

# Datasheet

## LuxaLight LED-strip Red Indoor (30 Volt, 120 LEDs, 3528, IP20)

**LS30R120X3528ILX**

**Version: 2025-07-11.2**

## Product description

The **LuxaLight Professional LED Strip** is designed for lighting applications where high color rendering and a warm, pleasant light temperature are required. This strip contains **120 red 3528 LEDs per meter**, providing high light density and even coverage for optimal performance. The strip offers excellent light quality, ideal for applications where precise color rendering and true-to-life color accuracy are essential.

This LED strip is designed for use in trucks and vehicles, where **the supply voltage is often higher than 24V**. It is specifically designed for a **30V connection**, making it ideal for use in trucks without the risk of overloading the system. The strip is also equipped with **3M 4905 VHB tape**, ensuring strong and reliable adhesion to various surfaces, making it ideal for permanent installations.

### Key Features:

- **120 Red 3528 LEDs per Meter:** The strip contains **120 red 3528 LEDs per meter**, providing excellent brightness and color rendering for applications where red color is crucial.
- **Light Output Red LEDs:** The red LEDs provide **300 lumens per meter**, making the strip ideal for signaling applications where brightness and visibility are critical.
- **IP20 Certification:** The strip has an **IP20 certification**, meaning it is not waterproof and is primarily suitable for use in dry indoor environments.
- **30V Connection:** The professional LED strip works on a **30V power supply**, ensuring stable and reliable operation, especially suitable for trucks and vehicles, where the supply voltage is often higher than 24V.
- **Flexible Design:** The flexible design makes the LED strip **perfect for interior applications**, such as truck interior lighting, custom lighting systems, and other flexible lighting installations.
- **3M 4905 VHB Tape:** The strip is equipped with **3M 4905 VHB tape**, ensuring strong and durable attachment to various surfaces.

### Applications:

- **Truck Interiors:** Perfect for illuminating the interior of trucks, such as cabin lighting, storage compartments, beds, and workspaces in trucks, where functional and stylish lighting is desired.
- **Truck Upholstery:** Ideal for lighting upholstered surfaces such as seats, couches, floors, and ceilings in trucks. These LED strips can create a cozy and well-lit interior experience for drivers.
- **Sleeping and Sitting Areas in Trucks:** Suitable for illuminating sleeping and sitting areas in trucks, providing comfortable lighting in these spaces.
- **Work Space Lighting:** Can be used to light up workspaces and storage areas in trucks, so drivers can easily see what is needed while driving or parking.
- **Dashboard and Control Panel Lighting:** Can be applied to highlight dashboards and control panels, making it easier to operate vehicles under different lighting conditions.
- **Main Curtain and Door Lighting:** Suitable for illuminating curtains, doors, and other key interior components of trucks, where visibility is essential.

### Benefits:

- **Excellent Color Rendering:** The **120 red 3528 LEDs per meter** provide a bright, intense red color, ideal for signaling applications.
- **Flexible and Customizable:** Thanks to its flexible design, the strip can be easily integrated into various lighting setups and is **perfect for interior applications** such as in trucks or custom systems.
- **Uniform Light Distribution:** The strip provides consistent and even light distribution, ensuring pleasant lighting without harsh shadows.
- **Reliable Performance:** The LED strip works on a **30V power supply** and provides efficient, stable performance, making it an ideal choice for long-term use in trucks and vehicles.
- **Durable and Energy-Efficient:** LED technology is energy-efficient, making the strip not only cost-effective but also contributing 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	120
LED type	3528
Length per reel	10 m
Length per segment	50 mm
LED strip width	8.00 mm
LED strip thickness	3.00 mm
PCB color	White
Warranty	5 years
Lifetime	50000 hours
Lighting	
Luminous Flux	300 lm
Wave length	620~630
BIN	3 SDCM
Beam angle	120 °
LB waarde	L80B50
Measurement results	
Illuminance (Lux) (Object length: 200 mm)	30V
	5cm 3561 lx
	10cm 1333 lx
	15cm 681.9 lx
	20cm 418.2 lx
	25cm 283.4 lx
	30cm 211.6 lx
Total PPFD umol/m2 (PAR 400-700nm) (Object length: 200 mm)	30V
	5cm 88.6135 umol/m2
	10cm 33.1195 umol/m2
	15cm 17.0452 umol/m2
	20cm 10.5042 umol/m2
	25cm 7.12039 umol/m2
	30cm 5.32571 umol/m2
Peak wavelength (Object length: 200 mm)	629 nm
Electronics	
Working voltage	30V
Current / meter	0.40 A / meter
Power consumption per meter	12.00 W / meter
PCB material	Copper

## Environmental

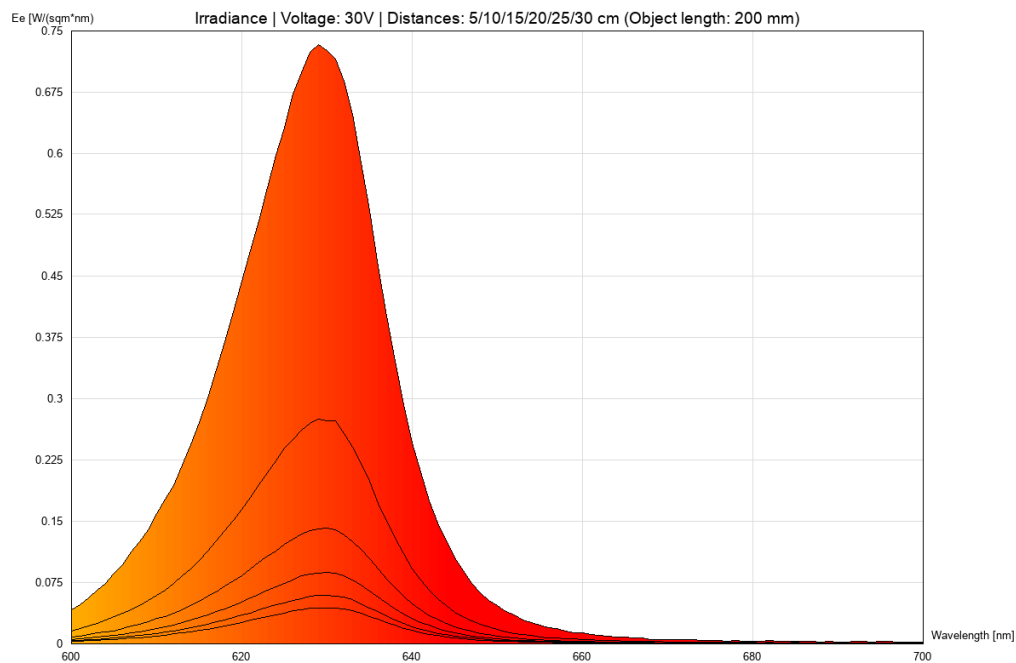
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 20

## Directives - standards - certificates

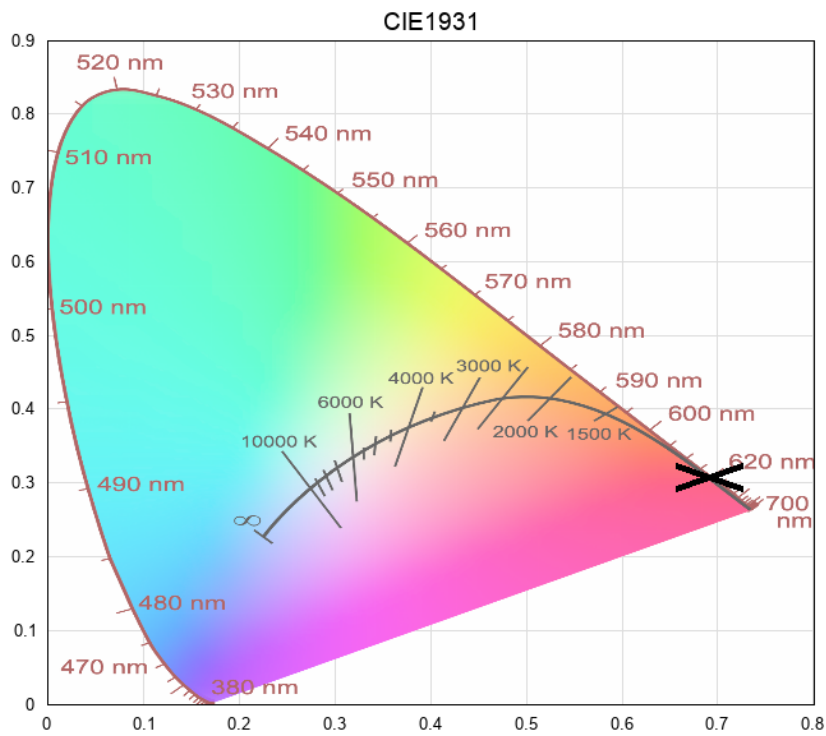
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

## Measurement results

### irradiance - 600-700-red (30V)



## cie1931



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