Datasheet

LuxaLight LED-strip Warm White 2600K Protected (24 Volt, 140 LEDs, 2835, IP64)

LS24WW140X2835PLX

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LuxaLight B.V.
Hastelweg 260B
5652 CN Eindhoven
Nederland

KvK-nummer: 57580561
BTW-nummer: NL852642209B01
IBAN: NL87 INGB 0007 8159 75
BIC/SWIFT code: INGBNL2A

Email: info@luxalight.eu
Website: www.luxalight.eu
Tel.: +31 (0)40 - 202 49 04

Product description

The **LuxaLight Professional LED Strip** is a high-quality lighting solution, ideal for use in various indoor environments. This strip is designed with a **silicone layer** and features an **IP64** certification, making it dust and splash-resistant, which makes it suitable for a wide range of applications. The strip features 140 **2835 LEDs** per meter and offers a warm 2600K color temperature with excellent color rendering (CRI > 95). These features make the LED strip perfect for applications that require true-to-life lighting, such as in living spaces, workspaces, retail environments, and more.

Key Features:

- **2600K Color Temperature:** The warm 2600K lighting creates a cozy and inviting atmosphere, ideal for use in living rooms, offices, and commercial environments.
- **High CRI (≥95):** The excellent color rendering ensures true-to-life lighting, with colors being displayed brightly and vividly, essential for applications in retail, museums, and healthcare settings.
- **Silicone Layer and IP64 Certification:** The strip features a durable silicone layer and is **IP64** certified, providing protection against dust and water splashes. This makes the strip suitable for use in environments with limited exposure to moisture, such as wet rooms (e.g., bathrooms).
- **140 2835 LEDs per meter:** This LED strip features 140 **2835 LEDs** per meter, ensuring even and efficient light distribution.
- **3 oz/ft² PCB Thickness:** The PCB has a thickness of 3 oz/ft², which provides robust support and efficient heat dissipation, making the strip reliable and durable.
- **3M 4905 VHB Tape:** The strip is equipped with **3M 4905 VHB tape**, ensuring a strong and reliable attachment to various surfaces.

Applications:

- **Residential and Office Spaces (indoor):** The warm 2600K color temperature and high CRI value make this professional LED strip ideal for creating pleasant, true-to-life lighting in living rooms, offices, and conference rooms.
- **Retail and Display Windows:** The excellent color rendering ensures that products in stores and display windows are showcased at their best. The **IP64** certification makes the strip suitable for use in commercial environments exposed to light water splashes.
- **Museums and Galleries:** The warm lighting and high color rendering are perfect for illuminating artworks and objects in museums, galleries, and exhibitions, where color integrity is of utmost importance.
- **Healthcare and Medical Settings:** The warm, true-to-life lighting is ideal for healthcare settings, where lighting plays a key role in the well-being of patients and staff.
- **Wet Rooms:** The **IP64** certification makes this LED strip suitable for use in wet rooms, such as bathrooms, where occasional contact with water splashes is possible.

Benefits:

- **Excellent Color Rendering:** With a CRI of over 95, the professional LED strip provides accurate and natural color rendering, making it ideal for applications where color perception is crucial.
- **Warm Lighting:** The 2600K color temperature delivers a soft, warm glow, ideal for creating a comfortable and inviting atmosphere in various environments.
- **Flexible and Customizable:** Thanks to the flexible design, the strip can be easily integrated into various lighting setups and fixtures, making it a versatile solution for diverse applications.
- **Uniform Light Distribution:** With 140 pcs 2835 LEDs per meter, the strip offers consistent and uniform light distribution, ensuring pleasant and comfortable lighting without harsh shadows.
- **Reliable Performance:** The LED strip operates on a standard 24V power supply and provides efficient, stable performance, making it an ideal choice for long-term use in both residential and commercial environments.
- **Durable and Energy-Efficient:** LED technology is energy-efficient, meaning the strip is not only cost-effective but also contributes to a more sustainable lighting solution.
- **Strong Adhesion:** The 3M 4905 VHB tape provides reliable adhesion for easy and durable installation on various surfaces.

Technical specifications

General	
Brand	LuxaLight
LEDs / meter	140
LED type	2835
Length per reel	10 m
Length per segment	50 mm
LED strip width	10.00 mm
LED strip thickness	4.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours

Lighting	
Color temperature	2500 ~ 2700 K
CRI	≥ 95
Luminous Flux	≈ 3000 lm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B50

Measurement results	
CRI (Object size: 1 piece)	98
CCT (Object size: 1 piece)	2623 K

Illuminance (Lux)
(Object size: 1 piece)

	24V
5cm	25850 lx
10cm	9807 lx
15cm	5131 lx
20cm	3189 lx
25cm	2159 lx
30cm	1625 lx

Total PPFD umol/m2 (PAR 400-700nm)
(Object size: 1 piece)

	24V
5cm	460.982 umol/m2
10cm	173.872 umol/m2
15cm	91.0287 umol/m2
20cm	56.5584 umol/m2
25cm	38.2639 umol/m2
30cm	28.7662 umol/m2

Peak wavelength (Object size: 1 piece)	637 nm

Peak irradiance
(Object size: 1 piece)

	24V
5cm	0.647382 W/sqm
10cm	0.243815 W/sqm
15cm	0.126484 W/sqm
20cm	0.0784329 W/sqm
25cm	0.0532044 W/sqm
30cm	0.0399321 W/sqm

Total irradiance
(Object size: 1 piece)

	24V
5cm	102.3 W/sqm
10cm	38.39 W/sqm
15cm	20.11 W/sqm
20cm	12.53 W/sqm
25cm	8.449 W/sqm
30cm	6.347 W/sqm

Electronics

Working voltage	24V
Current / meter	1.00 A / meter
Power consumption per meter	24.00 W / meter
PCB material	Copper

Environmental

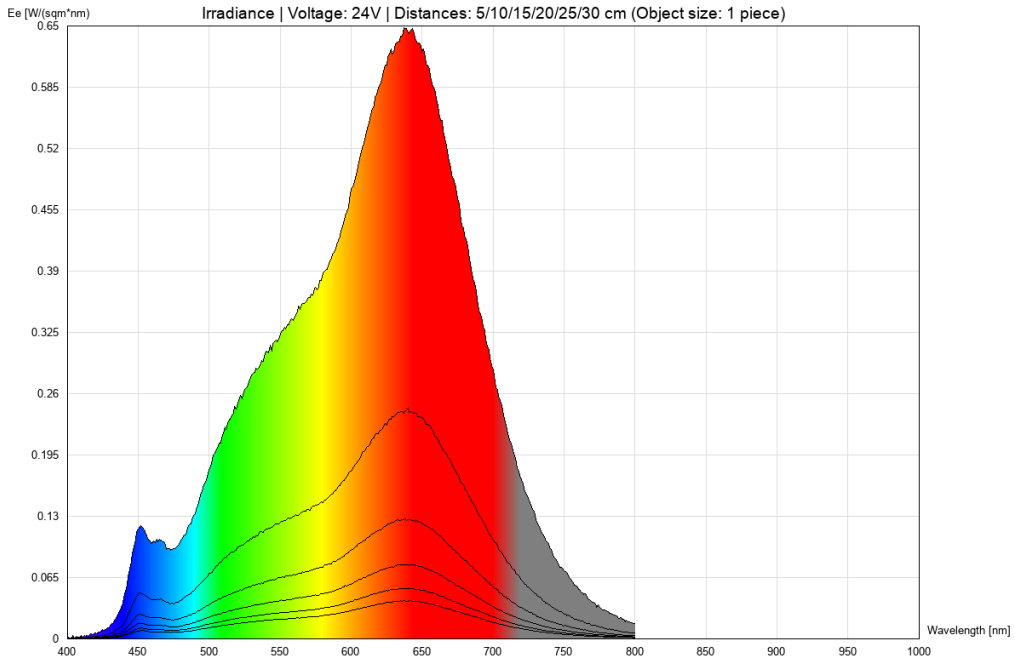
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - full-spectrum (24V)



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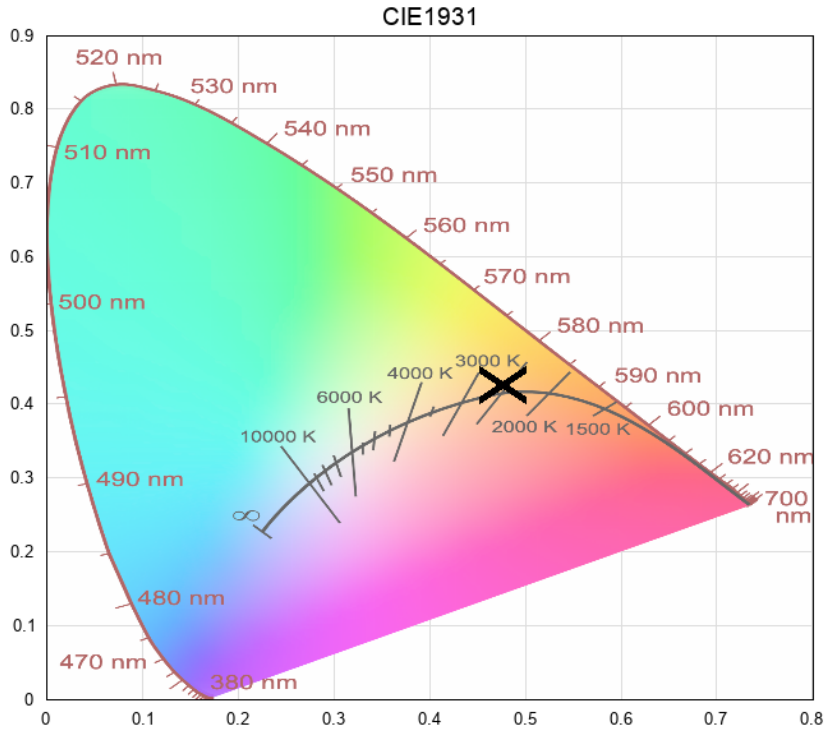

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