

# Datasheet

## LuxaLight LED-strip 24V Red Green Protected 2835 (24 Volt, 192 LEDs, 2835, IP64)

**LS24RG192X2835PLX**

**Version: 2025-03-03.4**

## Product description

The **LuxaLight Professional LED Strip** is a high-quality lighting solution, ideal for use in various indoor and outdoor applications. This strip is designed with a silicone layer and has an IP64 rating, making it dust and splash resistant, and suitable for both indoor and outdoor use. The strip contains **192 2835 LEDs per meter**, with 96 red and 96 green LEDs per meter, which can be controlled separately for flexible color settings. This makes the LED strip perfect for industrial applications such as barrier signaling, traffic guidance, and other situations where high visibility is essential.

### Key Features:

- **192 2835 LEDs per meter (96 Red and 96 Green LEDs):** The strip contains 96 red and 96 green LEDs per meter, providing excellent visibility and brightness, with the ability to control the color channels separately.
- **Separately Controllable Color Channels:** The green and red channels can be controlled separately, giving you full control over the color settings and the intensity of the lighting.
- **Light Output Red LEDs:** 475 lumens per meter.
- **Light Output Green LEDs:** 1754 lumens per meter.
- **Silicone Layer and IP64 Certification:** The strip features a durable silicone layer and is IP64 certified, providing protection against dust and water splashes. This makes the strip suitable for both indoor and outdoor applications, even in environments with limited exposure to moisture.
- **3 oz/ft<sup>2</sup> PCB Thickness:** The PCB has a thickness of 3 oz/ft<sup>2</sup>, 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:

- **Industrial Applications:** The green and red channels are perfect for industrial applications such as barrier signaling, traffic guidance, and other situations where high visibility of green and red is essential.
- **Traffic Signaling:** The LED strip is ideal for traffic signaling, such as traffic lights and detours, where a clear and visible indication of green and red is required.
- **Warning Systems:** Suitable for creating warning signs and signaling in hazardous environments, such as factories, construction sites, or busy traffic intersections.
- **Alarm and Safety Systems:** The strip can be used for alarm systems that need to provide visual signals, for example, in fire, burglary, or other emergency situations.
- **Construction and Warehouse Signaling:** Use the LED strip to mark hazards in warehouses or construction sites, where clear visual signals are critical for safety.
- **Navigation and Directional Guidance:** Ideal for indicating emergency exits, passageways, and other important routes in industrial and commercial settings.
- **Lighting for Transport and Logistics Sectors:** The strip can be used for visual guidance in the transport sector, such as at loading/unloading stations or on vehicles for increased visibility.
- **Boom Gates:** The LED strip is ideal for use in boom gates at parking lots or access control systems, where clear visual signals of green and red are essential for safety and efficiency.

### Benefits:

- **Flexible Control:** The green and red channels can be controlled separately for maximum flexibility, allowing you to create various lighting settings for different signaling applications.
- **96 Red and 96 Green LEDs per meter (Total 192 2835 LEDs):** This ratio provides balanced color distribution and bright output, ideal for industrial applications where visibility is critical.
- **Light Output Red LEDs (475 lumens per meter):** The red LEDs provide a bright and visible light, making them ideal for applications where red visibility is needed.
- **Light Output Green LEDs (1754 lumens per meter):** The green LEDs offer intense light output, making them perfect for applications requiring high brightness and visibility of green.
- **Uniform Light Distribution:** With 192 2835 LEDs per meter, the strip provides consistent and even light distribution, ensuring pleasant and comfortable lighting without harsh shadows.
- **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	192
LED type	2835
Length per reel	10 m
Length per segment	62.5 mm
LED strip width	12.00 mm
LED strip thickness	4.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours

### Lighting

Luminous Flux	2229 lm
Luminous flux red	475 lm
Luminous flux green	1754 lm
Wave length Red	625~635nm
Wave length Green	510~525nm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B50

### Electronics

Working voltage	24V
Current / meter	1.66 A / meter
Power consumption per meter	39.84 W / meter
PCB material	Copper

#### Pinout

Symbol	Function
V+	V+
R	Red channel
G	Green channel

### Environmental

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

### Directives - standards - certificates

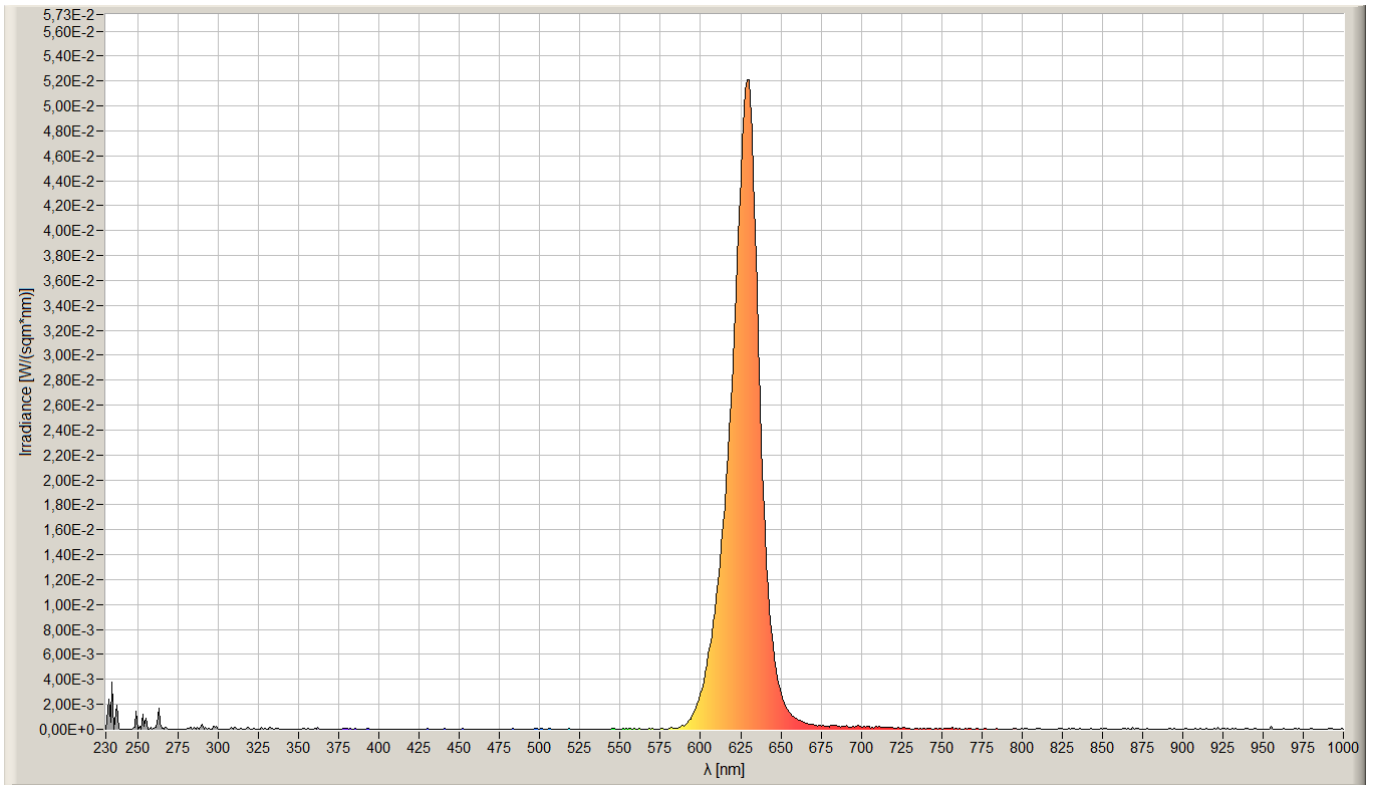
Directives	RoHS CE
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Safety standards

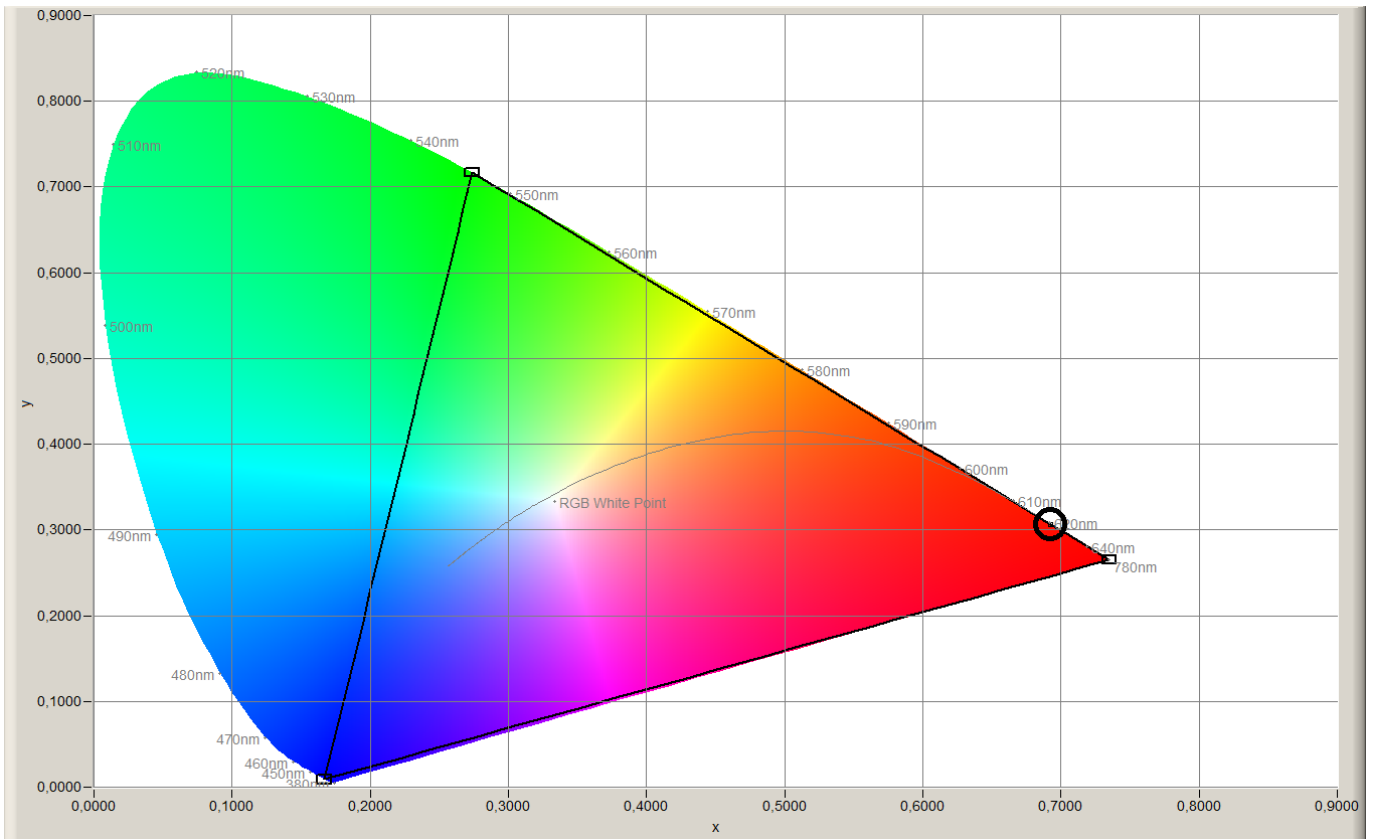
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## Measurement results

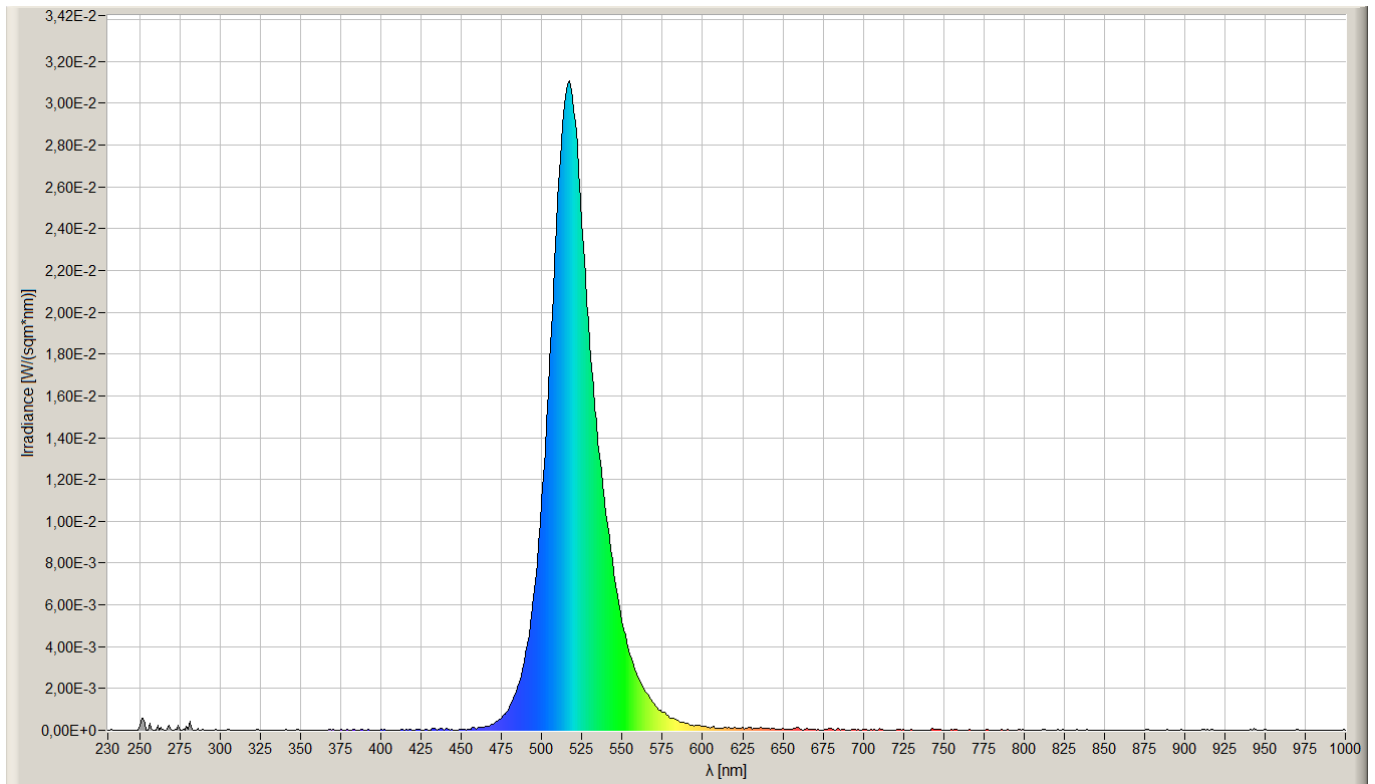
### Wavelength RED



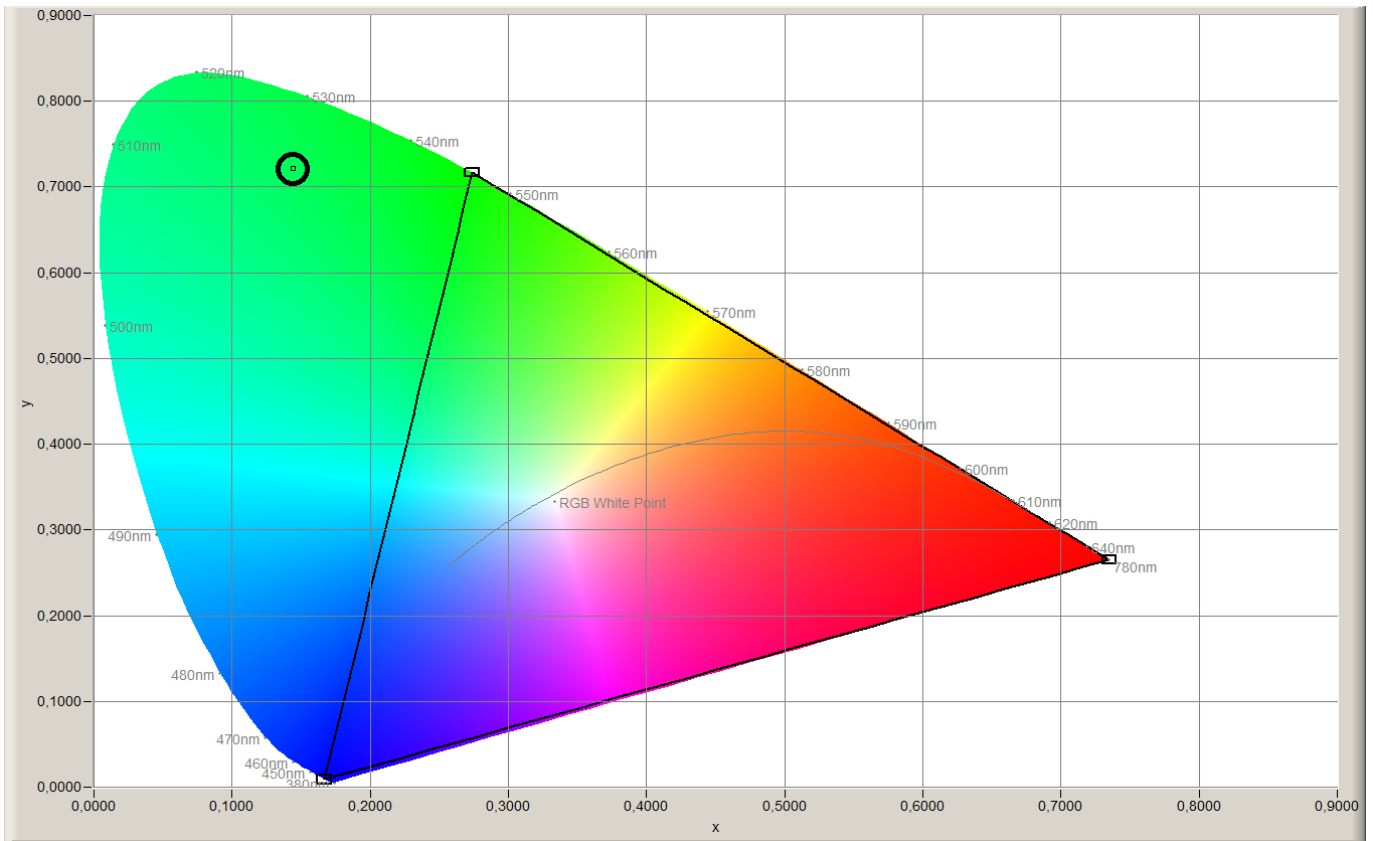
**CIE1931 RED**



### Wavelength Green



CIE1931 Green





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