

Datasheet

LuxaLight LED-strip Cool White 8000K Protected (24 Volt, 140 LEDs, 2835, IP64)

LS24CW140X2835PLX

Version: 2025-03-03.1

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 coating and has an **IP64 rating**, meaning it is dust and splash-resistant, making it suitable for a wide range of applications. The strip features **140 2835 LEDs per meter** and provides an **8000K color temperature** with excellent color rendering (CRI > 95). These features make the LED strip perfect for applications where bright, clear, and natural lighting is required, such as in living spaces, workspaces, retail environments, and more.

Key Features:

- **8000K Color Temperature:** The **8000K lighting** provides a cool, bright white glow, ideal for use in modern living rooms, offices, and commercial settings, where bright, clear lighting is desired.
- **High CRI (≥95):** The excellent color rendering ensures accurate and vibrant color representation, which is essential for applications in retail, museums, and healthcare settings.
- **Silicone Coating and IP64 Rating:** The strip features a robust silicone coating and is **IP64 rated**, offering protection against dust and splashes of water. This makes the strip suitable for environments where limited exposure to moisture is possible, such as wet areas (e.g., bathrooms).
- **140 pcs 2835 LEDs per Meter:** This LED strip features **140 2835 LEDs per meter**, ensuring even and efficient light distribution across the surface.
- **PCB Thickness of 3 oz/ft²:** The PCB has a thickness of **3 oz/ft²**, providing strong support and efficient heat dissipation, making the strip reliable and durable.
- **Use of 3M 4905 VHB Tape:** The strip comes equipped with **3M 4905 VHB tape**, ensuring strong and reliable adhesion to various surfaces.

Applications:

- **Living and Working Spaces (Indoor):** The **8000K** color temperature and high CRI value make this professional LED strip ideal for creating bright, natural lighting in living rooms, offices, and meeting rooms.
- **Retail and Displays:** The excellent color rendering ensures that products in stores and display windows are presented at their best. The **IP64 rating** makes the strip suitable for use in commercial environments where it may be exposed to light splashes of water.
- **Museums and Galleries:** The cool, bright light 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 **8000K** lighting provides natural, bright light that is ideal for healthcare settings, where proper lighting is important for the well-being of patients and staff.
- **Wet Areas:** The **IP64 rating** makes this LED strip suitable for use in wet areas such as bathrooms, where occasional contact with water droplets may occur.

Benefits:

- **Excellent Color Rendering:** With a CRI of over 95, this professional LED strip provides accurate and true-to-life color rendering, making it ideal for applications where color perception is critical.
- **Bright, Cool Lighting:** The **8000K** color temperature offers a cool, bright white glow, perfect for modern and functional lighting in workspaces and commercial environments.
- **Flexible and Customizable:** Thanks to its flexible design, the strip can be easily integrated into various lighting setups and fixtures, making it a versatile solution for a wide range of applications.
- **Uniform Light Distribution:** With **140 pcs 2835 LEDs per meter**, the strip provides 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 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** ensures strong 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	7900 ~ 8100 K
CRI	≥ 95
Luminous Flux	≈ 3100 lm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B50

Measurement results

PPFD

Value	Measuring distance
182 µmol/m ²	100 mm
65 µmol/m ²	200 mm
34 µmol/m ²	300 mm

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

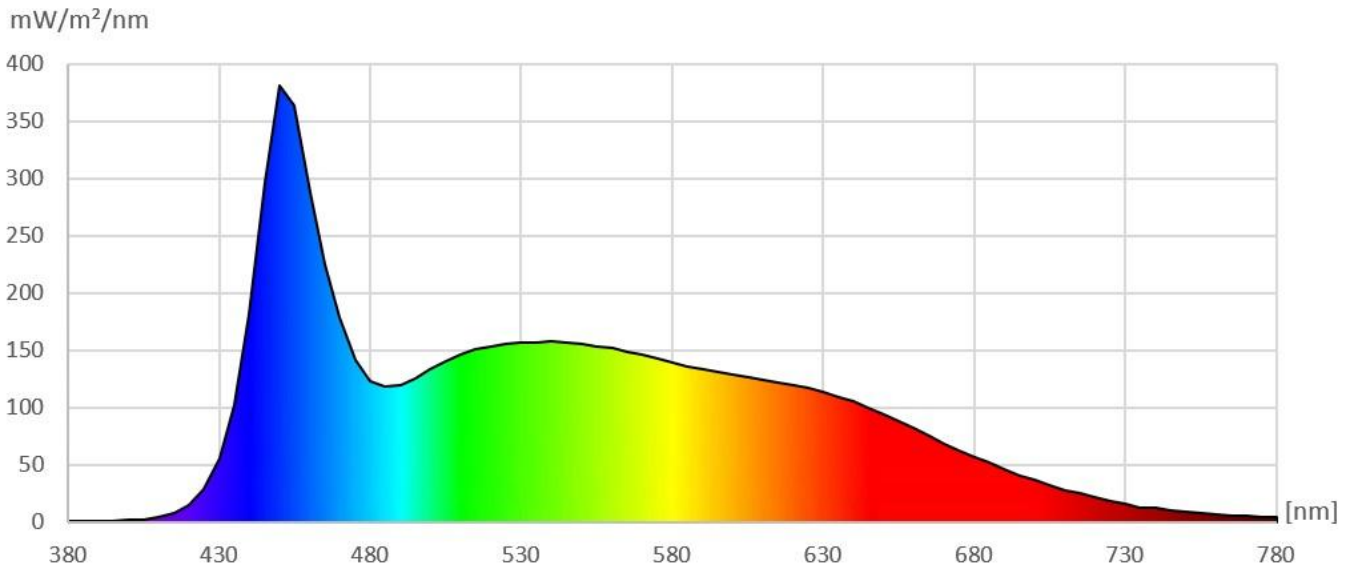
Directives	RoHS CE
------------	------------

Safety standards

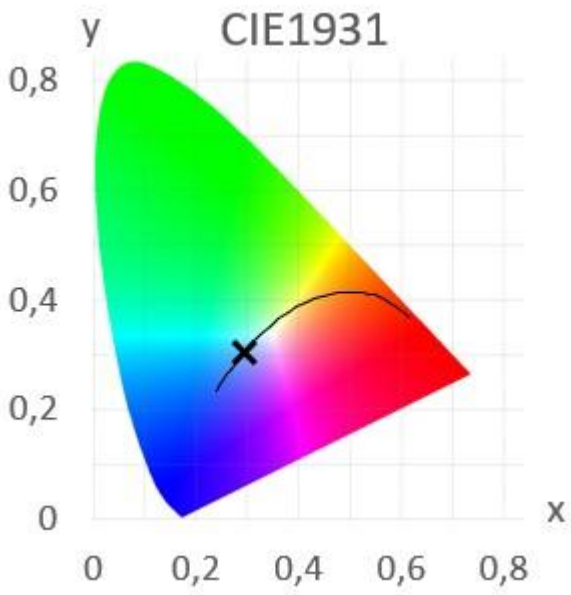
EN60598-1
EN62031
IEC62471

Measurement results

Wavelength



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.