Datasheet

LuxaLight COB LED-strip Blue Waterproof (24 Volt, 512 LEDs, COB, IP68)

LS24BXCOBXWLX

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Product description

The LuxaLight Professional COB LED Strip is a high-quality lighting solution, ideal for use in various indoor and outdoor environments. This strip is designed with a vulcanized silicone sleeve and has an IP68 certification, meaning it is fully dust- and waterproof, making it suitable for a wide range of applications, even in the most demanding environments. The strip utilizes advanced COB LED technology and offers blue light with a wavelength of 460nm, which provides a unique color output and visual impact. These features make the LED strip perfect for applications where color lighting is required, such as special lighting setups, creative projects, and more.

Key Features:

- **Blue light with a wavelength of 460nm:** The blue light with a wavelength of 460nm provides intense, cool blue illumination, ideal for applications where a striking visual impact and color rendering are needed.
- **Vulcanized Silicone Sleeve and IP68 Certification:** The strip is encased in a robust vulcanized silicone sleeve and is IP68 certified, providing full protection against dust and water. This makes it suitable for use in environments where the strip may be exposed to water, such as outdoor spaces, gardens, pools, and other wet environments.
- **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:

- **Special Lighting Applications:** The cool blue light with a wavelength of 460nm is perfect for applications where a unique visual impact and color accents are needed, such as showrooms, events, and exhibitions.
- **Retail and Window Displays:** The blue light creates a striking presentation of products in stores and window displays, enhancing the atmosphere with an interesting and dynamic effect.
- **Creative and Artistic Projects:** The blue light is ideal for creative and artistic lighting setups, where the lighting supports an artistic ambiance.
- **Outdoor Spaces and Pools:** The IP68 certification makes this LED strip fully waterproof and suitable for use in outdoor environments such as gardens, patios, and pools, where the strip may be exposed to water and weather conditions.

Advantages:

- **Intense Blue Light:** The 460nm blue light creates intense, cool lighting that adds visual interest and dynamics to any space.
- **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	50 mm
LED strip width	12.00 mm
LED strip thickness	5.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours
Lighting	
Luminous Flux	180 lm
Wave length	455~470 nm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L80B50
Electronics	
Working voltage	24V
Current / meter	0.63 A / meter
Power consumption per meter	15.00 W / meter
PCB material	Copper
Environmental	
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 68
Directives - standards - certificates	
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

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