

Datasheet

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

LS24UV265X3535ILX

Version: 2025-07-03.4

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 265 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

Peak wavelength (Object size: 1 piece)	265 nm
---	--------

Peak irradiance
(Object size: 1 piece)

	24V
5cm	0.266648 W/sqm
10cm	0.111275 W/sqm
15cm	0.0582204 W/sqm
20cm	0.0357162 W/sqm
25cm	0.0234605 W/sqm
30cm	0.0164831 W/sqm

Total irradiance
(Object size: 1 piece)

	24V
5cm	4.04 W/sqm
10cm	1.679 W/sqm
15cm	0.8937 W/sqm
20cm	0.5428 W/sqm
25cm	0.356 W/sqm
30cm	0.2528 W/sqm

Electronics

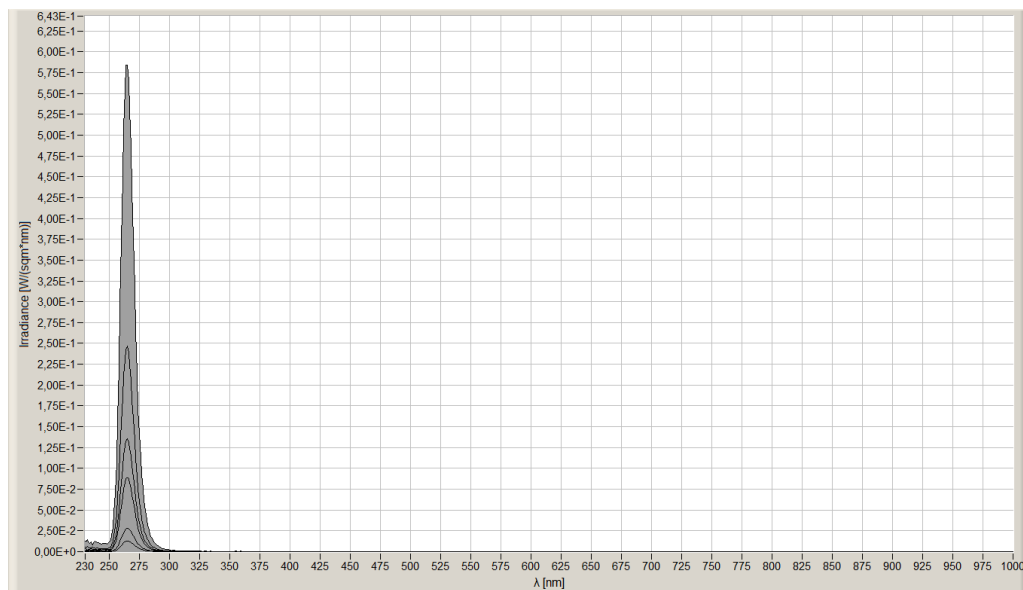
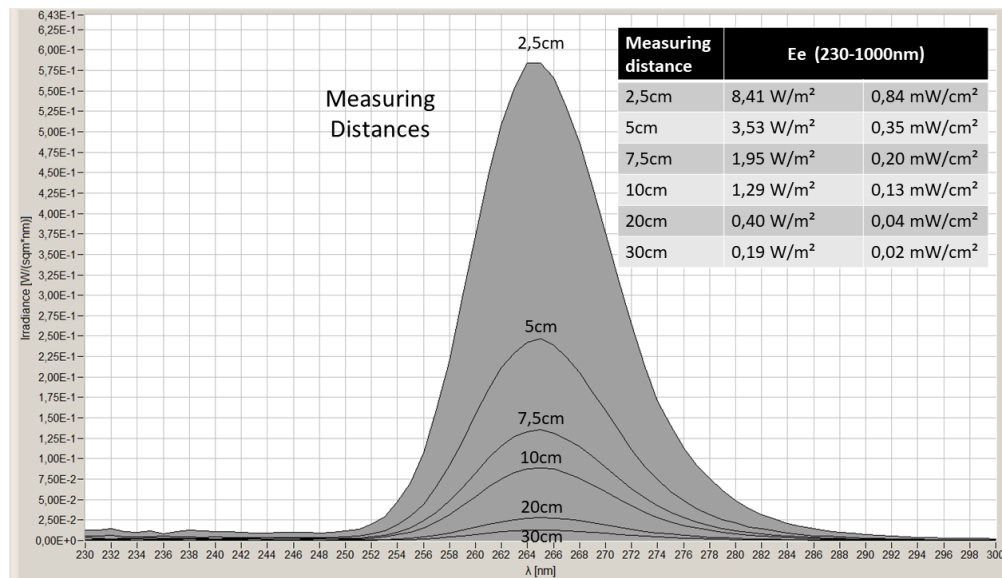
Working voltage	24V
Current per piece	0.22 A / piece
Power consumption per piece	0.52 W / piece
PCB material	Aluminium

Environmental

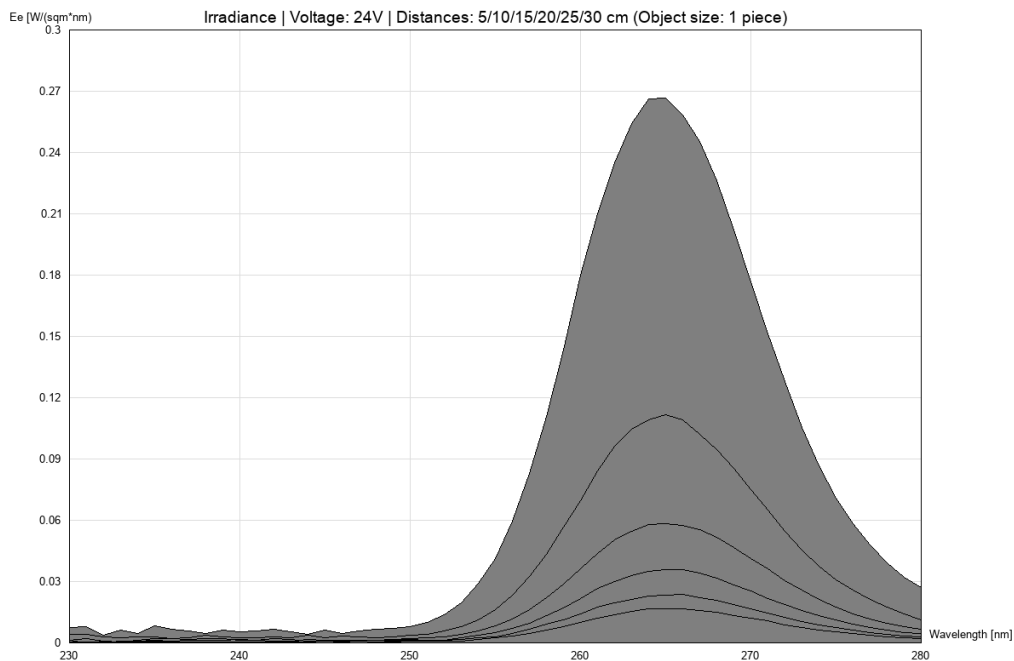
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 20

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

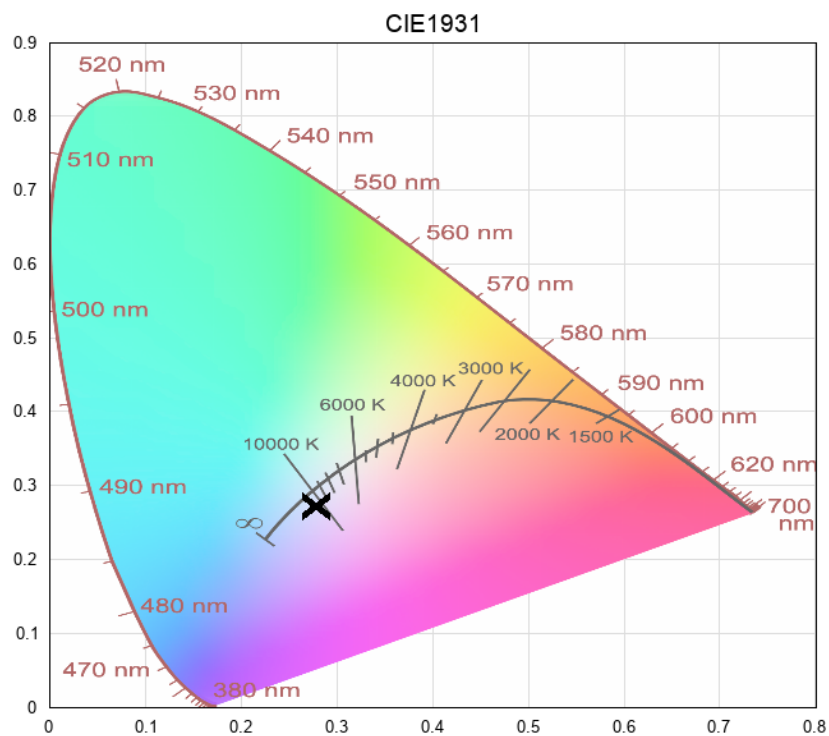
Measurement results



irradiance - 230-280-uv-c (24V)



cie1931



While LuxaLight has made every reasonable effort to ensure the accuracy of the information in this brochure, LuxaLight does not guarantee that it is error - free, nor does LuxaLight make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. LuxaLight reserves the right to make any adjustments to the information contained herein at any time without notice. LuxaLight expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalogue are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult LuxaLight for the latest dimensions and design specifications.