

Datasheet

LuxaLight LED-strip Green Protected (24 Volt, 140 LEDs, 2835, IP64)

LS24G140X2835PLX

Version: 2025-07-03.1

Product description

The **LuxaLight Professional LED strip in green (517 nm)** is designed for applications where vibrant, highly visible yellow lighting is essential. With a specific wavelength of 517 nanometers, this LED strip emits a pure, saturated yellow light that enhances visual impact, making it ideal for decorative, commercial, safety, and architectural lighting.

Key Features:

- **517 nm Green Wavelength:** Emits a clear, bright green light perfect for accent, signal, and feature lighting applications.
- **140 pcs 2835 LEDs per Meter:** Delivers high light density and uniform illumination for consistent brightness along the strip.
- **Flexible Design:** Allows easy integration into various lighting configurations including profiles, fixtures, or custom lighting systems.
- **3 oz/ft² PCB Thickness:** Ensures robust thermal management and mechanical strength, enhancing durability and reliability.
- **Passive Cooling Required:** Should be used with proper heat dissipation to ensure long-term performance.
- **3M 4905 VHB Tape:** Offers strong adhesion to a wide variety of surfaces, simplifying permanent installations.

Applications:

- **Architectural and Accent Lighting:** Perfect for outlining building features or adding colorful highlights to structures and interiors.
- **Retail and Visual Merchandising:** Draws attention to specific products or zones in shops and showrooms.
- **Entertainment and Events:** Ideal for stages, exhibitions, and themed lighting where bold colors enhance the atmosphere.
- **Safety and Warning Lighting:** Green is commonly used for cautionary and signal lighting in industrial or public spaces.
- **Signage and Wayfinding:** Enhances visibility and legibility in indoor and outdoor signage systems.

Benefits:

- **Green Output (517 nm):** Produces a distinct and eye-catching yellow color for high-visibility applications.
- **Uniform Illumination:** With 140 LEDs per meter, the strip ensures even light distribution without dark spots.
- **Flexible and Customizable:** Easily integrates into a range of lighting designs thanks to its flexible construction.
- **Reliable and Energy-Efficient:** Uses efficient LED technology that delivers stable performance with reduced energy consumption.
- **Easy Installation:** Strong adhesive backing with 3M VHB tape enables fast, reliable mounting on various surfaces.
- **Durable Construction:** Reinforced PCB ensures longevity, especially when used with proper thermal management.

Technical specifications

General		
Brand	LuxaLight	
LEDs / meter	140	
LED type	2835	
Length per reel	10 m	
Length per segment	50 mm	
LED strip width	10.00 mm	
LED strip thickness	4.00 mm	
PCB color	White	
Mantle material	Silicon	
Dimensions	10.000 × 10 × 4 m	
Mounting	3M tape VHB4905	
Warranty	5 years	
Lifetime	70000 hours	
Lighting		
Luminous Flux	2800 lm	
Wave length	517 nm	
BIN	3 SDCM	
Beam angle	120 °	
LB waarde	L90B50	
Measurement results		
Illuminance (Lux) (Object length: 200 mm)		24V
	5cm	31040 lx
	10cm	11690 lx
	15cm	6097 lx
	20cm	3765 lx
	25cm	2571 lx
	30cm	1932 lx
Total PPFD umol/m2 (PAR 400-700nm) (Object length: 200 mm)		24V
	5cm	301.87 umol/m2
	10cm	113.395 umol/m2
	15cm	58.9931 umol/m2
	20cm	36.4467 umol/m2
	25cm	24.9004 umol/m2
	30cm	18.679 umol/m2
Peak wavelength (Object length: 200 mm)	516 nm	
Electronics		
Working voltage	24V	

Current / meter	1.00 A / meter							
Power consumption per meter	24.00 W / meter							
PCB material	Copper							
Pinout	<table><tr><th>Symbol</th><th>Function</th></tr><tr><td>V+</td><td>V+</td></tr><tr><td>GND</td><td>Ground</td></tr></table>		Symbol	Function	V+	V+	GND	Ground
Symbol	Function							
V+	V+							
GND	Ground							

Environmental

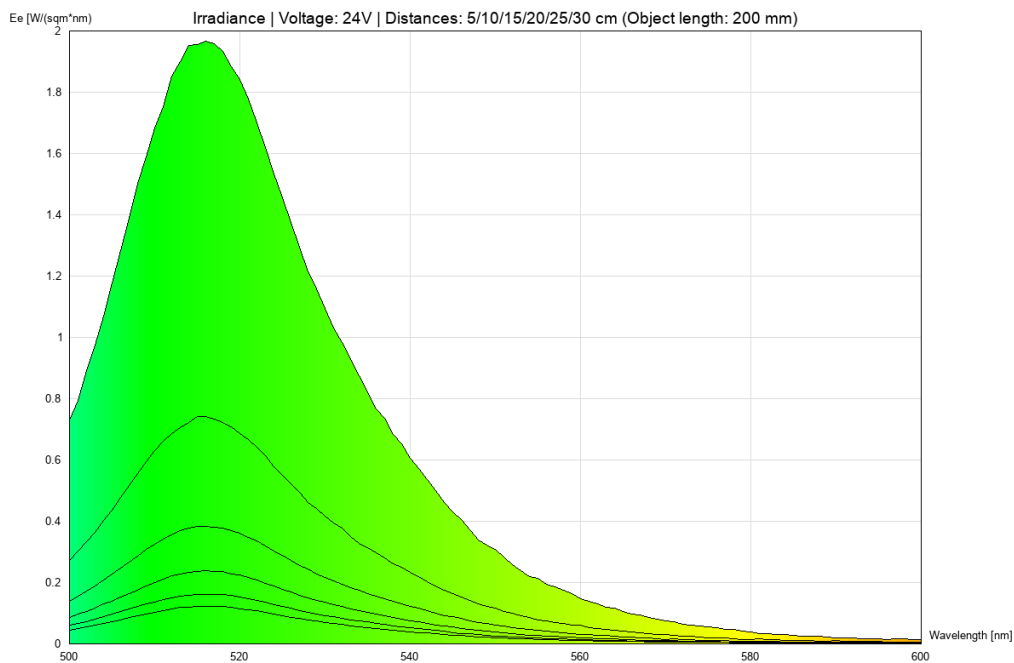
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

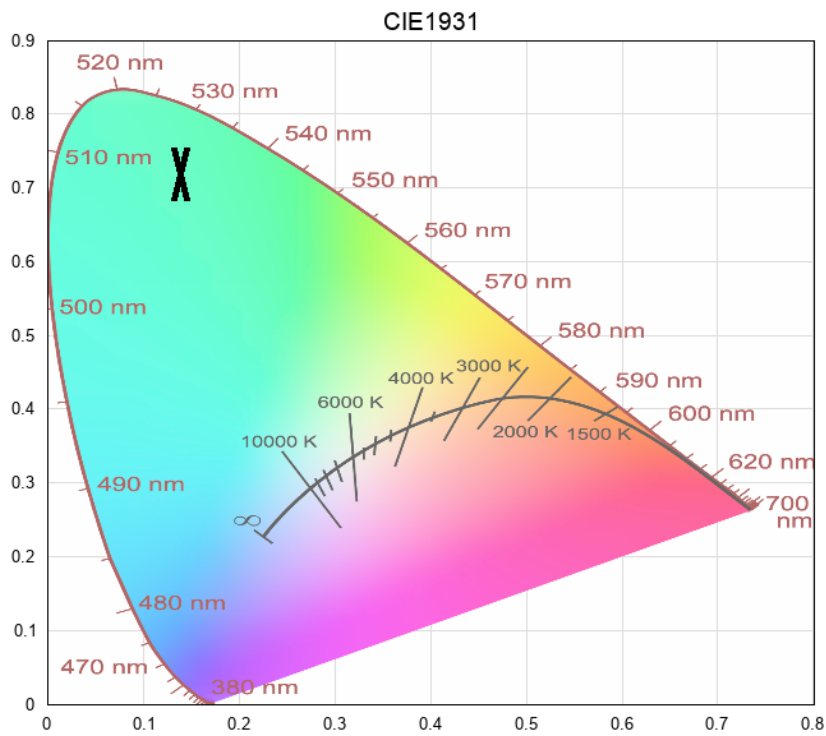
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - 500-600-green (24V)



cie1931



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.