

## Datasheet

LED engine specification

Product type:  
**LE-24-365-108X2835PLX**

Description:  
**LuxaLight LED Engine UV-A 365nm Protected (24 Volt, 108 LEDs, 2835, IP64)**

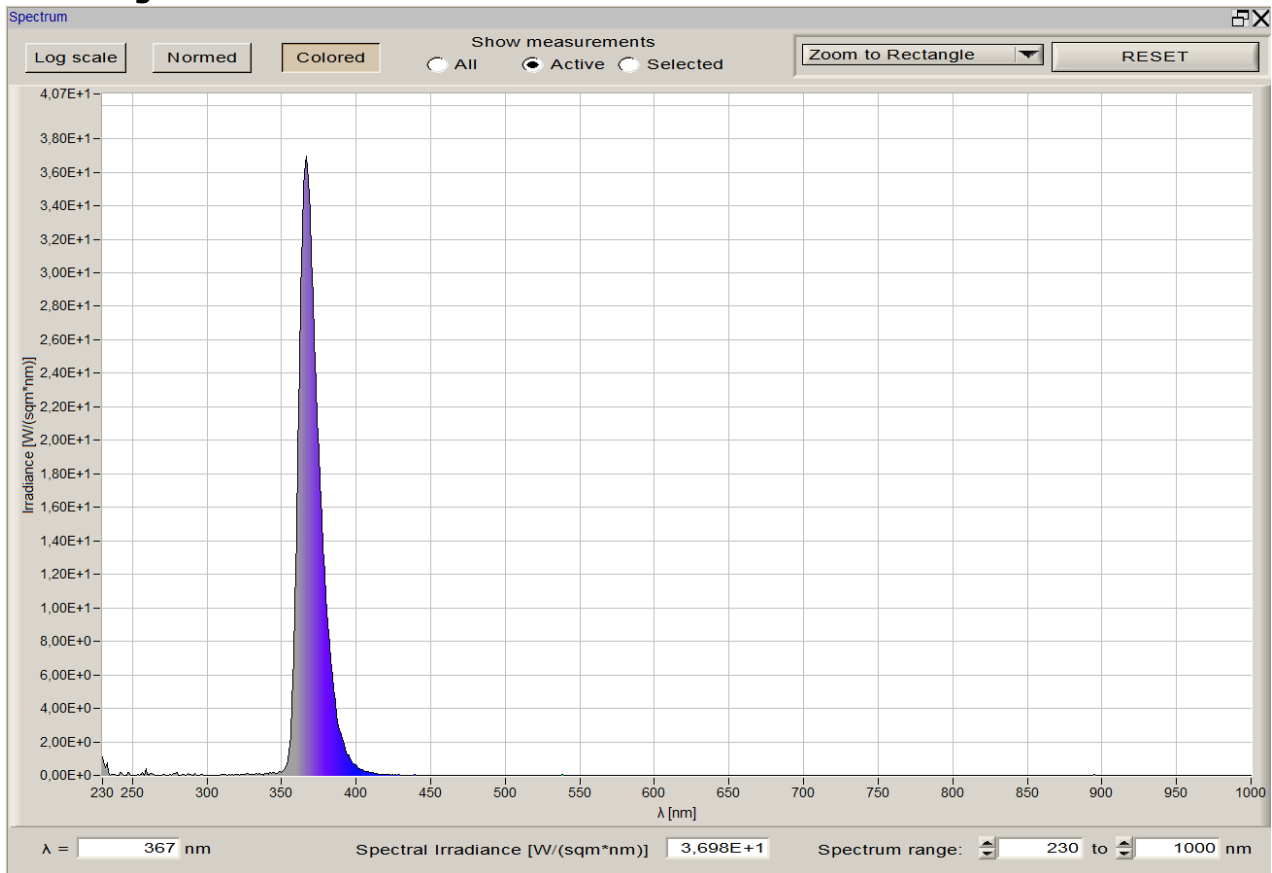


Date:  
19-02-2024

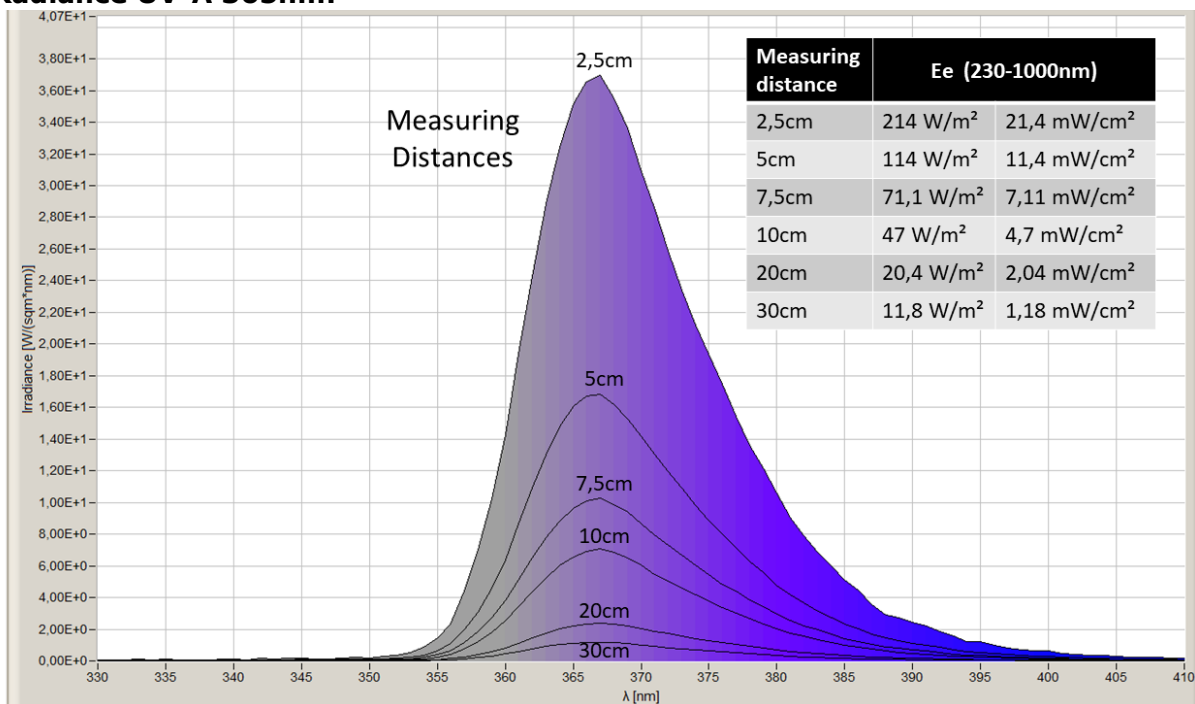
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Technical Specifications						
LE-24-365-108X2835PLX						
General	LED Type	2835 SMD				
	LED Quantity	108 LEDs / Engine				
	Dimensions	200 * 20 * 2 ( L x B x H )				
	Weight	22g / Engine				
	Mounting	3M tape VHB4905				
Environment	Working Temperature	-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)	365nm UV-A				
	Peak Measured Wavelength (5cm)	367nm				
	Peak Measured Radiance per distance (cm) (1 LED Engine)	2,5	370 mJ/cm <sup>2</sup>	37 W/m <sup>2</sup>	806 mJ/cm <sup>2</sup>	80,6 W/m <sup>2</sup>
		5	168 mJ/cm <sup>2</sup>	16,8 W/m <sup>2</sup>	366 mJ/cm <sup>2</sup>	36,6 W/m <sup>2</sup>
		7,5	103 mJ/cm <sup>2</sup>	10,3 W/m <sup>2</sup>	224 mJ/cm <sup>2</sup>	22,4 W/m <sup>2</sup>
		10	71 mJ/cm <sup>2</sup>	7,1 W/m <sup>2</sup>	134 mJ/cm <sup>2</sup>	13,4 W/m <sup>2</sup>
		20	24 mJ/cm <sup>2</sup>	2,4 W/m <sup>2</sup>	43 mJ/cm <sup>2</sup>	4,3 W/m <sup>2</sup>
		30	12 mJ/cm <sup>2</sup>	1,2 W/m <sup>2</sup>	22 mJ/cm <sup>2</sup>	2,2 W/m <sup>2</sup>
	Total Radiance per distance 230nm - 1000nm (cm) (1 LED Engine)	2,5	6100 mJ/cm <sup>2</sup>	610 W/m <sup>2</sup>	12780 mJ/cm <sup>2</sup>	1278 W/m <sup>2</sup>
		5	2870 mJ/cm <sup>2</sup>	287 W/m <sup>2</sup>	6016 mJ/cm <sup>2</sup>	601,6 W/m <sup>2</sup>
		7,5	1770 mJ/cm <sup>2</sup>	177 W/m <sup>2</sup>	3710 mJ/cm <sup>2</sup>	371 W/m <sup>2</sup>
10		1170 mJ/cm <sup>2</sup>	117 W/m <sup>2</sup>	2220 mJ/cm <sup>2</sup>	222 W/m <sup>2</sup>	
20		400 mJ/cm <sup>2</sup>	40 W/m <sup>2</sup>	716 mJ/cm <sup>2</sup>	71,6 W/m <sup>2</sup>	
30		1970 mJ/cm <sup>2</sup>	19,7 W/m <sup>2</sup>	370 mJ/cm <sup>2</sup>	37 W/m <sup>2</sup>	
Viewing Angle (θ)		120 ±5°				
*in combination with the MaNima Pollux Industry, higher performances can be reached						

## Wavelength UV-A 365nm:



## Radiance UV-A 365nm:



**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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