

Datasheet

LuxaLight UV LED-strip 365nm Protected (24 Volt, 240 LEDs, 2835, IP64)

LS24UV240X2835PLX

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Product description

The LuxaLight UV-A LED Strip 365 nm provides powerful UV-A radiation for industrial processes requiring high UV intensity. With 240 high-quality 2835 LEDs per meter and a flexible IP64 silicone coating, this strip is designed for continuous use in demanding environments. Its flexible design (5 m reels, cuttable every 25 mm) allows easy integration into reactors, process installations, and test setups.

Fully compatible with the MaNima Pollux Industrial System for advanced control, real-time monitoring, and automatic protection.

Key Specifications

Property	Value / Description
Wavelength	UV-A 365 nm (peak ~365 nm)
Irradiance (5 cm)	Total: ~67.3 W/m ² ; Peak: ~3.85 W/m ²
Beam Angle	120°
LED Specifications	240 LEDs/m, type 2835 SMD
Dimensions	5 m per reel; cuttable every 25 mm; width: 12 mm; height: 4 mm
Power & Consumption	24 V DC; ±1 A/m; ±24 W/m
Protection	IP64 – silicone coating, dust- and splash-water resistant
Thermal Monitoring	Optional via external NTC sensor (Pollux-compatible)
Operating Temp.	–20 °C ... +60 °C (storage –40 °C ... +80 °C)
Standards	RoHS, CE, EN60598-1, EN62031, IEC62471

Applications

- UV reactors for water purification and chemical processes
- Curing and photopolymerization of coatings, adhesives, inks, and resins
- Industrial surface treatment and material processing
- Pharmaceutical and medical processes requiring UV activation
- Laboratories and R&D setups for controlled UV experiments

Also applicable in R&D and specialized lighting setups.

Benefits for Engineers

- High UV output with uniform 120° beam distribution
- Flexible segment design (cuttable every 25 mm, supplied on 5 m reels)
- Robust IP64 construction for industrial environments
- Thermally stable, expandable with optional NTC sensor and Pollux monitoring
- Modular and scalable for reactors and process lines
- Easy integration with standard 24 V systems

Integration with MaNima Pollux Industrial System

- Real-time thermal monitoring via optional NTC sensor
- Pulse and strobe modes for flexible UV output
- Automatic thermal protection for reliable continuous operation
- Seamless PLC/SCADA integration for process automation
- Open UDP API for advanced system control and logging

Technical specifications

General		
Brand	LuxaLight	
Application	Curing & Aging Machine Vision UV Inspection	
LEDs / meter	240	
LED type	2835	
Length per reel	5 m	
Length per segment	25 mm	
LED strip width	10.00 mm	
LED strip thickness	4.00 mm	
PCB color	White	
Mantle material	Silicon	
Mounting	3M tape VHB4905	
Lighting		
Wave length UV	365 nm	
Beam angle	120 °	
Measurement results		
Peak wavelength (Object length: 200 mm)	365 nm	
Peak irradiance (Object length: 200 mm)		24V
	5cm	3.85 W/sqm
	10cm	1.52 W/sqm
	15cm	0.76 W/sqm
	20cm	0.47 W/sqm
	25cm	0.31 W/sqm
	30cm	0.22 W/sqm
Total irradiance (Object length: 200 mm)		24V
	5cm	67.26 W/sqm
	10cm	26.03 W/sqm
	15cm	13.08 W/sqm
	20cm	8.06 W/sqm
	25cm	5.26 W/sqm
	30cm	3.86 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

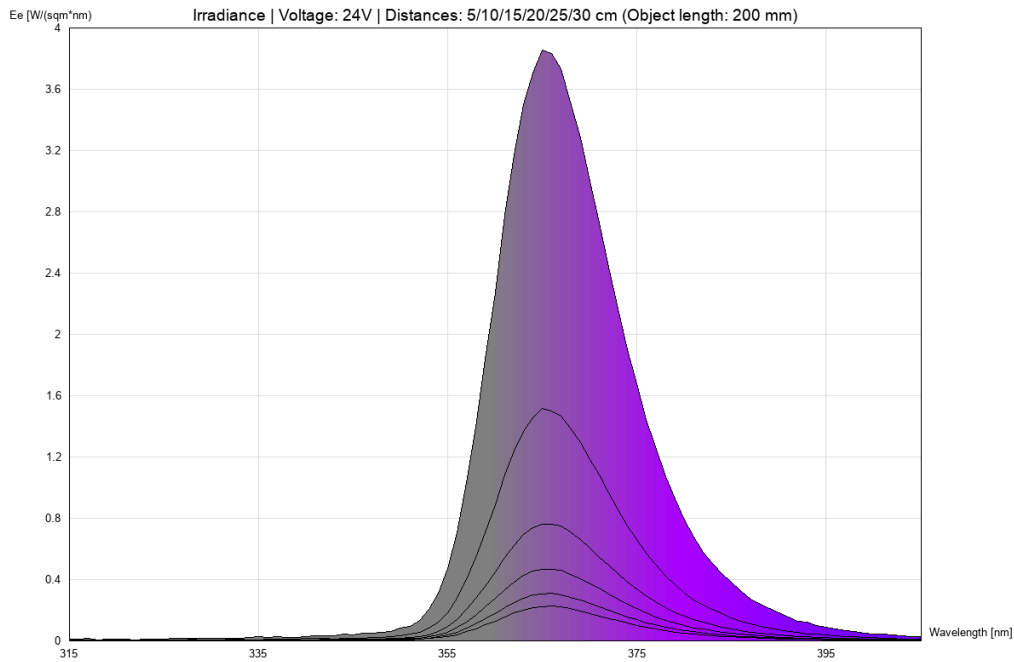
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

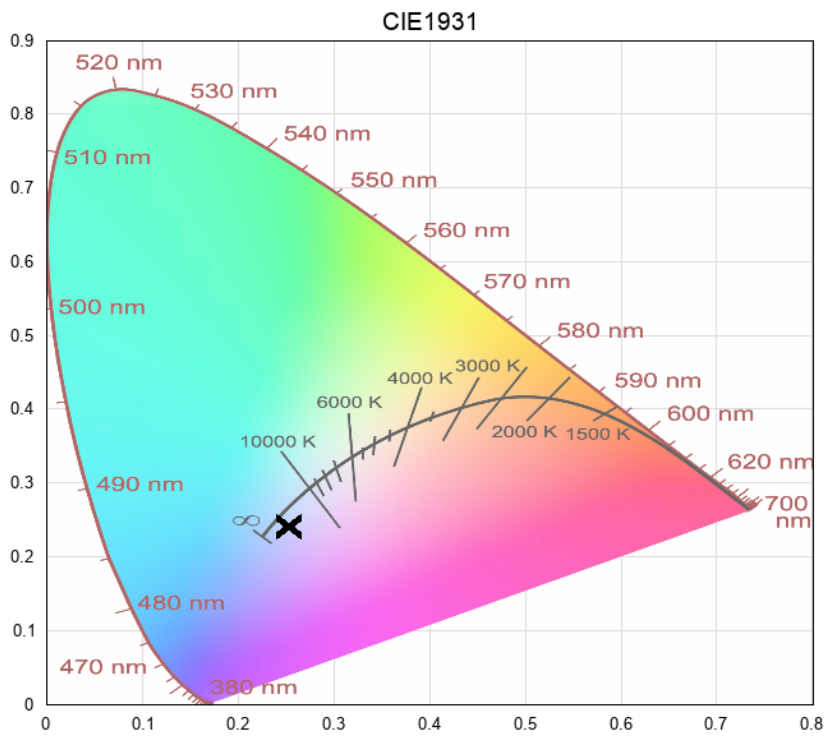
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - 315-405-uv-a (24V)



cie1931



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