

Datasheet

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

LS24CW140X2835PLX

Version: 2025-07-09.2

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



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.

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• **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.

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• Strong Adhesion: The 3M 4905 VHB tape ensures strong adhesion for easy and durable installation on various surfaces.



Technical specifications

Brand	
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 Lighting Color temperature CRI ≥ 95 Luminous Flux ≈ 100 lm BiN 3 SDCM Bean angle 120 ° LB waarde 190850 Measurement results CCT (Object size: 1 piece) CCT (Object size: 1 piece) \$244 CCT (Object size: 1 piece) 26840 lx COm 26840 lx 15cm 5666 lx 20cm 2431 lx 20cm 2431 lx 25cm 2341 lx 20cm 245 lx 25cm 25cm	
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L90B50	
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15cm 92.5118 umol/m2	
20cm 57.4642 umol/m2	
25cm 38.9346 umol/m2	
30cm 29.4136 umol/m2	
Peak wavelength 451 nm	



Peak irradiance (Object size: 1 piece)		24V
	5cm	1.13077 W/sqm
	10cm	0.468693 W/sqm
	15cm	0.245371 W/sqm
	20cm	0.154154 W/sqm
	25cm	0.10404 W/sqm
	30cm	0.0787935 W/sqm
Total irradiance (Object size: 1 piece)		24V
	5cm	102.5 W/sqm
	10cm	41.11 W/sqm
	15cm	21.4 W/sqm
	20cm	13.3 W/sqm
	25cm	9.009 W/sqm
	30cm	6.809 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	

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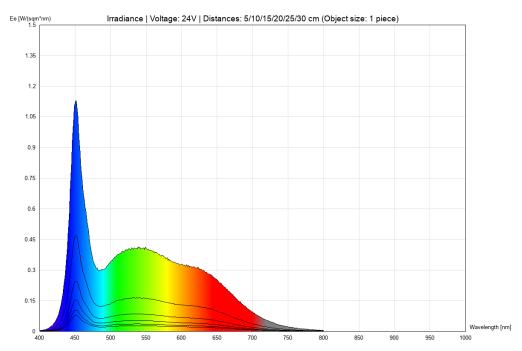
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Measurement results

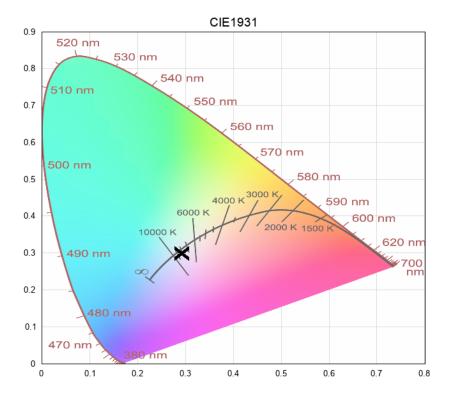
irradiance - full-spectrum (24V)



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