

Datasheet

LuxaLight Industrial LED Fixture quartzglass UV-A 365nm 3535 60° 26.6x23.5mm (24 Volt, 3535, IP64, 30 LEDs)

LF-24-365-26.6x23.5B-60-QG

Version: 2025-03-28.1

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 365nm, 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 is made of quartz glass, ensuring optimal transmission of the 365nm wavelength, allowing the radiation to reach the treated surface effectively.

Key Features:

- **365nm Wavelength:** The 365nm wavelength is ideal for a wide range of industrial applications, including curing resins, coatings, and materials, as well as photochemical processes, reactors, and disinfection.
- **LED's with 60-Degree Optics:** The LED's are equipped with 60-degree optics, which ensures that the radiation is directed precisely to the right spot. This increases efficiency by focusing the UV-A light on the treatment surface, resulting in better performance in applications where accuracy and targeted radiation are crucial.
- **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 Quartz Glass Cover:** The transparent cover is made of quartz glass, which optimally transmits the 365nm wavelength, ensuring efficient radiation transfer to the treated surface.
- **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 365nm 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 365nm 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 amounts of material quickly.

Technical specifications

| General | | | | | | | | | | | | | | | |
|---|--|--------------------|--------------------|----------|-------|----------|--------|----------|------------|----------|------------|-----------|--------|-----------|--------|
| Brand | LuxaLight | | | | | | | | | | | | | | |
| Application | Curing & Aging Machine Vision UV Inspection | | | | | | | | | | | | | | |
| LED type | 3535 | | | | | | | | | | | | | | |
| PCB color | White | | | | | | | | | | | | | | |
| Material | Aluminum | | | | | | | | | | | | | | |
| Dimensions | 220 × 26,6 × 23,5 mm | | | | | | | | | | | | | | |
| Mounting | Surface mounted | | | | | | | | | | | | | | |
| Cover type | Quartz glass | | | | | | | | | | | | | | |
| LEDs per piece | 30.00 | | | | | | | | | | | | | | |
| Lighting | | | | | | | | | | | | | | | |
| Wave length | 365nm | | | | | | | | | | | | | | |
| Beam angle | 60 ° | | | | | | | | | | | | | | |
| Measurement results | | | | | | | | | | | | | | | |
| Irradiance | <table border="1"> <thead> <tr> <th>Value</th> <th>Measuring distance</th> </tr> </thead> <tbody> <tr> <td>822 W/m2</td> <td>75 mm</td> </tr> <tr> <td>600 W/m2</td> <td>100 mm</td> </tr> <tr> <td>205 W/m2</td> <td>200 mm</td> </tr> <tr> <td>111 W/m2</td> <td>300 mm</td> </tr> <tr> <td>60,9 W/m2</td> <td>400 mm</td> </tr> <tr> <td>27,7 W/m2</td> <td>600 mm</td> </tr> </tbody> </table> | Value | Measuring distance | 822 W/m2 | 75 mm | 600 W/m2 | 100 mm | 205 W/m2 | 200 mm | 111 W/m2 | 300 mm | 60,9 W/m2 | 400 mm | 27,7 W/m2 | 600 mm |
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| <ul style="list-style-type: none"> • 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 | 0.90 A / piece | | | | | | | | | | | | | | |
| Power consumption per piece | 21.60 W / piece | | | | | | | | | | | | | | |
| PCB material | Aluminium | | | | | | | | | | | | | | |
| Pinout | <table border="1"> <thead> <tr> <th>Symbol</th> <th>Function</th> </tr> </thead> <tbody> <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> </tbody> </table> | Symbol | Function | V+ | V+ | GND | Ground | NTC | NTC sensor | NTC_GND | NTC ground | | | | |
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| | NTC | NTC sensor | | | | | | | | | | | | | |
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| NTC parameters | Resistance: 5000 Ohm Beta value: 3950 | | | | | | | | | | | | | | |

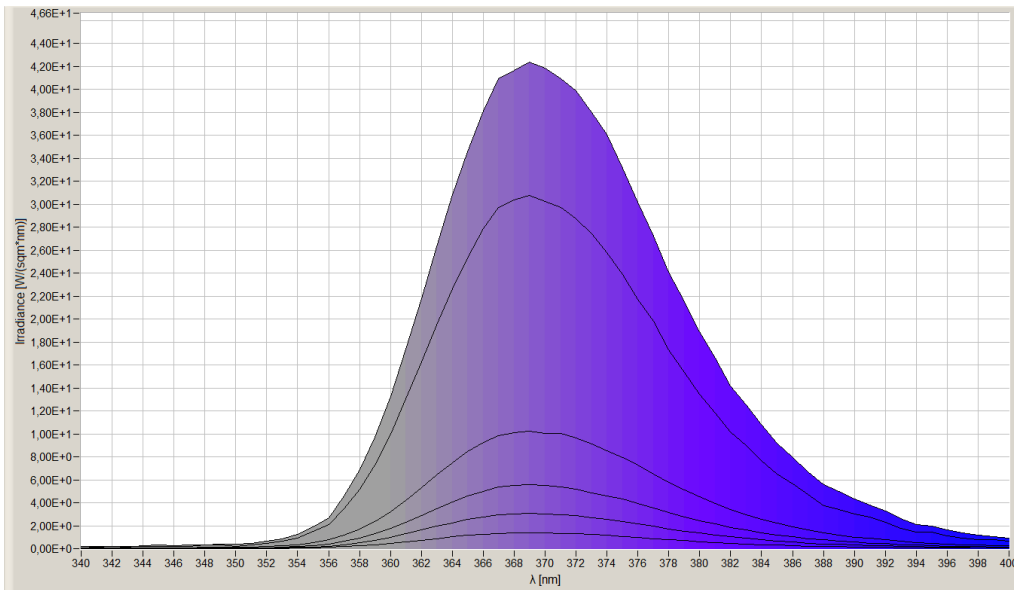
Environmental

| | |
|-----------------------|--------------|
| 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



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