

## **Datasheet**

LuxaLight Industrial LED Fixture Transparent cover UV-A 395nm 24.2x16mm (24 Volt, 2835, IP64)

LF-24-395-24.2x16-TC

Version: 2025-02-25.1

KvK-nummer: 57580561 BTW-nummer: NL852642209B01 IBAN: NL87 INGB 0007 8159 75 BIC/SWIFT code: INGBNL2A



## **Product description**

The **LuxaLight Industrial UV LED Fixture** is designed for intensive industrial applications requiring high radiation intensity for a wide range of processes, including material curing, reactors, disinfection, and more. With a wavelength of **395nm**, this LED fixture provides a reliable and efficient solution for curing coatings, resins, and other materials, as well as accelerating chemical reactions in photochemical processes, supporting reactors, and disinfecting surfaces.

The LED fixture is equipped with a silicone coating on the PCB, offering extra protection against moisture, dust, and other environmental factors. The transparent cover provides protection while allowing the **395nm wavelength** to pass through effectively for maximum performance and reliability.

#### **Key Features:**

- 395nm Wavelength: The 395nm wavelength is ideal for a wide range of industrial applications, including curing resins, coatings, and materials, as well as photochemical processes, reactors, and disinfection.
- 24V Power Supply: The fixture operates on a reliable 24V power supply, ensuring stable and consistent operation, perfect for demanding industrial applications.
- Silicone Coating on PCB: The PCB is coated with silicone to protect against environmental factors like moisture and dust, ensuring durability in harsh industrial environments.
- Transparent Cover: The cover is transparent and provides protection while allowing the 395nm wavelength to pass through
  effectively for maximum performance and reliability.
- Integration with MaNima Pollux Industry Pulsing (Strobing): The LED fixture supports integration with the MaNima Pollux Industry System for pulsing (strobing), significantly increasing radiation intensity. This feature allows for faster reactions and improved efficiency in industrial processes.
- Real-Time Temperature Monitoring via NTC Sensor: The integrated NTC sensor ensures continuous temperature measurement
  and adjustment through the MaNima Pollux Industry System. This maintains the optimal operating temperature for maximum
  radiation output and consistent performance.

#### **Applications:**

- UV Curing of Coatings: Ideal for curing coatings in the printing industry, such as in the paint industry, where rapid curing is
  essential for productivity.
- Reactors and Chemical Processes: Perfect for accelerating photochemical reactions, such as in reactors for resin or other material production that rely on UV light.
- **Disinfection**: The **395nm wavelength** can be used for disinfecting surfaces, particularly in controlled industrial environments such as laboratories and cleanrooms.
- 3D Printing: Suitable for accelerating the curing of 3D printed objects, especially for resins that require a specific 395nm wavelength for full curing.
- Packaging Industry: The LED fixture is ideal for curing packaging materials, such as in the food or pharmaceutical industry, ensuring rapid curing of printed materials.

#### Benefits:

- High Radiation Intensity: The ability to pulse with the MaNima Pollux Industry System allows radiation intensity to be significantly
  increased, resulting in faster reactions and increased productivity.
- Real-Time Temperature Monitoring for Consistent Performance: The NTC sensor, combined with the MaNima Pollux Industry System, ensures continuous temperature measurement, helping to maintain the optimal operating temperature and preventing overheating, which prolongs the LED's lifespan and improves efficiency.
- Industrial Durability: The silicone coating on the PCB provides extra protection against dust, moisture, and other environmental
  factors, making the fixture resistant to the challenges of heavy industrial environments.
- Efficiency and Speed: The LED fixture provides sufficient power for fast and efficient performance, which is essential for industrial production systems that need to process or cure large volumes of material quickly.

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# **Technical specifications**

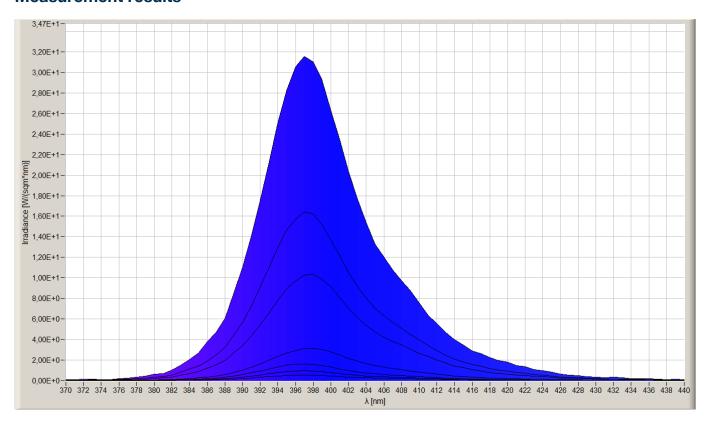
General			
Brand	LuxaLight		
Application	Curing & Aging Machine Vision UV Inspection		
LED type	2835		
Material	Aluminum		
Dimensions	220 × 24,2 × 16 mm		
Mounting	Surface mounted	Surface mounted	
Cover type	PMMA transparent		
LEDs per piece	108.00		
Lighting			
Wave length	395nm		
Beam angle	120 °		
Measurement results			
Irradiance	Value	Measuring distance	
	493 W/m2	50 mm	
	268 W/m2	75 mm	
	172 W/m2	100 mm	
	53,3 W/m2	200 mm	
	26,8 W/m2	300 mm	
	16,7 W/m2	400 mm	

	10,2 W/m2	600 mm		
Electronics				
Working voltage	24V			
Current per piece	1.25 A / piece			
Power consumption per piece	30.00 W / piece			
PCB material	Aluminium			
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			

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### **Measurement results**



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