

Datasheet

LED engine specification

Product type:
LE-24-525-108X2835PLX

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

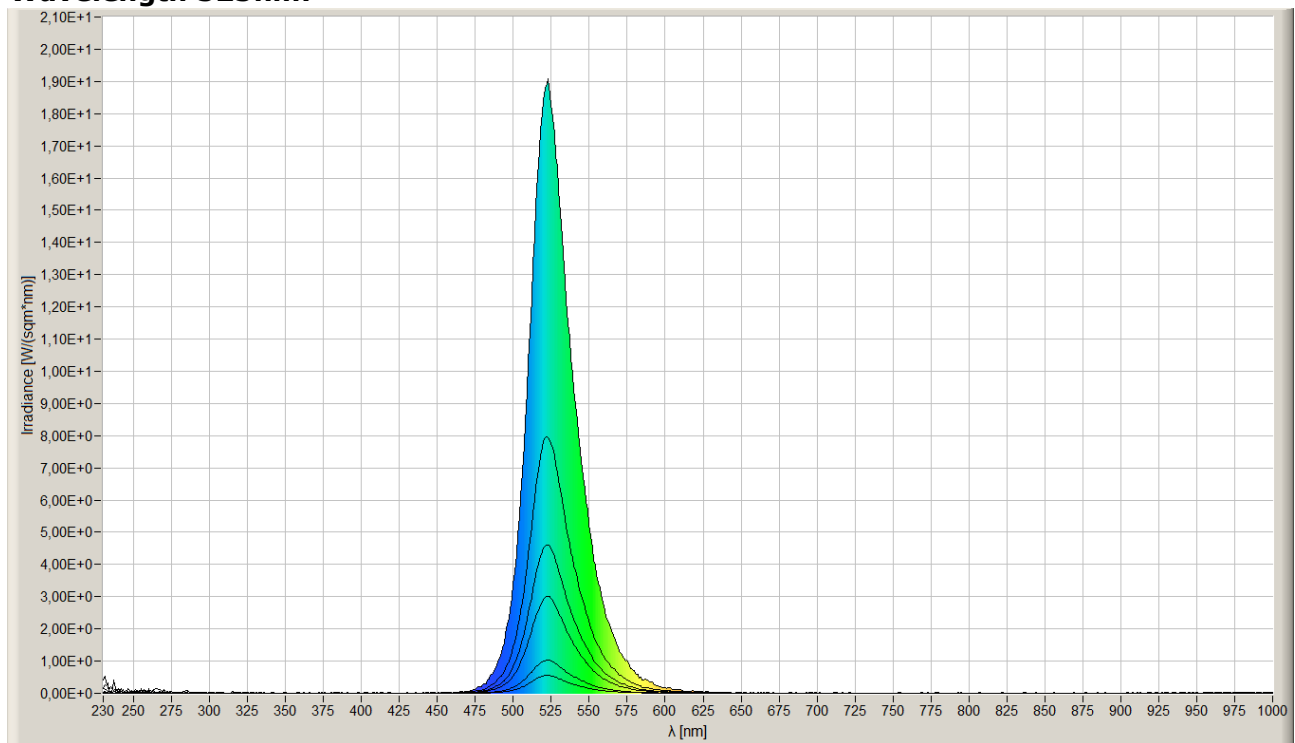


Date:
18-12-2023

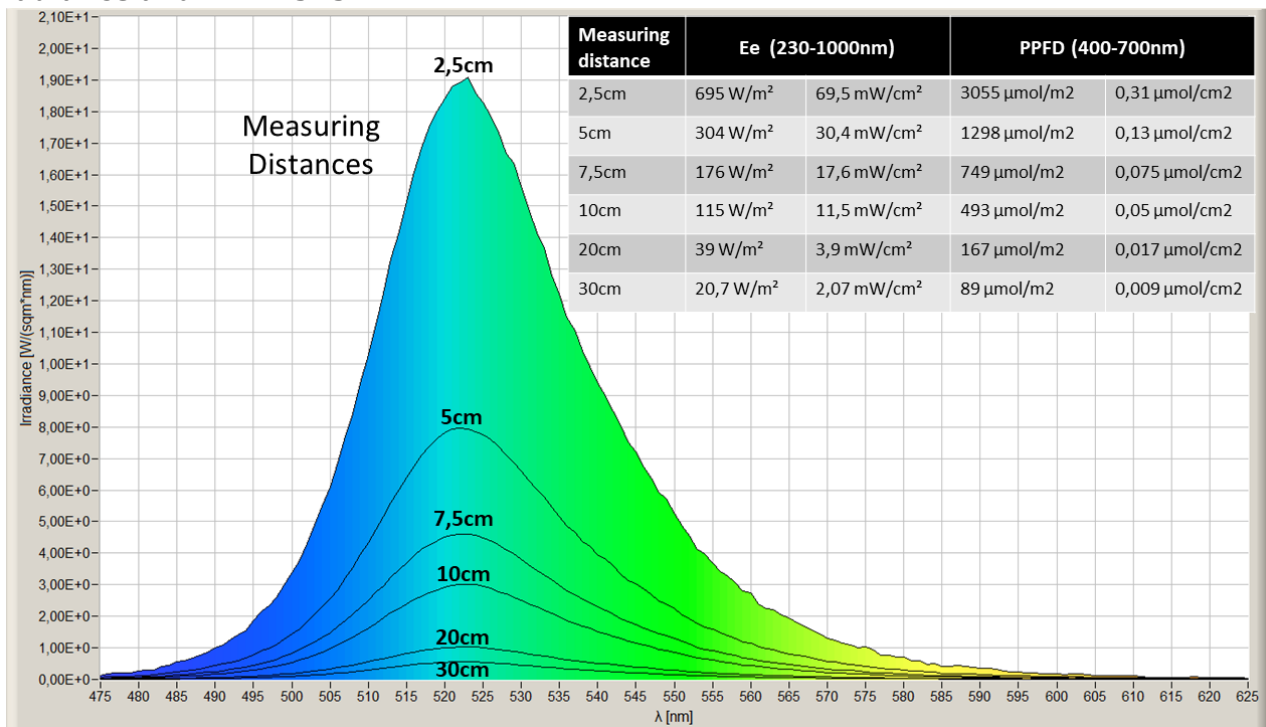
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Technical Specifications					
LE-24-525-108X2835PLX					
General	LED Type	2835 SMD			
	LED Quantity	108 LEDs / Engine			
	Dimensions	200 * 20 * 2 (L x B x H)			
	Weight	22g / Engine			
	Mounting	3M tape VHB4905			
Environment	Working Temperature	-20°C ~ +70°C			
	Storing Temperature	-20°C ~ +70°C			
	IP Grade	IP64			
	Mechanical Protection	Silicone Nano Coating			
Electronic	Working Voltage	DC24V			
	Working Current	1,25 A / Engine			
	Working Wattage	30 W / Engine			
	Driving Method	Constant Voltage			
	NTC Resistance	5Kohm			
	NTC Beta	3950			
Lighting	Engine Wavelength (nm)	525nm Green			
	Voltage at measurement	24V	29V	34V	
	Current at measurement	1,25 A	1,9 A	2,65A	
	Wattage at measurement	30 W	55,1 W	90,1 W	
	Peak Measured Wavelength (5cm)	525nm			
	Peak Measured Radiance per distance (cm) (1 LED Engine)	2,5	19,1 W/m ²	27 W/m ²	32 W/m ²
		5	7,9 W/m ²	11 W/m ²	13 W/m ²
		7,5	4,6 W/m ²	6,4 W/m ²	7,3 W/m ²
		10	3 W/m ²	4,2 W/m ²	4,8 W/m ²
		20	1 W/m ²	1,4 W/m ²	1,6 W/m ²
		30	0,6 W/m ²	0,8 W/m ²	1 W/m ²
	Total Radiance per distance 230nm - 1000nm (cm) (1 LED Engine)	2,5	695 W/m ²	944 W/m ²	1173 W/m ²
		5	304 W/m ²	413 W/m ²	513 W/m ²
		7,5	176 W/m ²	239 W/m ²	297 W/m ²
		10	115 W/m ²	156 W/m ²	194 W/m ²
		30	20,7 W/m ²	28 W/m ²	35 W/m ²
	Total PPFD μmol/m ² (PAR 400-700nm) (1 LED Engine)	2,5	3055 μmol/m ²	4206 μmol/m ²	5209 μmol/m ²
		5	1298 μmol/m ²	1787 μmol/m ²	2213 μmol/m ²
		7,5	749 μmol/m ²	1031 μmol/m ²	1277 μmol/m ²
		10	493 μmol/m ²	679 μmol/m ²	841 μmol/m ²
		30	167 μmol/m ²	230 μmol/m ²	285 μmol/m ²
	Illuminance (Lux) at (1 LED Engine)	2,5	356,4 klx	494 klx	603 klx
		5	150,9 klx	204 klx	249 klx
7,5		87,1 klx	118 klx	144 klx	
10		57,3 klx	77,7 klx	95 klx	
30		19,4 klx	26,3 klx	32 klx	
Viewing Angle (θ)	120 ±5°				
Keep the LED Engine within operating temperatures, for more information about heat management, read the 'LuxaLight modular LED Fixtures infosheet'					

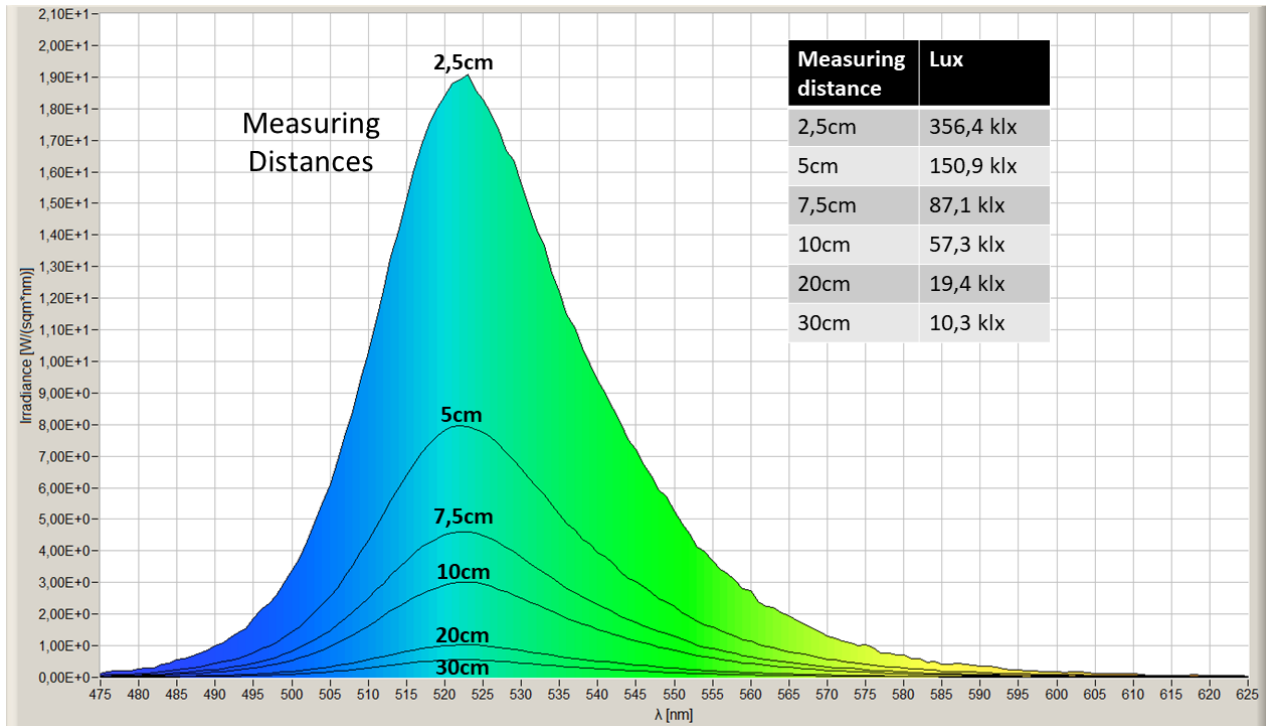
Wavelength 525nm:



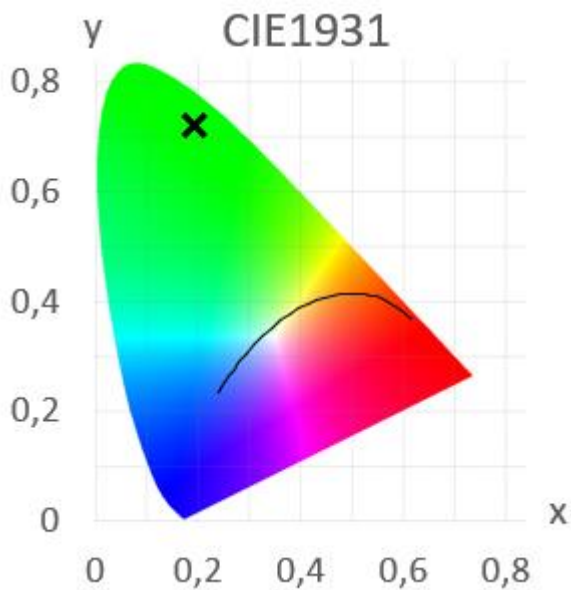
Radiance and PPFD 525nm:



Lux at 525nm:



CIE1931:



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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