

Datasheet

LuxaLight UV LED-strip 395nm Protected (24 Volt, 140 LEDs, 2835, IP64)

LS24UV395X140X2835PLX

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Product description

The **LuxaLight Industrial 395nm LED Strip** is designed for demanding industrial environments, providing an exceptionally effective UV-A lighting solution with a 395nm wavelength. This LED strip is perfect for applications such as curing, sterilization, reactor processes, and inspection. Featuring **140 high-performance LEDs**, the strip delivers uniform and consistent UV-A radiation with an impressive output of **309 W/m²** at a **distance of 2.5 cm**, ensuring powerful and reliable illumination for a wide range of industrial processes.

Designed with **IP64-rated protection**, the LED strip is resistant to dust, moisture, and other environmental contaminants, making it highly reliable in harsh conditions. Its robust and durable design is ideal for industrial applications such as UV curing, surface sterilization, reactor processes, and fluorescence detection.

Key Features:

- 395nm Wavelength: Delivers effective UV-A radiation, perfect for curing, sterilization, reactor processes, and applications requiring precise UV light.
- 140 High-Performance LEDs: Ensures uniform UV-A output with consistent radiation intensity, making it efficient and reliable for industrial applications.
- Radiation Output of 309 W/m² at 2.5 cm Distance: Provides a high radiation output of 309 W/m² at 2.5 cm, making it ideal for
 processes requiring focused and consistent UV-A energy.
- IP64 Protection: The LED strip is IP64-rated, offering protection against dust and water, making it suitable for use in industrial
 environments and other challenging settings.
- Energy-Efficient: Designed for high performance with low power consumption, the LED strip offers an energy-efficient lighting solution for UV-related applications.
- Durable and Long-Lasting: Built to last, the LED strip is reliable for continuous operation in demanding environments.

Applications:

- UV Curing: Ideal for curing adhesives, coatings, inks, and other materials in various industrial manufacturing processes.
- Sterilization: Perfect for surface sterilization in environments where disinfection is crucial, such as medical and laboratory settings.
- Reactor Processes: The 395nm UV-A output is perfect for driving photochemical reactions in UV reactors, such as those used in
 wastewater treatment, chemical synthesis, or polymerization processes. The precise and reliable UV-A energy ensures consistent
 results in these applications.
- Fluorescence Detection: Suitable for applications in research and quality control, where UV light is required for fluorescence-based imaging and detection.
- Inspection Systems: The LED strip is also ideal for machine vision systems, providing UV illumination to inspect materials, surfaces, or products in detail.
- Printing and Coating Industry: Enhances the efficiency of UV-based curing processes, particularly in industries such as printing
 and coating, where rapid curing is critical.

Benefits:

- High and Consistent Output: The 309 W/m² radiation output at 2.5 cm ensures reliable and high-efficiency UV-A energy, optimizing the effectiveness of industrial processes.
- Protection in Harsh Environments: The IP64 protection guarantees durability against dust and water, ensuring reliable performance in industrial and other challenging environments.
- Compact and Flexible: The flexible design of the LED strip allows for easy installation in tight spaces and can be adapted to
 meet specific application requirements.
- Long Service Life: The robust construction of the LED strip ensures long-lasting performance, reducing the need for frequent replacements and offering greater cost efficiency.
- Energy Efficiency: High radiation output combined with low power consumption ensures an energy-efficient solution for UV applications in various industrial sectors.

KvK-nummer: 57580561 BTW-nummer: NL852642209B01 IBAN: NL87 INGB 0007 8159 75 BIC/SWIFT code: INGBNL2A



Technical specifications

General			
Brand	LuxaLight		
LEDs / meter	140		
LED type	2835		
	10 m		
Length per reel			
Length per segment	25 mm		
LED strip width	12.00 mm		
LED strip thickness	4.00 mm		
PCB color	White		
Mantle material	Silicon		
_ighting			
Nave length	395 nm		
Beam angle	120 °		
Measurement results			
PPFD	Product length: 200 mm		
	Value -	Measuring distance	
	319 µmol/m2	25 mm	
	115 µmol/m2	50 mm	
	53 µmol/m2	75 mm	
	41,8 μmol/m2	100 mm	
	13,1 μmol/m2	200 mm	
	6,7 μmol/m2	300 mm	
rradiance	Product length: 200 mm		
	Value	Measuring distance	
	309 W/m2	25 mm	
	97,7 W/m2	50 mm	
	47,5 W/m2	75 mm	
	33,1 W/m2	100 mm	
	10,1 W/m2	200 mm	
	5 W/m2	300 mm	
Electronics			
Norking voltage	24V		
Current / meter	1.00 A / meter		
Power consumption per meter	24.00 W / meter		
PCB material	Copper		
Environmental			

Operating temperature

Storage temperature

-20 ~ +60 °C

-40 ~ +80 °C



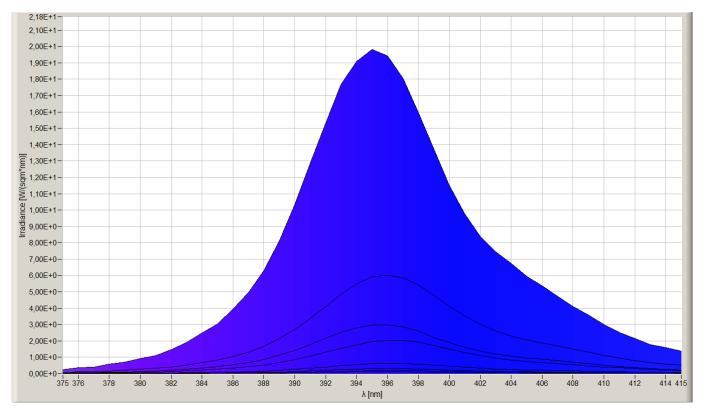
IP class IP 64

Directives - standards - certificates			
Directives	RoHS CE		
Safety standards	EN60598-1 EN62031 IEC62471		



Measurement results

Wavelength





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