

# Datasheet

## **LuxaLight Industrial LED Fixture Quartz Glass UV-A 365nm 26.6x23.5mm (24 Volt, 2835, IP64)**

**LF-24-365-24.2X16-QG**

**Version: 2025-08-26.9**

## Product description

The **LuxaLight Industrial LED Fixture Quartz Glass UV-A 365 nm (26.6 x 23.5 mm)** is designed for demanding industrial environments where durability, precision, and high radiant intensity are essential.

Its **modular design** (scalable up to 220 mm up to 3000 mm), quartz glass protection, and compatibility with the **MaNima Pollux Industrial System** make it a robust and flexible solution for curing, photochemistry, disinfection, machine vision, and additive manufacturing.

## Key Specifications

Property	Value / Description
Wavelength	365 nm UV-A (peak ~369 nm)
Optical Output	High radiant intensity, engineered for industrial use
Cover	Quartz glass for maximum UV transmission and mechanical strength
PCB Protection	Industrial-grade silicone coating (dust, moisture, chemical resistance)
Thermal Monitoring	Integrated NTC sensor, controllable via MaNima Pollux Industrial System
Pulsing/Strobing	Supported when integrated with MaNima Pollux Industrial
Design	Modular and scalable, adaptable from 220 mm up to 3000 mm
Dimensions	26.6 x 23.5 mm (fixture profile)
Environment	Built for harsh industrial conditions (dust, vibration, moisture)

## Applications

- **UV curing of coatings and inks** – printing, packaging, automotive, electronics
- **Adhesive & resin curing** – bonding, potting, encapsulation in industrial and medical assemblies
- **Photochemical processes** – polymerization, reactors, laboratory chemistry
- **Surface disinfection** – cleanrooms, medical/lab equipment, industrial production lines
- **3D printing** – additive manufacturing with UV-curable resins
- **Machine vision & inspection** – fluorescence excitation and quality control

*Also suitable for optical bonding, semiconductor processing, and R&D environments.*

## Benefits for Engineers

- **Process efficiency:** pulsing and monitoring supported when integrated with MaNima Pollux Industrial
- **Consistent performance:** real-time thermal feedback prevents degradation and ensures lifetime stability
- **Industrial robustness:** resistant to dust, moisture, vibration, and chemical stress
- **Modular scalability:** fixture length and configuration tailored to the application
- **Easy integration:** designed for seamless use in production lines and test setups

## Integration with MaNima Pollux Industrial System

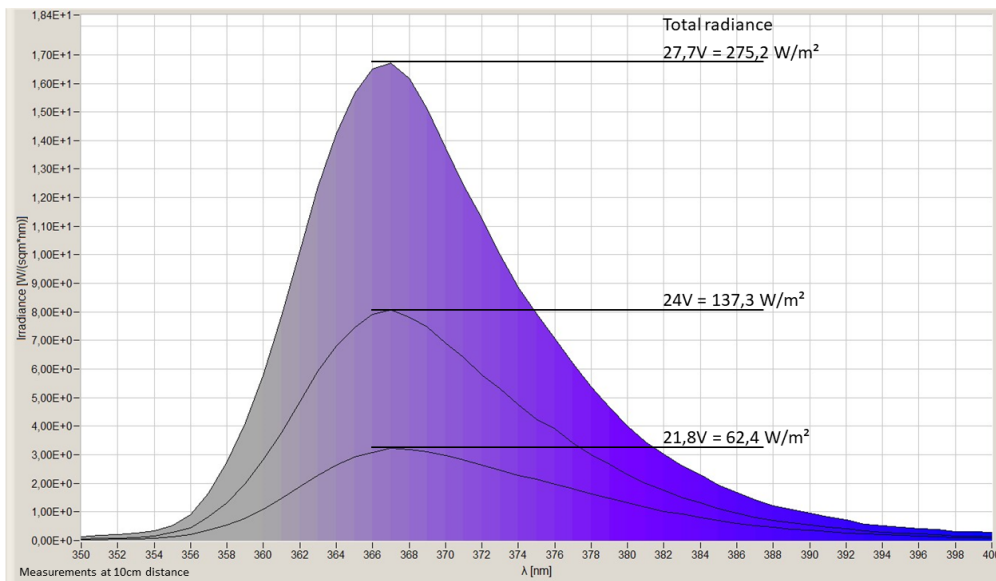
- Real-time readout and control of NTC thermal sensors
- Full support for pulsing/strobing operation of the fixture
- Increased peak intensity without thermal overload
- Process data available for industrial automation (PLC/SCADA integration)
- **Open API (UDP-based)** for system integration and custom industrial applications

## Technical specifications

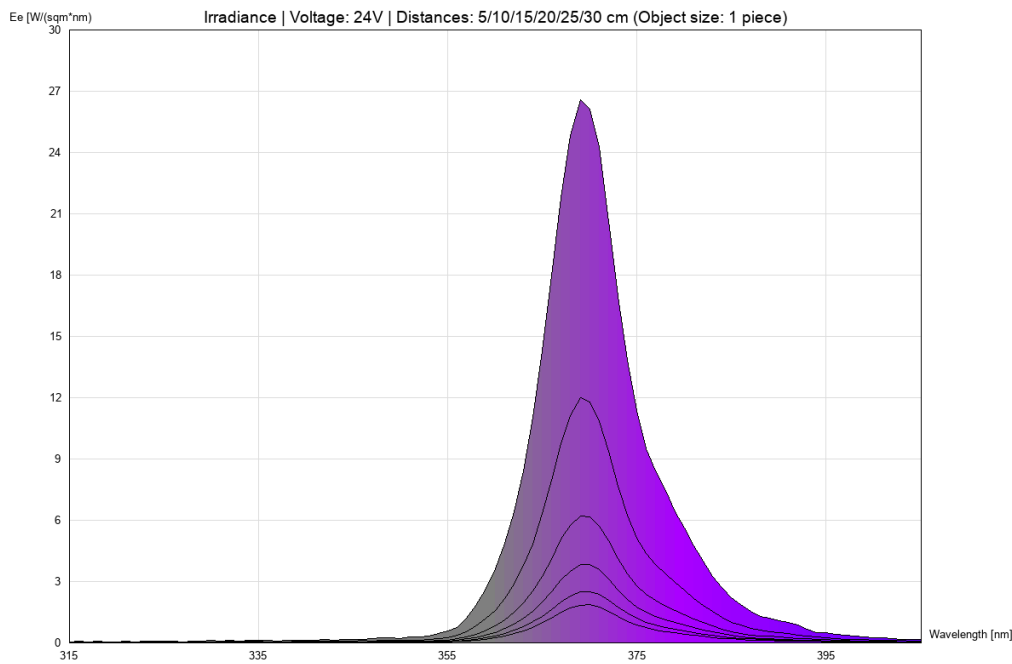
General		
Brand	LuxaLight	
Application	Curing & Aging Machine Vision UV Inspection	
LED type	2835	
Material	Aluminum	
Dimensions	220 × 266 × 235 mm	
Mounting	Surface mounted	
Cover type	Quartz glass	
LEDs per piece	108.00	
Lighting		
Wave length UV	365 nm	
Beam angle	120 °	
Measurement results		
Peak wavelength (Object size: 1 piece)	369 nm	
Peak irradiance (Object size: 1 piece)		24V
	5cm	26.573 W/sqm
	10cm	11.9593 W/sqm
	15cm	6.17532 W/sqm
	20cm	3.79817 W/sqm
	25cm	2.48874 W/sqm
	30cm	1.84494 W/sqm
Total irradiance (Object size: 1 piece)		24V
	5cm	353.6 W/sqm
	10cm	158.1 W/sqm
	15cm	83.74 W/sqm
	20cm	51.78 W/sqm
	25cm	33.83 W/sqm
	30cm	24.68 W/sqm
<ul style="list-style-type: none"><li>• By combining Pulse Mode with Real-Time Monitoring, the efficiency of LED systems can be increased, resulting in higher output.</li><li>• We have the expertise and equipment to perform measurements tailored to the specific requirements of the application.</li></ul>		
Additional benefits of the Luxalight Industrial LED Fixture		
LED Fixture benefits	<ul style="list-style-type: none"><li>• Multiple wavelengths in one housing</li><li>• No optics required due to high output</li><li>• Customizable cable output and / or connector</li><li>• Wide range of mounting options</li><li>• In-house expertise to personally advice on LED fixture customization</li></ul>	
Electronics		
Working voltage	24V	

Current per piece	1.25 A / piece											
Power consumption per piece	30.00 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
	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											
IP class	IP 64											
Directives - standards - certificates												
Directives	RoHS CE											
Safety standards	EN60598-1 EN62031 IEC62471											

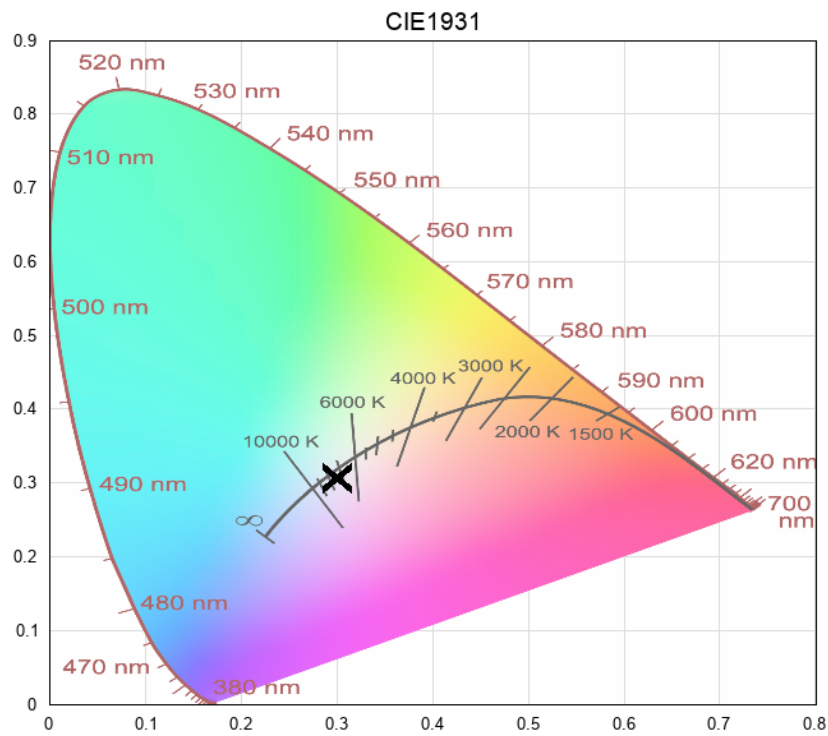
## Measurement results



## irradiance - 315-405-uv-a (24V)



## cie1931



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