

Datasheet

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

LS24WW140X2835ILX3000K

Version: 2025-05-07.2

Product description

The **LuxaLight Professional LED strip** is designed for lighting applications where high color rendering and a warm, pleasant light temperature are required. With a color temperature of 3000K and a **Color Rendering Index (CRI) of over 95**, this professional LED strip provides excellent light quality, which is essential for applications where accurate color representation and true-to-life color accuracy are important.

Key Features:

- **3000K Color Temperature:** The 2600K color temperature provides warm, pleasant lighting, ideal for residential and office environments that require a cozy and relaxed atmosphere.
- **High CRI (Color Rendering Index) of over 95:** The professional LED strip features a CRI of over 95, meaning that the light from this strip renders colors as naturally and accurately as natural sunlight. This is crucial for environments where color interpretation is important, such as in retail, museums, and galleries.
- **140 pcs 2835 LEDs per Meter:** The strip contains 140 pcs 2835 LEDs per meter, ensuring high light density and uniform light distribution across the surface, providing consistent lighting at all times.
- **24V Connection:** The professional LED strip operates on a standard 24V power supply for stable and reliable performance.
- **Flexible Design:** The flexible design allows the LED strip to be easily installed in various configurations, such as in profiles, fixtures, or as direct lighting for custom systems.
- **PCB Thickness:** The PCB has a thickness of 3 oz/ft², providing robust support and efficient heat dissipation, extending the lifespan of the LED strip and maintaining consistent performance.
- **Passive Cooling Required:** As the LED strip requires passive cooling, it should be integrated into a suitable system that efficiently dissipates heat to ensure optimal performance and a longer lifespan.
- **3M 4905 VHB Tape:** The LED strip is equipped with **3M 4905 VHB tape**, which ensures strong and durable adhesion to a variety of surfaces. This makes the strip easy to install in various applications, including wall and ceiling mounting, profiles, and other lighting systems.

Applications:

- **Residential and Office Spaces:** The warm 2600K color temperature and high CRI value make this professional LED strip ideal for creating pleasant, true-to-life lighting in homes, offices, and other commercial spaces.
- **Retail and Display Windows:** The excellent color rendering (CRI >95) ensures that products in stores and display windows are showcased at their best, contributing to an enjoyable shopping experience for customers.
- **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 of the utmost importance.
- **Healthcare and Medical Settings:** The warm, true-to-life lighting is also ideal for healthcare settings, where lighting plays a crucial role in the well-being of patients and staff.
- **Home Decoration:** Perfect for illuminating decorative and ambiance-setting elements in homes, such as in living room lighting, kitchens, and bedrooms, where a warm and cozy atmosphere is desired.

Benefits:

- **Excellent Color Rendering:** With a CRI of over 95, the professional LED strip provides accurate and natural color rendering, making it ideal for applications where color perception is crucial.
- **Warm Lighting:** The 2600K color temperature delivers a soft, warm glow, ideal for creating a comfortable and inviting atmosphere in various environments.
- **Flexible and Customizable:** Thanks to the flexible design, the strip can be easily integrated into various lighting setups and fixtures, making it a versatile solution for diverse applications.
- **Uniform Light Distribution:** With 140 pcs 2835 LEDs per meter, the strip offers 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 provides 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** provides 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	
Mounting	3M tape VHB4905	
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	
CCT (Object size: 1 piece)	2990 K	
Illuminance (Lux) (Object size: 1 piece)		24V
	2.5cm	68120 lx
	5cm	27070 lx
	7.5cm	17160 lx
	20cm	3825 lx
	30cm	1989 lx
Total PPFD umol/m2 (PAR 400-700nm) (Object size: 1 piece)		24V
	2.5cm	1207.84 umol/m2
	5cm	480.113 umol/m2
	7.5cm	303.444 umol/m2
	20cm	67.6619 umol/m2
	30cm	35.1389 umol/m2
Electronics		
Working voltage	24V	

Current / meter	1.00 A / meter	
Power consumption per meter	24.00 W / meter	
PCB material	Copper	
Pinout		
	Symbol	Function
	V+	V+
	GND	Ground

Environmental

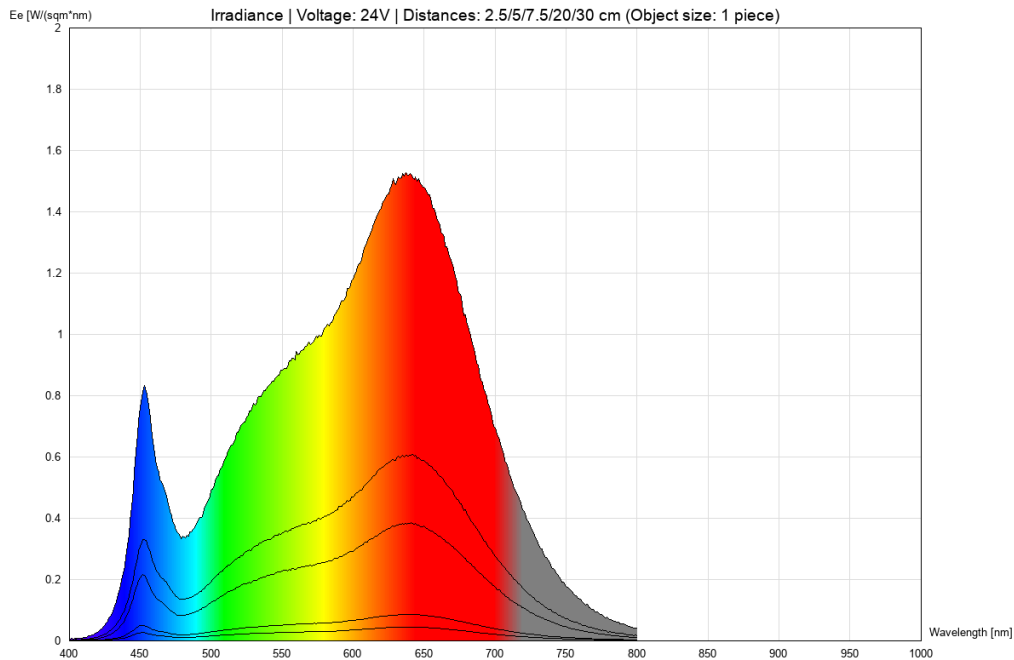
Operating temperature	-20 ~ +60 °C
Storage temperature	-20 ~ +60 °C
IP class	IP 64

Directives - standards - certificates

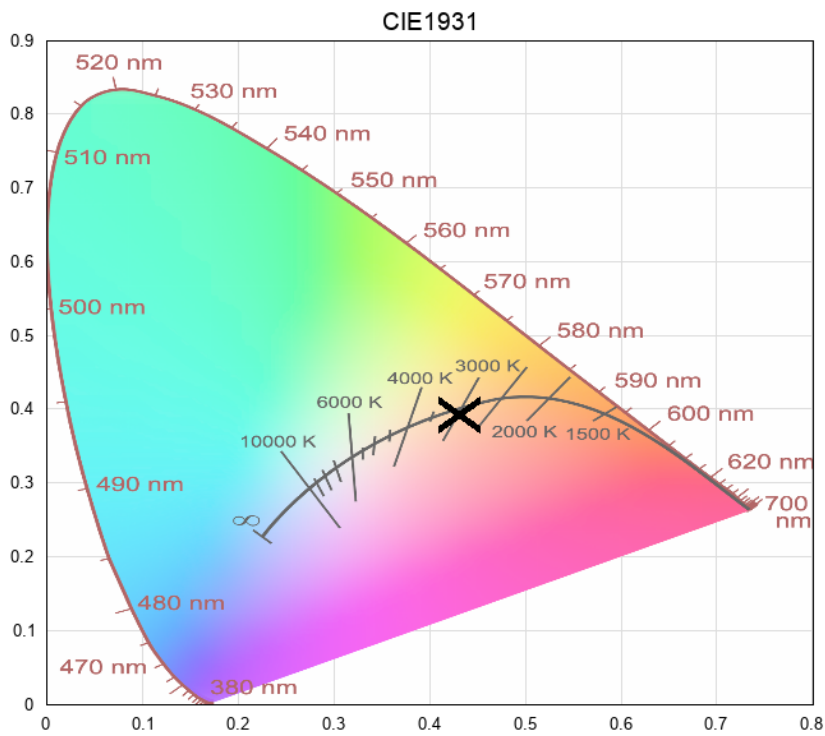
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - full-spectrum (24V)



cie1931



While LuxaLight has made every reasonable effort to ensure the accuracy of the information in this brochure, LuxaLight does not guarantee that it is error - free, nor does LuxaLight make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. LuxaLight reserves the right to make any adjustments to the information contained herein at any time without notice. LuxaLight expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalogue are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult LuxaLight for the latest dimensions and design specifications.