

Datasheet

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

LF-24-640-24.2X16-OC

Version: 2025-03-28.1

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

PPFD	Value	Measuring distance
	1689 µmol/m ²	50 mm
892 µmol/m ²	75 mm	
568 µmol/m ²	100 mm	
183 µmol/m ²	200 mm	
92 µmol/m ²	300 mm	
61,1 µmol/m ²	400 mm	
40,5 µmol/m ²	600 mm	

Irradiance	Value	Measuring distance
	324 W/m ²	50 mm
180 W/m ²	75 mm	
113 W/m ²	100 mm	
36 W/m ²	200 mm	
18 W/m ²	300 mm	
12 W/m ²	400 mm	
7,8 W/m ²	600 mm	

Illuminance	Value	Measuring distance
	46 klux	50 mm
24 klux	75 mm	
15,2 klux	100 mm	
4,8 klux	200 mm	
2,5 klux	300 mm	
1,7 klux	400 mm	
1,1 klux	600 mm	

- 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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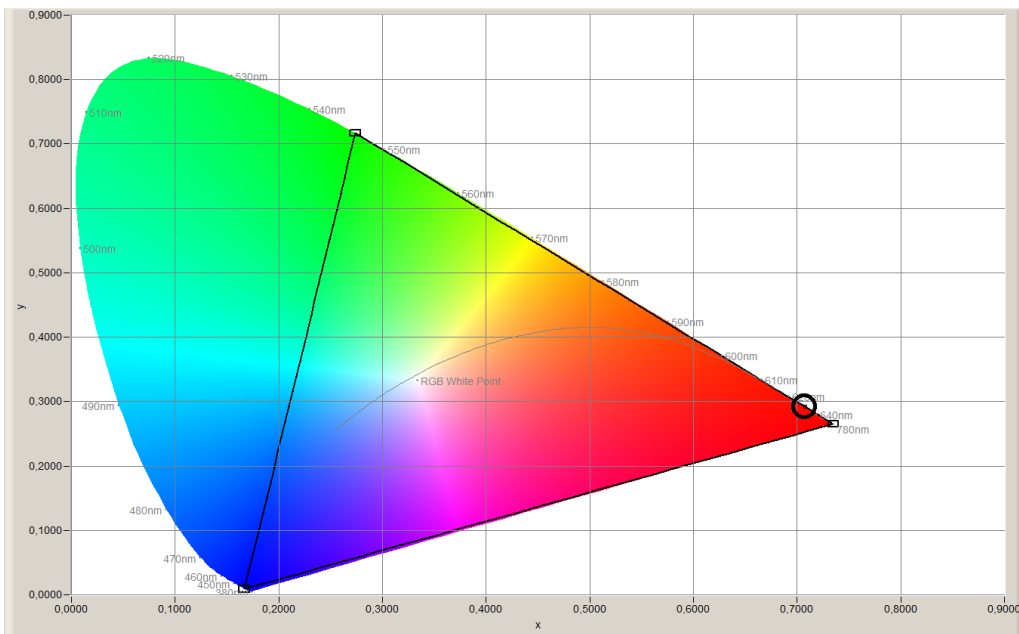
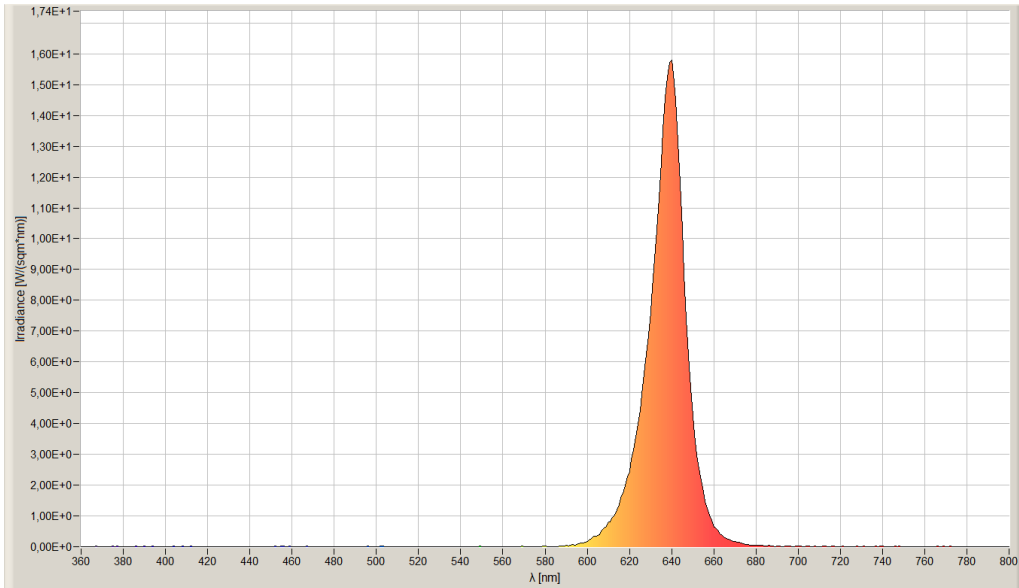
Environmental

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

Directives - standards - certificates

Directives	RoHS CE
Safety standards	EN60598-1 IEC62471 EN62031

Measurement results



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