

Datasheet

LuxaLight Industrial LED Fixture Quartz Glass UV-C 275nm 3535 60° 26.6x23.5mm (24 Volt, 3535, IP64)

LF-24-275-26.6x23.5-QG

Version: 2025-07-10.3

Product description

Our advanced UV-C LED engine, with a wavelength of 275 nm, is housed in a robust industrial casing with high-quality quartz glass, providing a powerful solution for a wide range of industrial applications where precision and reliability are essential. This LED engine is specifically designed to meet the demanding requirements of the industry, offering a range of unique benefits:

Optimal Wavelength for Industrial Use: The 275 nm wavelength is ideal for applications requiring UV light for sterilization, disinfection, or specific chemical processes. This wavelength provides high energy intensity, which is essential for activating photochemical reactions in various industrial environments.

Stroboscopic Pulse Function: Thanks to the innovative strobing pulse technology, we can generate radiation with higher peak intensity. This technique enhances efficiency in processes that are sensitive to short light pulses. The ability to emit rapid, repetitive pulses increases effectiveness in applications such as surface treatment, cleaning, or material processing. This functionality is fully supported when integrated with the Manima Pollux Industry system, allowing for precise control and optimization of pulse intensity to maximize performance.

Increased Radiation Capacity: When integrated with the Manima Pollux Industry system, our LED engine achieves a radiation capacity that significantly exceeds conventional systems. This offers advantages such as accelerated reactions, improved industrial machine performance, and more precise control over treatment parameters.

Industrial Housing with Quartz Glass: The LED engine is securely housed in an industrial casing, ensuring durability and protection in demanding industrial environments. The high-quality quartz glass window ensures optimal transmission of UV light while being resistant to the harsh conditions of industrial use, making it ideal for applications in challenging environments.

Reliable Performance and Long Lifespan: The robust construction of the LED engine ensures reliable performance even in harsh 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 maintaining optimized energy output. This makes it a sustainable choice for industrial applications that aim to minimize energy consumption and environmental impact.

Built-in NTC Sensor: The product comes equipped with a standard NTC (Negative Temperature Coefficient) sensor for precise temperature control, ensuring the system operates within optimal temperature ranges for maximum performance.

Real-Time Monitoring and Maximum Radiation: When used in combination with the Manima Pollux Industry system, real-time monitoring allows for the maximum radiation output from the UV LED fixture to be achieved. This integration ensures precise control, enabling the system to operate at peak efficiency under varying conditions.

The combination of the 275 nm UV-C LED engine, industrial housing with quartz glass, stroboscopic pulse function, and real-time monitoring provides an unparalleled solution for applications requiring 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
LED type	3535
Material	Aluminum
Dimensions	220 × 26,6 × 23,5 mm
Mounting	Surface mounted
Cover type	Quartz glass
LEDs per piece	57.00

Lighting

Wave length	275 nm
Beam angle	60 °

Measurement results

Peak irradiance
(Object size: 1 piece)

	24V
5cm	15.5755 W/sqm
10cm	6.63587 W/sqm
15cm	4.25403 W/sqm
20cm	2.89764 W/sqm
25cm	2.03974 W/sqm
30cm	1.51322 W/sqm

Total irradiance
(Object size: 1 piece)

	24V
5cm	224.5 W/sqm
10cm	96.38 W/sqm
15cm	62.08 W/sqm
20cm	42.94 W/sqm
25cm	30 W/sqm
30cm	22.67 W/sqm

- By combining Pulse Mode with Real-Time Monitoring, the efficiency of LED systems can be increased, resulting in higher output.
- We have the expertise and equipment to perform measurements tailored to the specific requirements of the application.

Electronics

Working voltage	24V
Current per piece	2.30 A / piece
Power consumption per piece	52.20 W / piece
PCB material	Aluminium

Pinout

Symbol	Function
V+	V+
GND	Ground
NTC	NTC sensor
NTC_GND	NTC ground

NTC parameters

Resistance: 5000 Ohm
Beta value: 3950

Environmental

Operating temperature -20 ~ +60 °C

Storage temperature -40 ~ +80 °C

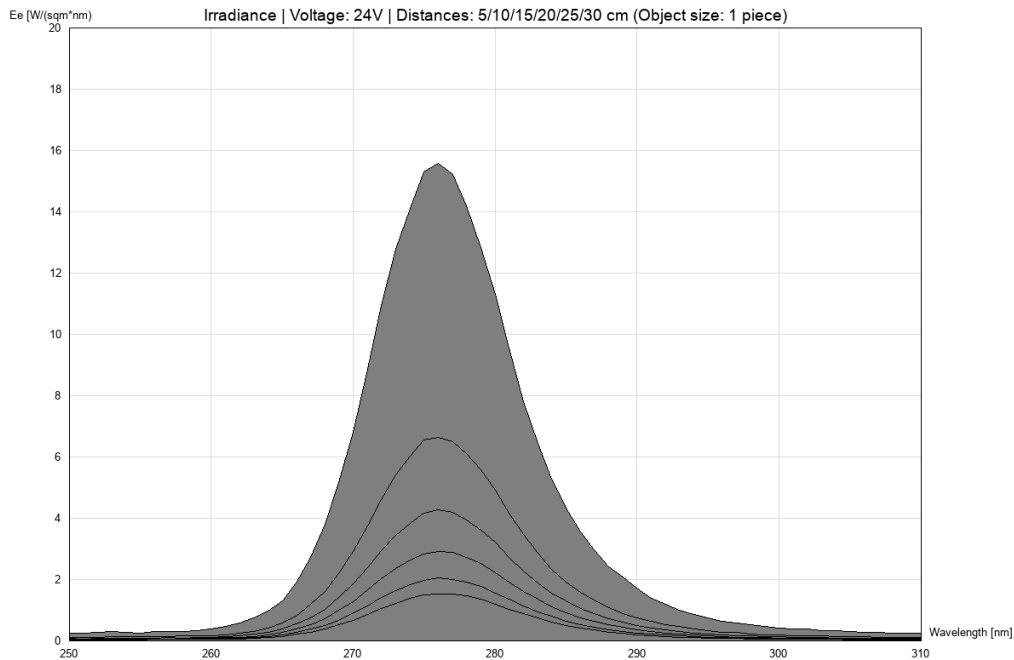
Directives - standards - certificates

Directives RoHS
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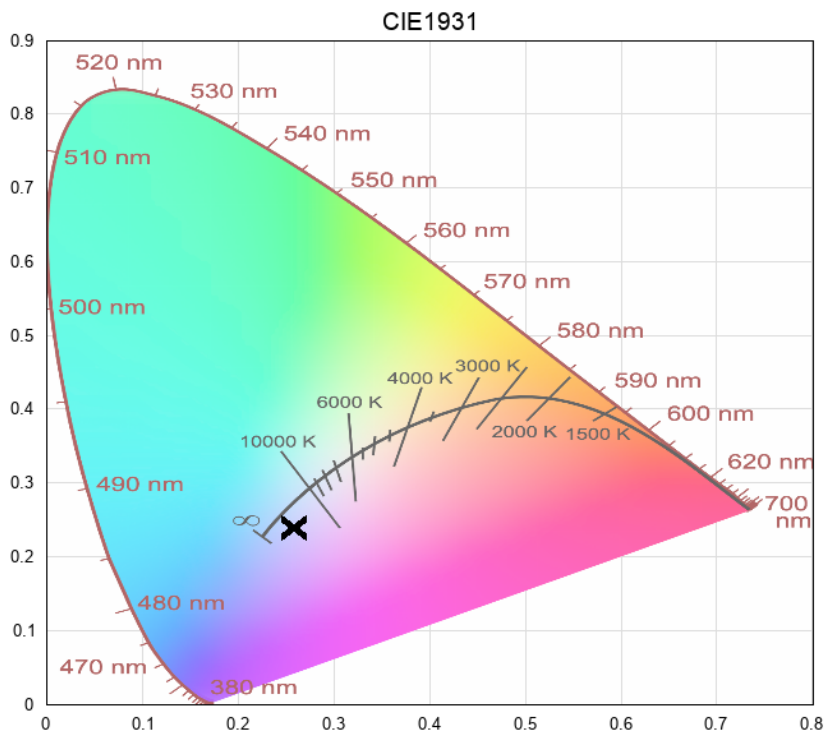
Safety standards EN60598-1
EN62031
IEC62471

Measurement results

irradiance - 250-310-uv-bc (24V)



cie1931



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