LEDVANCE

PRODUCT DATASHEET
LS PFM -1000/RGBW/830/5

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 max. ≤ 85°C
– Dimmable by pulse width modulation (PWM)

TECHNICAL DATA

Electrical data

Nominal wattage	98.00 W [1]
Construction wattage	98.00 W
Nominal wattage per meter	20 W [2]
Nominal voltage	24 V [3]
Input voltage range	23…25 V [3]
Type of current	DC
Nominal current	4080.000 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	103 lm/W
Luminous flux	6360 lm [1]
Luminous flux per meter	1185 lm
Luminous flux per module chain	6420 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	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] 4790lm for 2700K, 4820lm for 3000K, 5130lm for 4000K, 5160lm for 6500K, 425lm for Red, 1255lm for Green, 315lm for Blue
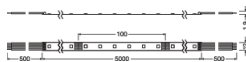
Light technical data

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 mm²
LED pitch	16.67 mm
Short pitch	No
Product weight	188.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+55 °C [1]
Maximum temperature at tc test point	85 °C [2]

[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 [1]
Lowest bending radius	30 mm
Self-adhesive	Yes

[1] Dimmable with suitable drivers, see also 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
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

DOWNLOAD DATA	
[PDF]	User instruction
[PDF]	Addon Technical Information
[PDF]	Declarations of conformity
[PDF]	Catalogs

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075436213	Shipping box 10	260 mm x 260 mm x 265 mm	4181.00 g	17.91 dm³
4058075436220	Shipping box 40	540 mm x 280 mm x 555 mm	17731.00 g	83.92 dm³

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.