

Datasheet

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

LS24UV395X140X2835PLX

Version: 2025-08-28.3

Product description

The LuxaLight UV-A LED Strip 395 nm delivers powerful invisible UV-A irradiation tailored for demanding industrial applications such as curing, inspection, and process support. Featuring 140 efficient 2835 LEDs per meter and IP64-rated silicone coating, this strip is built for use in harsh environments. Its flexible design (10 m reels, cuttable every 25 mm) integrates seamlessly into production lines and inspection systems.

An optional NTC sensor can be added for thermal monitoring via the MaNima Pollux Industrial System.

Key Specifications

Property	Value / Description
Wavelength	UV-A 395 nm (peak ~396 nm)
Irradiance (5 cm)	Total: ~97.7 W/m ² ; Peak: ~5.98 W/m ²
Beam Angle	120°
LED Specifications	140 LEDs/m, type 2835 SMD
Dimensions	10 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-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 chemical processes, curing, and surface activation
- Inline machine vision and quality inspection via fluorescence or contrast
- Enhanced contrast for sensors and inspection systems
- Process visualization and illumination in industrial settings
- R&D and lab setups focused on UV photochemistry and inspection

Also applicable in R&D and specialized lighting setups.

Benefits for Engineers

- High UV output with uniform 120° beam distribution
- Flexible, modular, cuttable design (25 mm segments)
- Industrial-grade IP64 construction for durability
- Optional NTC sensor support for thermal monitoring
- Easy integration with existing 24 V systems
- Reliable for continuous industrial operation

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 through system control
- Full PLC/SCADA compatibility for automation
- Open UDP API for advanced control and logging

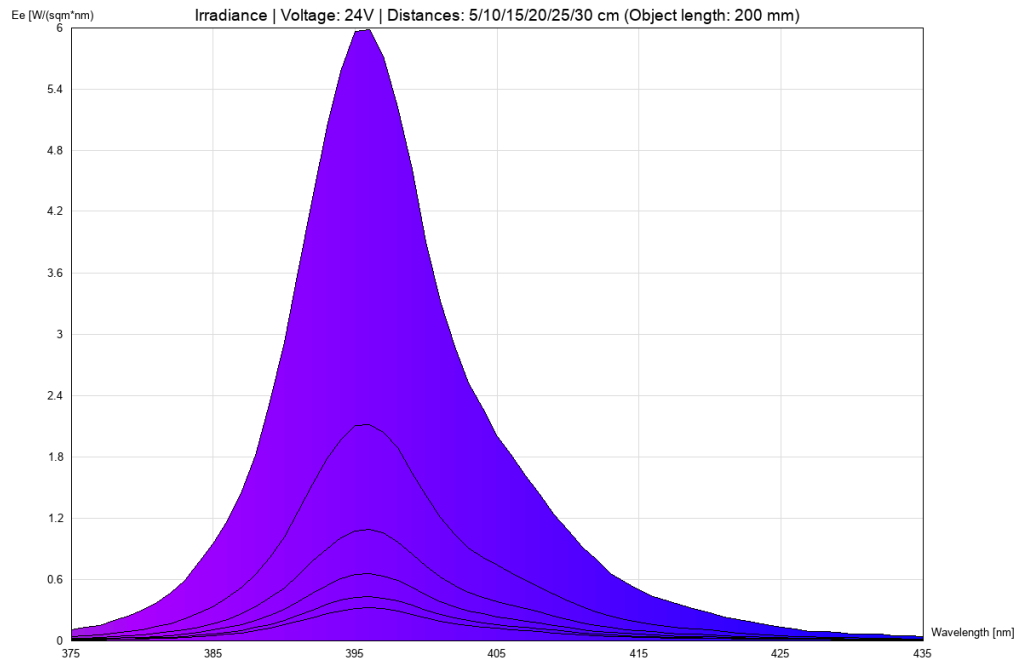
Technical specifications

General		
Brand	LuxaLight	
LEDs / meter	140	
LED type	2835	
Length per reel	10 m	
Length per segment	25 mm	
LED strip width	12.00 mm	
LED strip thickness	4.00 mm	
PCB color	White	
Mantle material	Silicon	
Lighting		
Wave length	395 nm	
Beam angle	120 °	
Measurement results		
Peak wavelength (Object length: 200 mm)	396 nm	
Peak irradiance (Object length: 200 mm)		24V
	5cm	5.98 W/sqm
	10cm	2.11 W/sqm
	15cm	1.09 W/sqm
	20cm	0.65 W/sqm
	25cm	0.43 W/sqm
	30cm	0.32 W/sqm
Total irradiance (Object length: 200 mm)		24V
	5cm	97.71 W/sqm
	10cm	34.66 W/sqm
	15cm	17.52 W/sqm
	20cm	10.57 W/sqm
	25cm	6.94 W/sqm
	30cm	5.27 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

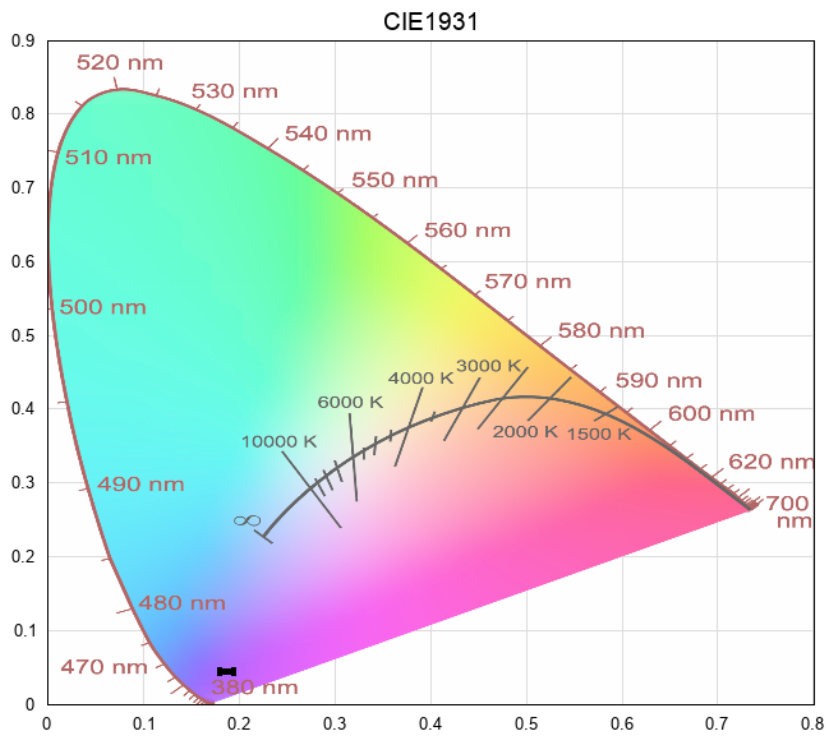
Environmental	
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64
Directives - standards - certificates	
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - 375-435-uv-ablue (24V)



cie1931



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