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



PERFOR-
MANCE
CLASS

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

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TECHNICAL DATA

Electrical data

Nominal wattage	98.00 W [1)]
Construction wattage	98.00 W
Nominal wattage per meter	20.0 W [2)]
Nominal voltage	24 V [3)]
Input voltage range	23…25 V [3)]
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) VDC

Photometrical data

Luminous efficacy	109 lm/W
Luminous flux	6655 lm [1)]
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 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 °

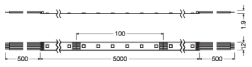
LED MODULE INFORMATION

Number of LEDs per meter	120
Number of LEDs per module	600

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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^2
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

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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

Required Accessories and Components

Product image	Product name	EAN
	LS AY PFM -13/SMB	4058075451292
	LS AY PFM -CSD/P5	4058075451117
	LS AY PFM -CSW/P5/50	4058075451148
	LS AY PFM -CP/P5/500	4058075451087

Accessories Optional

Product image	Product name	EAN
	LS AY -PW02/UW/39X26/14/2	4058075401471
	LS AY -PM05/U/17,5X14,5/10/2	4058075401778
	LS AY -PW02/UW/39X26/14/1	4058075278134

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Product image	Product name	EAN
	LS AY -PM05/U/17,5X14,5/10/1	4058075279278
	LS AY -PW01/U/26X8/14/1	4058075278103
	LS AY -PM06/E/18X18/12/2	4058075401808
	LS AY -PM04/UW/23X15,5/10/2	4058075401747
	LS AY -PF04/U/17X7/12/1	4058075278288
	LS AY -PM01/UW/21,5X12/10/2	4058075401655
	LS AY -PF03/UW/25X7/12/2	4058075401594
	LS AY -PW03/U/26X26/14/2	4058075401501
	LS AY -PW03/U/26X26/14/1	4058075278165
	LS AY -PF03/UW/25X7/12/1	4058075278257
	LS AY -PM06/E/18X18/12/1	4058075279308

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Product image	Product name	EAN
	LS AY -PM04/UW/23X15,5/10/1	4058075278400
	LS AY -PM01/UW/21,5X12/10/1	4058075278318
	LS AY -PW01/U/26X8/14/2	4058075401440
	LS AY -PF04/U/17X7/12/2	4058075401624
	LS AY -PW04/U/25.5X25.5/13/1	4099854681790
	LS AY -PW04/U/25.5X25.5/13/2	4099854681820

Safety advice

– All electrical connections must be made by a qualified person.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LED STRIP PERFORMANCE RGBW
PDF	Legal information	LED STRIP RGBW IP00
PDF	Declarations of conformity	LS SUP TW and LS PFM RGBW

	Tender texts	Document name
TXT	Tender documents	LED STRIP PERFORMANCE 1000 RGBW 1000 RGBW 840 5-EN

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LOGISTICAL DATA

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

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.

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