

Datasheet

LED engine specification

Product type:
LF-24-300-26.6X23.5-QG

Description:
**LuxaLight Industrial LED Fixture Quartz Glass UV-B 300nm 3535 60° 26,6 x
23,5mm
(24 Volt, 3535, IP64)**



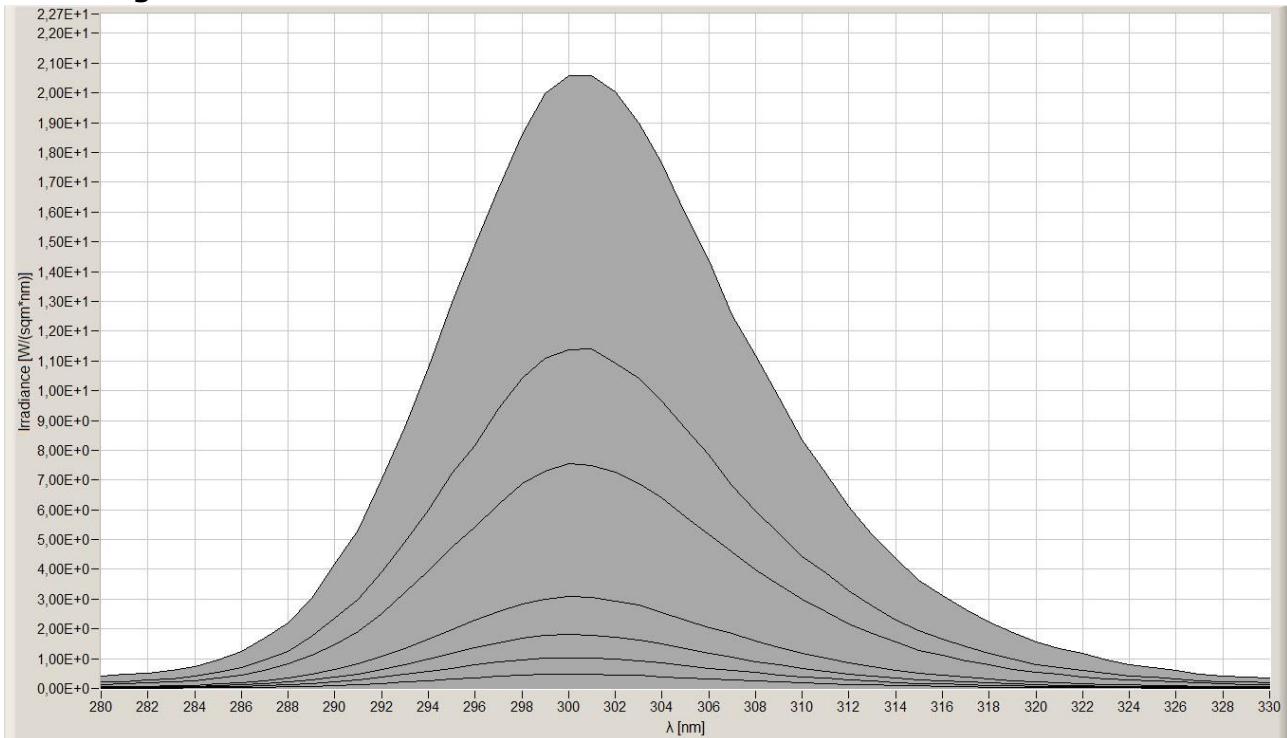
Date:
29-12-2023

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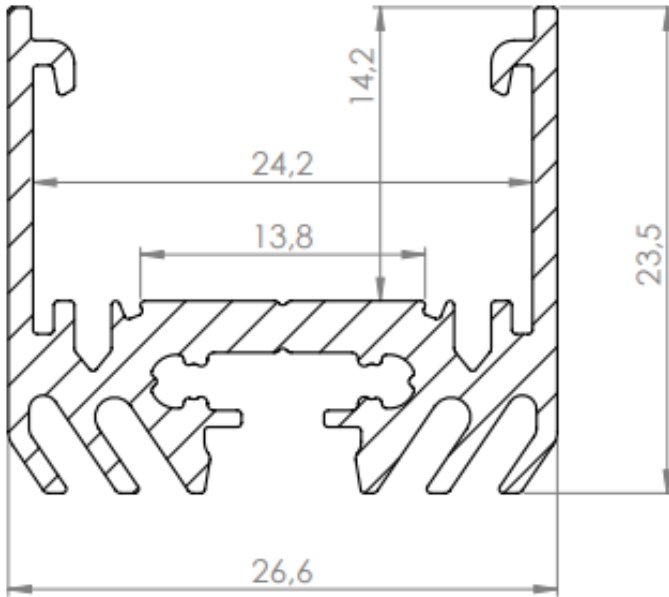
Technical Specifications						
LF-24-300-26.6x23.5-QG			Quartz Glass QG			
General	LED Type	3535 SMD				
	LED Quantity	57 LEDs / Engine				
	Dimensions	220mm - 3000mm * 26.6mm * 23.5mm (L * B * H)				
	Weight	Variable, depending on moulding and length				
	Infosheet	LuxaLight Industrial LED Fixtures infopage				
Environment	Working Temperature	-5°C ~ +60°C				
	Storing Temperature	-5°C ~ +60°C				
	IP Grade	IP64				
	Mechanical Protection	1,5mm thick Quartz Glass				
	Housing material	Anodized aluminium				
	Moulding Resin	N.A.				
Electronic	Working Voltage	DC24V				
	Working Current	2,3 A / Engine				
	Working Wattage	55,2 W / Engine				
	LED Engine type	LuxaLight LED Engine UV-C 300nm 3535 60°				
	Driving Method	Constant Voltage				
	Cable type	PUR Cable 4x 0.5mm² Gray LuxaLight				
	NTC Resistance	5KOhm				
	NTC Beta	3950				
Lighting	Voltage at measurement	18.1V	24VDC			
	Current at measurement	0,78 A	2,3 A			
	Wattage at measurement	14,1 W	50,2 W			
	Engine Wavelength (nm)	300nm UV-B				
	Peak Measured Wavelength (5cm)	300nm				
	Peak Measured Radiance per distance (cm) (1 LED Engine)	5	92 mJ/cm²	9,2 W/m²	220 mJ/cm²	22 W/m²
		7,5	46 mJ/cm²	4,6 W/m²	110 mJ/cm²	11 W/m²
		10	32 mJ/cm²	3,2 W/m²	76 mJ/cm²	7,6 W/m²
		20	13 mJ/cm²	1,3 W/m²	31 mJ/cm²	3,1 W/m²
		30	8 mJ/cm²	0,8 W/m²	18 mJ/cm²	1,8 W/m²
		40	4 mJ/cm²	0,4 W/m²	10 mJ/cm²	1 W/m²
		60	2 mJ/cm²	0,2 W/m²	5 mJ/cm²	0,5 W/m²
	Total Radiance per distance 230nm - 1000nm (cm) (1 LED Engine)	5	1430 mJ/cm²	143 W/m²	3610 mJ/cm²	361 W/m²
		7,5	790 mJ/cm²	79 W/m²	2000 mJ/cm²	200 W/m²
		10	520 mJ/cm²	52 W/m²	1310 mJ/cm²	131 W/m²
		20	210 mJ/cm²	21 W/m²	530 mJ/cm²	53 W/m²
		30	120 mJ/cm²	12 W/m²	310 mJ/cm²	31 W/m²
40		70 mJ/cm²	7 W/m²	180 mJ/cm²	18 W/m²	
60		32 mJ/cm²	3,2 W/m²	83 mJ/cm²	8,3 W/m²	
Output Reduction Approx. Due to cover	0% - 5%					
Viewing Angle (θ)	60 ±5°					
<i>Keep the LED Fixture within operating temperatures, for more information about heat management, read the 'Luxalight modular LED Fixtures infosheet'.</i>						

Additional Benefits of LuxaLight Industrial LED Fixtures	
Benefits of LED Fixture	Multiple wavelengths in one housing
	No optics required due to high output
	Custom cable output and/or connector
	Wide range of mounting options
	In-house expertise to personally advice LED fixture customization
	*By using the pulse mode in combination with real-time monitoring extremely high output
	*Different wavelengths in one fixture that can be controlled/pulsed separately

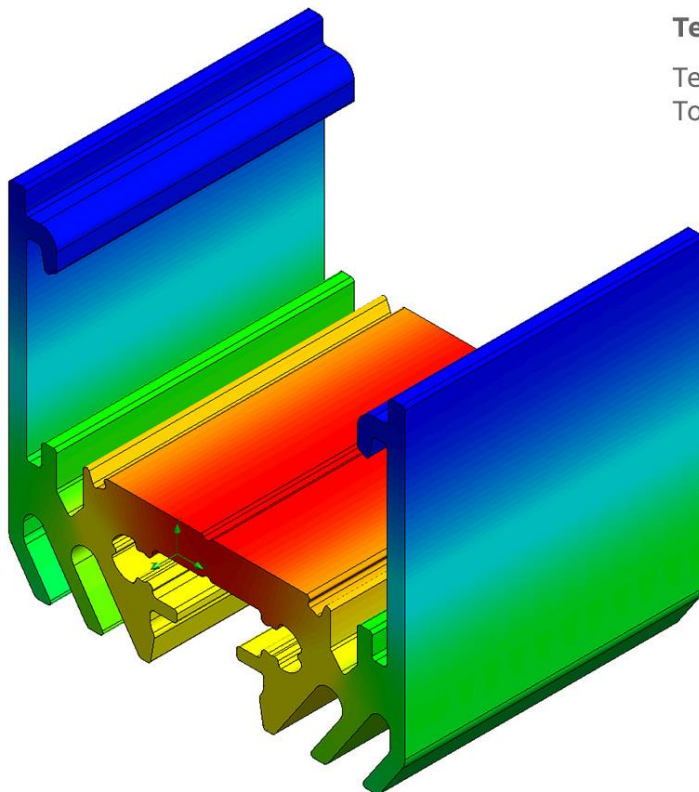
Wavelength UV-B 300nm at 24V:



Dimensions



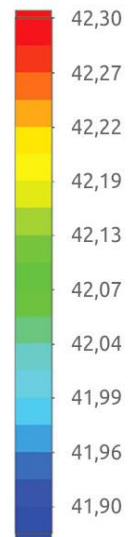
Temperature Distribution



Temperature (Solid) [°C]

Temperature ambient: 25°C

Total power: 21,6 W/m



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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