

Datasheet

LuxaLight LED Engine 24V UV-B/C 3535 (24 Volt, 54 LEDs, 3535, IP20)

LE-24-UVC-54X2835ILX60

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Product description

Our advanced UV-C LED engine offers three separately controllable wavelengths of 265 nm, 275 nm, and 300 nm, providing a versatile and powerful solution for a wide range of industrial and research-related applications. This product is ideal for applications requiring flexibility, such as research and R&D, where precise control over different wavelengths is essential. The LED engine offers a range of unique benefits:

Three Separate Wavelengths for Research and R&D: The 265 nm, 275 nm, and 300 nm wavelengths can be set individually, making the product highly suitable for various scientific applications that require specific UV light spectra. This makes it ideal for R&D work and advanced research.

Optimal Wavelengths for Industrial Use: The three wavelengths are suitable for applications requiring UV light for sterilization, disinfection, photochemical reactions, or specific chemical processes. Each wavelength has unique properties that are 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.

Reliable Performance and Long Lifespan: The robust construction of the LED engine ensures reliable performance, even without the protective housing. 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 265 nm, 275 nm, and 300 nm UV-C LED engine, stroboscopic pulse function, and real-time monitoring provides an unparalleled solution for applications requiring precision, power, and efficiency.

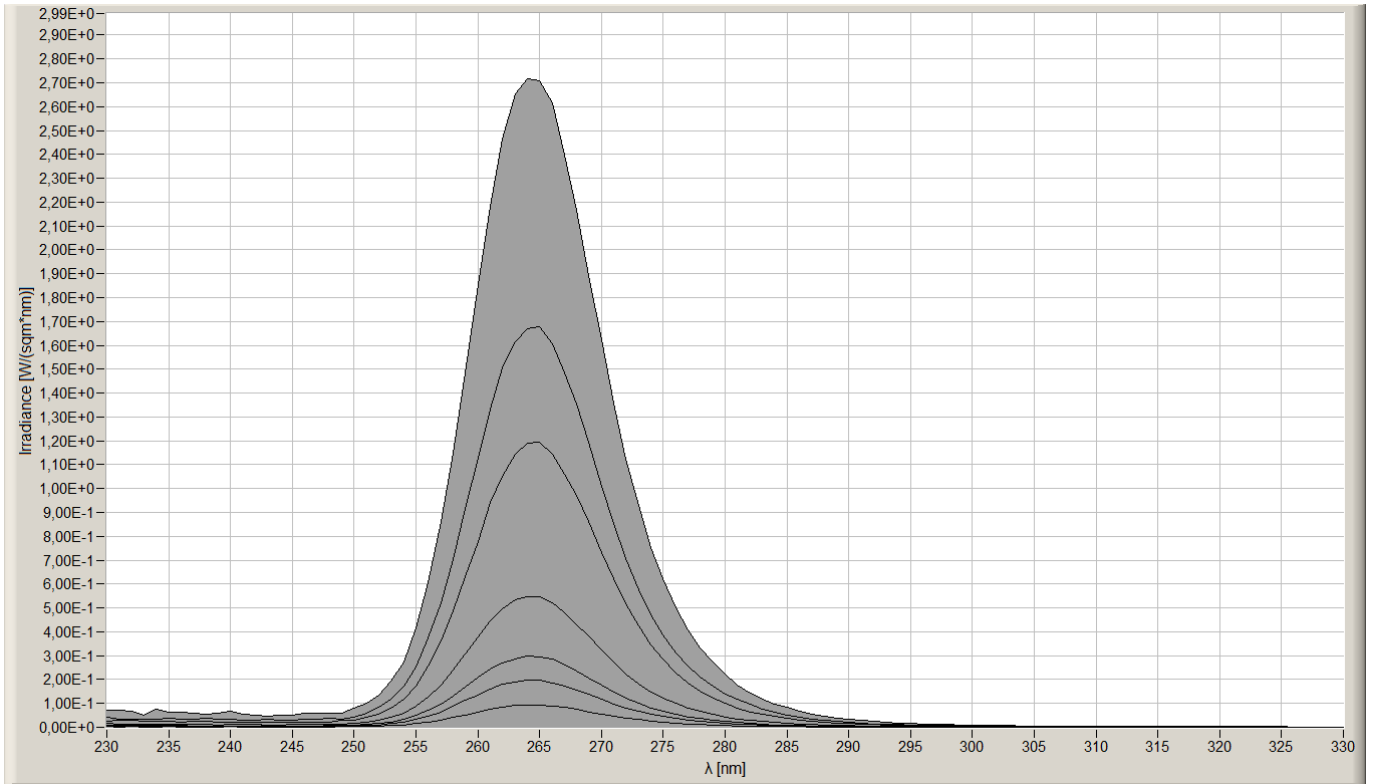
Applications:

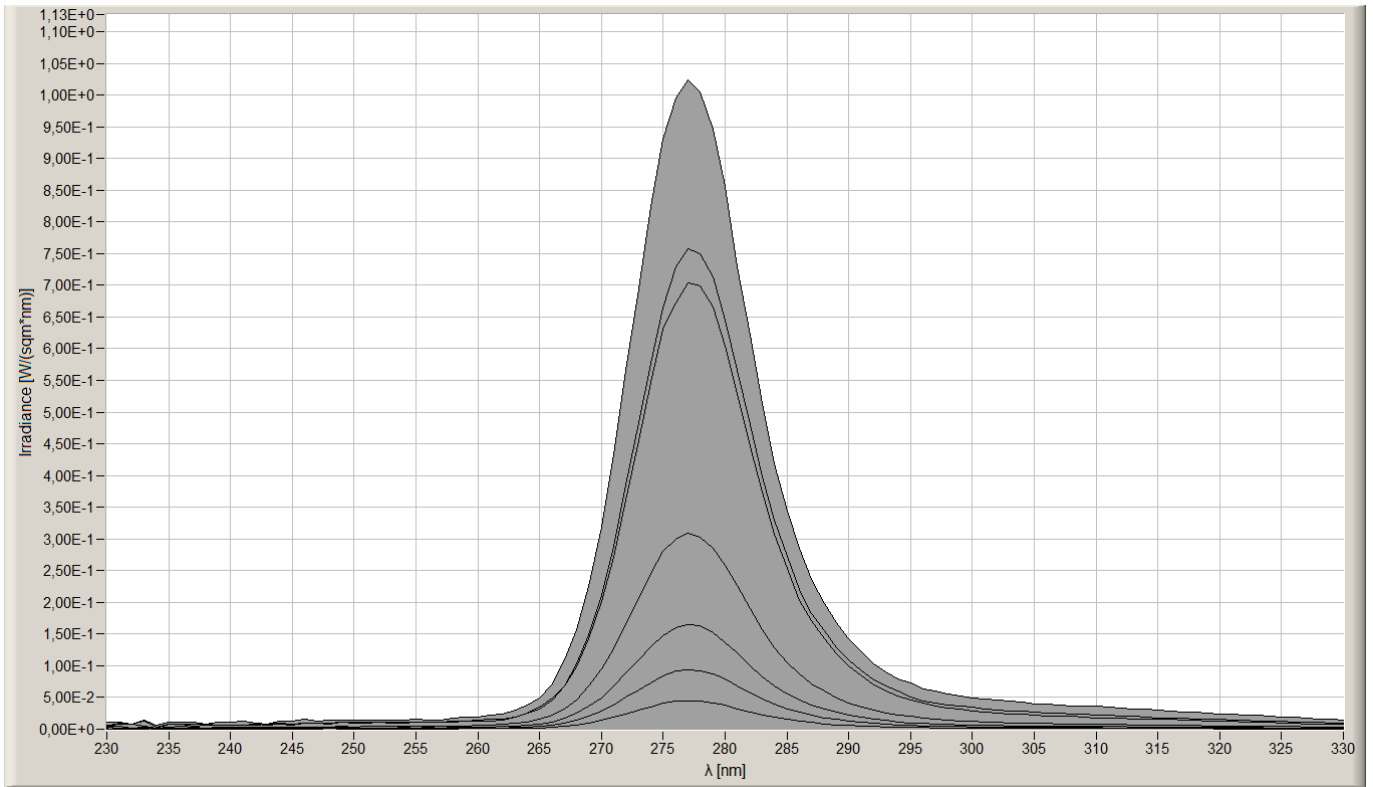
- Sterilization and disinfection of industrial surfaces
- Chemical processes and photochemical reactions
- Material processing and surface treatment
- Research and R&D work with the 265 nm, 275 nm, and 300 nm wavelengths
- Enhancement of industrial production systems through increased radiation

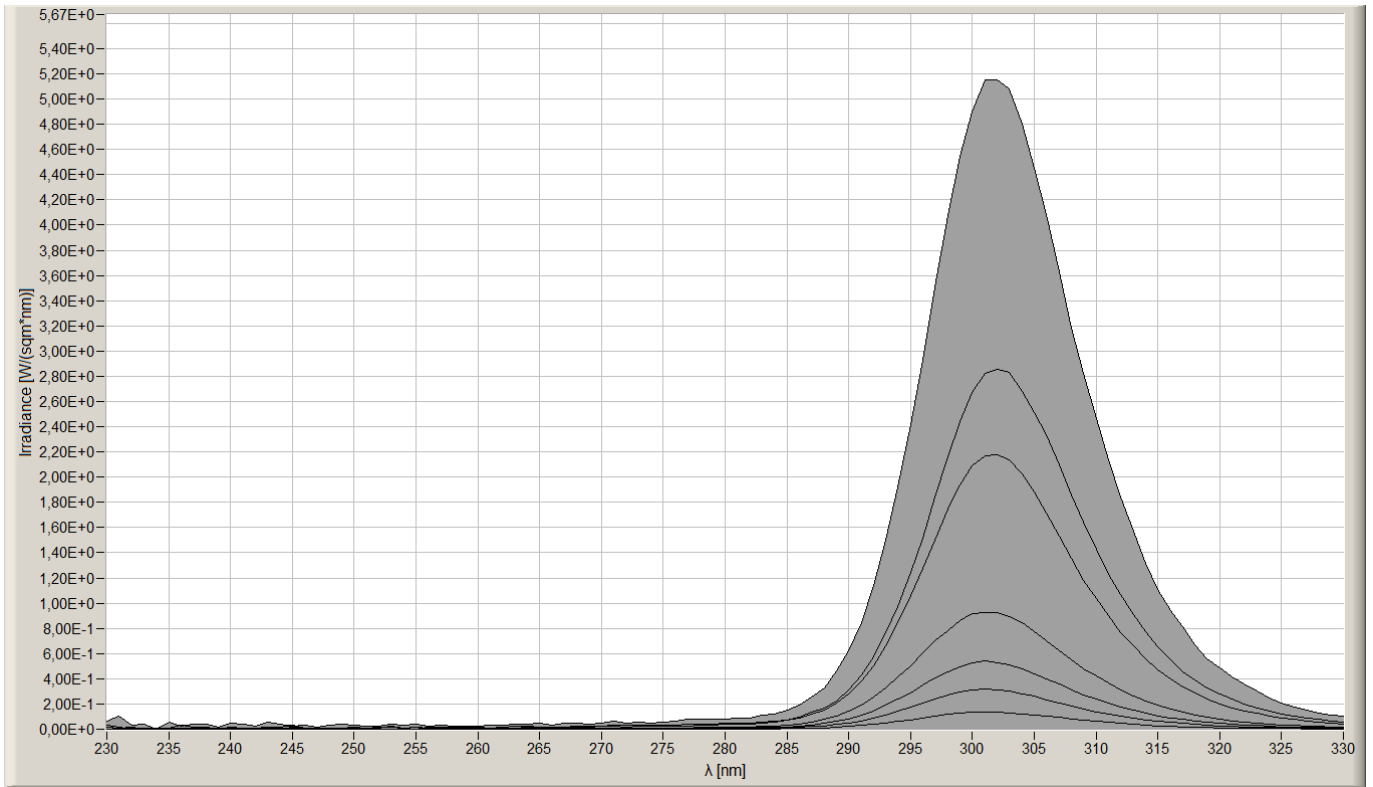
Technical specifications

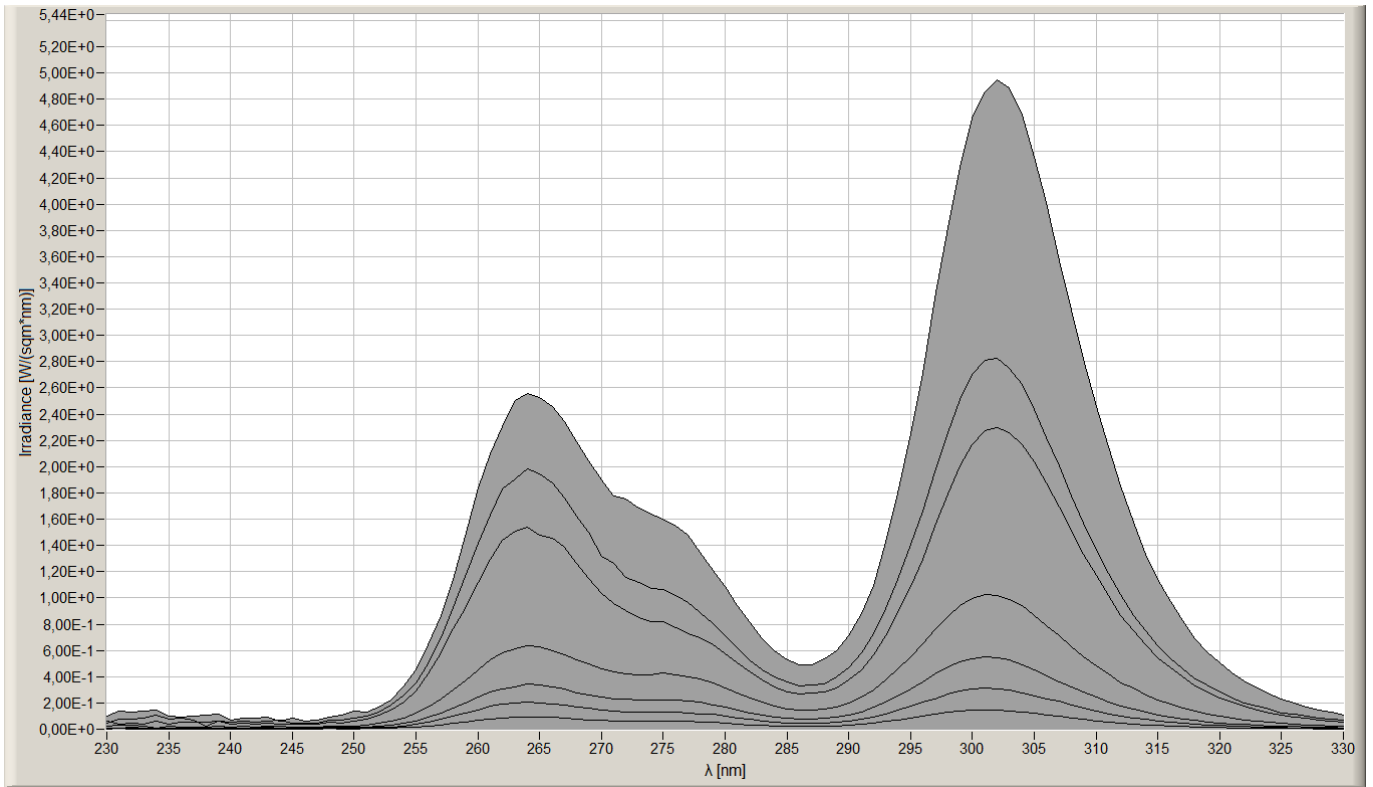
General	
Brand	LuxaLight
Application	Disinfection
LED type	3535
PCB color	White
Material	Aluminum
Dimensions	200 × 20 × 2 mm
Mounting	3M tape VHB4905
LEDs per piece	54.00
Lighting	
Wave length	265nm - 275nm - 300nm
Beam angle	60 °
Electronics	
Working voltage	24V
Current per piece	1.55 A / piece
Power consumption per piece	37.20 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









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