

Datasheet

LED engine specification

Product type:

LP-48-365-300-500x500-2835

Description:

**LuxaLight Aluminium LED Panel UV-A 365nm 300W 500 x 500mm Nano
Waterproof (48V, 2835, IP64)**

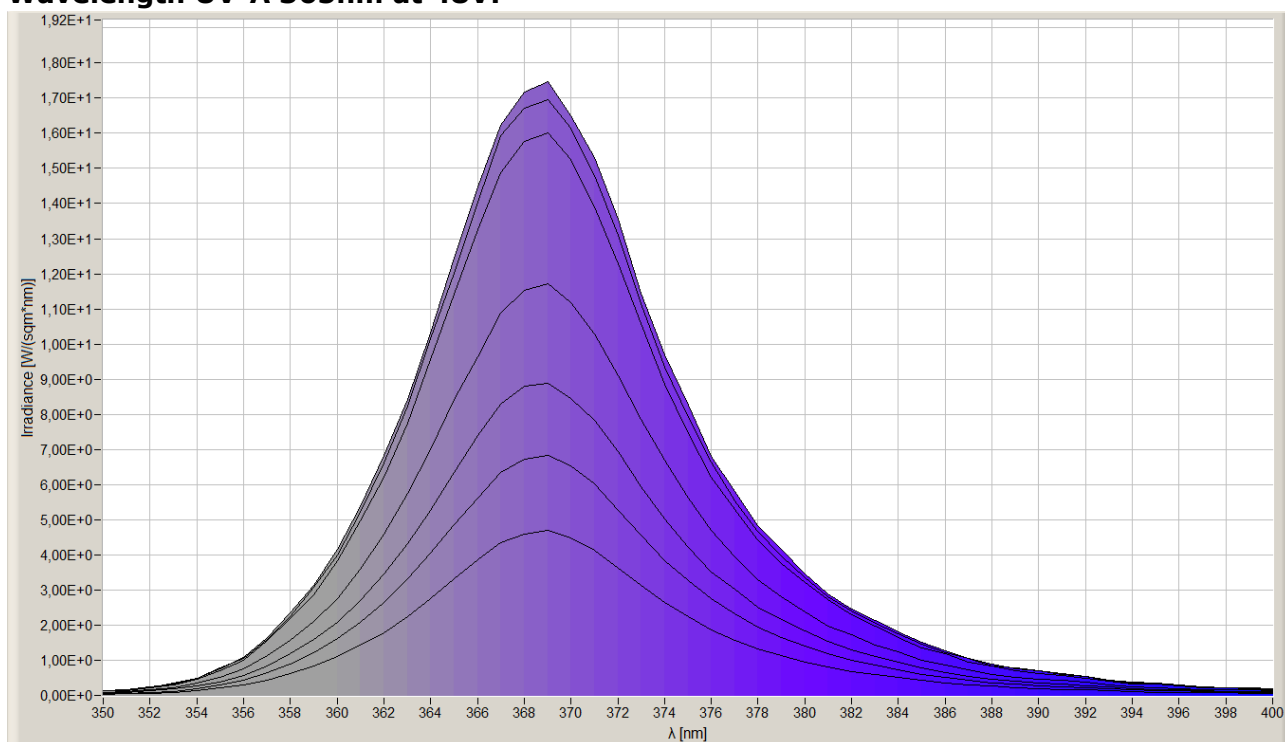


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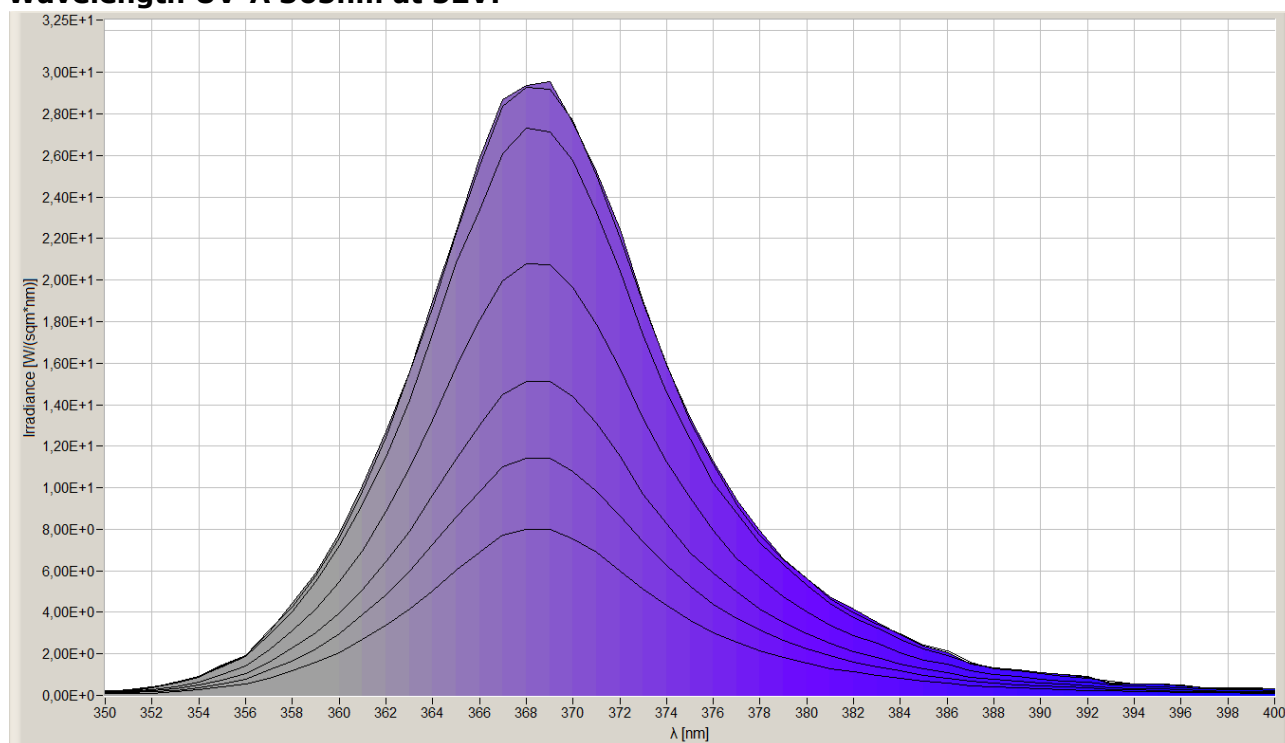
22-05-2023

Technical Specifications				
LP-48-365-300-500x500-2835		48V	52V	54V
General	LED Type		2835 SMD	
	LED Quantity		1820 LEDs	
	Dimensions		500 * 500 * 5mm	
	Weight		3,4kg	
	Mounting		4 x Ø6mm hole for mounting	
Environment	Working Temperature		-20°C ~ +70°C	
	Storing Temperature		-20°C ~ +70°C	
	IP Grade		IP64	
	Mechanical Protection		Nano Silicone layer	
Electronic	Working Voltage		48V	52V
	Working Current		4,9A	8,29A
	Working Wattage		221,76W	431,1W
	Cable type		2 x 1,5mm² Black	
	Driving Method		Constant Voltage	
	NTC Resistance		10Kohm	
	NTC Beta		3950	
Lighting	Engine Wavelength (nm)		365nm UV-A	
	Peak Measured Wavelength (5cm)		369nm	369nm
	Peak Measured Radiance per distance (cm)	5	17,5 W/m²	29,6 W/m²
		7,5	17 W/m²	29,2 W/m²
		10	16 W/m²	27,1 W/m²
		20	11,7 W/m²	20,8 W/m²
		30	8,9 W/m²	15,1 W/m²
		40	6,8 W/m²	11,4 W/m²
		60	4,7 W/m²	8 W/m²
	Total Radiance per distance 230nm - 1000nm (cm)	5	261,8 W/m²	437,3 W/m²
		7,5	254,9 W/m²	433,5 W/m²
		10	239,4 W/m²	417,2 W/m²
		20	178,1 W/m²	323,9 W/m²
		30	134,9 W/m²	235,3 W/m²
		40	103,9 W/m²	181,4 W/m²
		60	72,9 W/m²	130,2 W/m²
	Viewing Angle (θ)		120 ±5°	

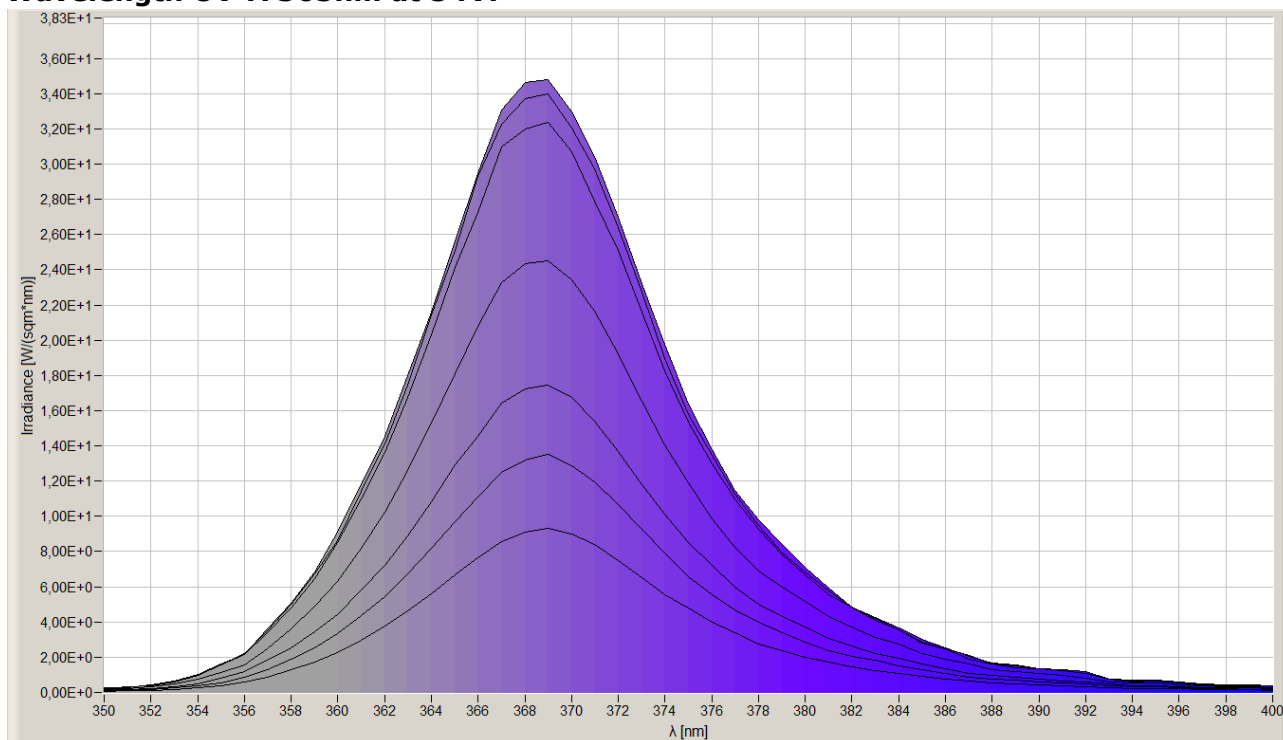
Wavelength UV-A 365nm at 48V:



Wavelength UV-A 365nm at 52V:



Wavelength UV-A 365nm at 54V:



The Materials of PCB:

5mm 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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