

Datasheet

LuxaLight Industrial LED Fixture UV-C 265nm 3535 60° 24.2x16mm (24 Volt, 3535, IP20)

LF-24-265-24.2x16

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Product description

The **LuxaLight Industrial LED Fixture Quartz Glass Cover UV-C 265 nm (24.2 × 16 mm, 3535, 60°)** delivers powerful germicidal radiation at peak ~263 nm. With its **modular design** (220–3000 mm), robust **quartz glass protection**, and seamless integration with the **MaNima Pollux Industrial System**, it is engineered for industrial disinfection, sterilization, and photochemical applications.

Key Specifications

Property	Value / Description
Wavelength	265 nm UV-C (measured peak ~263 nm)
LED Type	3535 (57 LEDs per fixture)
Beam Angle	60°
Optical Output	Irradiance: 185 W/m ² @ 5 cm; 102 W/m ² @ 7.5 cm; 73.3 W/m ² @ 10 cm
Cover	Quartz glass – optimal UV-C transmission and mechanical robustness
PCB / Protection	Aluminium PCB with silicone coating
Environmental Protection	IP20 – indoor use (dry conditions)
Voltage / Power	24 V DC, ~40.8 W per module
Thermal Monitoring	Integrated NTC sensor, controllable via MaNima Pollux
Design	Modular & scalable, 220–3000 mm
Dimensions	24.2 × 16 mm profile
Operating Environment	Industrial indoor (–20...+60 °C, dust/vibration-resistant design)

Applications

- **Surface Disinfection** – highly effective at inactivating viruses, bacteria, fungi, and spores on exposed surfaces
- **Air & Water Purification** – for use in water treatment and HVAC systems to disinfect drinking water, wastewater, and indoor air
- **Biomedical & Cleanroom Sterilization** – disinfects lab benches, medical instruments, PPE, and controlled zones
- **Photochemical Activation** – drives UV-C specific reactions in chemical and materials research
- **Automated Decontamination Deployment** – integration in robotic or sensor-driven cleaning systems for automated sterilization cycles

Benefits for Engineers

- **Maximum Germicidal Effectiveness:** peak 263 nm targeting DNA/RNA inactivation
- **Thermal Control:** integrated NTC sensor with Pollux feedback ensures safety and stability
- **Durable Construction:** aluminium chassis with quartz glass for long lifetime performance
- **Modular Flexibility:** scalable from 220 up to 3000 mm
- **Automation Ready:** designed for integration with Pollux, PLC, and SCADA

Integration with MaNima Pollux Industrial System

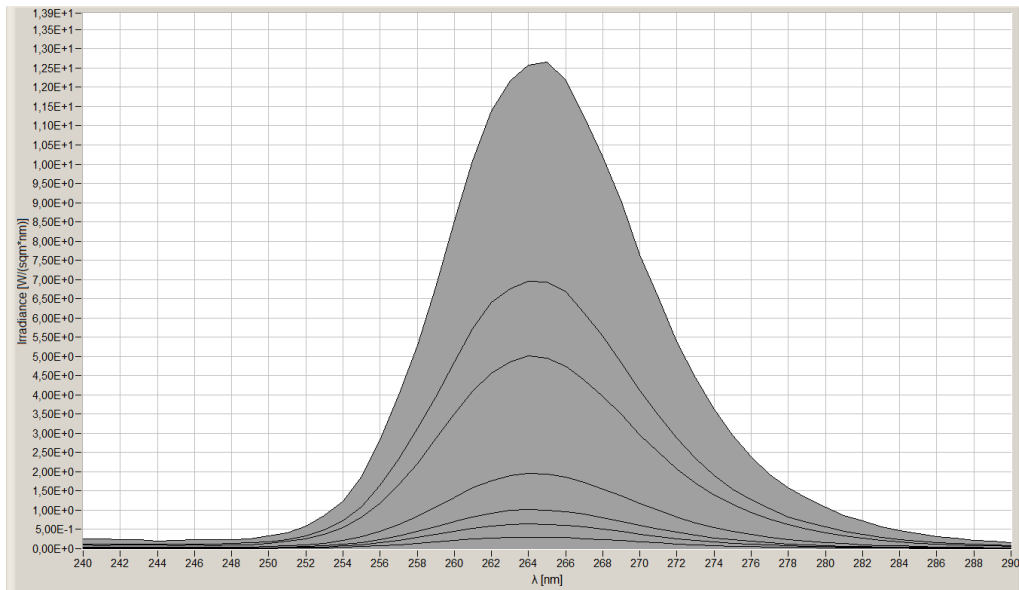
- Real-time NTC thermal monitoring
- Pulsing/strobing support for boosted peak irradiance
- Continuous operation safety with thermal overload protection
- PLC/SCADA compatibility
- **Open API (UDP-based)** for custom automation

Technical specifications

General																		
Brand	LuxaLight																	
Application	Disinfection																	
LED type	3535																	
Material	Aluminum																	
Dimensions	220 × 26,6 × 23,5 mm																	
Mounting	Surface mounted																	
LEDs per piece	57.00																	
Lighting																		
Wave length	265 nm																	
Beam angle	60 °																	
Measurement results																		
Irradiance	<table><tr><th>Value</th><th>Measuring distance</th></tr><tr><td>185 W/m2</td><td>50 mm</td></tr><tr><td>102 W/m2</td><td>75 mm</td></tr><tr><td>73,3 W/m2</td><td>100 mm</td></tr><tr><td>28,5 W/m2</td><td>200 mm</td></tr><tr><td>14,9 W/m2</td><td>300 mm</td></tr><tr><td>9,34 W/m2</td><td>400 mm</td></tr><tr><td>4,4 W/m2</td><td>600 mm</td></tr></table>		Value	Measuring distance	185 W/m2	50 mm	102 W/m2	75 mm	73,3 W/m2	100 mm	28,5 W/m2	200 mm	14,9 W/m2	300 mm	9,34 W/m2	400 mm	4,4 W/m2	600 mm
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• 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	1.70 A / piece																	
Power consumption per piece	40.80 W / piece																	
PCB material	Aluminium																	
Pinout	<table><tr><th>Symbol</th><th>Function</th></tr><tr><td>V+</td><td>V+</td></tr><tr><td>GND</td><td>Ground</td></tr><tr><td>NTC</td><td>NTC sensor</td></tr><tr><td>NTC_GND</td><td>NTC ground</td></tr></table>		Symbol	Function	V+	V+	GND	Ground	NTC	NTC sensor	NTC_GND	NTC ground						
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NTC_GND	NTC ground																	
NTC parameters	Resistance: 5000 Ohm Beta value: 3950																	
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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