Datasheet

LuxaLight ALU LED-strip 24V UV-C 265nm (24 Volt, 30 LEDs, 3535, IP20, 50cm)

LS24UV265X3535ILX

Version: 2025-02-25.2

LuxaLight B.V.
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Product description

Our advanced LED engine UV-C, with a wavelength of 265 nm, provides a powerful solution for a variety of industrial applications where precision and reliability are crucial. This LED engine is specifically designed to meet the stringent requirements of the industry and offers a wide range of benefits:

- **Optimal Wavelength for Industrial Use**: The 265 nm wavelength is ideal for applications requiring UV light for sterilization, disinfection, or specific chemical processes. This wavelength offers high energy intensity, which is essential for activating photochemical reactions in various industrial environments.

- **Stroboscopic Pulse Functionality**: Thanks to the innovative strobing pulse technology, we can generate higher peak intensity radiation. This technique enhances efficiency in processes that are sensitive to short light impulses. The ability to deliver fast, repetitive pulses increases effectiveness in applications such as surface treatment, cleaning, or material processing.

- **Increased Radiation Capacity**: In combination with the Manima Pollux industry, our LED engine achieves a radiation capacity that is significantly higher than conventional systems. This provides benefits such as faster reactions, improved performance of industrial machines, and more precise control over treatment parameters.

- **Reliable Performance and Long Lifespan**: The robust construction of the LED engine ensures reliable performance even in demanding industrial conditions. The long lifespan of the LEDs reduces the need for frequent replacements and minimizes downtime, contributing to higher operational efficiency and lower maintenance costs.

- **Energy Efficiency and Sustainability**: Our technology is designed with a focus on energy efficiency, reducing operational costs while optimizing energy output. This makes it a sustainable choice for industrial applications that aim to minimize energy consumption and environmental impact.

The combination of the 255 nm LED engine UV-C with the Manima Pollux industry and stroboscopic pulse function provides an unparalleled solution for applications that require precision, power, and efficiency.

Applications:

- Sterilization and disinfection of industrial surfaces
- Chemical processes and photochemical reactions
- Material processing and surface treatment
- Enhancement of industrial production systems through increased radiation

Technical specifications

General	
Brand	LuxaLight
Application	Disinfection
LEDs / meter	60
LED type	3535
Length per segment	50 mm
LED strip width	10.00 mm
LED strip thickness	2.00 mm
PCB color	White
LEDs per piece	30.00

Lighting	
Wave length UV	265
Beam angle	120 °

Measurement results

Irradiance

Value	Measuring distance
8,41 W/m2	25 mm
3,53 W/m2	50 mm
1,95 W/m2	75 mm
1,29 W/m2	100 mm
0,4 W/m2	200 mm
0,19 W/m2	300 mm

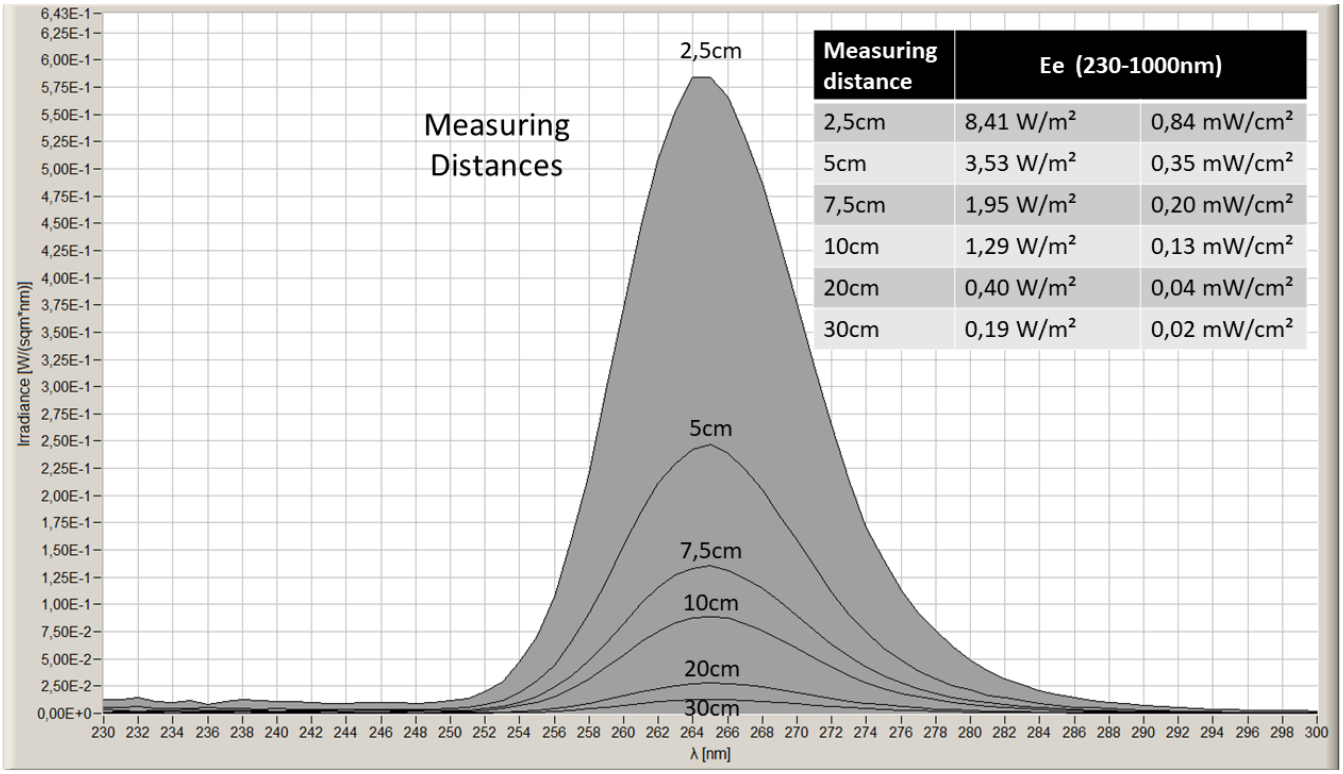
Electronics	
Working voltage	24V
Current per piece	0.22 A / piece
Power consumption per piece	0.52 W / piece
PCB material	Aluminium

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

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

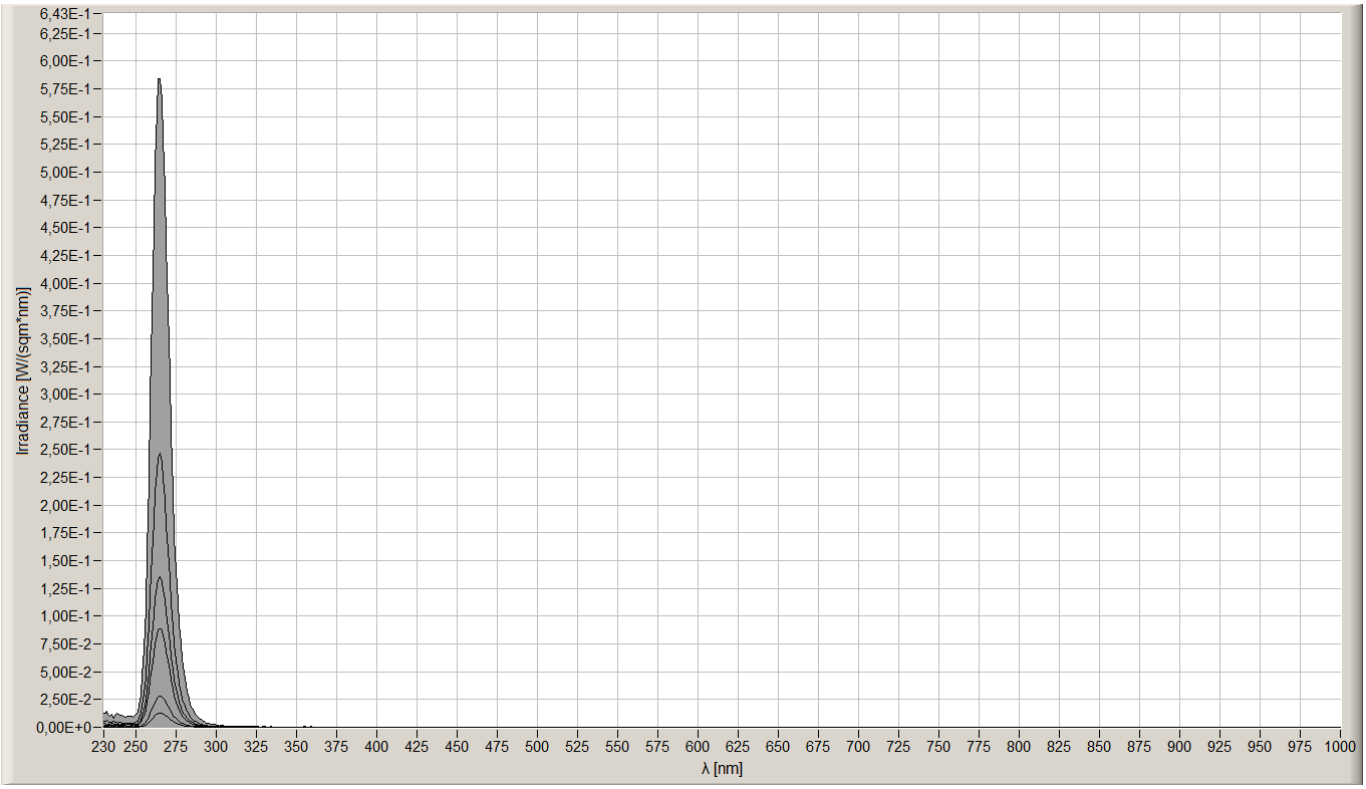
Measurement results

Lighting Angle



Measuring distance	Ee (230-1000nm)	
2,5cm	8,41 W/m²	0,84 mW/cm²
5cm	3,53 W/m²	0,35 mW/cm²
7,5cm	1,95 W/m²	0,20 mW/cm²
10cm	1,29 W/m²	0,13 mW/cm²
20cm	0,40 W/m²	0,04 mW/cm²
30cm	0,19 W/m²	0,02 mW/cm²

Spectrum Distribution



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