

Datasheet

LuxaLight Industrial LED Fixture Transparent Cover RGBW 24.2x16mm (24 Volt, 5050, IP64)

LF-24-RGBW-24.2X16-TC

Version: 2025-07-11.2

Product description

The LuxaLight Industrial LED Fixture Transparent cover RGBW 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 Transparent cover RGBW 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	Horticulture Hyper - spectral Imaging
LED type	5050
Material	Aluminum
Dimensions	220 × 24,2 × 16 mm
Mounting	Surface mounted
Warranty	5 years
Cover type	PMMA transparent
LEDs per piece	36.00

Lighting

Color temperature	2650 K
CRI	≥ 95
Wave length Red	620~630 nm
Wave length Green	510 ~ 520 nm
Wave length Blue	450 ~ 460 nm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L80B50

Measurement results

Illuminance (Lux)
(Object size: 1 piece)

	24V
5cm	34510 lx
10cm	14080 lx
15cm	7229 lx
20cm	4486 lx
25cm	3023 lx
30cm	2280 lx

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

	24V
5cm	601.212 umol/m2
10cm	244.775 umol/m2
15cm	125.704 umol/m2
20cm	78.0229 umol/m2
25cm	52.5608 umol/m2
30cm	39.6553 umol/m2

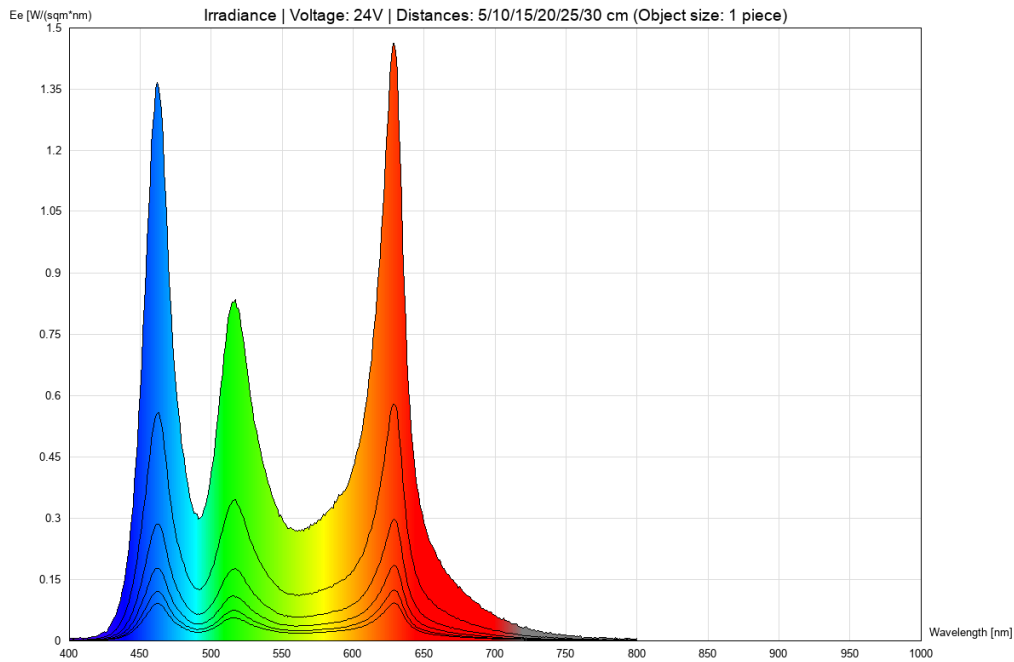
- By combining Pulse Mode with Real-Time Monitoring, the efficiency of LED systems can be increased, resulting in higher output.
- We have the expertise and equipment to perform measurements tailored to the specific requirements of the application.

Electronics

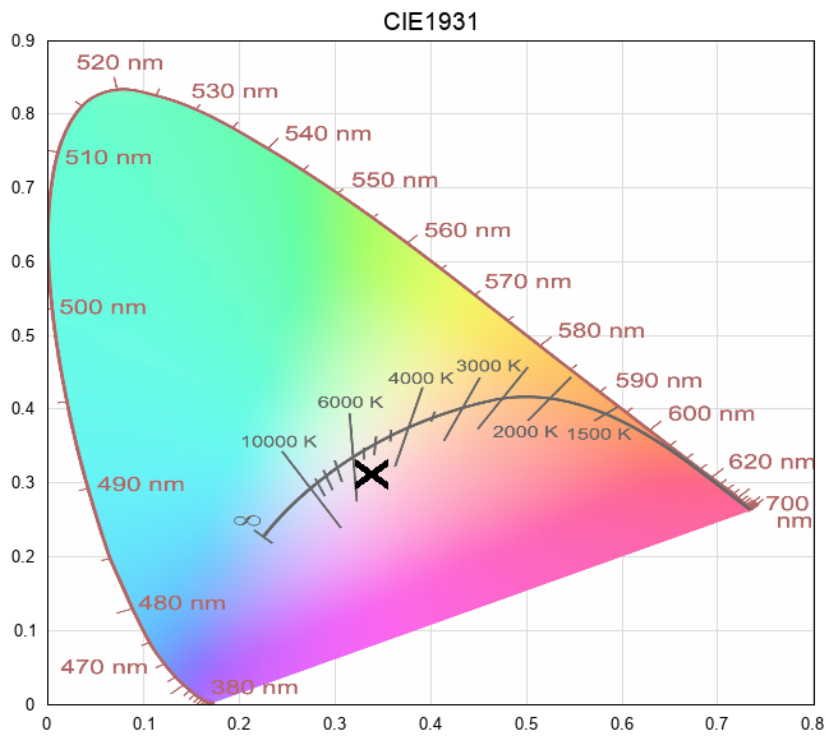
Working voltage	24V												
Current per piece	0.40 A / piece												
Power consumption per piece	9.60 W / piece												
PCB material	Aluminium												
Pinout	<table> <tr> <th>Symbol</th><th>Function</th></tr> <tr> <td>V+</td><td>V+</td></tr> <tr> <td>R</td><td>Red channel</td></tr> <tr> <td>G</td><td>Green channel</td></tr> <tr> <td>B</td><td>Blue channel</td></tr> <tr> <td>W</td><td>White channel</td></tr> </table>	Symbol	Function	V+	V+	R	Red channel	G	Green channel	B	Blue channel	W	White channel
Symbol	Function												
V+	V+												
R	Red channel												
G	Green channel												
B	Blue channel												
W	White channel												
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 - full-spectrum (24V)



cie1931



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