

Datasheet

LED engine specification

Product type:
BL-24-6500-540-400X200-PU

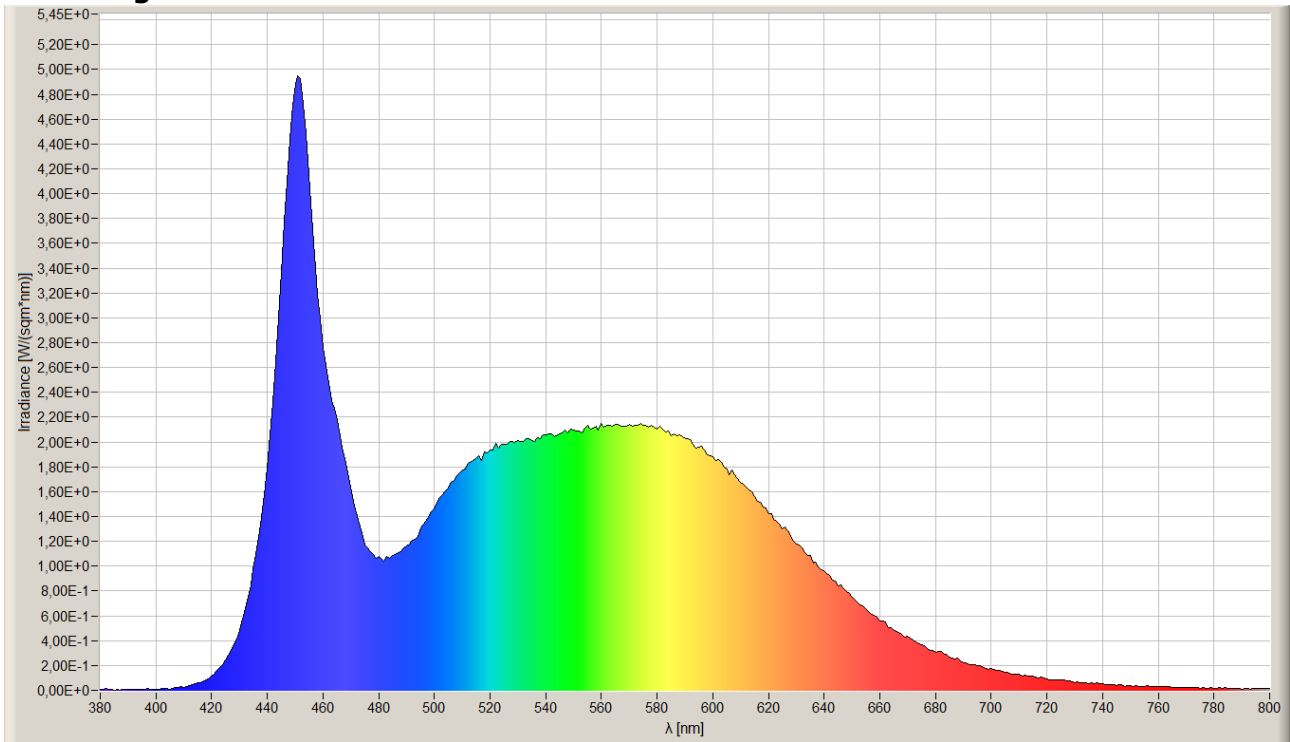
Description:
Luxalight Back Light 6500K 400 x 200mm Transparent IP68



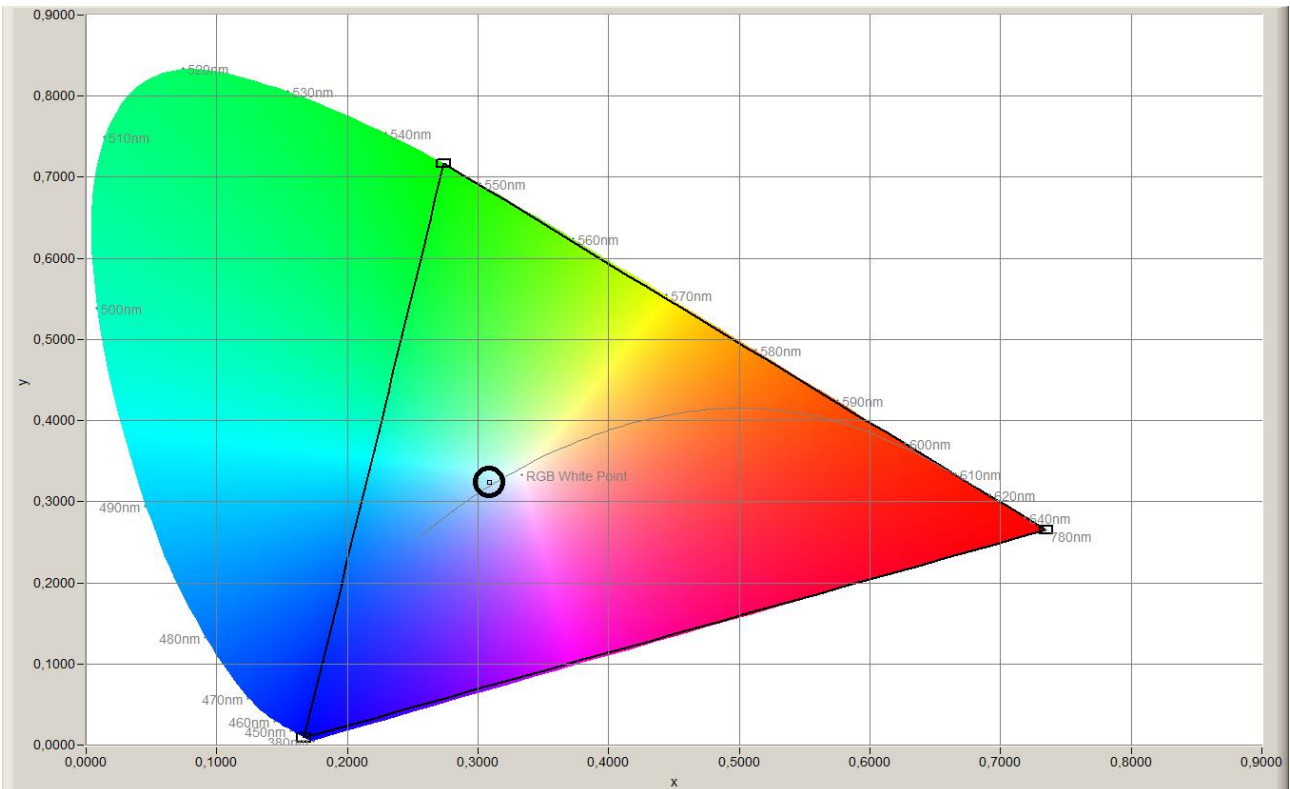
Date:
29-06-2023

Technical Specificaties							
BL-24-6500-540-400X200-PU							
General	LED Type	2835 SMD					
	LED Quantity	540 LEDs					
	Dimensions	400 * 200 * 7 (L x B x H)					
	Weight	935g					
Environment	Working Temperature	-20°C ~ +70°C					
	Storing Temperature	-20°C ~ +70°C					
	IP Grade	IP68					
	Mechanical Protection	IK10					
Electronic	Working Voltage	DC24V					
	Working Current	1,8 A					
	Working Wattage	43,2 W / Engine					
	Driving Method	Constant Voltage					
	NTC Resistance	5Kohm					
	NTC Beta	3950					
Lighting	Engine Colour temperature (k)	6400K ~ 6800K White					
	CRI	≥ 95 Ra					
	BIN	3 SDCM					
	Peak Measured Colour temp. (30cm)	6652k					
	Total Radiance per distance 230nm - 1000nm (cm)	5	443 W/m ²				
		7,5	348 W/m ²				
		10	282,1 W/m ²				
		20	138,3 W/m ²				
		30	83,15 W/m ²				
		40	51,79 W/m ²				
		60	41,05 W/m ²				
	Total PPFD μmol/m ² (PAR 400-700nm)	5	1934 μmol/m ²				
		7,5	1524 μmol/m ²				
		10	1232 μmol/m ²				
		20	604 μmol/m ²				
		30	365 μmol/m ²				
		40	227 μmol/m ²				
		60	180 μmol/m ²				
	Illuminance (Lux) at	5	138 klx				
		7,5	108 klx				
		10	87 klx				
		20	42 klx				
		30	26 klx				
40		16 klx					
60		12,7 klx					
Wavelength Range		301 - 400nm	401 - 500nm	501 - 600nm	601 - 700nm	701 - 800nm	
μmol/m ² PPFD at	5	2,7 μmol/m ²	564 μmol/m ²	922 μmol/m ²	449 μmol/m ²	33 μmol/m ²	
	7,5	1,5 μmol/m ²	450 μmol/m ²	722 μmol/m ²	352 μmol/m ²	25 μmol/m ²	
	10,0	1,7 μmol/m ²	367 μmol/m ²	582 μmol/m ²	284 μmol/m ²	21 μmol/m ²	
	20	0,8 μmol/m ²	183 μmol/m ²	284 μmol/m ²	137 μmol/m ²	10 μmol/m ²	
	30	0,4 μmol/m ²	111 μmol/m ²	171 μmol/m ²	83 μmol/m ²	5,9 μmol/m ²	
	40	0,2 μmol/m ²	69 μmol/m ²	107 μmol/m ²	51 μmol/m ²	3,6 μmol/m ²	
	60	0,1 μmol/m ²	55 μmol/m ²	85 μmol/m ²	40 μmol/m ²	2,8 μmol/m ²	
Viewing Angle (θ)		120 ±5°					

Wavelength White BL-24-6500-540-400X200-PU:



CIE of BL-24-6500-540-400X200-PU:



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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