

Datasheet

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

LF-24-395-24.2x16-TC

Version: 2025-08-26.3

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



Product description

The LuxaLight Industrial LED Fixture Transparent PMMA Cover UV-A 395 nm (24.2 x 16 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), the transparent PMMA cover – optimized for 395 nm UV transmission – and compatibility with the **MaNima Pollux Industrial System** make it a robust and flexible solution for curing, photochemistry, disinfection, machine vision, and additive manufacturing.

Specifications

Property Value / Description

Wavelength 395 nm UV-A (peak ~397 nm)

Optical Output High radiant intensity, engineered for industrial use

Cover Transparent PMMA cover – optimized for 395 nm, maintains high UV transmission

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 24.2 x 16 mm (fixture profile)

Environment Built for harsh industrial conditions (dust, vibration, moisture)

Applications

- Cost-effective UV curing of coatings and inks printing, packaging, electronics
- Adhesive & resin curing suitable for photoinitiators responsive at 385-405 nm
- Machine vision & inspection fluorescence excitation for quality control, material detection, and security marking
- · Blacklight and visual inspection detection of optical brighteners, inks, adhesives, and contaminants
- 3D printing compatible with resins designed for 385–405 nm range
- Surface disinfection (limited) effective mainly in controlled environments with extended exposure

Also applicable in optical bonding 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

Application Curing & Aging Mobiles Viscon Mobil	General		
Machine Vision Vinispection Vivinispection Vivini	Brand	LuxaLight	
PCB color White Material Abuminum Dimensions 220 × 24 x × 16 mm Mounting Surface mounted Cover type PMMA transparent LEDs per piece 108.00 Lighting Wave length 395 mm Beam angle 120 * Measurement results Pank wavelength Chigher size: 1 piece) Pank piece Pank piece Sem 29 4479 W/sogm 10cm 11.1859 W/sogm 10cm 11.1859 W/sogm 10cm 3.45532 W/sogm 10cm 3.45532 W/sogm 10cm 3.45532 W/sogm 10cm 3.45532 W/sogm 10cm 1.70424 W/sogm 20cm 3.45532 W/sogm 20c	Application	Machine Vision	
Material Aluminum Dimensions 220 × 24,2 × 16 mm Mounting Surface mounted Cover type PMMA transparent LEDs per piece 108.00 Uighting Wave length 395 mm Beam angle 120 ° Measurement results Peak wavelength 397 mm Chyeria sizes 1 pincen) 55m 29 4479 W/sqm Peak irradiance 20m 24 W/sqm Pack irradiance 25cm 2,30016 W/sqm 25cm 2,30018 W/sqm 25cm 2,30018 W/sqm 25cm 2,30018 W/sqm 25cm 2,30018 W/sqm 16cm 1,70424 W/sqm 16cm 194 W/sqm 16cm 10.3 W/sqm 20cm 61.2 W/sqm 20cm 15.2 W/sqm 20cm 16.2 W/sqm 20cm 10.3 W/sqm 20cm 10.3 W/sqm 20cm 10.2 W/sqm 20cm 10.2 W/sqm	LED type	2835	
Dimensions 220 × 24.2 × 16 mm	PCB color	White	
Mounting Surface mounted Cover type PMMA transparent LEDs per piece 108.00 Ughting Wave length 395 nm Reak wavelength Mount results Peak wavelength (Output alize 1 piece) Peak wavelength (Output alize 1 piece) 397 nm Peak wavelength (Output alize 1 piece) 24V Som 29.4479 Wagm 10cm 11.1859 Wagm 15cm 5.70155 Wagm 20cm 3.45532 Wagm 20cm 3.45532 Wagm 20cm 3.45532 Wagm 10cm 17.0424 Wagm 10cm 194 Wisqm 10cm 192 Wisqm 20cm 61 2 Wisqm 20cm 61 2 Wisqm 30cm 30.29 Wisqm 10cm	Material	Aluminum	
Cover type	Dimensions	220 × 24,2 × 16 mm	
	Mounting	Surface mounted	
Upon Interest (Company of sizes 1 piece) 24V Total irradiance (Company of sizes 1 piece) 24V Total irradiance (Company of sizes 1 piece) 24V 5cm (29,4479 W/sqm) 15cm (20,500 december of sizes 1 piece) 5cm (29,4479 W/sqm) 15cm (20,500 december of sizes 1 piece) 5cm (29,4479 W/sqm) 15cm (20,500 december of sizes 1 piece) 5cm (29,4479 W/sqm) 15cm (20,500 december of sizes 1 piece) 5cm (29,3018 W/sqm) 20cm (34,5532 W/sqm) 20cm (34,5532 W/sqm) 20cm (49,400 W/sqm) 30cm (49,400 W/sqm) 15cm (40,500 W/sqm) 100.3 W/sqm 20cm (41,200 W/sqm) 20cm (41,200 W/sqm) 20cm (40,900 W/sqm) 30.29 W/sqm 30cm (30,29) W/sqm) 5cm (40,900 W/sqm) 30cm (30,29) W/sqm) 5cm (40,900 W/sqm) 40cm (40,900 W/sqm) 30.29 W/sqm 5cm (40,900 W/sqm) 30.29 W/sqm 4cm (40,900 W/sqm) 30.29 W/sqm 5cm (40,900 W/sqm) 30.29 W/sqm 4cm (40,900 W/sqm) 30.29 W/sqm 5cm (40,900 W/sqm) 30.29 W/sqm 4cm (40,900 W/sqm) 30.29 W/sqm	Cover type	PMMA transparent	
Masurement results	LEDs per piece	108.00	
Masurement results	Lighting		
Measurement results	Wave length	395nm	
Peak wavelength (Object size: 1 piece)	Beam angle	120°	
Peak wavelength (Object size: 1 piece)	Measurement results		
Som 29.4479 W/sqm 10cm 11.1859 W/sqm 15cm 5.70155 W/sqm 20cm 3.45532 W/sqm 25cm 2.33018 W/sqm 25cm 2.33018 W/sqm 25cm 2.33018 W/sqm 30cm 1.70424 W/sqm 10cm 194 W/sqm 15cm 100.3 W/sqm 25cm 20cm 486.4 W/sqm 15cm 100.3 W/sqm 25cm 40.96 W/sqm 25cm 40.96 W/sqm 25cm 30cm 30.29 W/sqm 25cm 40.96 W/s	Peak wavelength	397 nm	
Scm 29.4479 W/sqm 10cm 11.1859 W/sqm 15cm 5.70155 W/sqm 20cm 3.45532 W/sqm 25cm 2.33018 W/sqm 25cm 2.33018 W/sqm 30cm 1.70424 W/sqm 10cm 194 W/sqm 10cm 194 W/sqm 15cm 100.3 W/sqm 25cm 20.3018 W/sqm 10cm 194 W/sqm 15cm 100.3 W/sqm 25cm 40.96 W/sqm 25cm 40.9	Peak irradiance		24V
10cm	(Object size: 1 piece)	5cm	
20cm 3.45532 W/sqm 2.5cm 2.33018 W/sqm 3.0cm 1.70424 W/sqm 1.70424 W/sqm 2.4V 2.5cm 486.4 W/sqm 486.4 W/sqm 1.6cm 194 W/sqm 1.6cm 10.3 W/sqm 1.6cm 10.5cm 1.2cm 1.2cm			
25cm 2.33018 W/sqm Total irradiance (Object size: 1 piece) Total irradiance (Total irradiance (Object size: 1 piece) Total irradiance (Object size: 1 piece)		15cm	5.70155 W/sqm
Total irradiance (Object size: 1 piece) 5cm 486.4 W/sqm 10cm 194 W/sqm 15cm 100.3 W/sqm 20cm 61.2 W/sqm 25cm 40.96 W/sqm 30cm 30.29 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. Electronics Working voltage 24V Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece		20cm	3.45532 W/sqm
Total irradiance (Object size: 1 piece) 5cm 486.4 W/sqm 10cm 194 W/sqm 15cm 100.3 W/sqm 20cm 61.2 W/sqm 25cm 40.96 W/sqm 30cm 30.29 W/sqm		25cm	2.33018 W/sqm
(Object size: 1 piece) 5cm 486.4 W/sqm 10cm 194 W/sqm 15cm 100.3 W/sqm 20cm 61.2 W/sqm 25cm 40.96 W/sqm 30cm 30.29 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. Electronics Working voltage 24V Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece		30cm	1.70424 W/sqm
10cm 194 W/sqm 194 W/sqm 194 W/sqm 194 W/sqm 195 Cm 100.3 W/sqm 195 Cm 195 Cm			24V
15cm 100.3 W/sqm 20cm 61.2 W/sqm 25cm 40.96 W/sqm 30cm 30.29 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. Electronics Working voltage 24V Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece		5cm	486.4 W/sqm
20cm 40.96 W/sqm 30cm 30.29 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. Electronics Working voltage 24V Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece		10cm	194 W/sqm
25cm 40.96 W/sqm 30cm 30.29 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. Electronics Working voltage 24V Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece		15cm	100.3 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. Electronics Working voltage 24V Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece		20cm	61.2 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. Electronics Working voltage 24V Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece		25cm	40.96 W/sqm
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 1.25 A / piece Power consumption per piece 30.00 W / piece		30cm	30.29 W/sqm
Working voltage 24V Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece		resulting in higher output. • We have the expertise a	•
Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece	Electronics		
Current per piece 1.25 A / piece Power consumption per piece 30.00 W / piece	Working voltage	24V	
		1.25 A / piece	
PCB material Aluminium	Power consumption per piece	30.00 W / piece	
	PCB material	Aluminium	

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Symbol	Function
V+	V+
GND	Ground
NTC	NTC sensor
NTC_GND	NTC ground

NTC parameters Resistance: 5000 Ohm Beta value: 3950

Environmental

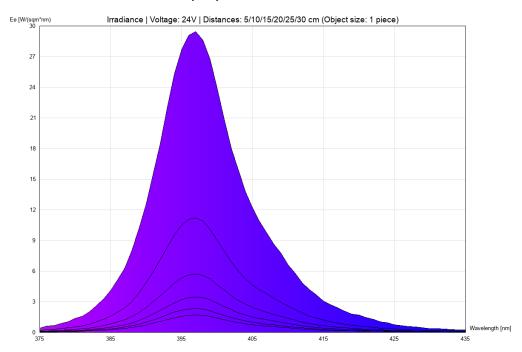
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates		
Directives	RoHS CE	
Safety standards	EN60598-1 EN62031 IEC62471	



Measurement results

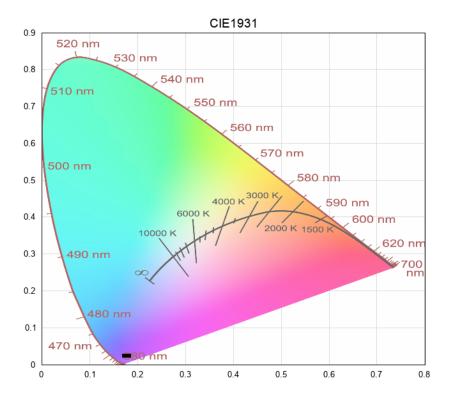
irradiance - 375-435-uv-ablue (24V)



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