

# Datasheet

## LuxaLight LED-strip Cool White 7800K Indoor (24 Volt, 140 LEDs, 2835, IP20)

**LS24CW140X2835ILX**

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## Product description

The **LuxaLight Professional LED Strip** is designed for lighting applications where high color rendering and a cool, bright light are required. With a color temperature of **7800K** and a Color Rendering Index (CRI) of over 95, this professional LED strip provides excellent light quality, essential for applications where accurate color representation and true-to-life color accuracy are important.

### Key Features:

- **7800K Color Temperature:** The **7800K** color temperature provides a cool, bright white light, ideal for workspaces, commercial environments, and other applications where bright light is needed for maximum visibility and productivity.
- **High CRI (Color Rendering Index) 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:** Since 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 Workspaces:** The **7800K** color temperature and high CRI value make this professional LED strip ideal for creating bright, true-to-life lighting in workspaces, offices, and commercial environments.
- **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 cool 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 cool, 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 bright and natural lighting is desired.

### Benefits:

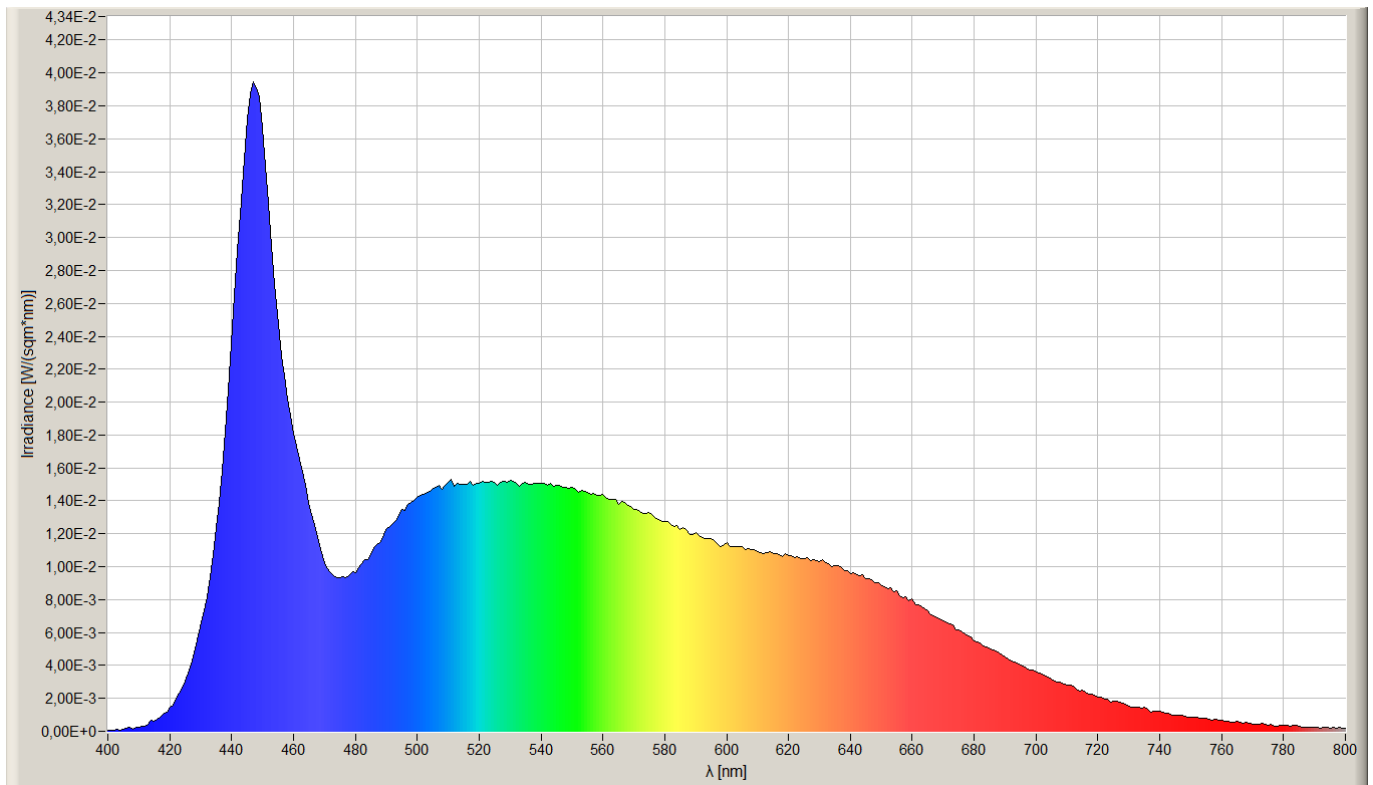
- **Excellent Color Rendering:** With a CRI of over 95, this professional LED strip provides accurate and natural color rendering, making it ideal for applications where color perception is crucial.
- **Cool Lighting:** The **7800K** color temperature delivers bright, cool white light, ideal for creating an energized and well-lit 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

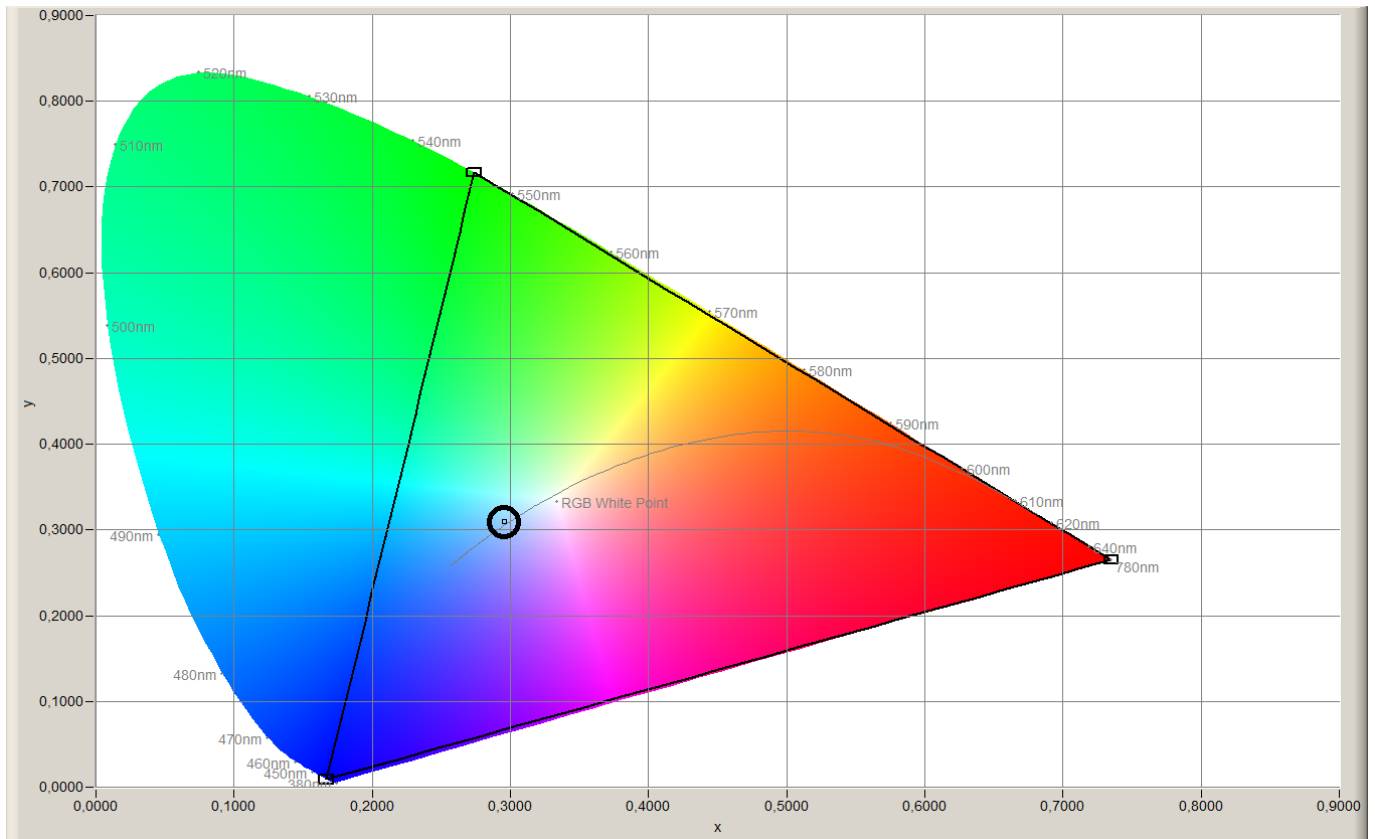
General	
Brand	LuxaLight
LEDs / meter	140
LED type	2835
Length per reel	10 m
Length per segment	50 mm
LED strip width	10.00 mm
LED strip thickness	3.00 mm
PCB color	White
Warranty	5 years
Lifetime	70000 hours
Lighting	
Color temperature	7700 ~ 7900 K
CRI	≥ 95
Luminous Flux	≈ 3000 lm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B50
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 20
Directives - standards - certificates	
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

## Measurement results

### Wavelength



## CIE1931



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