

Datasheet

LuxaLight COB LED-strip Warm White 2700K Protected (24 Volt, 512 LEDs, COB, IP64)

LS24WWCOBPLX2700K

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Product description

The LuxaLight Professional COB 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 utilizes advanced COB LED technology and offers a warm color temperature of 2700K with excellent color rendering (CRI > 94). These features make the LED strip perfect for applications where natural lighting is required, such as in living spaces, work areas, retail environments, and more.

Key Features:

- **Color Temperature of 2700K:** The warm 2700K lighting creates a cozy and inviting atmosphere, ideal for use in living rooms, offices, and commercial spaces.
- **CRI (≥94):** The excellent color rendering ensures natural lighting, with colors appearing vivid and true-to-life, 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, providing protection against dust and splash water. This makes it suitable for use in environments where limited exposure to moisture is possible, such as in wet areas (e.g., bathrooms).
- **COB LED Technology:** Instead of traditional individual LEDs, this strip uses COB (Chip-on-Board) LED technology, ensuring uniform light distribution without visible hotspots. This results in a more consistent and efficient lighting solution.
- **Use of 3M 4905 VHB Tape:** The strip is equipped with 3M 4905 VHB tape, ensuring a strong and reliable attachment to various surfaces.

Applications:

- **Residential and Work Spaces (indoor):** The warm 2700K color temperature and high CRI value make this professional LED strip ideal for creating pleasant, natural lighting in living rooms, offices, and meeting rooms.
- **Retail and Window Displays:** The excellent color rendering ensures that products in stores and window displays are presented in the best possible light. The IP64 certification makes the strip suitable for use in commercial environments exposed to light water droplets.
- **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 crucial.
- **Healthcare and Medical Facilities:** The warm, natural lighting is ideal for healthcare facilities, where proper lighting is important for the well-being of patients and staff.
- **Wet Areas:** The IP64 certification makes this LED strip suitable for use in wet areas such as bathrooms, where occasional contact with water droplets is possible.

Advantages:

- **Excellent Color Rendering:** With a CRI of over 94, this professional LED strip provides accurate and natural color rendering, ideal for applications where color perception is essential.
- **Warm Lighting:** The 2700K 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 various lighting setups and fixtures, making it a versatile solution for a wide range of applications.
- **Uniform Light Distribution:** COB LED technology ensures consistent and even light distribution, providing pleasant and comfortable lighting without harsh shadows or hotspots.
- **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 provides reliable adhesion for easy and durable installation on various surfaces.

Technical specifications

General	
Brand	LuxaLight
LEDs / meter	512
LED type	COB
Length per reel	10 m
Length per segment	31.25 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	2700 K
CRI	≥ 95
Luminous Flux	1527 lm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B20
Measurement results	
CRI (Object length: 20 cm)	94
CCT (Object length: 20 cm)	2728 K
Illuminance (Lux) (Object length: 20 cm)	24V
	15cm 3331 lx
Total PPFD umol/m2 (PAR 400-700nm) (Object length: 20 cm)	24V
	15cm 53.68 umol/m2
Peak wavelength (Object length: 20 cm)	623 nm
Peak irradiance (Object length: 20 cm)	24V
	15cm 0.07 W/sqm
Total irradiance (Object length: 20 cm)	24V
	15cm 11.61 W/sqm
Electronics	
Working voltage	24V
Current / meter	0.63 A / meter
Power consumption per meter	15.00 W / meter

PCB material	Copper
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Pinout	Symbol	Function
	V+	V+
	GND	Ground

Environmental

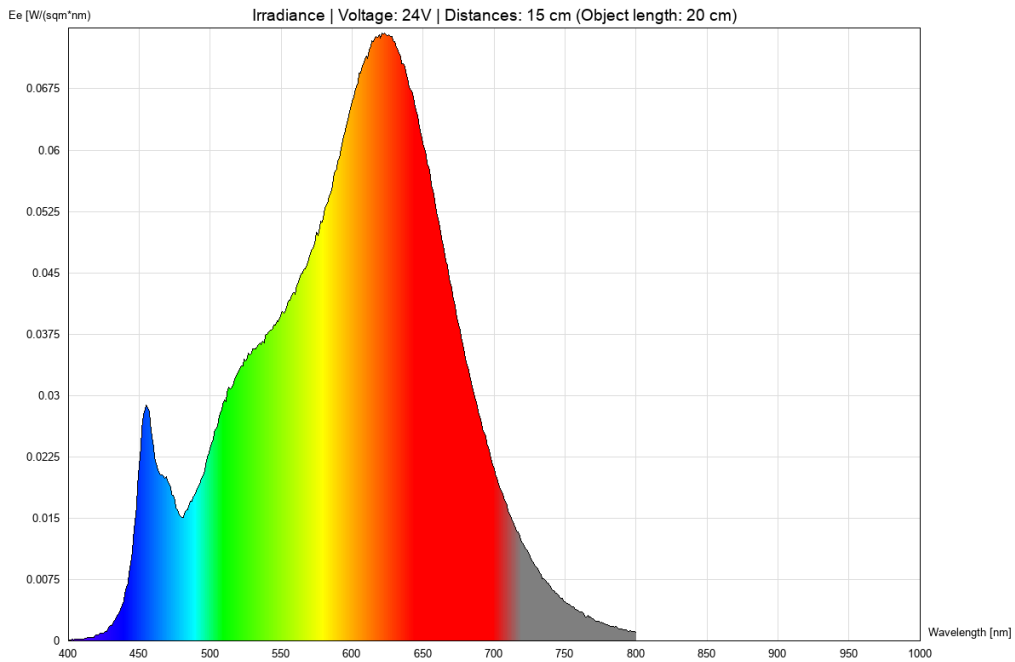
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

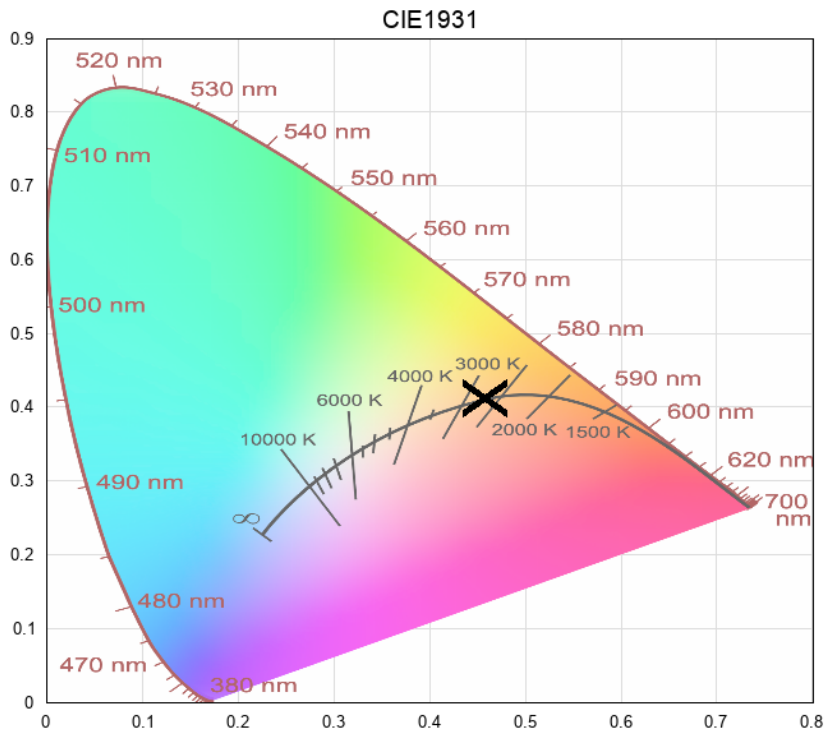
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - full-spectrum (24V)



cie1931



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