

Datasheet

LuxaLight LED-strip Warm White 2600K - Cool White 8600K Tunable Color Temperature Protected (24 Volt, 240 LEDs, 3527, IP64)

LS24CT240X3527PLX

Version: 2025-03-12.1

Product description

The LuxaLight Professional Tunable White LED strip is a versatile lighting solution, ideal for use in various indoor environments. This strip features an IP64 rating with a silicone coating, making it dust and splash-resistant, suitable for both dry and damp environments. It contains 240 3527 LEDs per meter, with 120 LEDs in a warm 2600K color temperature and 120 LEDs in a cool 8600K color temperature. This allows you to adjust the color temperature and customize the lighting to suit your specific needs, from cozy lighting to bright, energetic illumination. Thanks to the high LED density, the strip provides a beautiful homogeneous light output without visible hotspots.

The CRI (Color Rendering Index) of this LED strip is higher than 95, ensuring that colors in your space are rendered naturally and realistically, which is ideal for applications where color accuracy is important.

Key Features:

- **Tunable White (2600K – 8600K):** The strip offers adjustable color temperature from warm white (2600K) to cool white (8600K), allowing you to customize the lighting to your preference and the desired atmosphere.
- **240 3527 LEDs per Meter (120 LEDs 2600K and 120 LEDs 8600K):** The strip provides both warm 2600K lighting for a cozy ambiance and cool 8600K lighting for bright, energetic illumination.
- **High CRI >95:** With a CRI value of over 95, this LED strip ensures excellent color rendering, allowing colors to appear natural and vibrant, perfect for spaces where color accuracy matters.
- **High LED Density for Homogeneous Light Output:** Due to the high density of 3527 LEDs per meter, the strip delivers a uniform light distribution without visible hotspots, ensuring a smooth, consistent lighting effect.
- **IP64 Rating and Silicone Coating:** The strip is rugged and protected from dust and splash water with an IP64 rating and silicone coating. This makes it suitable for use in environments such as kitchens, bathrooms, or outdoor spaces under covered areas.
- **Easy Installation:** The strip comes with 3M 4905 VHB tape, ensuring a secure and reliable attachment to various surfaces for easy and long-lasting installation.

Applications:

- **Living and Workspaces:** The ability to switch between warm and cool lighting makes this LED strip perfect for living rooms, offices, or meeting rooms, where lighting can be adjusted to match the mood or task.
- **Kitchens and Bathrooms:** Thanks to the IP64 rating and silicone coating, the strip is ideal for damp environments like kitchens and bathrooms.
- **Retail and Showcases:** The versatility of the lighting makes this LED strip perfect for displaying products in stores and showcases, creating a dynamic shopping experience.
- **Creative and Artistic Projects:** The adjustable color temperature makes this LED strip perfect for creative lighting setups where atmosphere and ambiance are important.

Benefits:

- **Tunable White (2600K – 8600K):** The ability to adjust the color temperature between warm white and cool white offers flexibility for various applications and preferences, from cozy, warm lighting to bright, energizing light.
- **High CRI (>95) and Natural Color Rendering:** The high CRI value ensures that colors in your space are rendered naturally and realistically, making it ideal for applications where color accuracy is crucial.
- **Homogeneous Light Output:** The high LED density of 240 LEDs per meter ensures a beautiful, homogeneous light output without visible hotspots, providing a smooth and consistent lighting effect.
- **IP64 Rating and Silicone Coating:** The rugged protection against dust and splash water makes the strip suitable for use in various environments, both indoors and outdoors (under covered areas).
- **Efficient LED Technology:** The 3527 LEDs ensure uniform light distribution without visible hotspots, resulting in comfortable lighting without distracting shadows.
- **Reliable Performance:** The LED strip operates on a standard 24V power supply, offering stable, efficient performance, ideal for long-term use in both residential and commercial environments.
- **Durable and Energy-Efficient:** The LED technology is energy-efficient, providing a cost-effective and sustainable lighting solution.
- **Strong Adhesion:** The 3M 4905 VHB tape ensures reliable adhesion for easy and durable installation on various surfaces.

Technical specifications

General

| | |
|---------------------|-------------|
| Brand | LuxaLight |
| LEDs / meter | 240 |
| LED type | 3527 |
| Length per reel | 5 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 white | 8600 ~ 8800 K |
| Color temperature warm white | 2400 ~ 2600 K |
| CRI | ≥ 95 |
| Luminous Flux | 2268 lm |
| Luminous flux white | 1246 lm |
| Luminous flux warm white | 1022 lm |
| BIN | 3 SDCM |
| Beam angle | 120 ° |
| LB waarde | L80B50 |

Electronics

| | |
|-----------------------------|-----------------|
| Working voltage | 24V |
| Current / meter | 0.80 A / meter |
| Power consumption per meter | 19.20 W / meter |
| PCB material | Copper |

Environmental

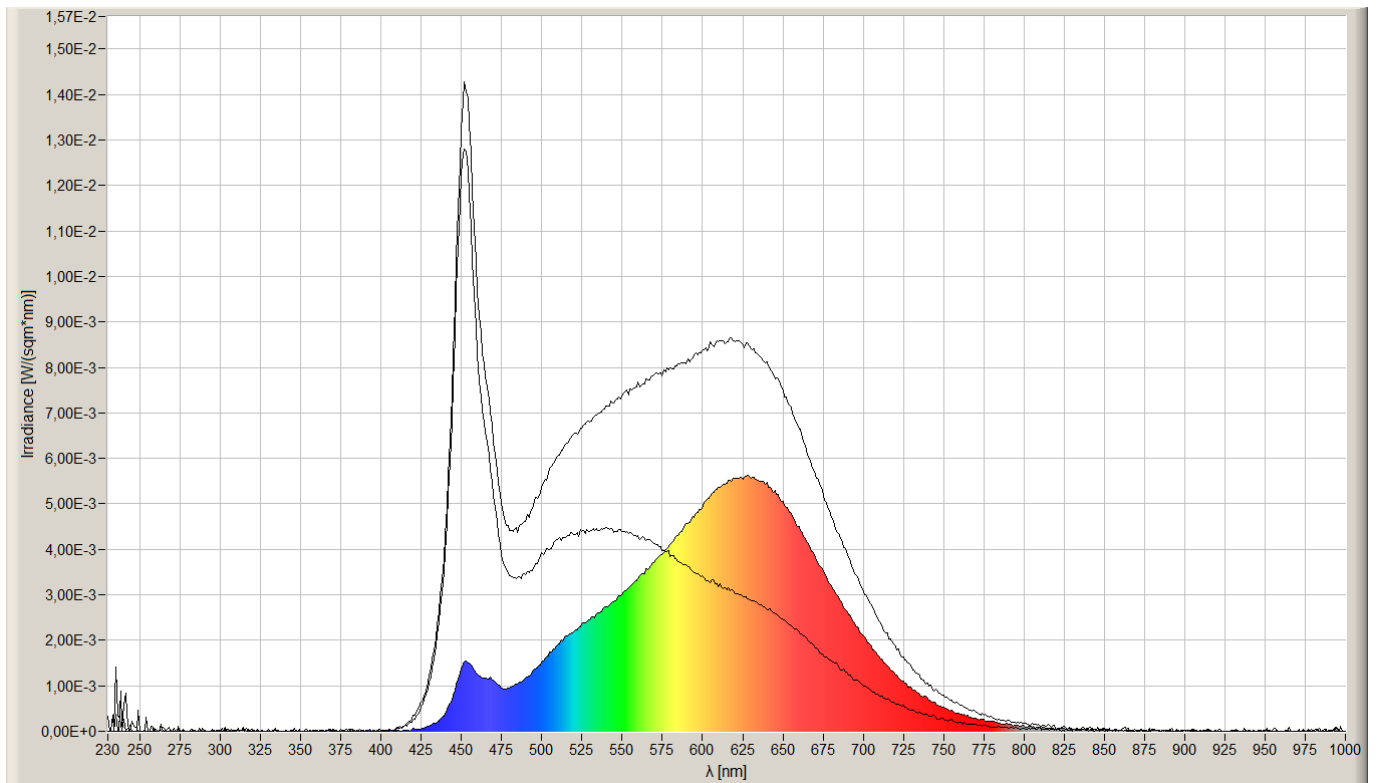
| | |
|-----------------------|--------------|
| Operating temperature | -20 ~ +60 °C |
| Storage temperature | -40 ~ +80 °C |
| IP class | IP 64 |

Directives - standards - certificates

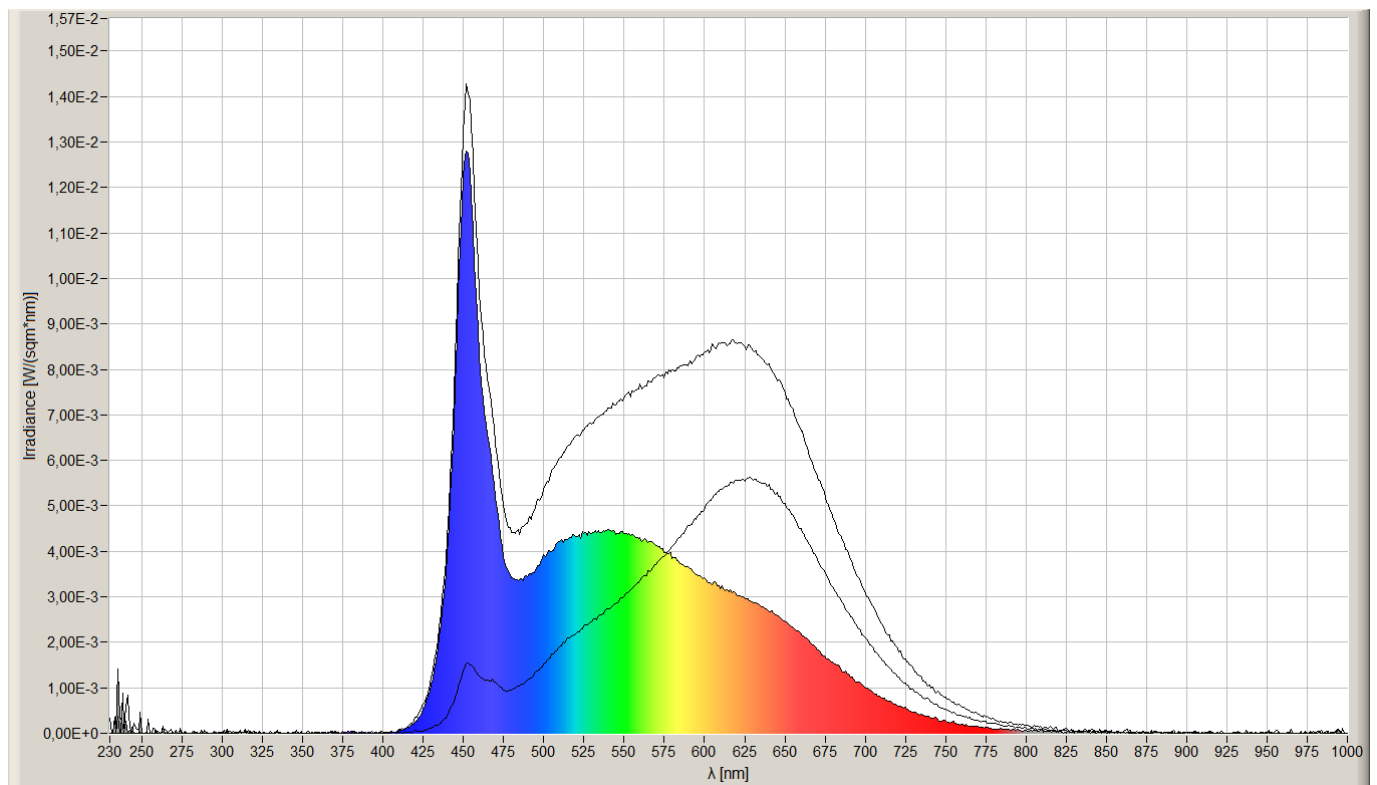
| | |
|------------------|----------------------------------|
| Directives | RoHS CE |
| Safety standards | EN60598-1 EN62031 IEC62471 |

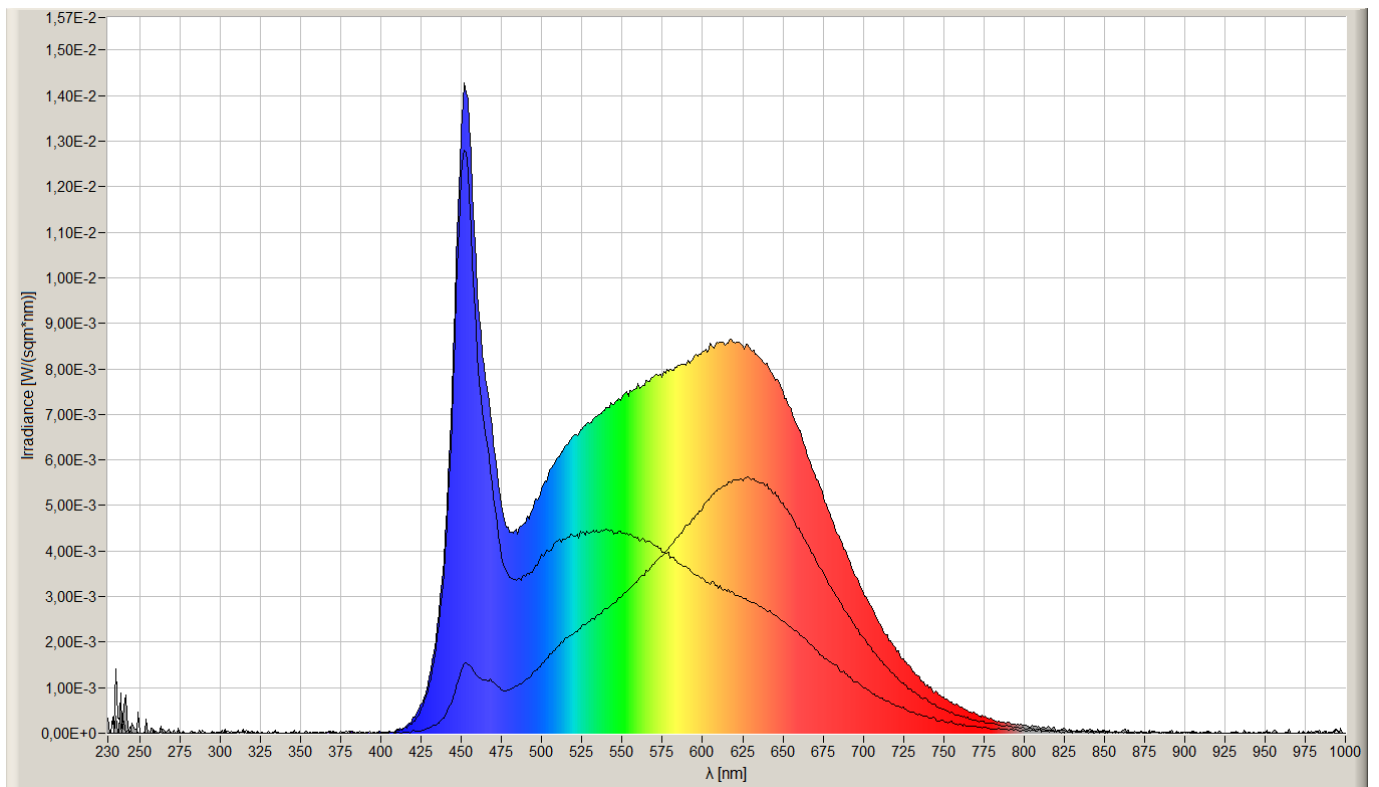
Measurement results

CIE1931 COOL WHITE



Wave Length COOL WHITE





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.