

Datasheet

LED engine specification

Product type:
LE-24-525-108X2835PLX

Description:
LuxaLight LED Engine Green 525nm Protected (24 Volt, 108 LEDs, 2835, IP64)



Date:
04-01-2023

Basic Parameters	
LED Type	2835 SMD
LED Qty	108 LEDs
Dimensions	200 * 20 * 2 mm
Weight	22g
Mounting	3M tape VHB4905

Environment Parameters	
Working Temperature	-25°C ~ +70°C
Storage Temperature	-20°C ~ +60°C
IP grade	IP64 Silicone Coating

Electronic Specifications	
Working Voltage	DC24V
Working Current	1,25 A/ piece
Working Wattage	30 W/ piece
Driving Method	Constant Voltage

Lighting Specifications	
Wavelength (nm)	525 nm
Viewing Angle (θ)	120 ±5°

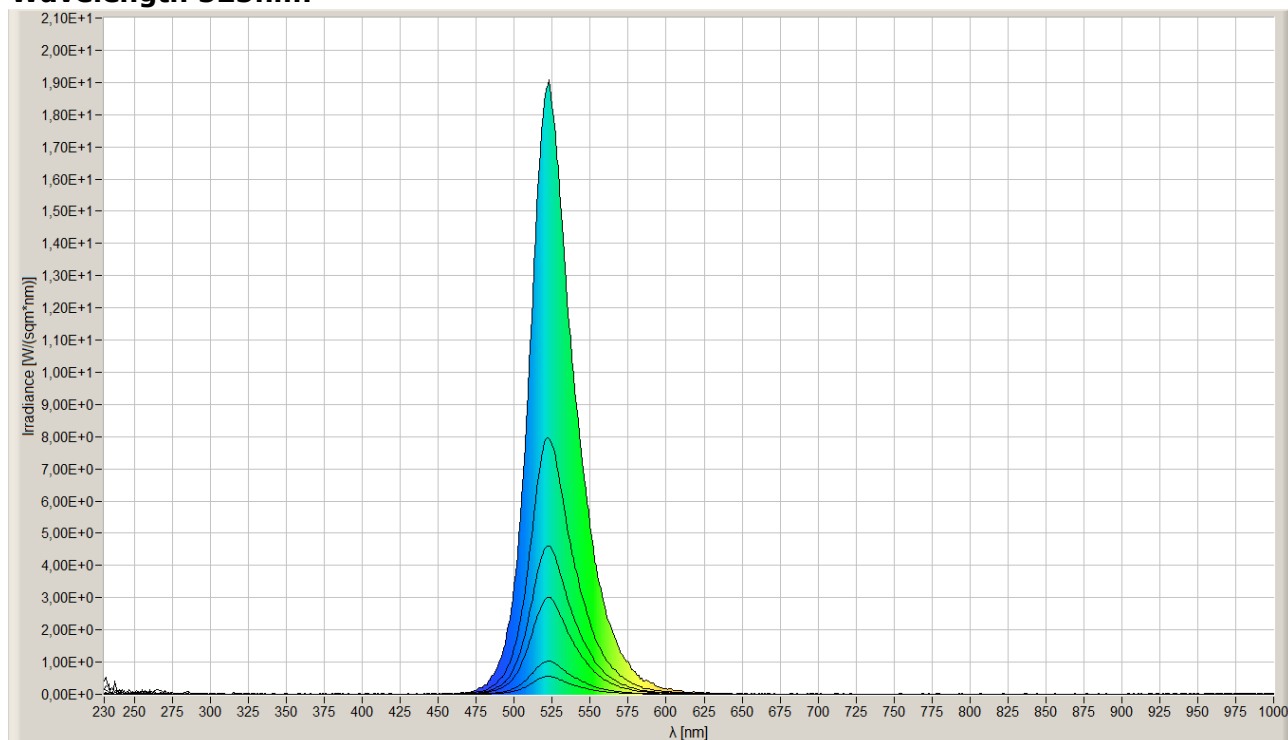
Irradiance at	Ee (W/m ²) 230-1000nm	Ee (W/cm ²) 230-1000nm
2,5 cm	695 W/m ²	69,5 mW/cm ²
5 cm	304 W/m ²	30,4 mW/cm ²
7,5 cm	176 W/m ²	17,6 mW/cm ²
10 cm	115 W/m ²	11,5 mW/cm ²
20 cm	39 W/m ²	3,9 mW/cm ²
30 cm	20,7 W/m ²	2,07 mW/cm ²

Peak Irradiance at 523nm	Ee (W/m ²) 523nm	Ee (mW/cm ²) 523nm
2,5 cm	19,1 W/m ²	1,91 mW/cm ²
5 cm	7,93 W/m ²	0,79 mW/cm ²
7,5 cm	4,59 W/m ²	0,46 mW/cm ²
10 cm	3,02 W/m ²	0,30 mW/cm ²
20 cm	1,03 W/m ²	0,10 mW/cm ²
30 cm	0,55 W/m ²	0,06 mW/cm ²

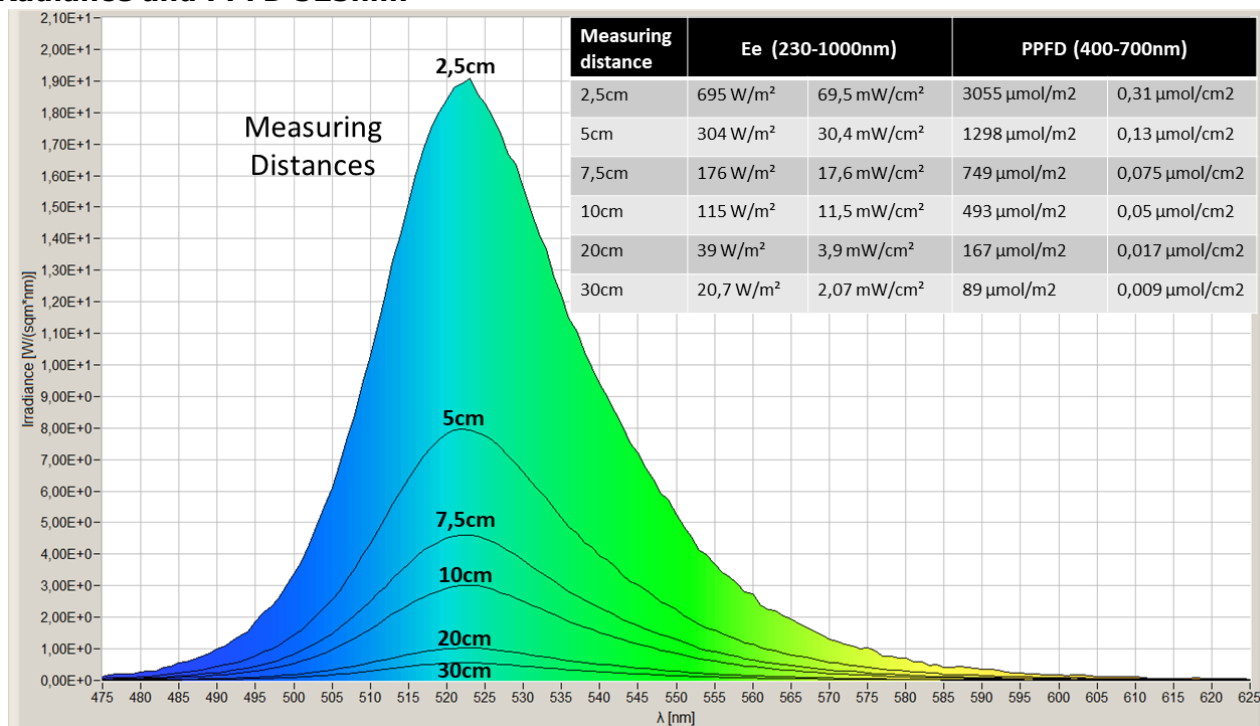
PPFD at	μmol/cm ² (PAR 400-700nm)	μmol/cm ² (PAR 400-700nm)
2,5 cm	3055 μmol/m ²	0,31 μmol/cm ²
5 cm	1298 μmol/m ²	0,13 μmol/cm ²
7,5 cm	749 μmol/m ²	0,075 μmol/cm ²
10 cm	493 μmol/m ²	0,05 μmol/cm ²
20 cm	167 μmol/m ²	0,017 μmol/cm ²
30 cm	89 μmol/m ²	0,009 μmol/cm ²

Illuminance (Lux) at	Lux
2,5 cm	356,4 klx
5 cm	150,9 klx
7,5 cm	87,1 klx
10 cm	57,3 klx
20 cm	19,4 klx
30 cm	10,3 klx

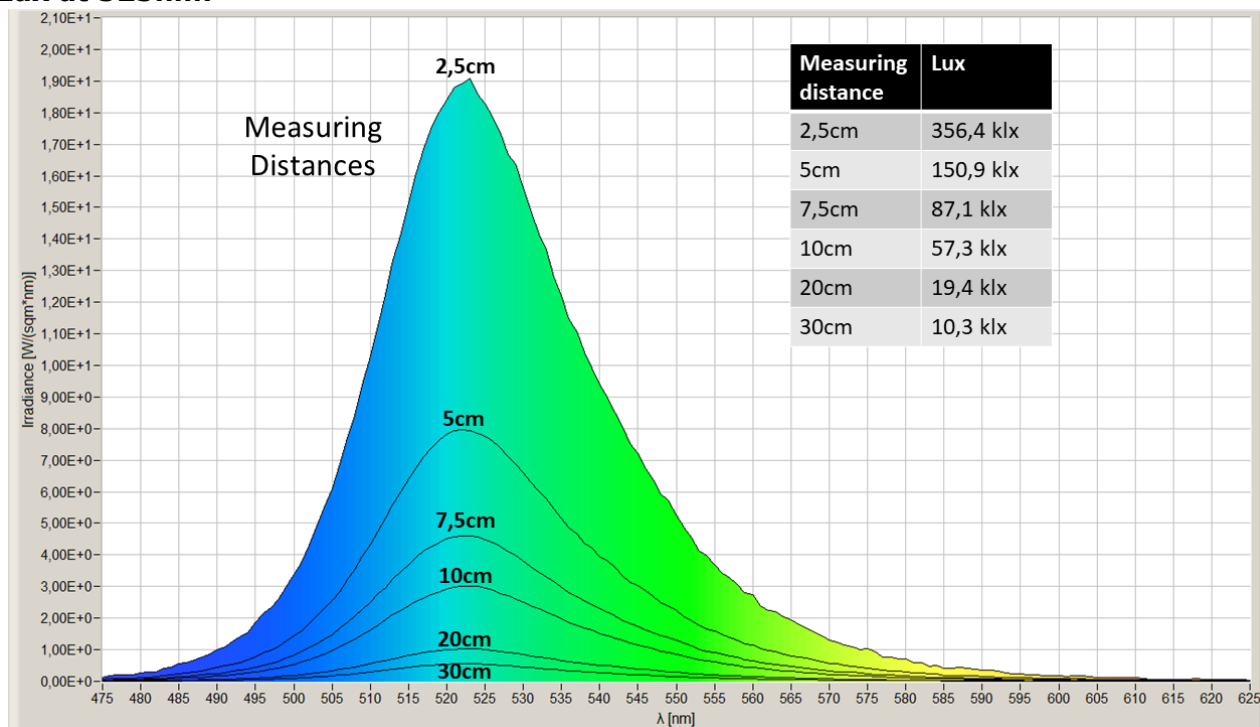
Wavelength 525nm:



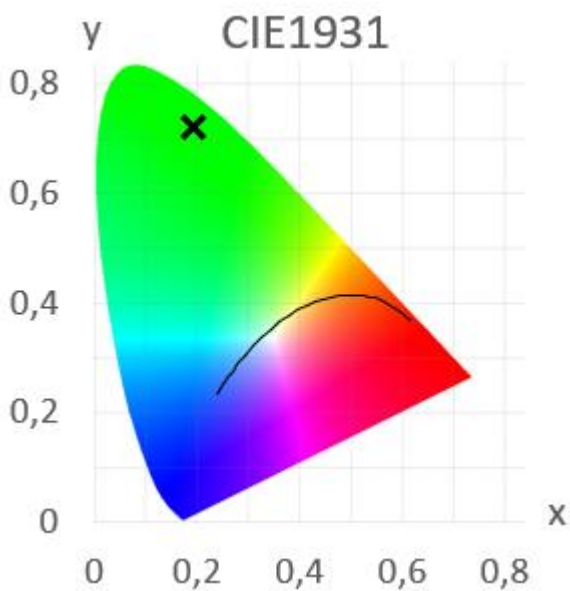
Radiance and PPFD 525nm:



Lux at 525nm:

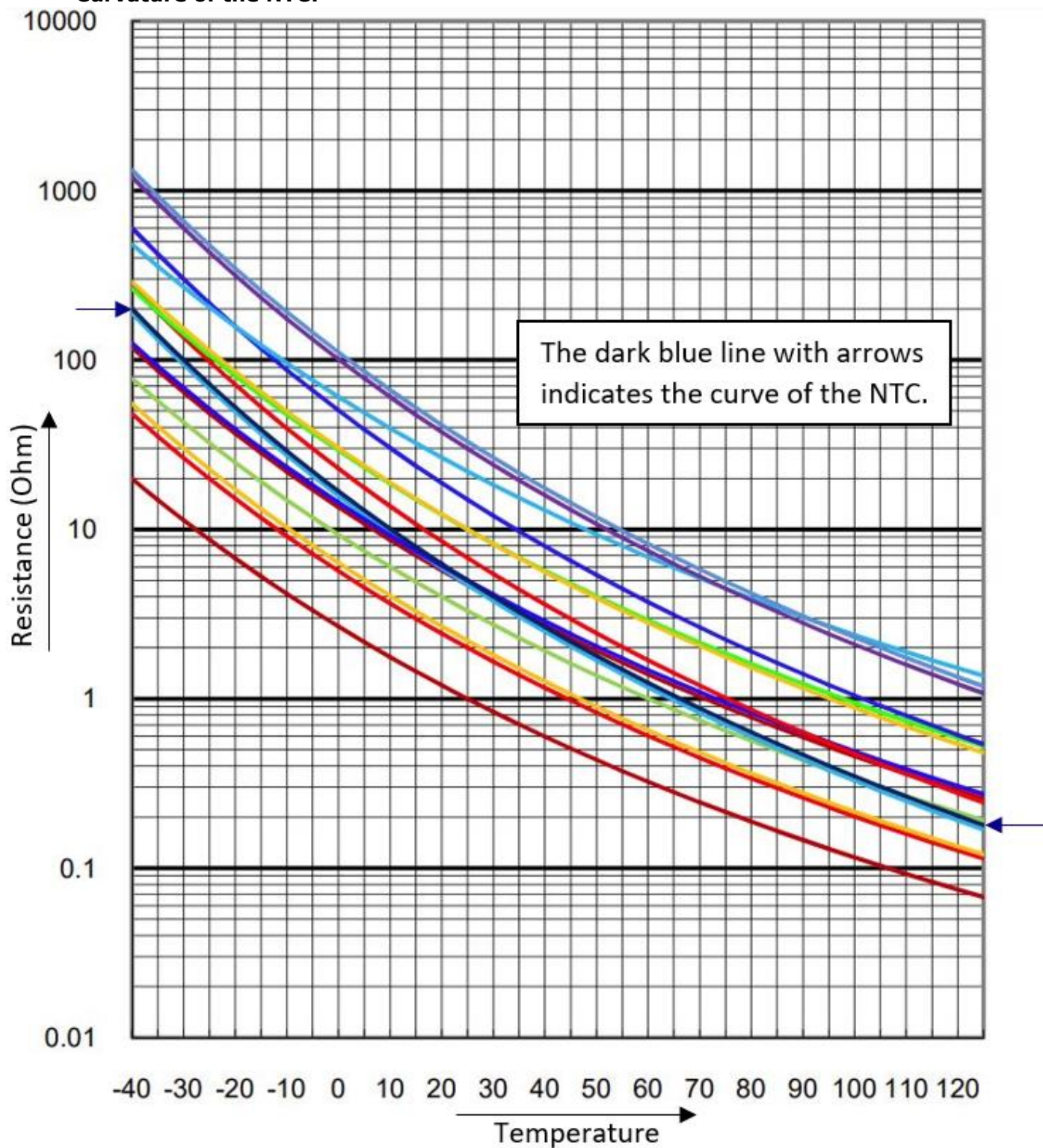


CIE1931:



NTC parameters	
Resistance (Ohm)	5KOhm
Beta Value	3950

Curvature of the NTC:



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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