

# PRODUCT DATASHEET LS P 1000 RGBW 930 5 IP67

LED STRIP PERFORMANCE 1000 RGBW PROTECTED GEN 2 | High performance IP67 protected 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
- Suitable for indoor and outdoor applications (IP67)
- Hotels and Offices
- Residential interiors

## **Product benefits**

- Very good white light quality thanks to color rendering index Ra > 90 and dedicated white LEDs
- Great scope of design options due to long and flexible RGBW LED strips
- Easy mounting thanks to self-adhesive tape
- Simple connection thanks to integrated cables on both sides
- Maximum flexibility due to large range of accessories
- Easy installation, no tools required for connection

#### **Product features**

- Flexible and cuttable LED strip with white Chip and Multichip RGB LEDs
- Smallest cuttable unit: 83,30 mm
- Lifetime (L70/B50): up to 50,000 h at Ta: 55°C
- Dimmable by pulse width modulation (PWM)
- Highly UV-resistant
- Salt mist proof
- Type of protection: IP67

### **TECHNICAL DATA**

## Electrical data

Nominal wattage	106.00 W <sup>1)</sup>
Construction wattage	106.00 W
Nominal wattage per meter	21 W <sup>2)</sup>
Nominal voltage	24 V
Input voltage range	2325 V
Input voltage DC	24 V
Type of current	DC
Nominal current	4440.000 mA
Inrush current	0.03 A

<sup>1) 42</sup> W for White, 21.5 W for Red, 21.5W for Green, 21.5 W for Blue, 65.0 W for Red Green Blue

### Photometrical data

Luminous efficacy	119 lm/W
Luminous flux	7735 lm <sup>1)</sup>
Luminous flux per meter	1615 lm
Luminous flux per module chain	7735 lm
Luminous flux per meter - Red	150 lm/m
Luminous flux per meter - Green	490 lm/m
Luminous flux per meter - Blue	105 lm/m
Luminous flux per meter - RGB	700 lm/m
Color temperature	3000 K
Color rendering index Ra	> 90
Light color LED	RGB, white
Light color (designation)	RGBW / Warm White
Standard deviation of color matching	< 4 sdcm

<sup>1) 4620</sup> Im for 2700 K, 4785 Im for 3000 K, 5040 Im for 4000 K, 5040 Im for 6500 K, 690 Im for Red, 2385 Im for Green, 495 Im for Blue, 3445 Im for Red Green Blue

## Light technical data

Beam angle	115°
Rated beam angle (half peak value)	115.00 °

### LED MODULE INFORMATION

Number of LEDs per meter	168
Number of LEDs per module	840
Number of LEDs per smallest unit	14

<sup>2) 4.3</sup> W per meter for Red, 4.3 W per meter for Green, 4.3 W per meter for Blue, 8.3 W per meter for White. 12.8 W per meter for Red Green Blue

# Dimensions & Weight



Length	5060.00 mm
Length – smallest unit	83,33 mm
Cable length	500.000
Width	14.00 mm
Height	4.50 mm
Prewired	Yes
Wire preparation length, input side	5.00 mm
Wire preparation length, output side	5.00 mm
Conductor cross section	0.5 mm <sup>2</sup>
LED pitch	11.90 mm
Product weight	370.00 g

### Colors & materials

Product colo		White
Body materia	I	Polycarbonate (PC)
Cover materi	al	Silicone

# Temperatures & operating conditions

Ambient temperature range	-20+55 °C <sup>1)</sup>
Maximum temperature at tc test point	92 °C <sup>2)</sup>
Temperature range in operation	-20+55 °C
Permitted rel. humidity during operation	093 %

<sup>1)</sup> Providing that temperature at Tc point is below max value during operation

# Lifespan

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## Additional product data

Product remark	Available from December 2024
Mounting location	Ceiling / Wall / Floor / Pole

# Capabilities

<sup>2)</sup> Exceeding the maximum specified ratings can reduce expected life time or destroy the LED strip

Dimmable	Yes 1)
Overheating protection	No
Lowest bending radius	30,0 mm
Self-adhesive	Yes

<sup>1)</sup> Dimmable with suitable drivers, see also www.ledvance.com/dim

### Certificates & Standards

Approval marks – approval	TUV / CE / UKCA / EAC
Standards	Acc. to IEC 62471 / Acc. to IEC 60598-1 / Acc. to EN 60529 / Acc. to EN 62031 / Acc. to EN 55015 / Acc. to EN 61547
Protection class	III
Type of protection	IP67
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	-20+80 °C

## **Accessories Mandatory**

Product image	Product name	EAN
The second second	LS AY P CSW P5 50 P	4099854359088
	LS AY P CP P5 500 P	4099854358999
Arthur A	LS AY P 14 SMB	4099854358937
	LS AY P CSD P5 P	4099854359156

### ADDITIONAL PRODUCT INFORMATION

- All the technical parameters apply to the entire LED 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.
- All LED strips have a self-adhesive tape on the reverse side. LED strips can be attached to suitable materials, e.g. aluminum profiles. The surface of

the material must be free of grease, oil, silicone and dirt particles. The adhesive tape can be used only one time, if the LED strip will be removed from the mounting surface, there could be a damage of the LED strips and the mounting material. The surface temperature of the mounting material should be in the temperature range of 18°C...35°C. Complete adhesion takes up to 72 h.

- LED strips are designed for static installation. Vibrations, respective torsion and elongation/compression must be considered.
- Galvanic Insulation between LED strip and mounting surface must be ensured. This Insulation is needed especially in the area of connections or cut ends.
- In a wide temperature range operation field (e.g. outdoor installation) and a LED strip length with more than 2m suitable mounting surface is required. To avoid stress due to mismatch in expansion of the different materials, there should be an extra thicker adhesive tape between LED strip and mounting surface. Additionally, the LED strip should have enough space for thermal expansion at higher temperatures.
- Compensation due to chemical corrosion is excluded. A suitable protection against corrosive agents such as moisture, condensation etc. must be provided. Hydrogen sulfide (H2S) will cause an accelerated corrosion which leads to shortened lifetime or premature failure.
- Installation of the LED strip has to be done by a qualified electrician.

Documents and certificates

- Handle with care to avoid mechanical product damage
- If the maximum operating and storage temperature ratings will be exceeded, the expected lifetime will be reduced or even the LED strip will be
  destroyed. It is not allowed to operate the LED strip over the specified Tc temperature (acc. EN 60598-1 under steady state conditions)
- It is not allowed to exceed the maximum operation voltage. This could cause a hazardous overload and will destroy the LED strip.
- The applicable electrical and safety standards have to be maintained for a LED strip installations
- In installations of LED strips ESD safety must be taken in account. Adequate precautions during installation and operation for the products are required.
- To avoid a damage of the LED strip, the unmounted LED strip should be handelt and stored only in the original LEDVANCE packaging (wheel / ESD bag). Repacking is not allowed. Cutted IP 6x LED strips can be stored only with mounted endcaps.

Document name

#### **DOWNLOAD DATA**

PDF	User instruction / safety instructions	LS P-1000/RGBW/IP67	
PDF	Legal information	Informationstext 18 Abs 4 ElektroG	
PDF	Legal information	LS P-1000/RGBW/IP67	
PDF	Legal information	Safety Insert G11205012	
PDF	Declarations of conformity	CE declaration - LS module	
PDF	Declarations of conformity UKCA		
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	Photometric and lighting design files	Document name	
	Photometric and lighting design files  IES file (IES)	Document name  LS P 1000 RGBW 930 5 IP67 LEDV	
	IES file (IES)	LS P 1000 RGBW 930 5 IP67 LEDV	
	IES file (IES)  LDT file (Eulumdat)	LS P 1000 RGBW 930 5 IP67 LEDV  LS P 1000 RGBW 930 5 IP67 LEDV	
	IES file (IES)  LDT file (Eulumdat)  ROLF file (RELUX)	LS P 1000 RGBW 930 5 IP67 LEDV  LS P 1000 RGBW 930 5 IP67 LEDV  LS P-1000-RGBW-930-5-IP67	

Photometric and lighting design files	Document name	
Light distribution curve type polar	LS P 1000 RGBW 930 5 IP67 LEDV	
T. I. I. I. D. I.		

Tender texts	Document name
Tender documents	LED STRIP PERFORMANCE 1000 RGBW PROTECTED GEN 2 1000 RGBW 930 5 IP67-en

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854358876	Folding box	28 mm x 244 mm x 264 mm	502.00 g	1.80 dm <sup>3</sup>
4099854358883	Shipping box 20	525 mm x 315 mm x 245 mm	10970.00 g	40.52 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.