

Datasheet

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

LF-24-365-24.2X16-QG

Version: 2025-08-29.2

Product description

The **Zirqle Industrial LED Fixture Quartz Glass UV-A 365 nm (26.6 × 23.5 mm)** is designed for demanding industrial environments where durability, precision, and high radiant intensity are essential. Its **modular design** (scalable from 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 × 23.5 mm (fixture profile)
Environment	Built for harsh industrial conditions (dust, vibration, moisture)

Applications

1. **UV curing of coatings and inks** – printing, packaging, automotive, electronics
2. **Adhesive & resin curing** – bonding, potting, encapsulation in industrial and medical assemblies
3. **Photochemical processes** – polymerization, reactors, laboratory chemistry
4. **Surface disinfection** – cleanrooms, medical/lab equipment, industrial production lines
5. **3D printing** – additive manufacturing with UV-curable resins
6. **Machine vision & inspection** – fluorescence excitation and quality control
7. **R&D and semiconductor processing** – optical bonding, laboratory setups, advanced industrial research

Benefits for Engineers

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

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 output for PLC/SCADA automation
- Open UDP-based API for advanced system integration

Technical specifications

General

Brand	Zirqle
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	26.57 W/sqm
	10cm	11.96 W/sqm
	15cm	6.18 W/sqm
	20cm	3.8 W/sqm
	25cm	2.49 W/sqm
	30cm	1.84 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

- 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.

Additional benefits of the Luxalight Industrial LED Fixture

LED Fixture benefits	<ul style="list-style-type: none"> • Multiple wavelengths in one housing • No optics required due to high output • Customizable cable output and / or connector • Wide range of mounting options • In-house expertise to personally advice on LED fixture customization
----------------------	--

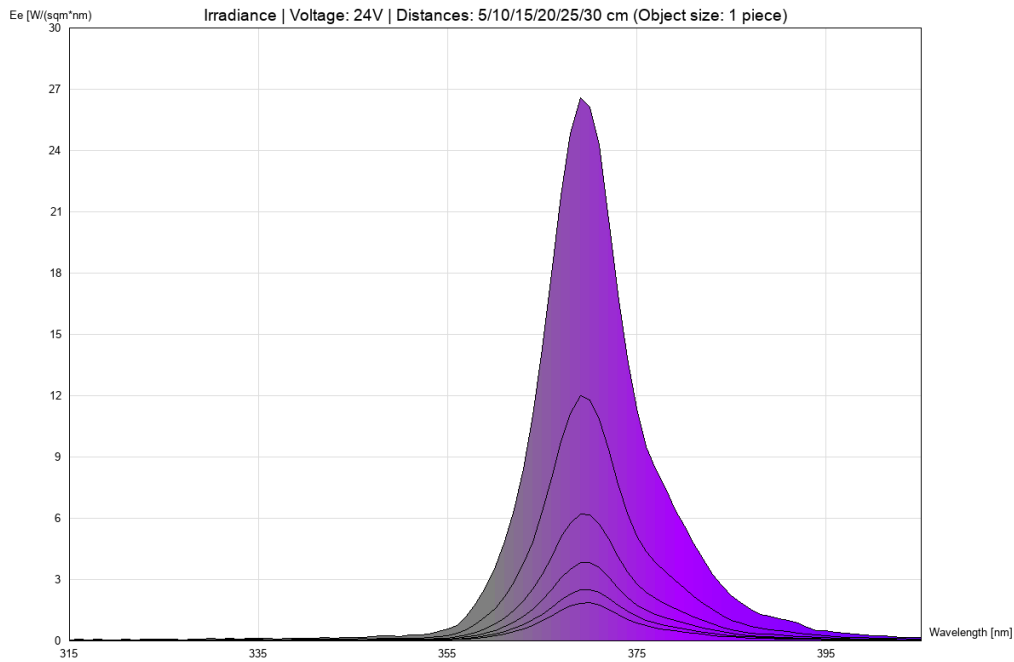
Electronics

Working voltage	24V
-----------------	-----

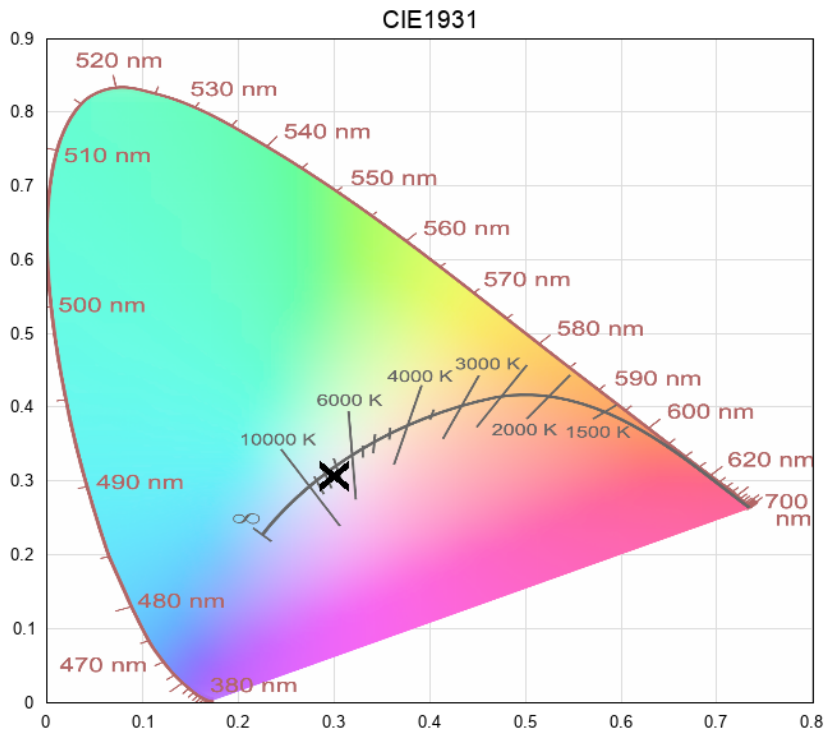
Current per piece	1.25 A / piece											
Power consumption per piece	30.00 W / piece											
PCB material	Aluminium											
Pinout	<table><tr><th>Symbol</th><th>Function</th></tr><tr><td>V+</td><td>V+</td></tr><tr><td>GND</td><td>Ground</td></tr><tr><td>NTC</td><td>NTC sensor</td></tr><tr><td>NTC_GND</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



While LuxaLight has made every reasonable effort to ensure the accuracy of the information in this brochure, LuxaLight does not guarantee that it is error - free, nor does LuxaLight make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. LuxaLight reserves the right to make any adjustments to the information contained herein at any time without notice. LuxaLight expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalogue are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult LuxaLight for the latest dimensions and design specifications.