

Datasheet

LuxaLight Industrial LED Fixture Opaline cover Red 640nm 24.2x16mm (24 Volt, 2835, IP64)

LF-24-640-24.2X16-OC

Version: 2025-07-11.2

Product description

The LuxaLight Industrial LED Fixture Opaline cover Red 640nm is characterized by a high durability and long life-time, even under harsh and demanding conditions. The PCB is made of aluminum and has a silicone coating (IP64) so that the LED engine can be used in a humid environment.

In combination with the [MaNima Pollux Industry](#), it is possible to significantly increase the output of the LED Fixture. For more information about the MaNima System [click here](#).

The LuxaLight Industrial LED Fixture Opaline cover Red 640nm is a **modular product**, which setup can be configured. Go to: [LuxaLight industrial LED Fixtures](#) for more information

If a higher impact or water resistance is required, it is possible to have this product **moulded**. For more information about LED moulding, [click here](#).

For more information about LED solutions in the industry see: [Horticulture](#), [Machine Vision](#), [Curing](#), [Disinfection](#), [Signalling](#) en [Traffic Systems](#).

Technical specifications

General

Brand	LuxaLight
Application	Barcode Scanning Machine Vision
LED type	2835
Material	Aluminum
Dimensions	220 × 24,2 × 16 mm
Mounting	Surface mounted
Cover type	PMMA opal
LEDs per piece	108.00

Lighting

Wave length	640nm
Beam angle	120 °

Measurement results

Illuminance (Lux)
(Object size: 1 piece)

	24V
5cm	64290 lx
10cm	19860 lx
15cm	9855 lx
20cm	5796 lx
25cm	3840 lx
30cm	2843 lx

Total PPFD umol/m2 (PAR 400-700nm)
(Object size: 1 piece)

	24V
5cm	2315.41 umol/m2
10cm	713.909 umol/m2
15cm	356.442 umol/m2
20cm	213.677 umol/m2
25cm	141.164 umol/m2
30cm	104.545 umol/m2

Peak wavelength
(Object size: 1 piece)

639 nm

- 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
PCB material	Aluminium

Pinout

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

NTC parameters	Resistance: 5000 Ohm Beta value: 3950
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Environmental

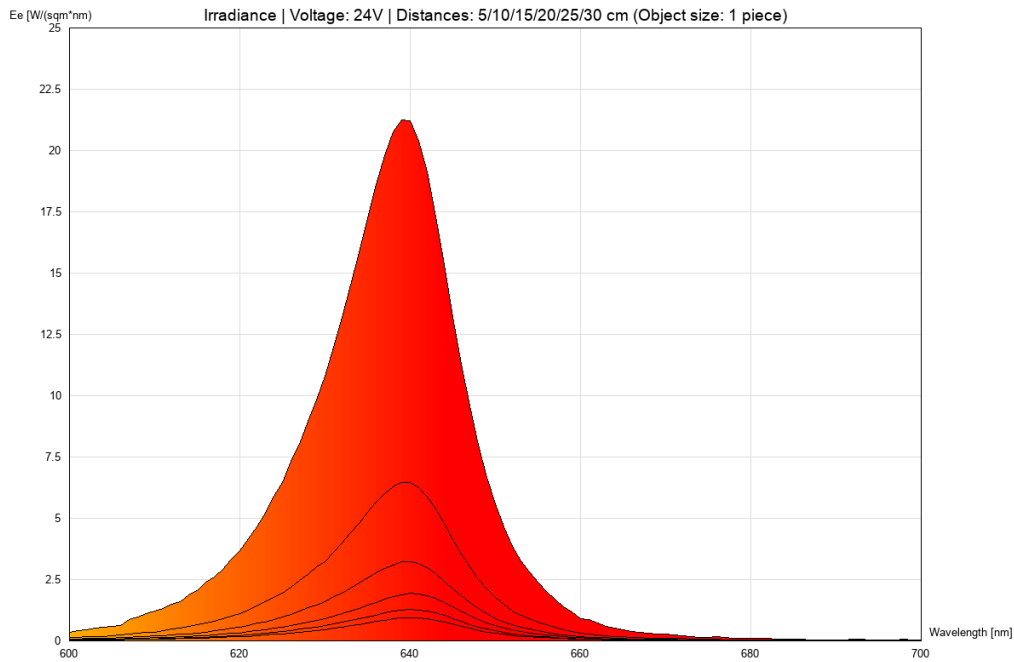
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

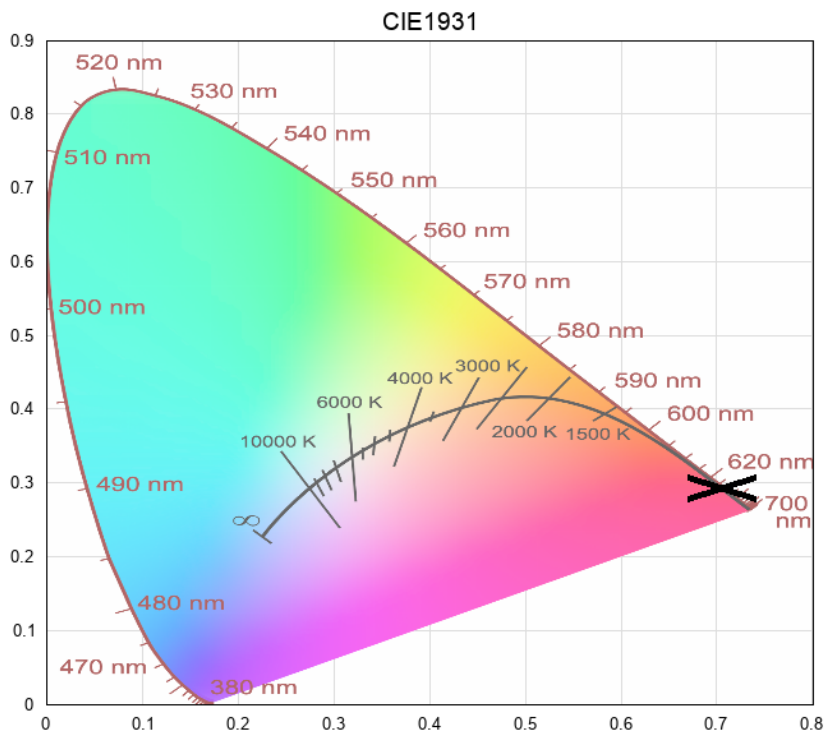
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - 600-700-red (24V)



cie1931



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