

Datasheet

LED engine specification

Product type:
LF-24-265-24.2x16

Description:
**LuxaLight Industrial LED Fixture UV-C 265nm 3535 60° 24.2x16mm
(24 Volt, 3535, IP20)**



Date:
09-03-2023

Basic Parameters	
LED Type	3535 SMD
LED Qty	57 LEDs / Engine
Dimensions	Variable (see table)* 24,2 * 16 mm
Weight	Variable (see table)
Mounting	Surface Mounted

Environment Parameters	
Working Temperature	-25°C ~ +70°C
Storage Temperature	-20°C ~ +60°C
IP grade	IP20

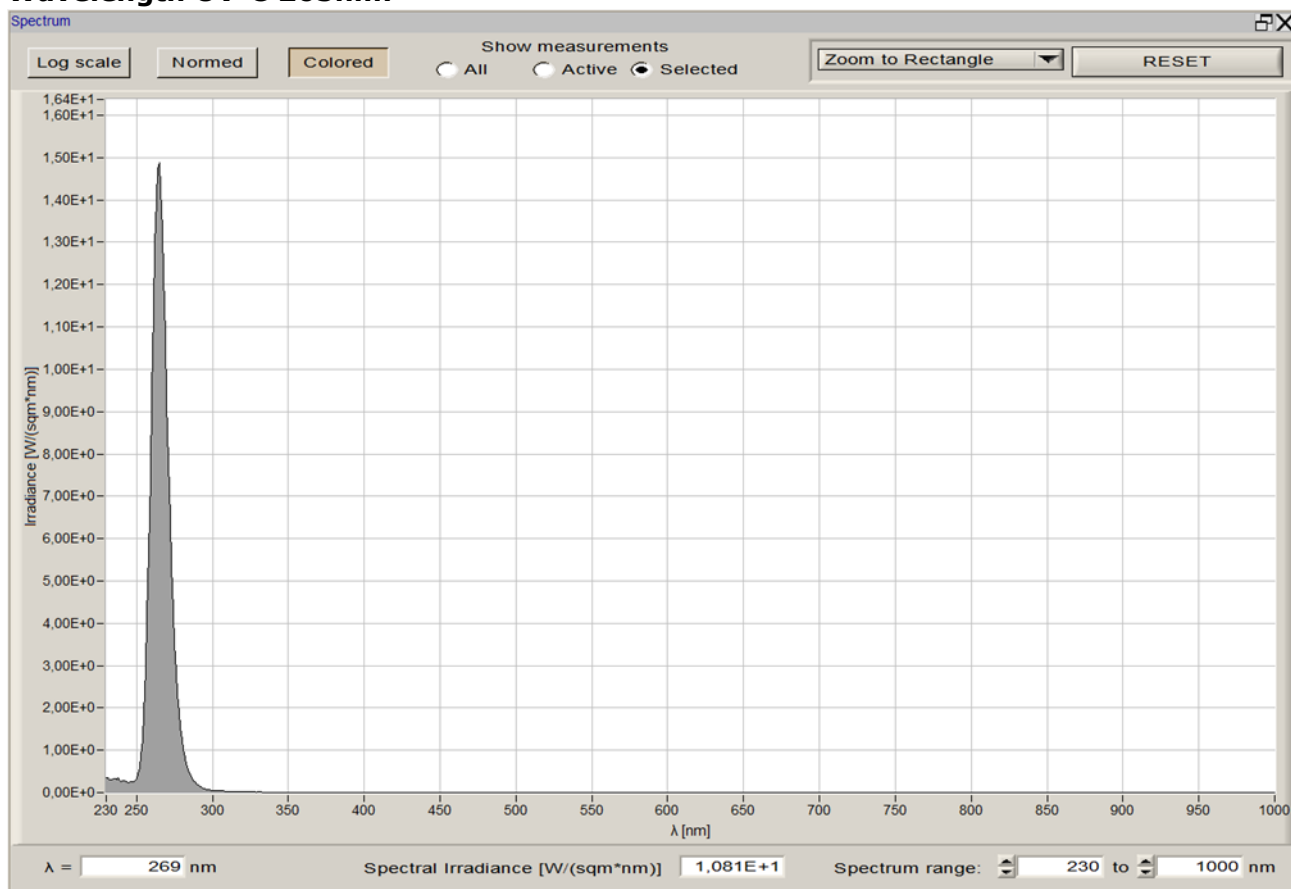
Electronic Specifications	
Working Voltage	DC24V
Working Current	1,7 A / Piece
Working Wattage	40,8 W/ Piece
Driving Method	Constant Voltage

Lighting Specifications	
Wavelength (nm)	UV-C 265 nm
Viewing Angle (θ)	60 ±5°

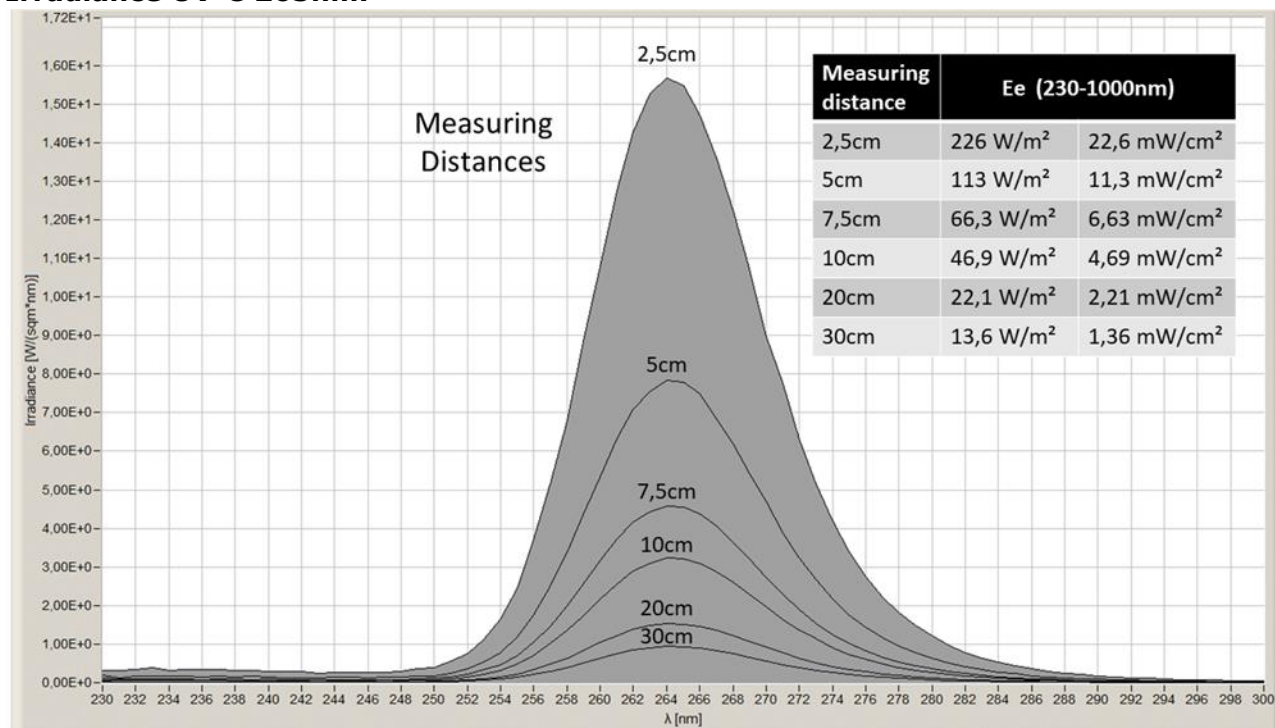
Irradiance at	Ee (W/m ²) 230-1000nm	Ee (W/cm ²) 230-1000nm
2,5 cm	226 W/m ²	22,6 mW/cm ²
5 cm	113 W/m ²	11,3 mW/cm ²
7,5 cm	66,3 W/m ²	6,63 mW/cm ²
10 cm	46,9 W/m ²	4,69 mW/cm ²
20 cm	22,1 W/m ²	2,21 mW/cm ²
30 cm	13,6 W/m ²	1,36 mW/cm ²

Peak Irradiance at 265nm	Ee (W/m ²) 265nm	Ee (W/cm ²) 230-1000nm
2,5 cm	14,9 W/m ²	1,49 mW/cm ²
5 cm	7,88 W/m ²	0,79 mW/cm ²
7,5 cm	4,91 W/m ²	0,49 mW/cm ²
10 cm	3,29 W/m ²	0,33 mW/cm ²
20 cm	1,43 W/m ²	0,14 mW/cm ²
30 cm	0,82 W/m ²	0,08 mW W/cm ²

Wavelength UV-C 265nm:

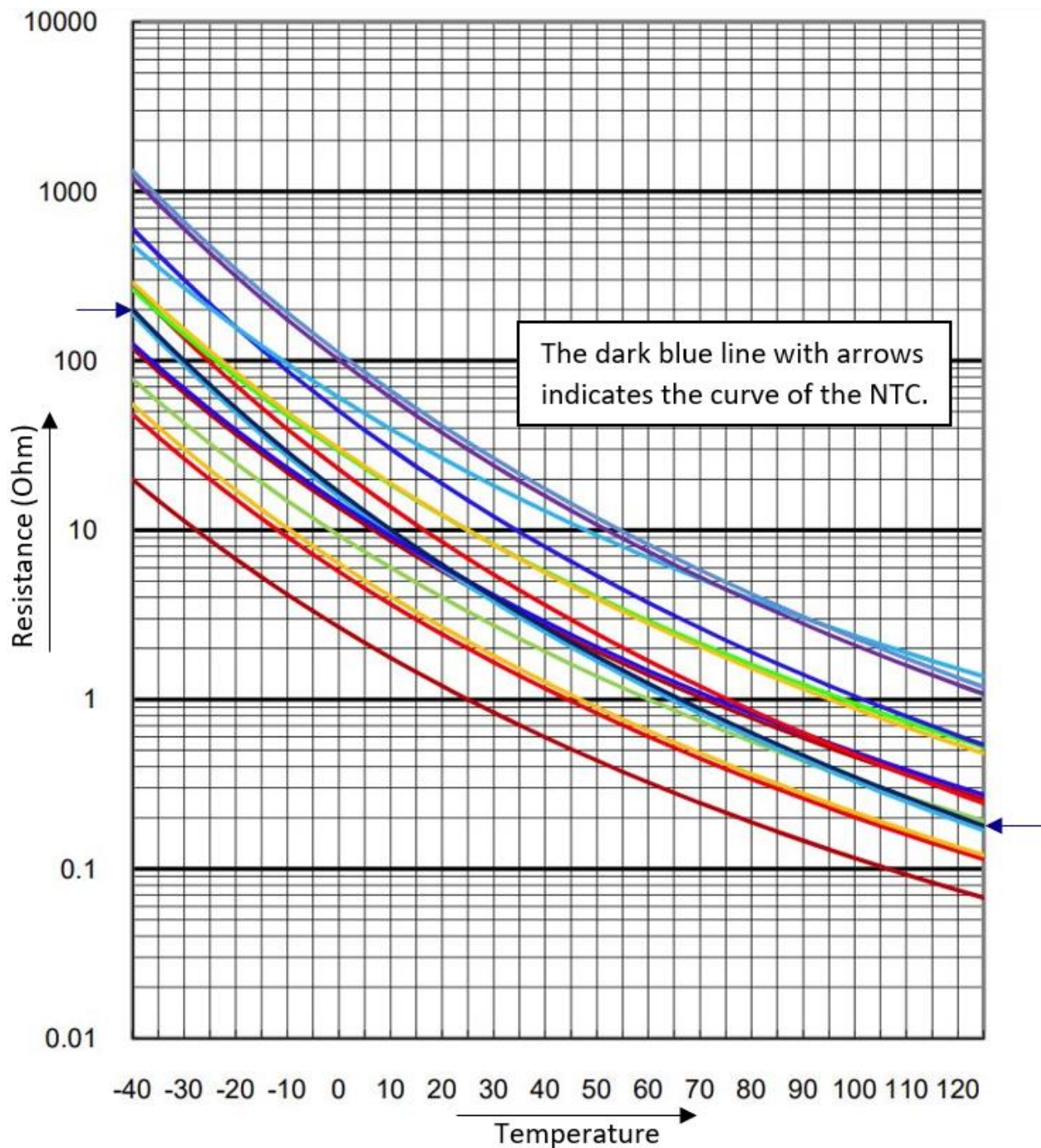


Irradiance UV-C 265nm:



NTC parameters	
Resistance (Ohm)	5KOhm
Beta Value	3950

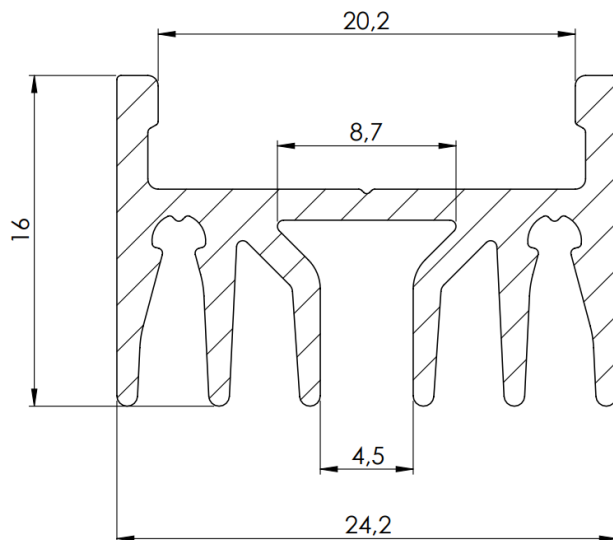
Curvature of the NTC:



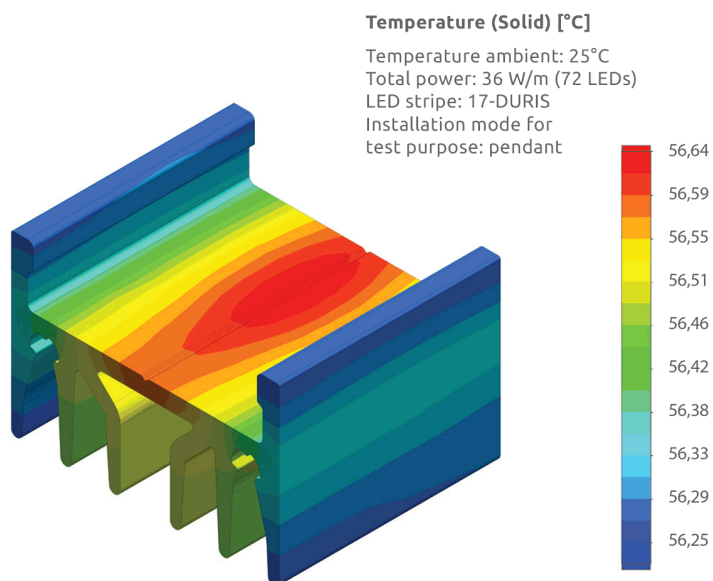
Configuration table

Modules	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Fixture Length (cm)	22	42	62	82	102	122	144	164	184	204	224	244	264	284
Weight (g)	115	220	325	430	534	639	754	859	964	1069	1173	1278	1383	1488
Power Entries	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Power Consumption (Watt)	40,8	81,6	122,4	163,2	204	244,8	286	326	367,2	408	449	490	530	571
Silicone Moulding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Polyurethane Moulding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clear Lenscover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Opal Lenscover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Dimensions



Temperature Distribution



The materials of PCB:

2mm Thick Aluminium.

Solderings:

Solder Alloy: 99.3 Sn, 0.7 Cu,

Melting Temperature: 227°C

No SVHC (Jan 2021)

Certificate of Conformity:

EC Council Directive 2004/108/EC

Electromagnetic Compatibility

Complies to the standards:

- NEN-EN-IEC 61000-3-2:2019/A1:2021
- NEN-EN-IEC 61000-3-3:2013+A1:2017+A2:2021
- NEN-EN-IEC 61547:2009

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