

Datasheet

LED engine specification

Product type:
LE-24-405-108X2835PLX

Description:
LuxaLight LED Engine UV-A 405nm Protected (24 Volt, 108 LEDs, 2835, IP64)

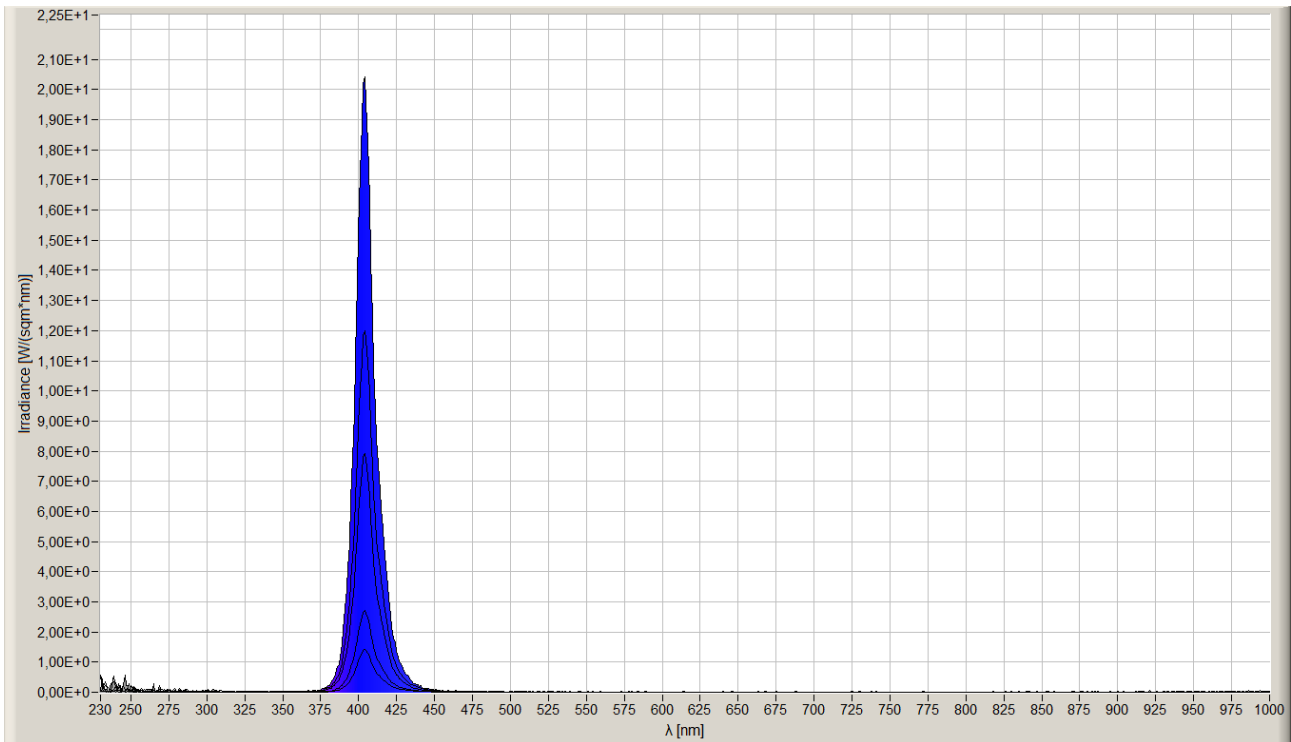


Date:
20-11-2023

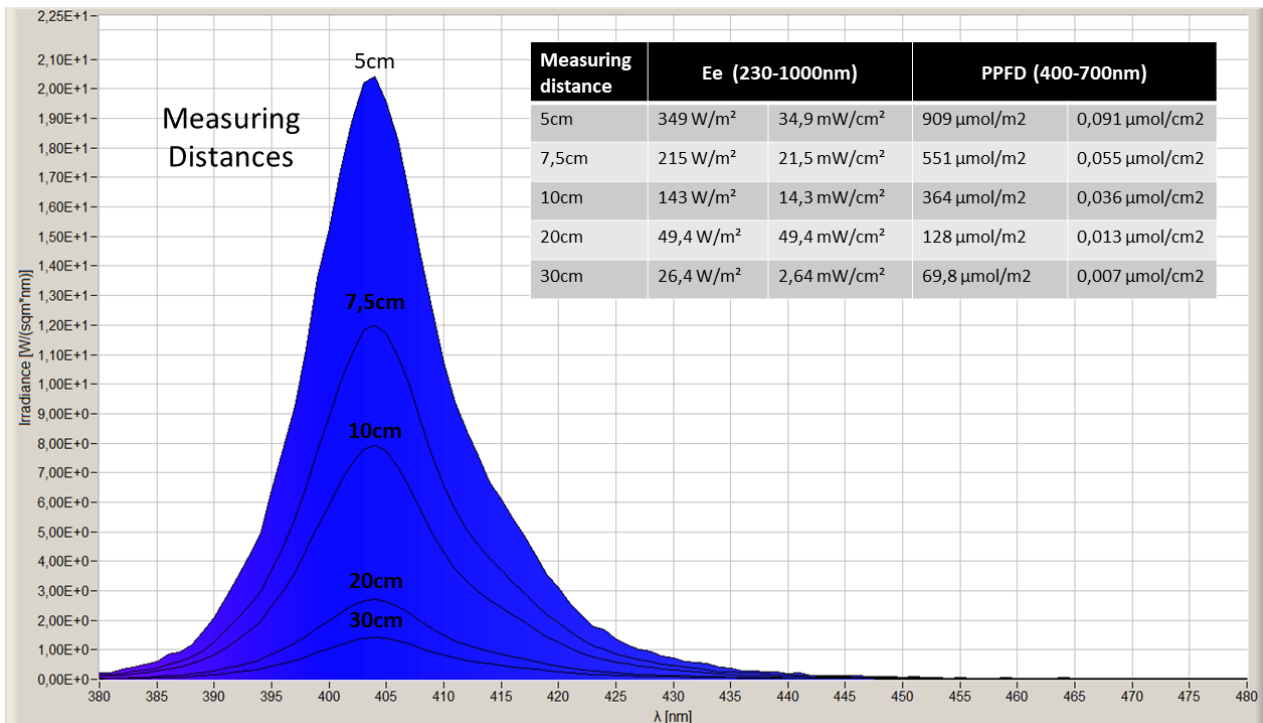
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Technical Specifications				
LE-24-405-108X2835PLX				
General	LED Type	2835 SMD		
	LED Quantity	108 LEDs / Engine		
	Dimensions	200 * 20 * 2 (L x B x H)		
	Weight	22g / Engine		
	Mounting	3M tape VHB4905		
Environment	Working Temperature	-20°C ~ +70°C		
	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	Voltage at measurement	24VDC	27,7VDC	
	Current at measurement	1,25 A	2,25 A	
	Wattage at measurement	30 W	62,3 W	
	Engine Wavelength (nm)	405nm UV-A		
	Peak Measured Wavelength (5cm)	404nm		
	Peak Measured Radiance per distance (cm) (1 LED Engine)	5	20,4 W/m ²	44,5 W/m ²
		7,5	12 W/m ²	26,1 W/m ²
		10	7,9 W/m ²	14,9 W/m ²
		20	2,7 W/m ²	4,8 W/m ²
		30	1,4 W/m ²	2,6 W/m ²
	Total Radiance per distance 230nm - 1000nm (cm) (1 LED Engine)	5	349 W/m ²	732 W/m ²
		7,5	215 W/m ²	451 W/m ²
		10	143 W/m ²	271 W/m ²
		20	49,4 W/m ²	88,4 W/m ²
		30	26,4 W/m ²	49,6 W/m ²
	Total PPFD μmol/m ² (PAR 400-700nm) (1 LED Engine)	5	909 μmol/m ²	1905 μmol/m ²
		7,5	551 μmol/m ²	1155 μmol/m ²
10		364 μmol/m ²	691 μmol/m ²	
20		128 μmol/m ²	229 μmol/m ²	
30		69,8 μmol/m ²	131 μmol/m ²	
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 UV-A 405nm:



Radiance UV-A 405nm:



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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