Datasheet

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

LS24G140X2835PLX

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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	
Wave length	517 nm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B50

Measurement results

Illuminance (Lux)
(Object length: 200 mm)

	24V
2.5cm	76050 lx
5cm	29900 lx
7.5cm	16130 lx
10cm	10530 lx
20cm	3680 lx
30cm	1921 lx

Total PPFD umol/m2 (PAR 400-700nm)
(Object length: 200 mm)

	24V
2.5cm	731.022 umol/m2
5cm	287.993 umol/m2
7.5cm	155.239 umol/m2
10cm	101.252 umol/m2
20cm	35.3551 umol/m2
30cm	18.4624 umol/m2

Peak wavelength
(Object length: 200 mm)
517 nm

Peak irradiance
(Object length: 200 mm)

	24V
2.5cm	4.70813 W/sqm
5cm	1.83646 W/sqm
7.5cm	0.992639 W/sqm
10cm	0.644586 W/sqm
20cm	0.226397 W/sqm
30cm	0.119435 W/sqm

Total irradiance
(Object length: 200 mm)

	24V
2.5cm	173.7 W/sqm
5cm	68.36 W/sqm
7.5cm	36.55 W/sqm
10cm	23.71 W/sqm
20cm	8.176 W/sqm
30cm	4.249 W/sqm

Electronics

Working voltage	24V
Current / meter	1.00 A / meter
Power consumption per meter	24.00 W / meter
PCB material	Copper

Pinout

Symbol	Function
V+	V+
GND	Ground

Environmental

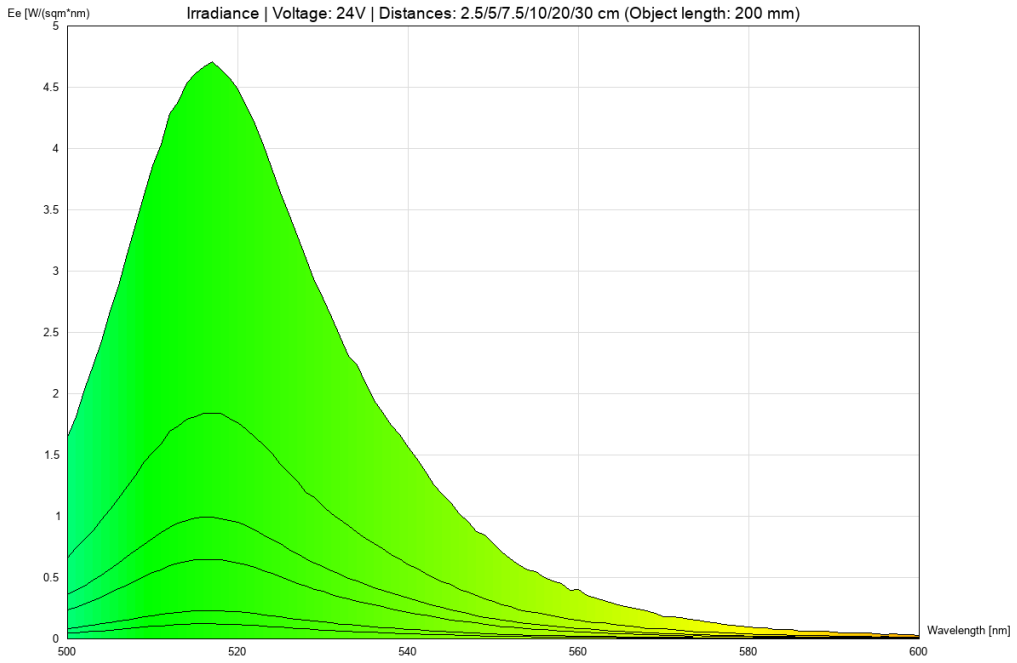
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - 500-600-green (24V)



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