Datasheet

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

LS24UV395X140X2835PLX

Version: 2025-08-29.1

LuxaLight B.V.
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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/m²; Peak: ~5.98 W/m²
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
PCB thickness	3.0 oz / ft^2

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

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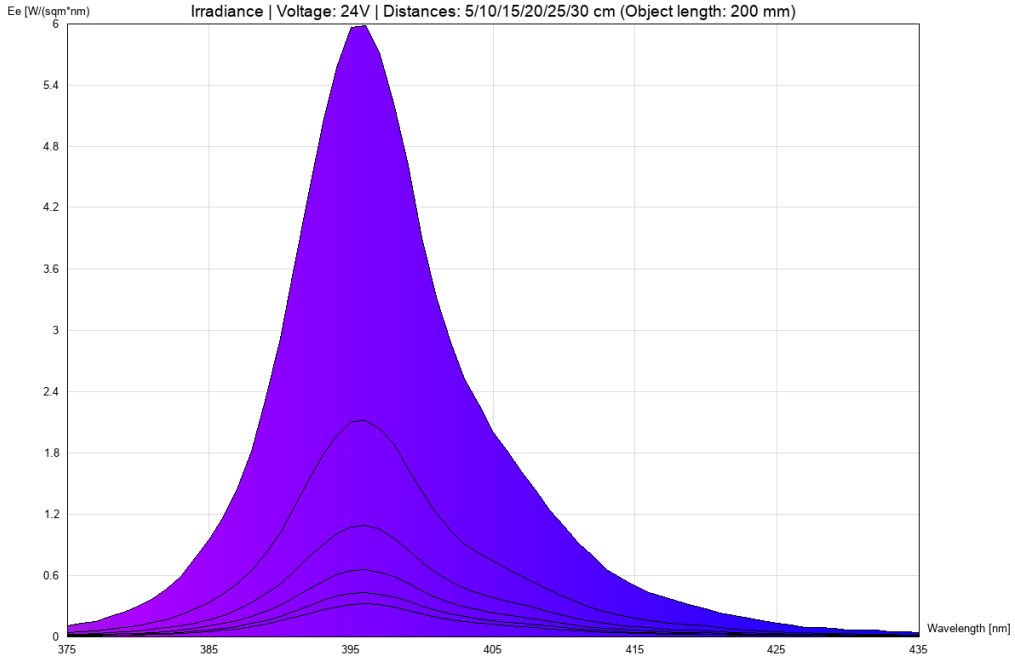
Measurement results

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



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