AY PFM -CSD/P5/P       | 4058075451209 |
|  | LS AY PFM -13/SMB         | 4058075451292 |
|  | LS AY -PW02/UW/39X26/14/2 | 4058075401471 |
|  | LS AY -PW03/U/26X26/14/2  | 4058075401501 |

| Product image  | Product name                | EAN           |
|--|-----------------------------|---------------|
|  | LS AY PFM -CSW/P5/50/P      | 4058075451230 |
|  | LS AY -PW01/U/26X8/14/1     | 4058075278103 |
|  | LS AY PFM -13/SE/P SIL-SEAL | 4058075451261 |

DOWNLOAD DATA

| Documents and certificates  | Document name                   |
|---|---------------------------------|
|  User instruction / safety instructions | LED STRIP PERFORMANCE RGBW IP66 |
|  Legal information                      | LED STRIP RGBW IP66             |
|  Declarations of conformity             | LS SUP TW and LS PFM RGBW       |

| Tender texts  | Document name   |
|---|---|
|  Tender documents | LED STRIP PERFORMANCE 1000 RGBW PROTECTED 1000 RGBW 830 5 IP66-EN |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075436114 | Folding box<br>1             | 262 mm x 262 mm x 30 mm              | 741.00 g     | 2.06 dm <sup>3</sup>  |
| 4058075436121 | Shipping box<br>10           | 300 mm x 280 mm x 285 mm             | 7881.00 g    | 23.94 dm <sup>3</sup> |
| 4058075436138 | Shipping box<br>20           | 585 mm x 320 mm x 310 mm             | 14205.00 g   | 58.03 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.

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## DISCLAIMER

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