LS12WCOBWLX5500K - datasheet, version: 2025-03-10.3
LuxaLight COB LED-strip White 5500K Waterproof (12 Volt, 512 LEDs, COB, IP68)

Page 1 / 6

# Datasheet

## LuxaLight COB LED-strip White 5500K Waterproof (12 Volt, 512 LEDs, COB, IP68)

### LS12WCOBWLX5500K

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Page 2 / 6

# 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 a color temperature of 5500K with excellent color rendering (CRI > 95). 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 5500K:** The 5500K lighting provides bright, cool white light that is ideal for workspaces, commercial environments, and other applications that require bright lighting.
- **CRI (≥95):** 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.
- **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:**

- **Residential and Work Spaces (indoor):** The cooler 5500K color temperature and high CRI value make this professional LED strip ideal for creating bright and functional lighting in workspaces, kitchens, 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 IP68 certification makes the strip suitable for use in commercial environments, both indoors and outdoors.
- **Museums and Galleries:** The cooler 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 cooler, natural lighting is ideal for healthcare facilities, where proper lighting is important for the well-being of patients and staff.
- **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:**

- **Excellent Color Rendering:** With a CRI of over 95, this professional LED strip provides accurate and natural color rendering, ideal for applications where color perception is essential.
- **Cool Lighting:** The 5500K color temperature provides bright, cool white light, perfect for workspaces and commercial spaces that require bright lighting without feeling too warm.
- **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 12V 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.
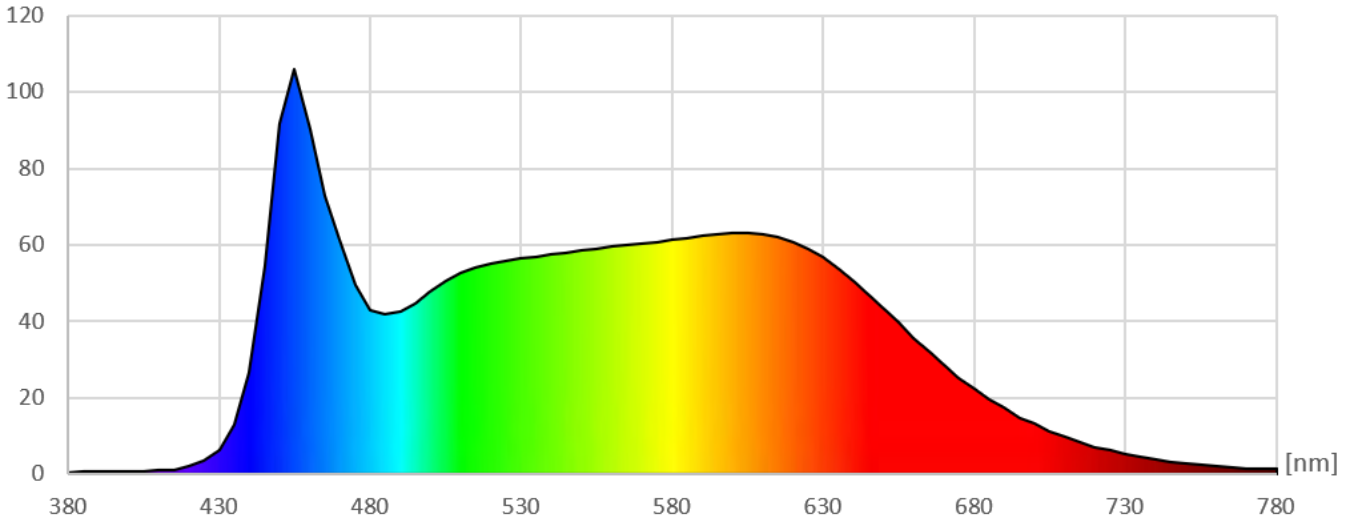
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LS12WCOBWLX5500K - datasheet, version: 2025-03-10.3
LuxaLight COB LED-strip White 5500K Waterproof (12 Volt, 512 LEDs, COB, IP68)

Page 3 / 6

# Technical specifications

| General | |
| --- | --- |
| Brand | LuxaLight |
| LEDs / meter | 512 |
| LED type | COB |
| Length per reel | 10 m |
| Length per segment | 25 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 | |
| --- | --- |
| Color temperature | 5500 K |
| CRI | ≥ 95 |
| Luminous Flux | 1490 lm |
| BIN | 3 SDCM |
| Beam angle | 120 ° |
| LB waarde | L90B20 |

| Electronics | |
| --- | --- |
| Working voltage | 12V |
| Current / meter | 1.25 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<br>CE |
| Safety standards | EN60598-1<br>EN62031<br>IEC62471 |

LS12WCOBWLX5500K - datasheet, version: 2025-03-10.3
LuxaLight COB LED-strip White 5500K Waterproof (12 Volt, 512 LEDs, COB, IP68)

Page 4 / 6

# Measurement results

## WAVELENGTH

LS12WCOBWLX5500K - datasheet, version: 2025-03-10.3
LuxaLight COB LED-strip White 5500K Waterproof (12 Volt, 512 LEDs, COB, IP68)

Page 5 / 6

## CIE1931

**LS12WCOBWLX5500K** - datasheet, version: 2025-03-10.3
**LuxaLight COB LED-strip White 5500K Waterproof (12 Volt, 512 LEDs, COB, IP68)**

Page 6 / 6
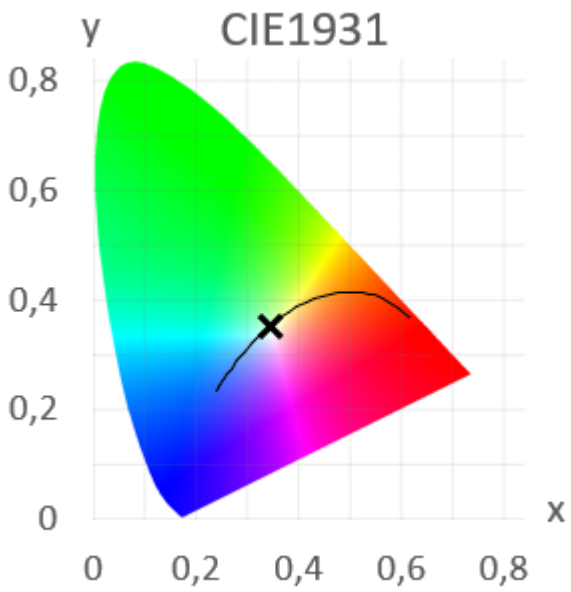
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