

Datasheet

LuxaLight LED-strip Cool White 8000K Waterproof (24 Volt, 140 LEDs, 2835, IP68)

LS24CW140X2835WLX

Version: 2025-03-03.1

Product description

The **LuxaLight Professional LED Strip** is a high-quality lighting solution, ideal for both indoor and outdoor applications. The strip is equipped with a vulcanized silicone coating, providing additional protection against moisture, wear, and other external factors. With its **IP68 certification**, the strip is fully dustproof and resistant to submersion in water, making it perfect for use in humid environments such as outdoor lighting or damp spaces. This strip features **140 2835 LEDs per meter** and provides an **8000K color temperature**, combined with excellent color rendering (CRI > 95). These properties make the LED strip ideal for applications where natural and accurate lighting is required, such as living spaces, workspaces, retail environments, and outdoor lighting.

Key Features:

- **8000K Color Temperature:** The **8000K lighting** provides a cool, bright white light, ideal for use in workspaces, commercial environments, and other applications that require bright and energetic lighting.
- **High CRI (≥95):** The excellent color rendering ensures natural lighting, with colors displayed brightly and vividly. This is essential for applications in retail, museums, and healthcare facilities.
- **Vulcanized Silicone Coating and IP68 Certification:** The strip is coated with a vulcanized silicone coating, providing protection against moisture, wear, and other environmental factors. The **IP68 certification** makes the strip fully dustproof and resistant to submersion in water, making it ideal for outdoor lighting or environments with high moisture levels.
- **140 pcs 2835 LEDs per Meter:** The strip features **140 2835 LEDs per meter**, ensuring uniform and efficient light distribution.
- **3 oz/ft² PCB Thickness:** The PCB has a thickness of **3 oz/ft²**, ensuring 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 strong and reliable adhesion to various surfaces.

Applications:

- **Outdoor Lighting:** The **IP68 certification** makes this strip perfect for outdoor lighting, such as garden paths, patio lighting, and lighting around ponds or pools.
- **Indoor Living and Workspaces:** The **8000K** color temperature and high CRI value make this professional LED strip ideal for creating bright, natural lighting in living rooms, offices, and meeting rooms.
- **Retail and Display Windows:** The excellent color rendering ensures that products in stores and display windows are presented at their best. The **IP68 certification** makes the strip suitable for use in commercial environments where it may be exposed to weather conditions or light water splashes.
- **Museums and Galleries:** The cool 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 cool, natural lighting is ideal for healthcare facilities, where lighting plays an essential role in the well-being of patients and staff.
- **Outdoor Spaces and Pools:** Thanks to the **IP68 certification**, this strip is resistant to submersion in water, making it suitable for outdoor spaces, pools, or lighting projects in humid environments.

Benefits:

- **Excellent Color Rendering:** With a CRI of over 95, this professional LED strip provides accurate and natural color rendering, making it ideal for applications where color perception is critical.
- **Cool Lighting:** The **8000K** color temperature delivers a cool, bright white light, perfect for modern 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 ensures consistent and even light distribution, providing pleasant and comfortable lighting without harsh shadows.
- **Reliable Performance:** The LED strip operates on a standard **24V power supply** and delivers 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** ensures 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	12.00 mm
LED strip thickness	5.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours

Lighting	
Color temperature	7900~8100 K
CRI	≥ 95
Luminous Flux	≈ 3100 lm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B50

Measurement results		
PPFD	Value	Measuring distance
	182 µmol/m ²	100 mm
	65 µmol/m ²	200 mm
	34 µmol/m ²	300 mm

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

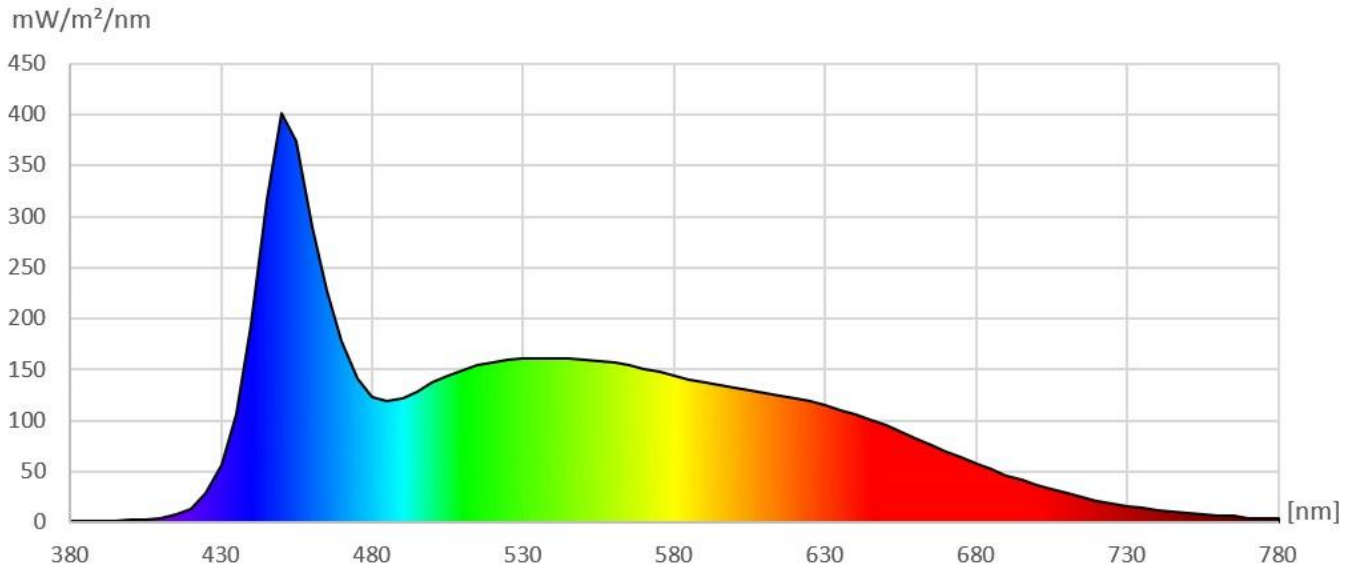
Environmental	
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 68

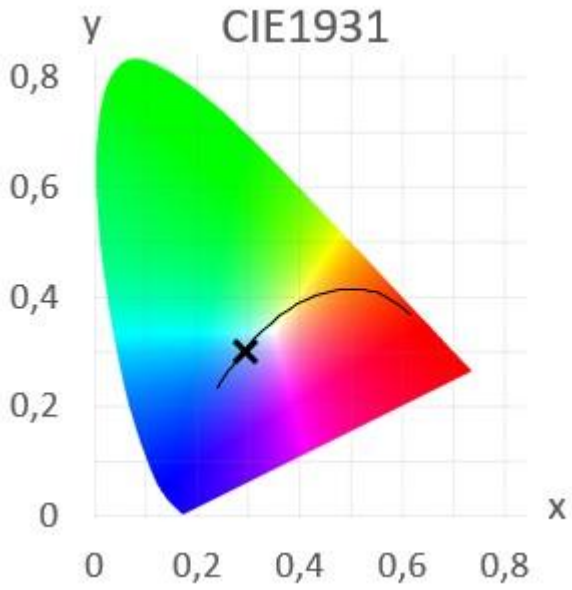
Directives - standards - certificates	
Directives	RoHS CE

Safety standards

EN60598-1
EN62031
IEC62471

Measurement results





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