

Datasheet

LuxaLight LED-strip RGB Protected (30 Volt, 60 LEDs, 5050, IP64)

LS30RGB60X5050PLX

Version: 2025-03-10.2

Product description

The **LuxaLight Professional RGB LED Strip** is designed for lighting applications where high color rendering and dynamic color effects are required. This strip contains **120 RGB 5050 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, with the added flexibility of adjustable RGB color settings.

This RGB 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. Additionally, the strip has an **IP64 certification**, making it suitable for use in environments exposed to dust and water splashes.

Key Features:

- **60 RGB 5050 LEDs per Meter:** The strip contains **60 RGB 5050 LEDs per meter**, providing excellent brightness and dynamic color rendering for various lighting applications.
- **Light Output RGB LEDs:** The RGB LEDs provide full-color capabilities, making it ideal for creating customizable lighting effects and ambiance in various applications.
- **IP64 Certification:** The strip has an **IP64 certification**, making it dust-resistant and splash-proof, suitable for use in environments exposed to moisture, such as truck interiors.
- **30V Connection:** The professional RGB 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:

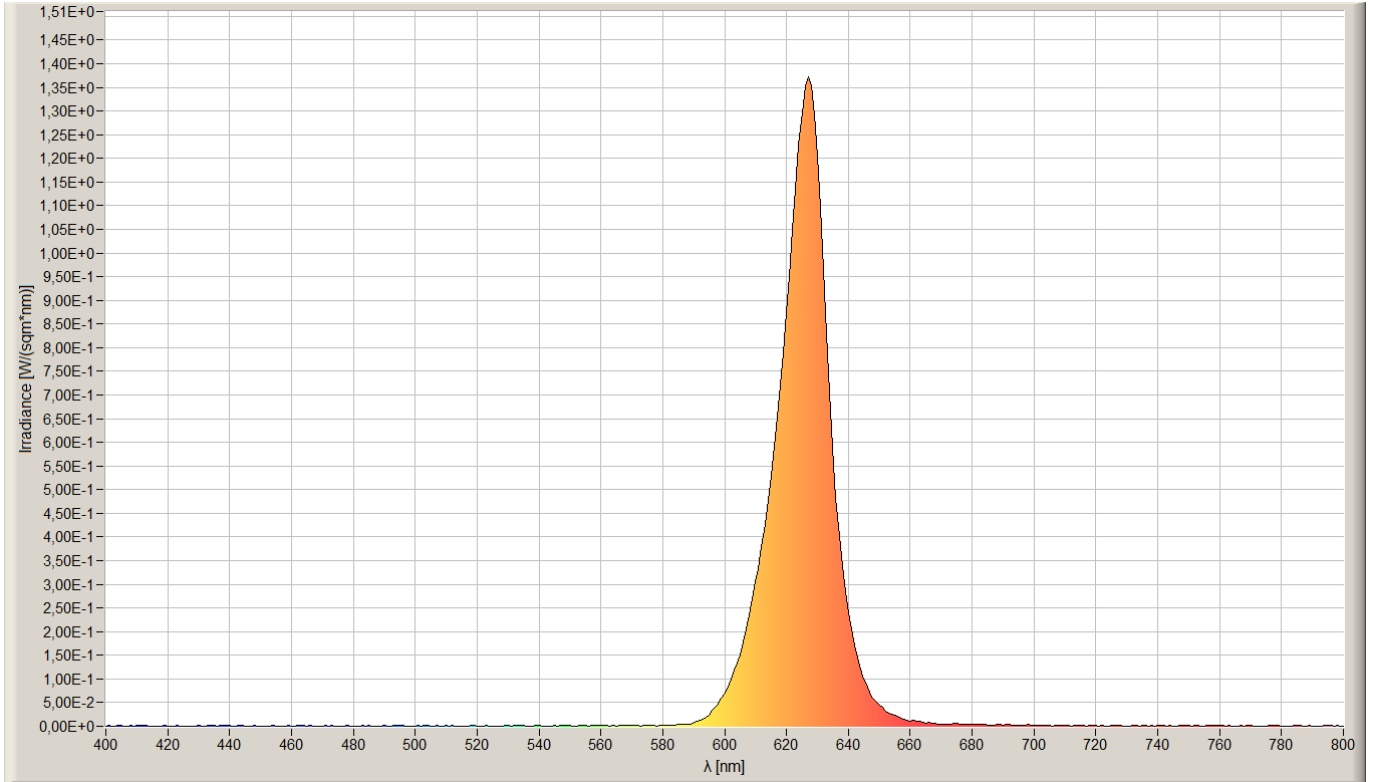
- **Dynamic RGB Color Options:** The **60 RGB 5050 LEDs per meter** provide full-color capabilities, ideal for creating customizable lighting effects and ambiance.
- **Flexible and Customizable:** Thanks to its flexible design, the strip can be easily integrated into various lighting setups and is **perfect 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 RGB 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:** RGB 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

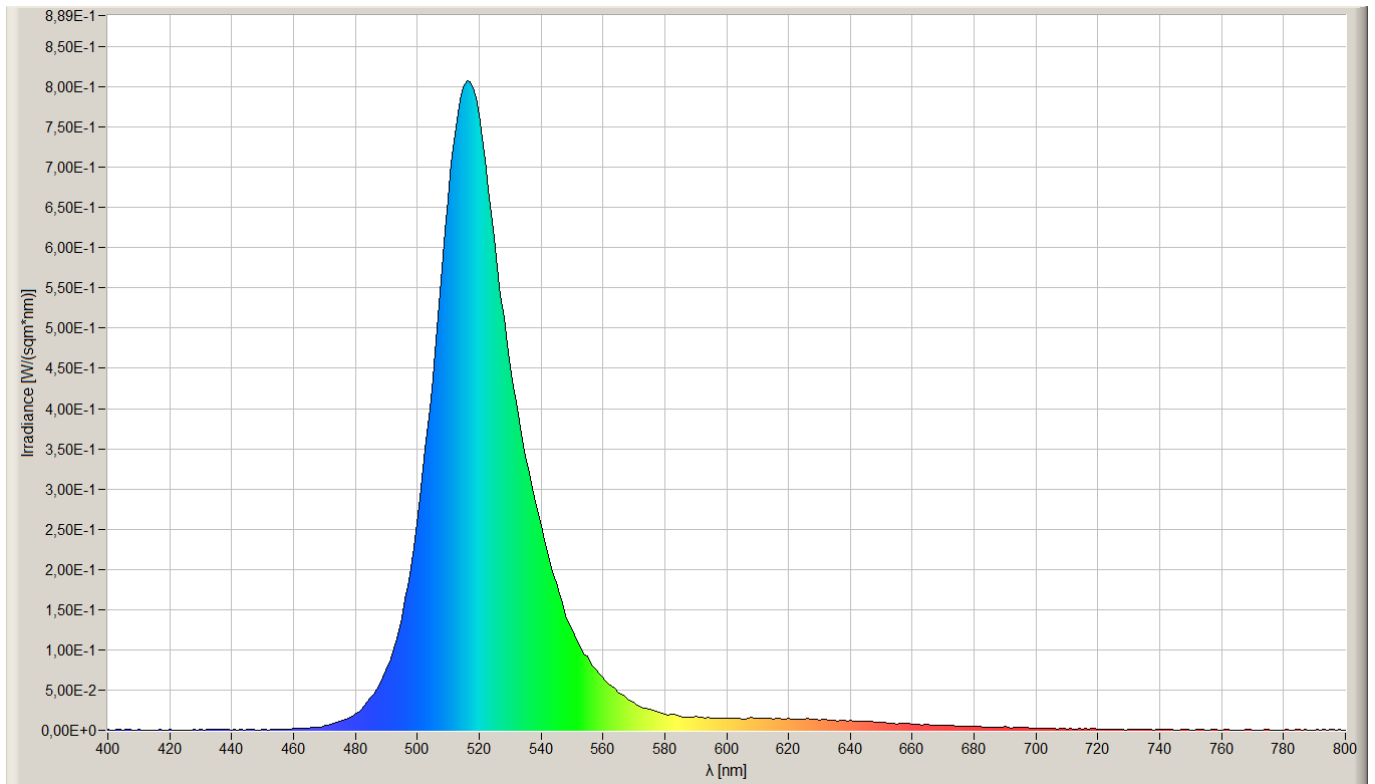
General	
Brand	LuxaLight
LEDs / meter	60
LED type	5050
Length per reel	10 m
Length per segment	100 mm
LED strip width	10.00 mm
LED strip thickness	4.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours
Lighting	
Luminous Flux	675 lm
Luminous flux red	200 lm
Luminous flux green	290 lm
Luminous flux blue	185 lm
Wave length Red	620~630 nm
Wave length Green	510~525 nm
Wave length Blue	455~470 nm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L80B50
Electronics	
Working voltage	30V
Current / meter	0.48 A / meter
Power consumption per meter	14.40 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

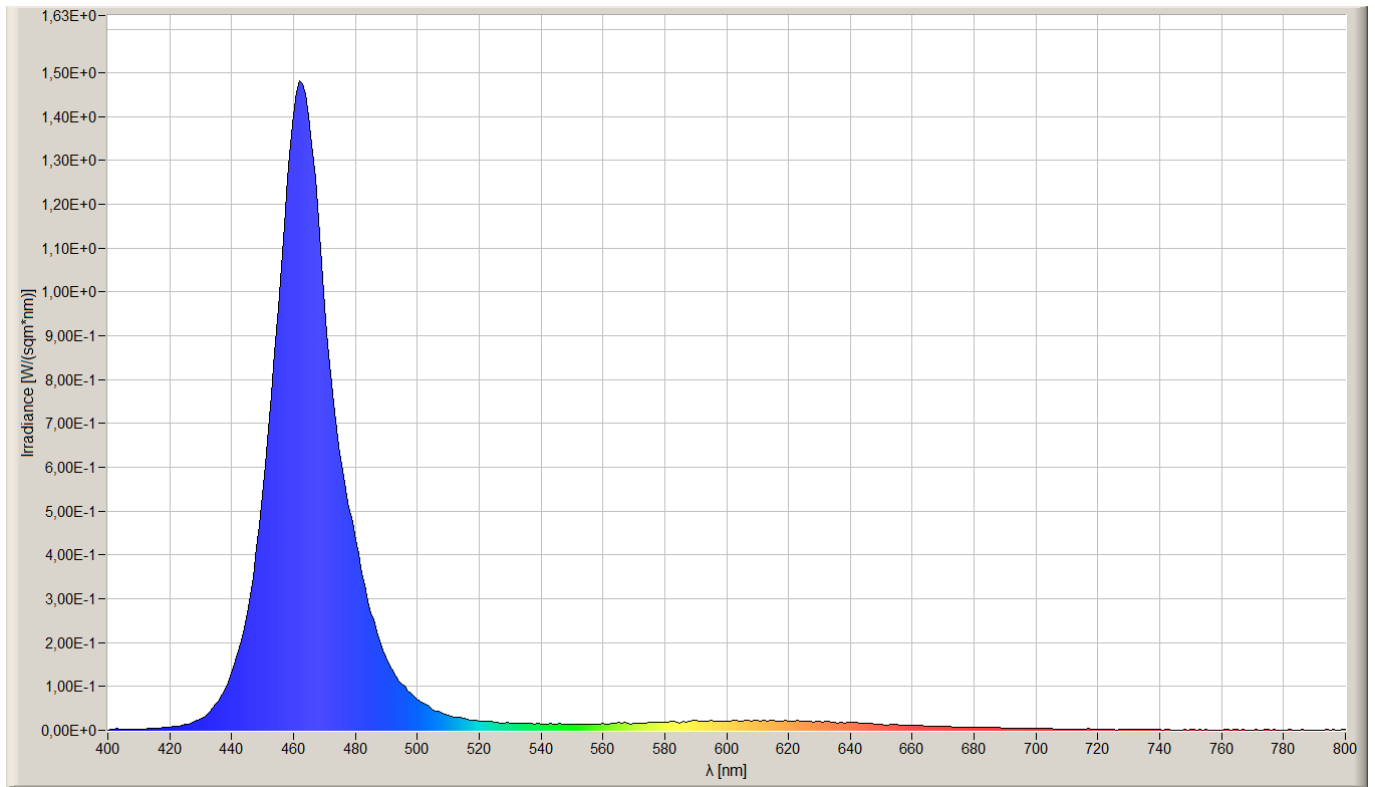
Wavelength Red



Wavelength Green



Wavelength Blue



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.