Datasheet

LuxaLight LED-strip Cool White 8000K Protected (24 Volt, 140 LEDs, 2835, IP64)

LS24CW140X2835PLX

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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 an **8000K color temperature** with excellent color rendering (CRI > 95). These features make the LED strip perfect for applications where bright, clear, and natural lighting is required, such as in living spaces, workspaces, retail environments, and more.

Key Features:

- **8000K Color Temperature:** The **8000K lighting** provides a cool, bright 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 **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 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 cool, bright light 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 **8000K** lighting provides natural, bright light that 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.
- **Bright, Cool Lighting:** The **8000K** color temperature offers a cool, bright 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	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/m2	100 mm
65 µmol/m2	200 mm
34 µmol/m2	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 64

Directives - standards - certificates	
Directives	RoHS CE

Safety standards	EN60598-1 EN62031 IEC62471

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Measurement results

Wavenlength

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CIE1931

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