

Datasheet

LED engine specification

Product type:
LE-24-660-108X2835PLX

Description:
LuxaLight LED Engine Deep Red 660nm Protected (24 Volt, 108 LEDs, 2835, IP64)



Date:
08-02-2023

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

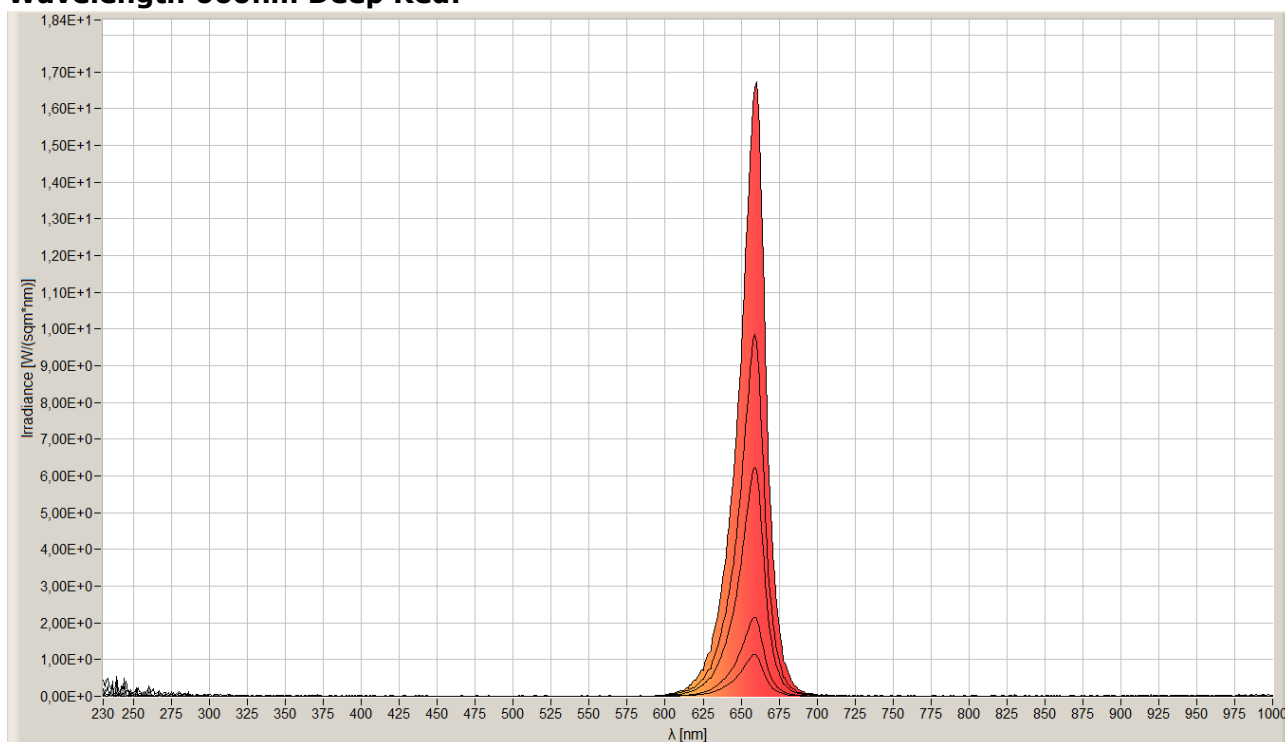
Lighting Specifications	
Wavelength (nm)	660 nm
Viewing Angle (θ)	120 ±5°

Irradiance at	Ee (W/m²) 230-1000nm	Ee (W/cm²) 230-1000nm
5 cm	378 W/m²	37,8 mW/cm²
7,5 cm	232 W/m²	23,2 mW/cm²
10 cm	143 W/m²	14,3 mW/cm²
20 cm	49,8 W/m²	4,98 mW/cm²
30 cm	26 W/m²	2,6 mW/cm²

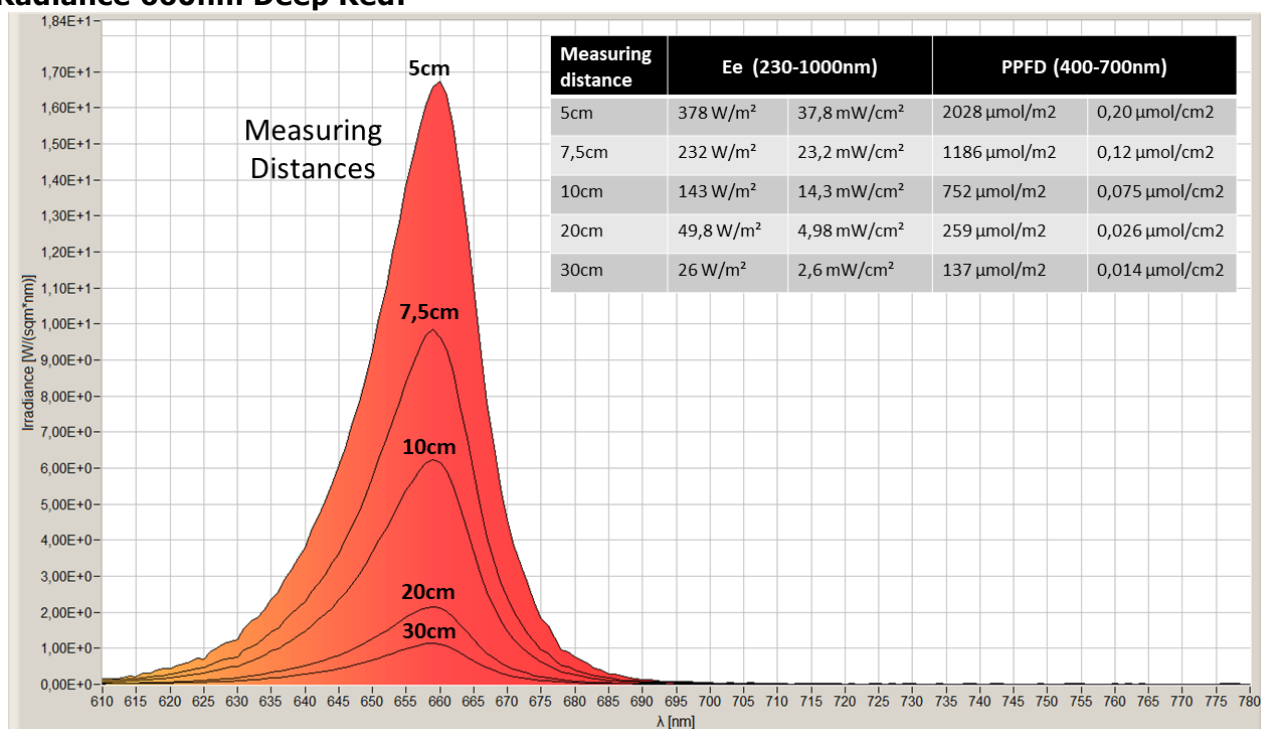
Peak Irradiance at 660nm	Ee (W/m²) 660nm	Ee (mW/cm²) 660nm
5 cm	16,7 W/m²	1,67 mW/cm²
7,5 cm	9,61 W/m²	0,96 mW/cm²
10 cm	6,15 W/m²	0,62 mW/cm²
20 cm	2,11 W/m²	0,21 mW/cm²
30 cm	1,11 W/m²	0,11 mW/cm²

PPFD at	$\mu\text{mol}/\text{m}^2$ (PAR 400-700nm)	$\mu\text{mol}/\text{cm}^2$ (PAR 400-700nm)
5 cm	2028 $\mu\text{mol}/\text{m}^2$	0,20 $\mu\text{mol}/\text{cm}^2$
7,5 cm	1186 $\mu\text{mol}/\text{m}^2$	0,12 $\mu\text{mol}/\text{cm}^2$
10 cm	752 $\mu\text{mol}/\text{m}^2$	0,075 $\mu\text{mol}/\text{cm}^2$
20 cm	259 $\mu\text{mol}/\text{m}^2$	0,026 $\mu\text{mol}/\text{cm}^2$
30 cm	137 $\mu\text{mol}/\text{m}^2$	0,014 $\mu\text{mol}/\text{cm}^2$

Wavelength 660nm Deep Red:

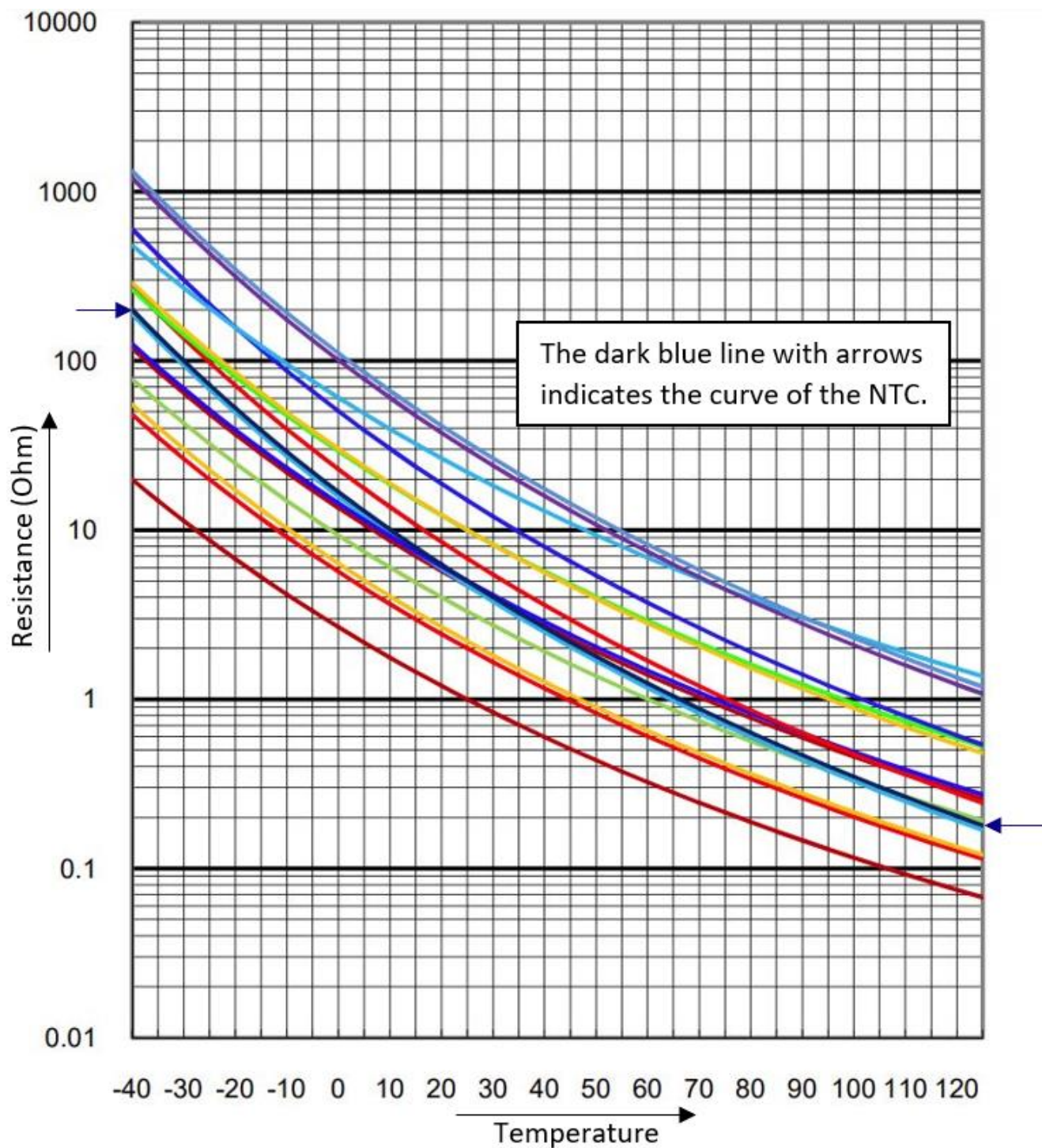


Radiance 660nm Deep Red:



Curvature of the NTC:

NTC parameters	
Resistance (Ohm)	5KOhm
Beta Value	3950



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

While LuxaLight has made every reasonable effort to ensure the accuracy of the information in this brochure, LuxaLight does not guarantee that it is error-free, nor does LuxaLight make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. LuxaLight reserves the right to make any adjustments to the information contained herein at any time without notice. LuxaLight expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalogue are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult LuxaLight for the latest dimensions and design specifications.