

Datasheet

LED-strip specification

LED-strip type:
LS24RGBWW96X5050WLX

Description:
**LuxaLight LED-strip 24V Full Color + Warm White Waterproof 5050
(24 Volt, 96 LEDs, 5050, IP68)**

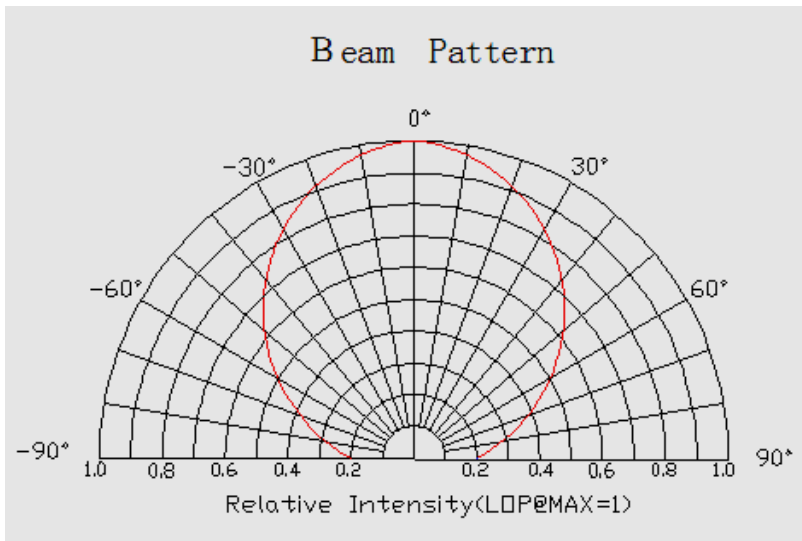


Date:
12-06-2023

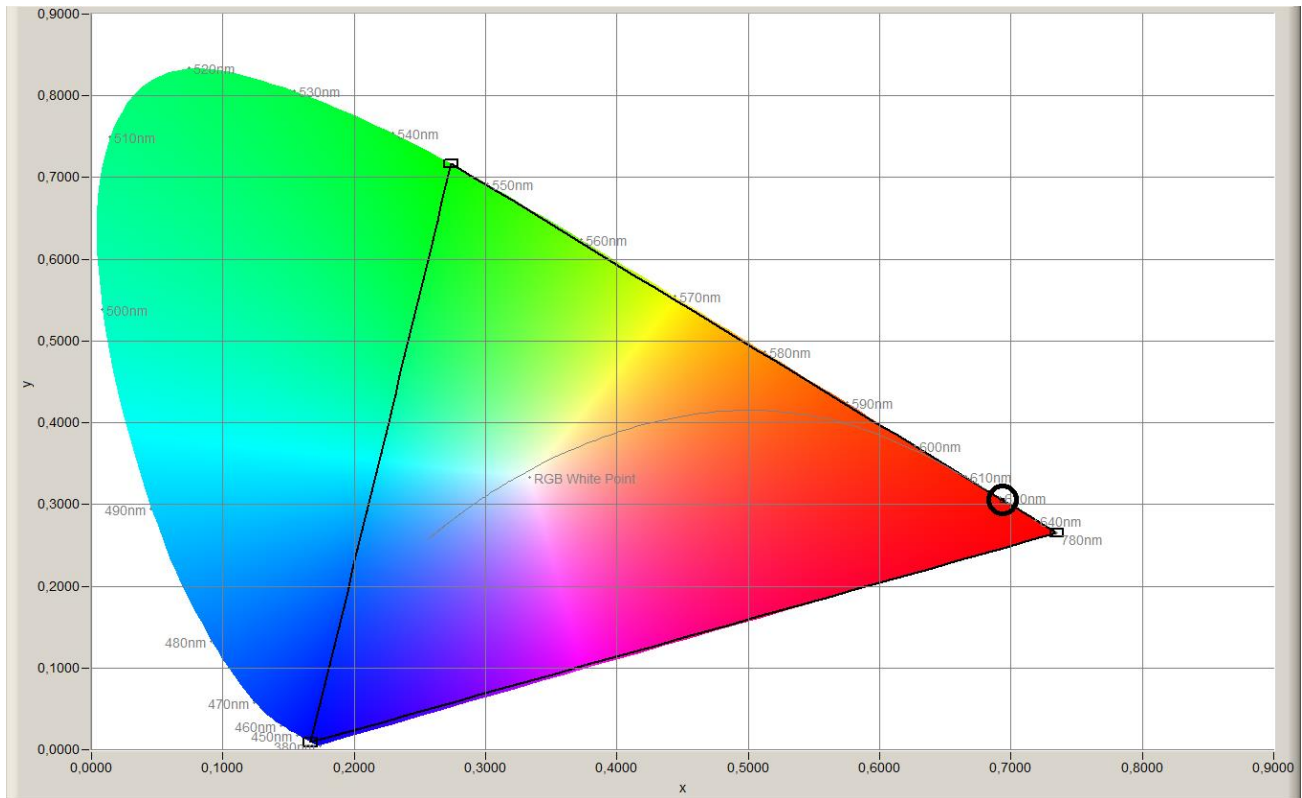
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Technical Specifications						
LS24RGBWW96X5050WLX						
Mechanical	LED Type		SMD5050			
	LED Quantity		96 LEDs / m			
	Length per segment		62,5 mm			
	LEDs / segment		6 LEDs			
	Length on single reel		10 m			
	Dimensions		10000 x 15 x 5 (L x B x H)			
	Weight		80g ~ 95g / m			
	Mounting		3M Tape VHB4905			
	Protection grade		IP68			
	PCB Material		Copper			
Electronic	Working Voltage		DC24V			
	Working Current		1,28 A			
	Working Wattage		30,72 Watt / m			
	Driving Method		Constant Voltage			
	Wires		UL1007 20# 150mm			
Environment	Working Temperature		-20°C ~ +70°C			
	Storing Temperature		-20°C ~ +70°C			
	Lifespan		70.000 Hours			
	LB Value		LB80B50			
	Warranty		5 Years			
Lighting	Colour channels		Red	Green	Blue	Warm White
	Lumen / meter		320 lm	464 lm	296 lm	781 lm
	Wavelength (nm) / Colour Temp. (K)		630 nm	515 nm	460nm	2900K
	BIN		3 SDCM			
	CRI		≥ 85 Ra			
	Viewing Angle		120 ±5°			
Pin-out	Wire colour	Symbol	Function description			
	Red	R	Red			
	Green	G	Green			
	Blue	B	Blue			
	White	W	Warm White			
	Black	+24V	24V Logic Power Supply			

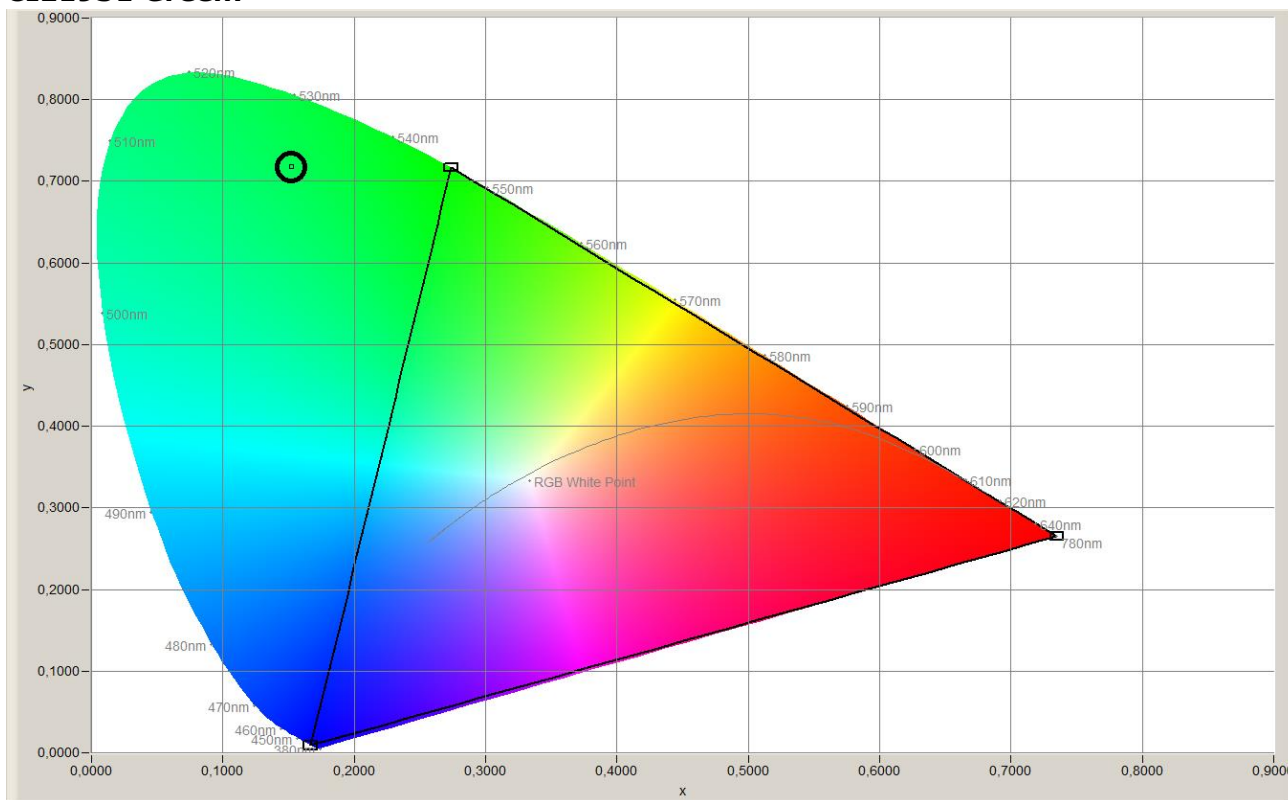
Optical Characteristics Curve:



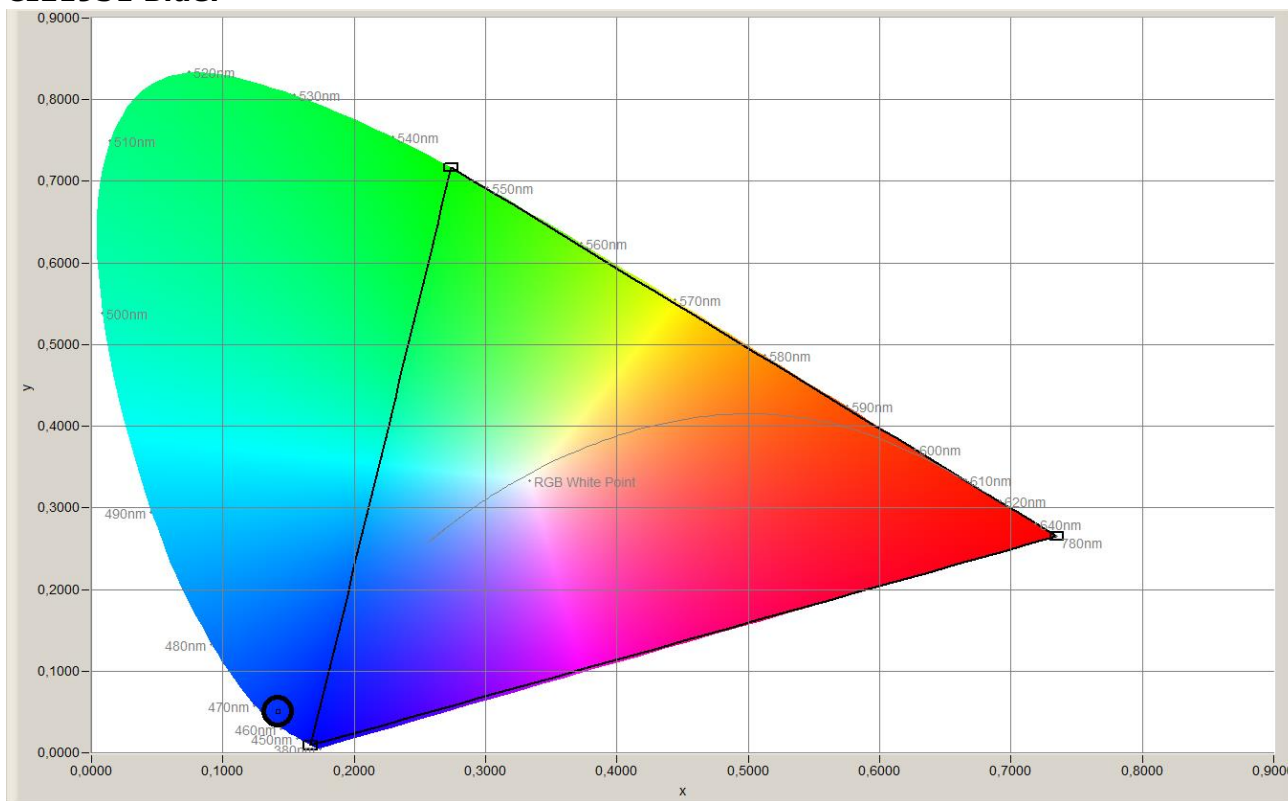
CIE1931 Red:



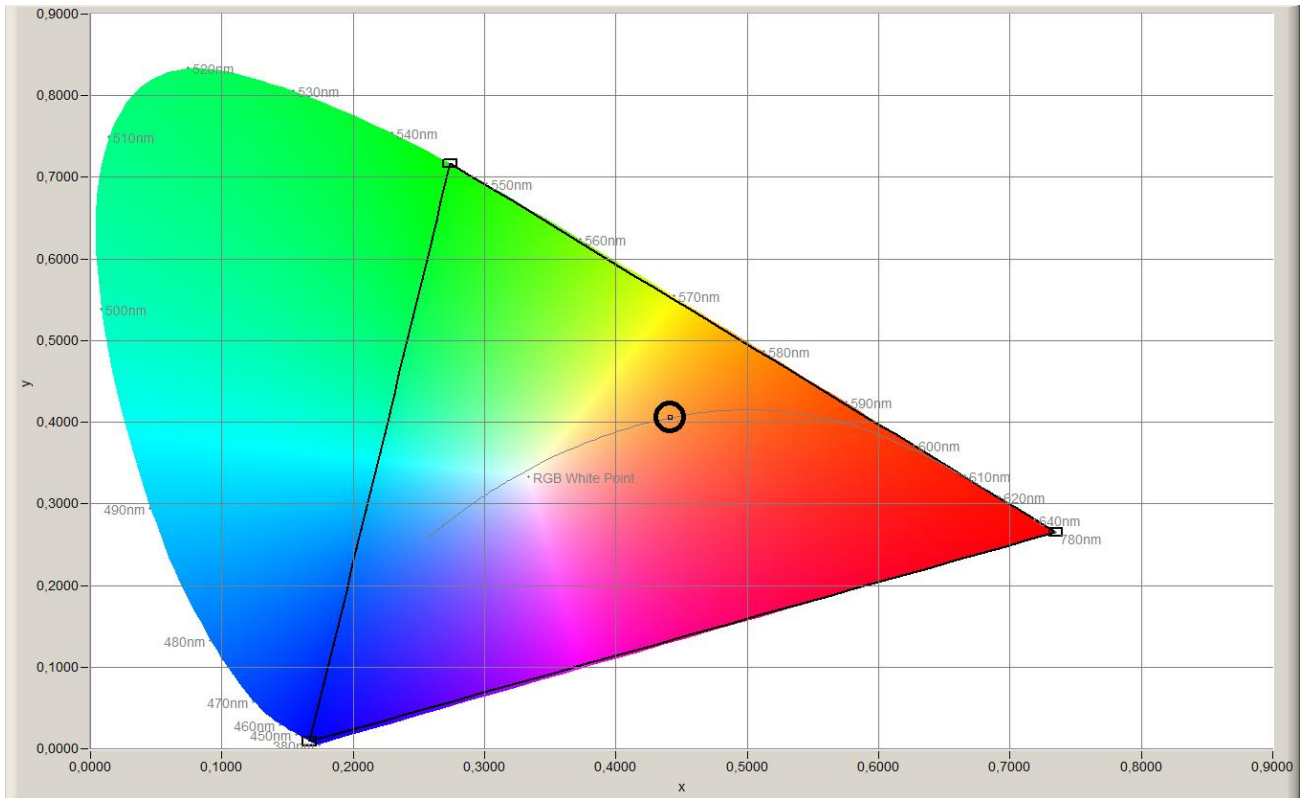
CIE1931 Green:



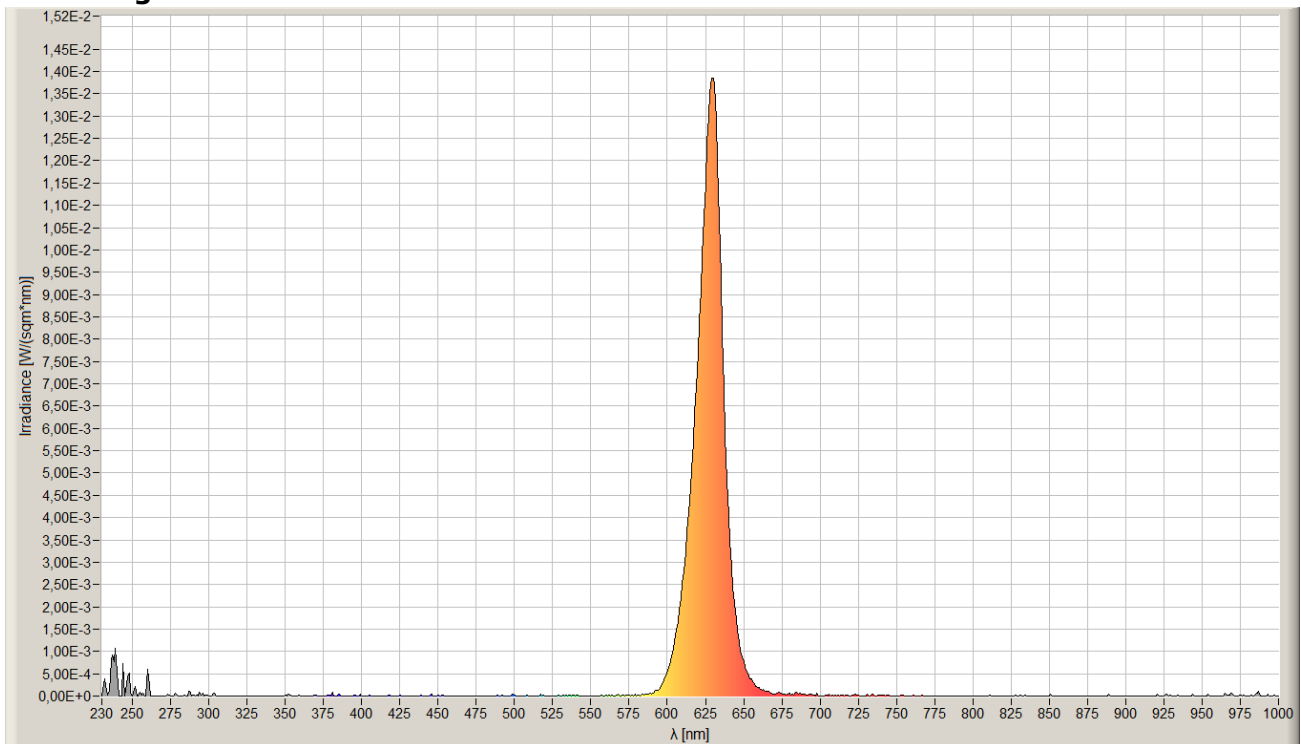
CIE1931 Blue:



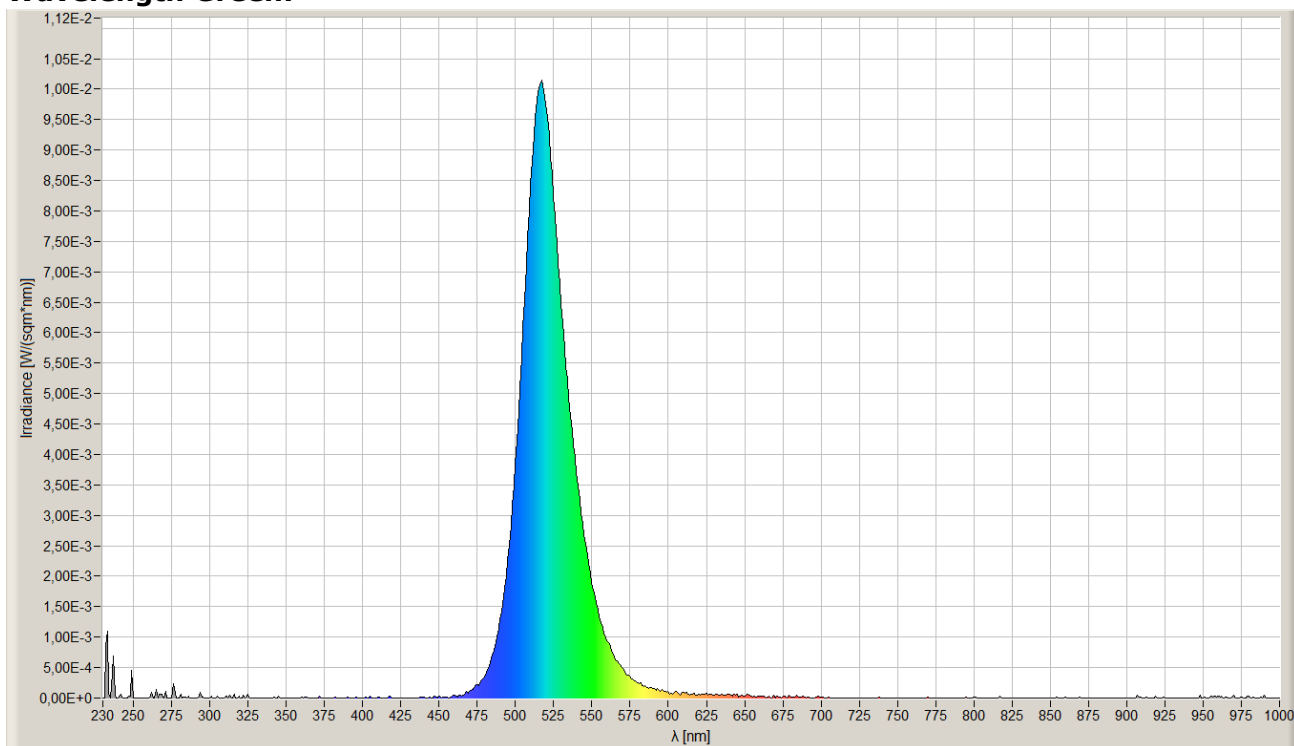
CIE1931 Warm White:



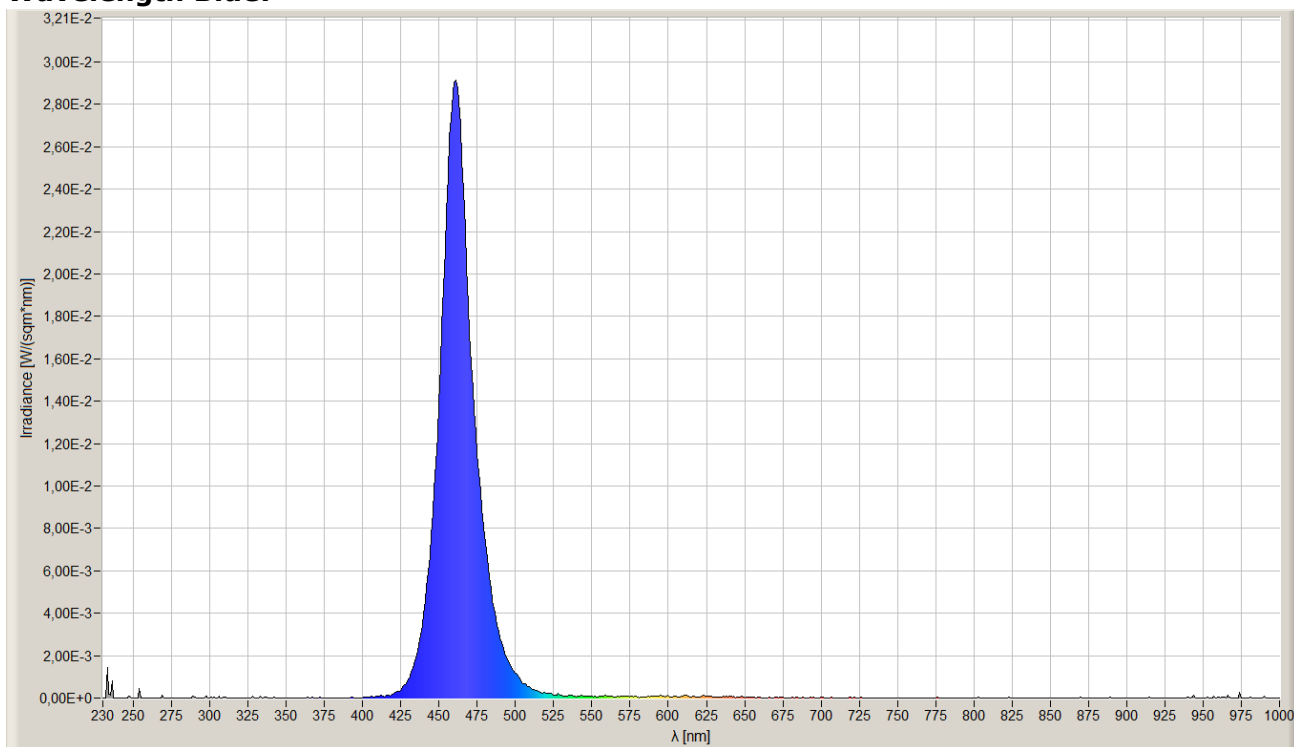
Wavelength Red:



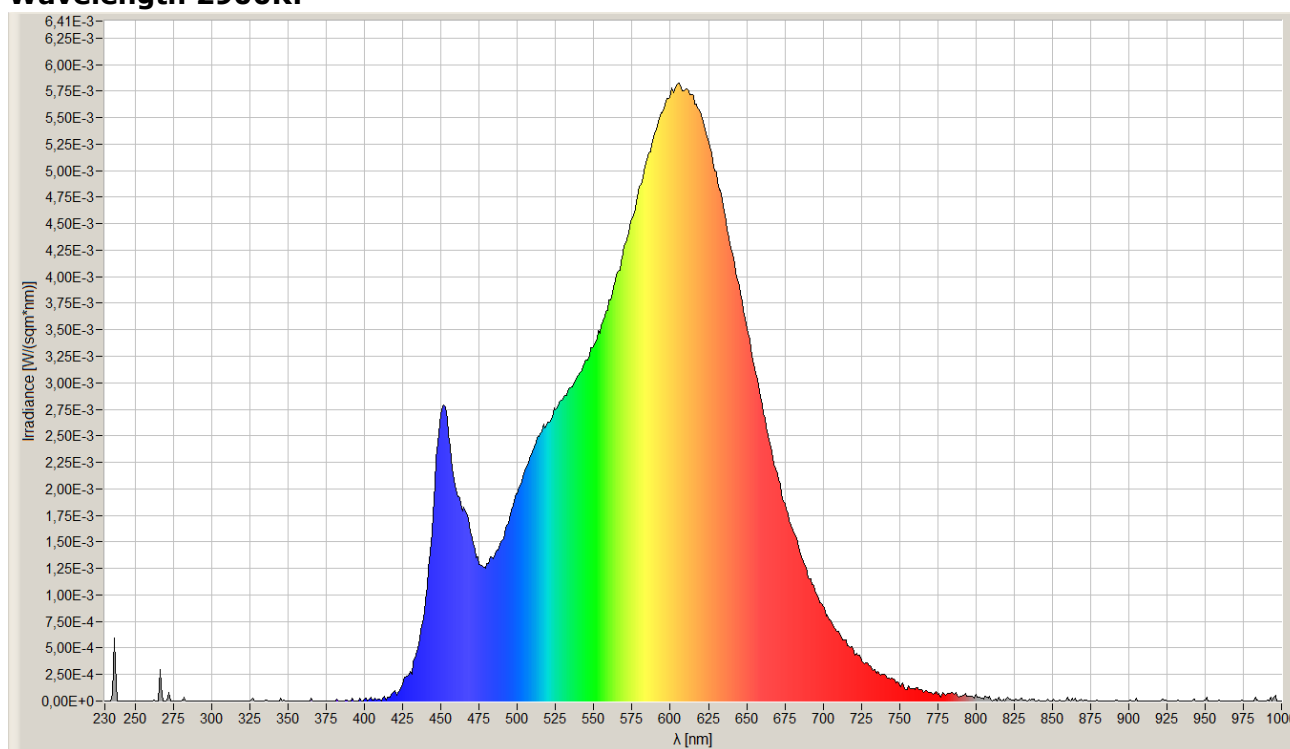
Wavelength Green:



Wavelength Blue:



Wavelength 2900K:



The Materials of PCB:

Conducting Tracks: Cu, 35um thickness, double sided.

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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