

Datasheet

LuxaLight LED-strip White 5500K Protected (24 Volt, 140 LEDs, 2835, IP64)

LS24W140X2835PLX

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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 coating and has an **IP64 rating**, meaning it is dust and splash-resistant, making it suitable for a wide range of applications. The strip features **140 2835 LEDs per meter** and provides a **5500K color temperature** with excellent color rendering (CRI > 95). These features make the LED strip perfect for applications where true-to-life lighting is required, such as in living spaces, workspaces, retail environments, and more.

Key Features:

- **5500K Color Temperature:** The **5500K lighting** provides a cool white glow, ideal for use in modern living rooms, offices, and commercial settings, where bright, clear lighting is desired.
- **High CRI (≥95):** The excellent color rendering ensures accurate and vibrant color representation, which is essential for applications in retail, museums, and healthcare settings.
- **Silicone Coating and IP64 Rating:** The strip features a robust silicone coating and is **IP64 rated**, offering protection against dust and splashes of water. This makes the strip suitable for environments where limited exposure to moisture is possible, such as wet areas (e.g., bathrooms).
- **140 pcs 2835 LEDs per Meter:** This LED strip features **140 2835 LEDs per meter**, ensuring even and efficient light distribution across the surface.
- **PCB Thickness of 3 oz/ft²:** The PCB has a thickness of **3 oz/ft²**, providing strong support and efficient heat dissipation, making the strip reliable and durable.
- **Use of 3M 4905 VHB Tape:** The strip comes equipped with **3M 4905 VHB tape**, ensuring strong and reliable adhesion to various surfaces.

Applications:

- **Living and Working Spaces (Indoor):** The neutral **5500K** color temperature and high CRI value make this professional LED strip ideal for creating pleasant and true-to-life lighting in living rooms, offices, and meeting rooms.
- **Retail and Displays:** The excellent color rendering ensures that products in stores and display windows are presented at their best. The **IP64** rating makes the strip suitable for use in commercial environments where it may be exposed to light splashes of water.
- **Museums and Galleries:** The neutral lighting and high color rendering are perfect for illuminating artworks and objects in museums, galleries, and exhibitions, where color integrity is crucial.
- **Healthcare and Medical Facilities:** The neutral, true-to-life lighting is ideal for healthcare settings, where proper lighting is important for the well-being of patients and staff.
- **Wet Areas:** The **IP64** rating makes this LED strip suitable for use in wet areas such as bathrooms, where occasional contact with water droplets may occur.

Benefits:

- **Excellent Color Rendering:** With a CRI of over 95, this professional LED strip provides accurate and true-to-life color rendering, making it ideal for applications where color perception is critical.
- **Neutral Lighting:** The **5500K** color temperature offers a neutral white glow, perfect for modern and functional lighting in workspaces and commercial environments.
- **Flexible and Customizable:** Thanks to its flexible design, the strip can be easily integrated into various lighting setups and fixtures, making it a versatile solution for a wide range of applications.
- **Uniform Light Distribution:** With **140 pcs 2835 LEDs** per meter, the strip provides 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 offers efficient, stable performance, making it ideal 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** ensures strong 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	5400 ~ 5600 K	
CRI	≥ 95	
Luminous Flux	≈ 3100 lm	
BIN	3 SDCM	
Beam angle	120 °	
LB waarde	L90B50	
Measurement results		
CRI (Object size: 1 piece)	94	
CCT (Object size: 1 piece)	5723 K	
Illuminance (Lux) (Object size: 1 piece)		24V
	5cm	34640 lx
	10cm	12810 lx
	15cm	6646 lx
	20cm	4140 lx
	25cm	2800 lx
	30cm	2109 lx
Total PPFD umol/m2 (PAR 400-700nm) (Object size: 1 piece)		24V
	5cm	554.783 umol/m2
	10cm	205.376 umol/m2
	15cm	106.83 umol/m2
	20cm	66.5604 umol/m2
	25cm	44.9913 umol/m2
	30cm	33.8734 umol/m2
Peak wavelength (Object size: 1 piece)	453 nm	

Peak irradiance (Object size: 1 piece)		24V
5cm		1.07374 W/sqm
10cm		0.405496 W/sqm
15cm		0.213521 W/sqm
20cm		0.134253 W/sqm
25cm		0.0907102 W/sqm
30cm		0.0676674 W/sqm

Total irradiance (Object size: 1 piece)		24V
5cm		127.4 W/sqm
10cm		47.09 W/sqm
15cm		24.45 W/sqm
20cm		15.3 W/sqm
25cm		10.3 W/sqm
30cm		7.747 W/sqm

Electronics

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

Environmental

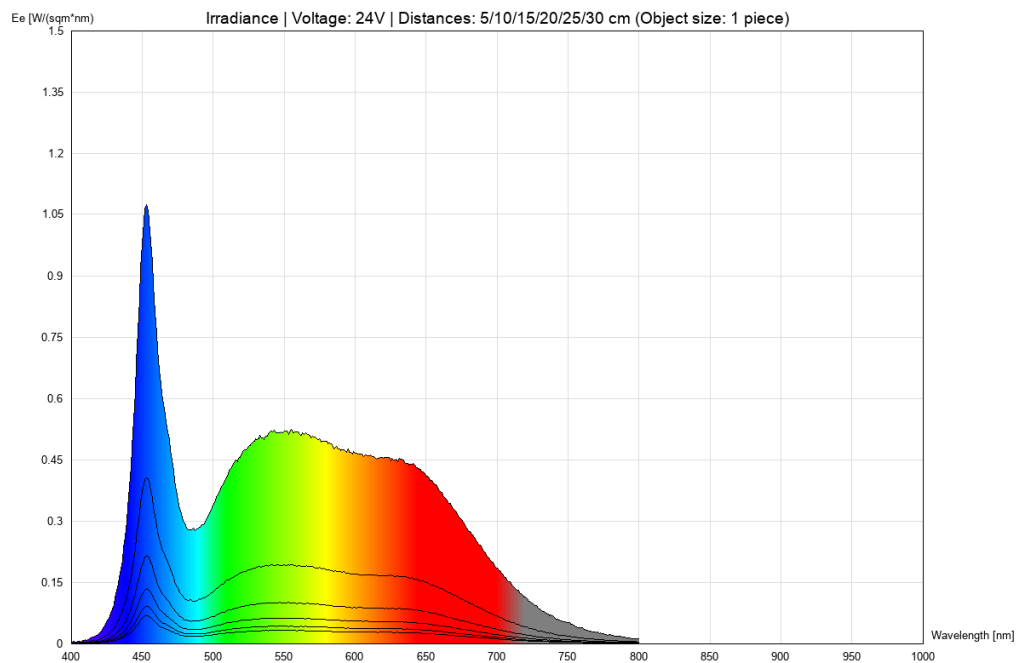
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

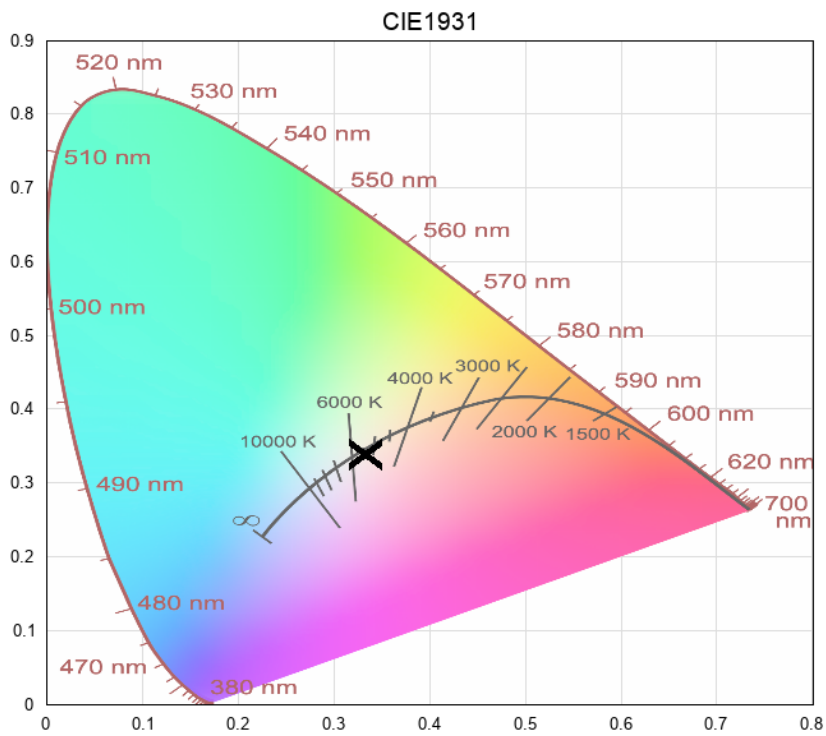
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - full-spectrum (24V)



cie1931



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