

Datasheet

LED-strip specification

LED-strip type:

LS12RGB60GS8208VPLX

Description:

**LuxaLight Pixel LED-strip GS8208 12V Digital RGB Protected High Power
(12 Volt, 60 LEDs, 5050, IP64)**

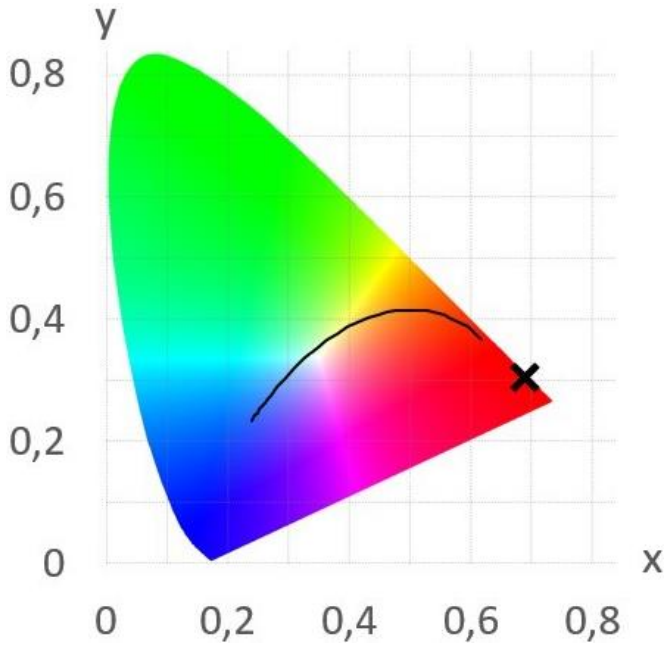


Date:
16-05-2023

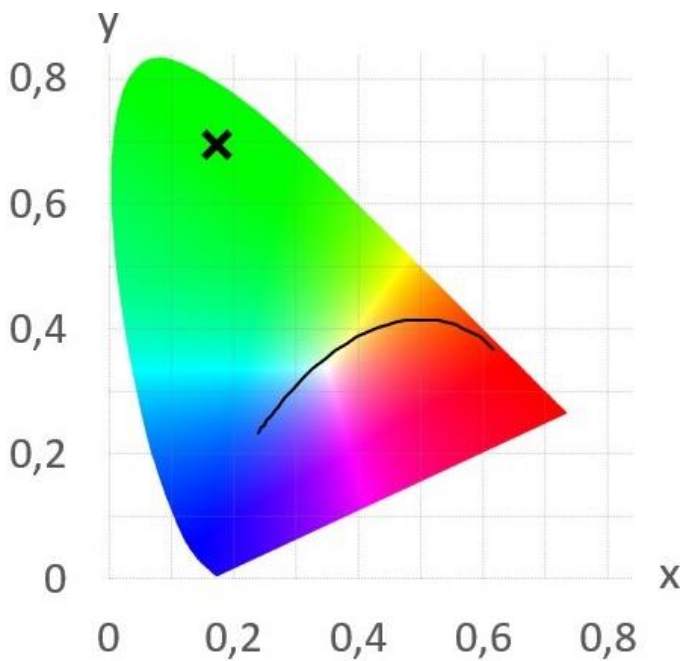
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Technical Specifications					
LS12RGB60GS8208VPLX					
Mechanical	LED Type		SMD5050		
	LED Quantity		60 LEDs / m		
	Length per segment		16,67 mm		
	LEDs / segment		1		
	Length on single reel		10 m		
	Dimensions		10000 x 10 x 4 (L x B x H)		
	Weight		35g ~ 50g / m		
	Mounting		3M Tape VHB4905		
	Protection grade		IP64		
	PCB Material		Copper		
Electronic	Working Voltage		DC 12V		
	Working Current		1,2 A / m		
	Working Wattage		14,4 Watt / m		
	Driving Method		Constant Voltage		
	Wires		UL1007 20# 150mm		
Environment	Working Temperature		-20°C ~ +60°C		
	Storing Temperature		-25°C ~ +70°C		
	Lifespan		50.000 Hours		
	Warranty		5 Years		
Lighting	Colour channels		Red	Green	Blue
	Brightness		200 lm	290 lm	185 lm
	Wavelength		620 - 630 nm	510 - 525 nm	455- 470nm
	BIN		3 SDCM		
	Viewing Angle		120 ±5°		
IC Protocol	IC Protocol		GS8208		
	Clock Type		No Clock		
	Redundant Data (Data 2)		Yes		
	Colour Resolution		8 Bits		
	Data transmission frequency		800 kbps		
	PWM Frequency		8 KHz		
Pin-out	Wire colour	Symbol	Function description		
	Black	GND	Ground		
	Green	Di1	Data 1 IN		
	Blue	Di2	Data 2 IN		
	Green	Do1	Data 1 OUT		
	Blue	Do2	Data 2 OUT		
	Red	+12V	12V Logic Power Supply		

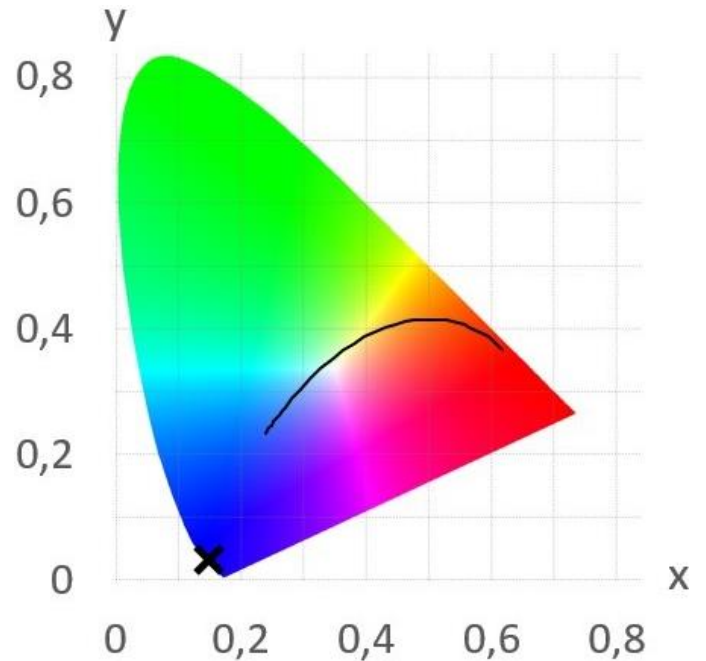
CIE1931 RED:



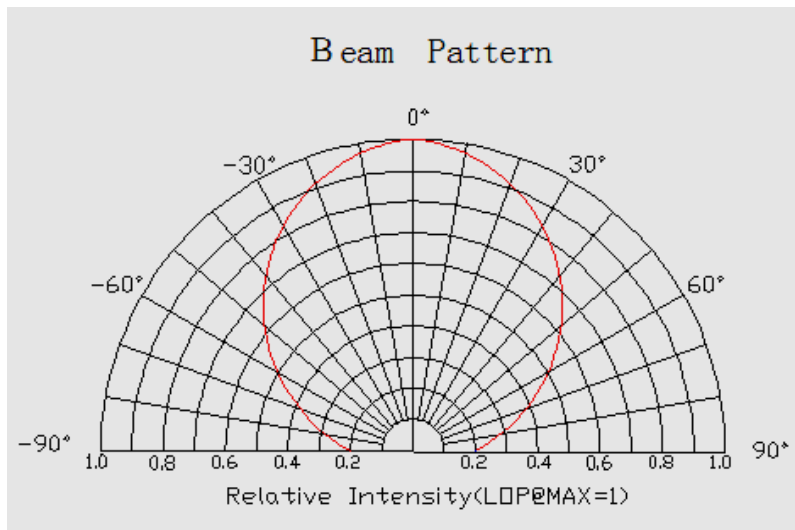
CIE1931 Green:



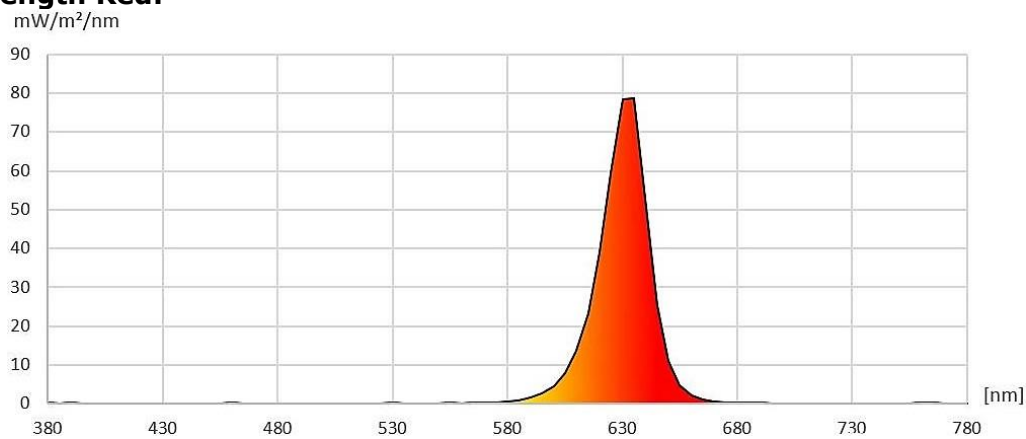
CIE1931 Blue:



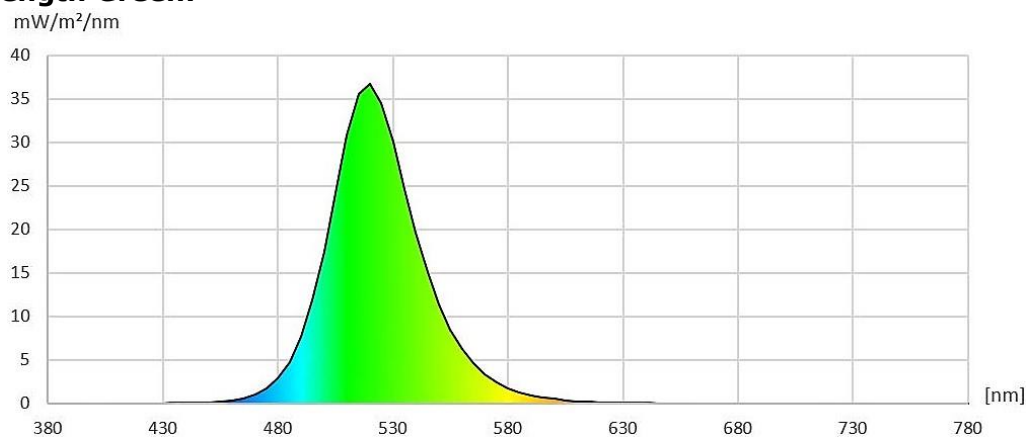
Optical Characteristics Curve:

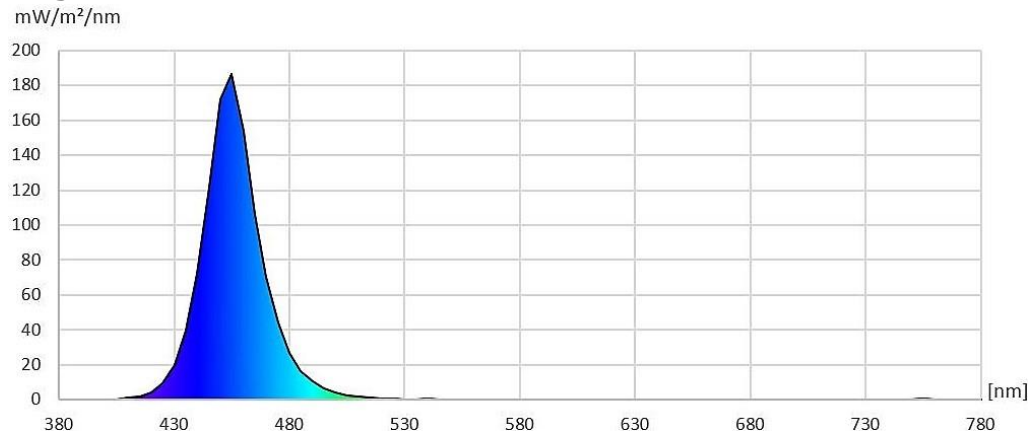


Wavelength Red:



Wavelength Green:



Wavelength Blue:**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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