Datasheet

LuxaLight LED-strip Warm White 2600K Waterproof (24 Volt, 140 LEDs, 2835, IP68)

LS24WW140X2835WLX

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Product description

The **LuxaLight Professional LED Strip** is a high-quality lighting solution, ideal for both indoor and outdoor applications. The strip features a **vulcanized silicone sleeve**, offering enhanced protection against moisture, wear, and other external influences. With the **IP68** certification, the strip is fully dust-tight and resistant to immersion in water, making it perfect for use in damp environments, such as outdoor lighting or wet areas. The strip features 140 **2835 LEDs** per meter and offers a warm 2600K color temperature, combined with excellent color rendering (CRI > 95). These features make this LED strip ideal for applications where true-to-life lighting is required, such as in living spaces, workspaces, retail environments, and outdoor lighting.

Key Features:

- **2600K Color Temperature:** The warm 2600K lighting creates a cozy and inviting atmosphere, ideal for use in living rooms, offices, and commercial environments.
- **High CRI (≥95):** The excellent color rendering ensures true-to-life lighting, with colors displayed brightly and vividly, making it perfect for applications in retail, museums, and healthcare settings.
- **Vulcanized Silicone Sleeve and IP68 Certification:** The strip is equipped with a **vulcanized silicone sleeve**, providing protection against moisture, wear, and other influences. The **IP68** certification makes the strip fully dust-tight and resistant to immersion in water, making it ideal for outdoor lighting or environments exposed to moisture.
- **140 pcs 2835 LEDs per meter:** The strip features 140 **2835 LEDs** per meter, ensuring even and efficient light distribution.
- **3 oz/ft² PCB Thickness:** The PCB has a thickness of 3 oz/ft², providing robust support and efficient heat dissipation, making the strip reliable and durable.
- **3M 4905 VHB Tape:** The strip is equipped with **3M 4905 VHB tape**, ensuring strong and reliable attachment to various surfaces.

Applications:

- **Outdoor Lighting:** The **IP68** certification makes this strip perfect for outdoor lighting applications such as garden paths, patio lighting, and lighting along ponds or swimming pools.
- **Residential and Office Spaces (indoor):** The warm 2600K color temperature and high CRI value make this professional LED strip ideal for creating pleasant, true-to-life lighting in living rooms, offices, and conference rooms.
- **Retail and Display Windows:** The excellent color rendering ensures that products in stores and display windows are showcased at their best. The **IP68** certification makes the strip suitable for use in commercial environments exposed to weather conditions or light water splashes.
- **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 of utmost importance.
- **Healthcare and Medical Settings:** The warm, true-to-life lighting is ideal for healthcare settings, where lighting plays a key role in the well-being of patients and staff.
- **Outdoor Spaces and Swimming Pools:** Thanks to the **IP68** certification, this strip is resistant to immersion in water, making it ideal for outdoor spaces, swimming pools, or lighting projects in damp environments.

Benefits:

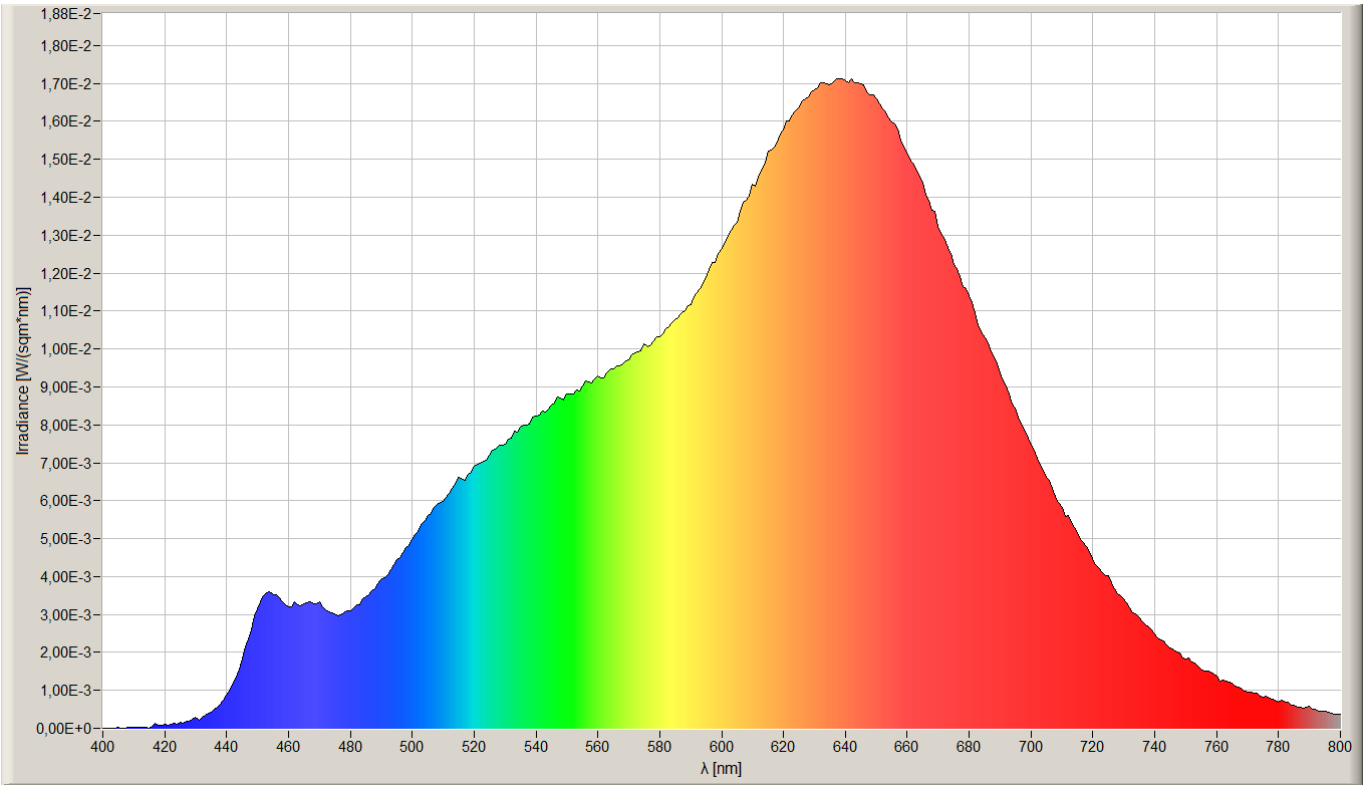
- **Excellent Color Rendering:** With a CRI of over 95, the professional LED strip provides accurate and natural color rendering, making it ideal for applications where color perception is crucial.
- **Warm Lighting:** The 2600K color temperature delivers a soft, warm glow, ideal for creating a comfortable and inviting 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	12.00 mm
LED strip thickness	5.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours
Lighting	
Color temperature	2500 ~ 2700 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 68
Directives - standards - certificates	
Directives	RoHS CE

Measurement results

Wavelength



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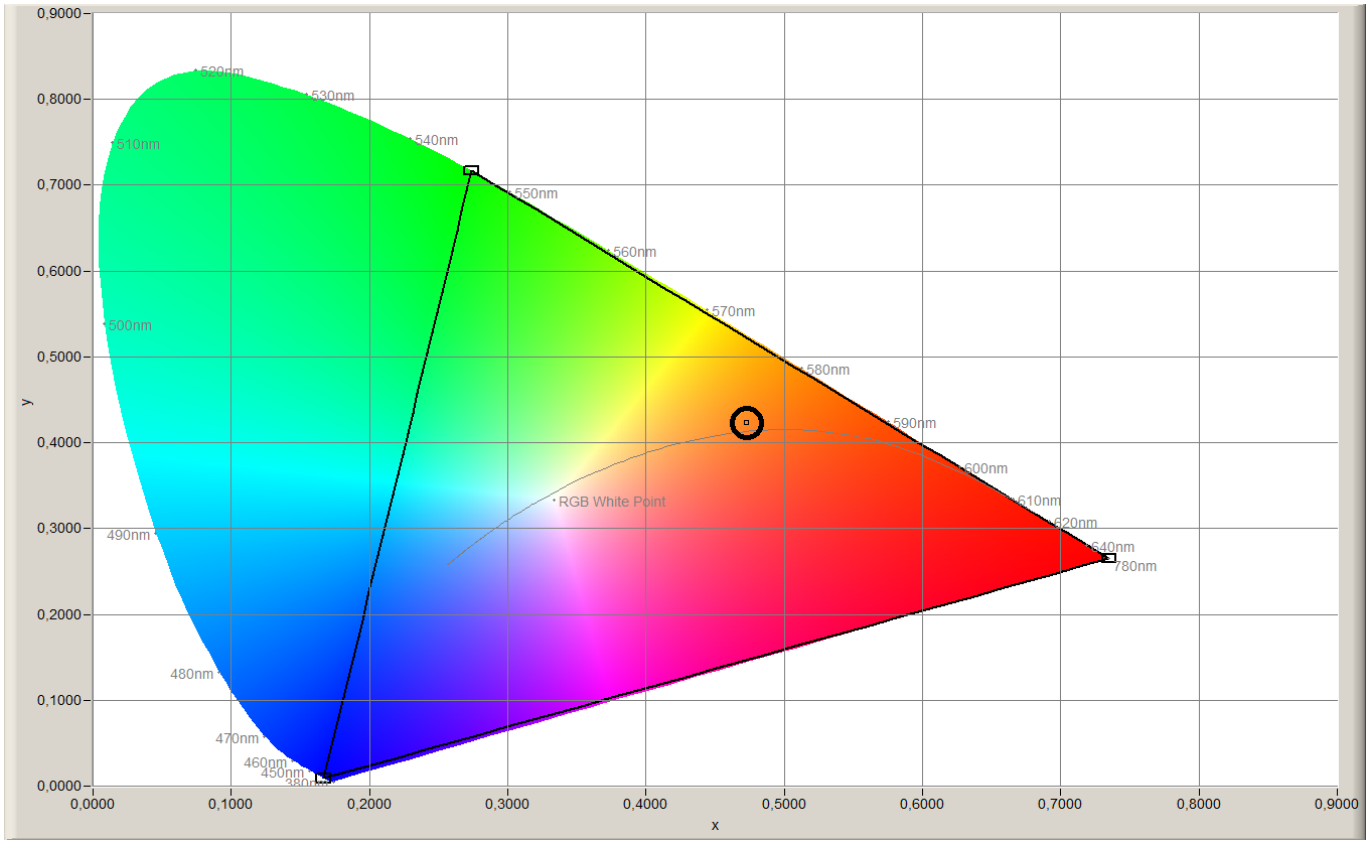
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RGB White Point

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