

Datasheet

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

LS24Y140X2835PLX

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Product description

The **LuxaLight Professional LED strip in yellow (595 nm)** is designed for applications where vibrant, highly visible yellow lighting is essential. With a specific wavelength of 595 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:

- **595 nm Yellow Wavelength:** Emits a clear, bright yellow 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:** Yellow 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:

- **Yellow Output (595 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 mm	
Mounting	3M tape VHB4905	
Warranty	5 years	
Lifetime	70000 hours	
Lighting		
Luminous Flux	1122 lm	
Wave length	595 nm	
BIN	3 SDCM	
Beam angle	120 °	
LB waarde	L90B50	
Measurement results		
Illuminance (Lux) (Object length: 200 mm)		24V
	2.5cm	26960 lx
	5cm	10300 lx
	7.5cm	5350 lx
	10cm	3557 lx
	20cm	1431 lx
	30cm	821.6 lx
	Total PPFD umol/m2 (PAR 400-700nm) (Object length: 200 mm)	
2.5cm		271.902 umol/m2
5cm		103.74 umol/m2
7.5cm		53.7163 umol/m2
10cm		35.5886 umol/m2
20cm		14.2188 umol/m2
30cm		8.05236 umol/m2
Peak wavelength (Object length: 200 mm)		594 nm

Peak irradiance

(Object length: 200 mm)

	24V
2.5cm	2.61657 W/sqm
5cm	0.998315 W/sqm
7.5cm	0.519783 W/sqm
10cm	0.346809 W/sqm
20cm	0.140258 W/sqm
30cm	0.0811519 W/sqm

Total irradiance

(Object length: 200 mm)

	24V
2.5cm	58.68 W/sqm
5cm	21.86 W/sqm
7.5cm	11.14 W/sqm
10cm	7.315 W/sqm
20cm	2.909 W/sqm
30cm	1.66 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

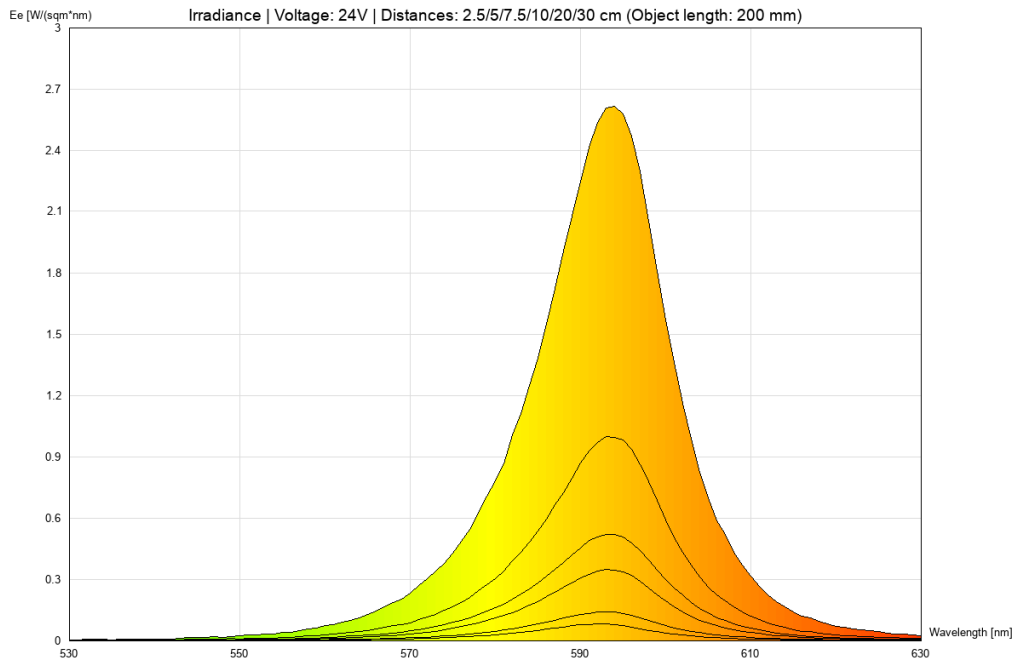
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - 530-630-yellow (24V)



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