

Datasheet

LuxaLight LED-strip Warm White 3000K Protected (24 Volt, 140 LEDs, 2835, IP64)

LS24WW140X2835PLX3000K

Version: 2025-07-09.2

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 has an IP64 certification, meaning it is dust and splash-proof, making it suitable for a wide range of applications. The strip features 140 2835 LEDs per meter and offers a warm color temperature of 3000K with excellent color rendering (CRI > 95). These features make the LED strip perfect for applications where accurate and natural lighting is required, such as in living spaces, workspaces, retail environments, and more.

Key Features:

- **Color Temperature of 3000K:** The warm 3000K light creates a cozy and inviting atmosphere, making it ideal for use in living rooms, offices, and commercial environments.
- **High CRI (≥95):** The excellent color rendering ensures natural lighting, with colors being displayed clearly and vibrantly, which is essential for applications in retail, museums, and healthcare facilities.
- **Silicone Layer and IP64 Certification:** The strip features a robust silicone layer and is IP64 certified, offering protection against dust and splash water. This makes the strip suitable for environments where limited exposure to moisture may occur, such as in damp spaces (e.g., bathrooms).
- **140 Pieces of 2835 LEDs per Meter:** This LED strip features 140 2835 LEDs per meter, ensuring uniform and efficient light distribution.
- **PCB Thickness of 3 oz/ft²:** The PCB has a thickness of 3 oz/ft², providing sturdy support and efficient heat dissipation, making the strip reliable and durable.
- **Uses 3M 4905 VHB Tape:** The strip is equipped with 3M 4905 VHB tape, ensuring a secure and reliable attachment to various surfaces.

Applications:

- **Residential and Office Spaces (Indoor):** The warm 3000K color temperature and high CRI value make this professional LED strip ideal for creating pleasant and natural lighting in living rooms, offices, and meeting rooms.
- **Retail and Display Windows:** The excellent color rendering ensures products in stores and display windows are showcased at their best. The IP64 certification makes the strip suitable for use in commercial environments where it may be 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 important.
- **Healthcare and Medical Facilities:** The warm, natural lighting is ideal for healthcare environments, where lighting plays an important role in the well-being of patients and staff.
- **Damp Areas:** The IP64 certification makes this LED strip suitable for use in damp areas, such as bathrooms, where incidental contact with water droplets may occur.

Benefits:

- **Excellent Color Rendering:** With a CRI of over 95, this professional LED strip ensures accurate and natural color rendering, making it ideal for applications where color perception is critical.
- **Warm Lighting:** The 3000K color temperature provides a soft, warm glow that is perfect for creating a comfortable and inviting atmosphere in various environments.
- **Flexible and Customizable:** Thanks to its flexible design, the strip can easily be integrated into different lighting setups and fixtures, making it a versatile solution for various applications.
- **Uniform Light Distribution:** With 140 pieces of 2835 LEDs per meter, the strip provides consistent and even 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 ideal for long-term use in both residential and commercial settings.
- **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	10.00 mm
LED strip thickness	4.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours

Lighting

Color temperature	3000 - 3200 K
CRI	≥ 95
Luminous Flux	≈ 3000 lm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B20

Measurement results

CRI (Object size: 1 piece)	98
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CCT (Object size: 1 piece)	3244 K
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Illuminance (Lux) (Object size: 1 piece)		24V
	5cm	31610 lx
	10cm	11820 lx
	15cm	6266 lx
	20cm	3902 lx
	25cm	2644 lx
	30cm	1998 lx

Total PPFD umol/m2 (PAR 400-700nm) (Object size: 1 piece)		24V
	5cm	531.228 umol/m2
	10cm	198.222 umol/m2
	15cm	105.081 umol/m2
	20cm	65.4493 umol/m2
	25cm	44.3136 umol/m2
	30cm	33.4469 umol/m2

Peak wavelength (Object size: 1 piece)	640 nm
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Peak irradiance (Object size: 1 piece)		24V
	5cm	0.644277 W/sqm
	10cm	0.239228 W/sqm
	15cm	0.126463 W/sqm
	20cm	0.07805 W/sqm
	25cm	0.0531142 W/sqm
	30cm	0.0400313 W/sqm

Total irradiance (Object size: 1 piece)		24V
	5cm	118.6 W/sqm
	10cm	44.23 W/sqm
	15cm	23.45 W/sqm
	20cm	14.61 W/sqm
	25cm	9.876 W/sqm
	30cm	7.474 W/sqm

Electronics

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

Environmental

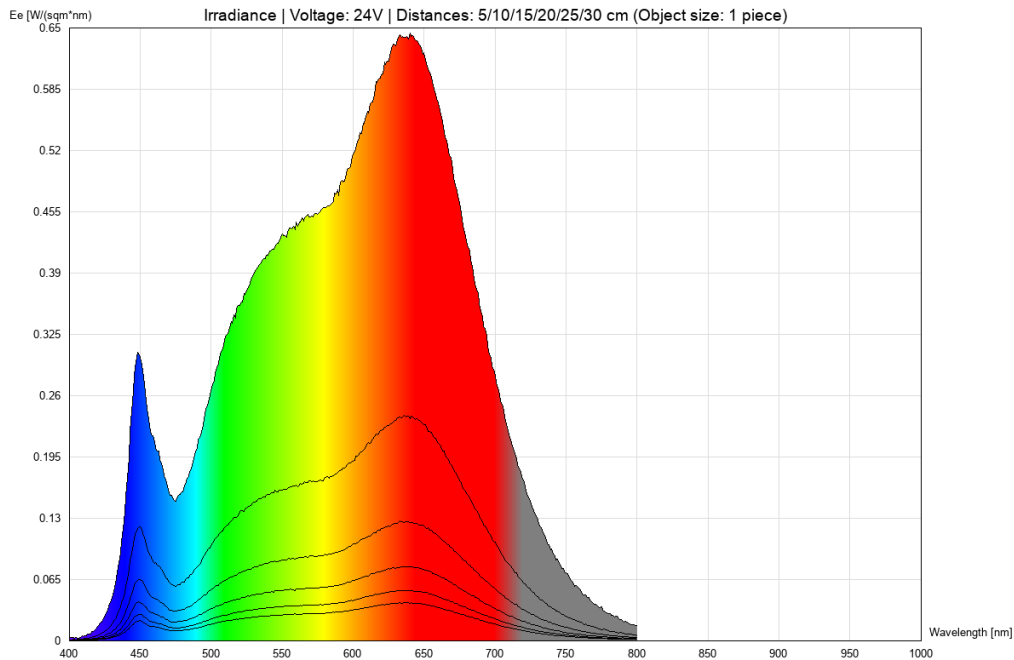
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

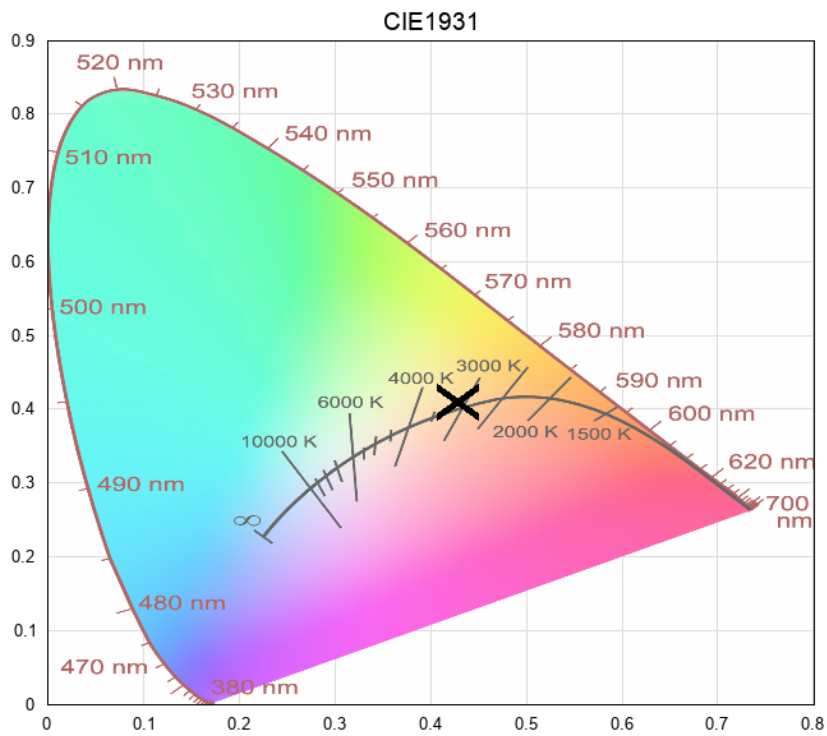
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - full-spectrum (24V)



cie1931



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