

## Datasheet

LED-strip specification

LED-strip type:

**LS12RGB96GS8208VPLX**

Description:

**LuxaLight Pixel LED-strip GS8208 12V Digital RGB Protected High Power  
(12 Volt, 96 LEDs, 5050, IP64)**

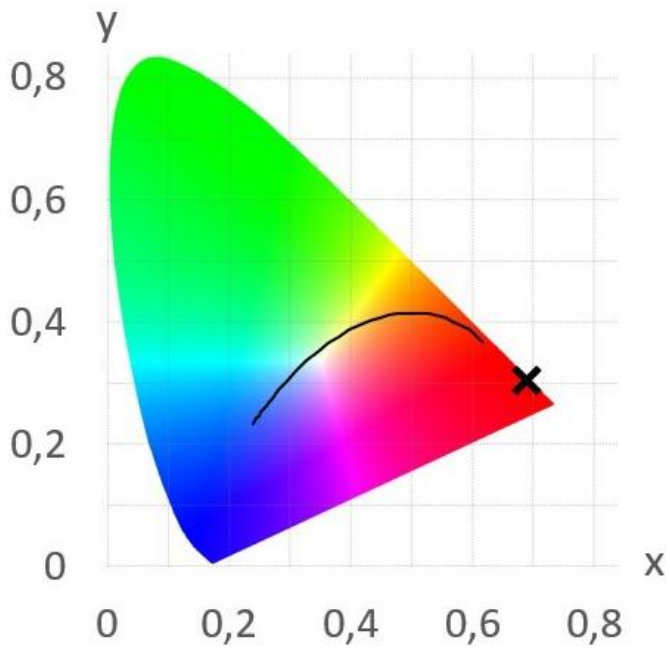


Date:  
16-05-2023

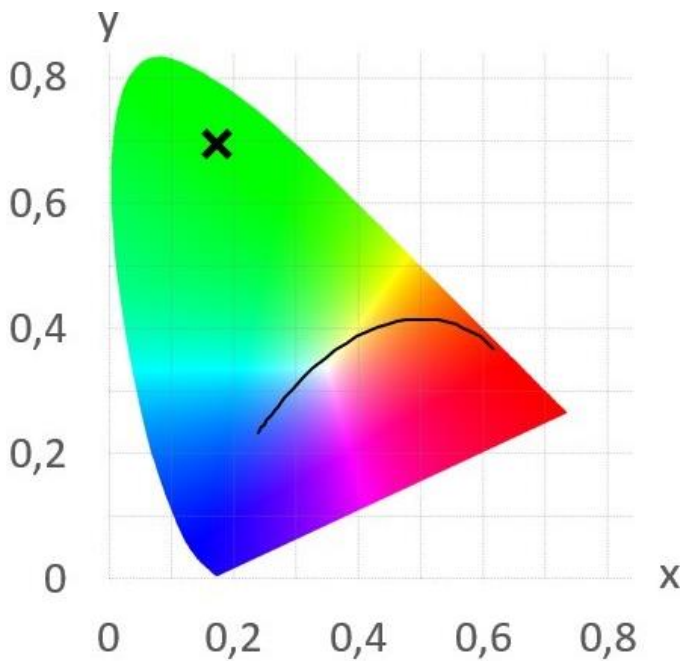
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Technical Specifications				
LS12RGB96GS8208VPLX				
Mechanical	LED Type	SMD5050		
	LED Quantity	96 LEDs / m		
	Length per segment	10,416 mm		
	LEDs / segment	1		
	Length on single reel	10 m		
	Dimensions	10000 x 12 x 4 ( L x B x H )		
	Weight	35g ~ 50g / m		
	Mounting	3M Tape VHB4905		
	Protection grade	IP64		
	PCB Material	Copper		
Electronic	Working Voltage	DC 12V		
	Working Current	1,6 A / m		
	Working Wattage	19,2 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	320 lm	464 lm	296 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	

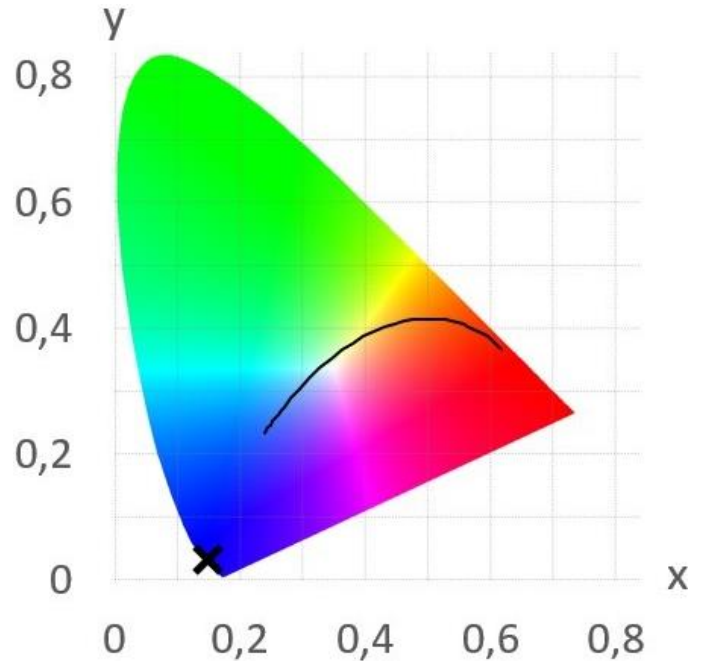
### CIE1931 RED:



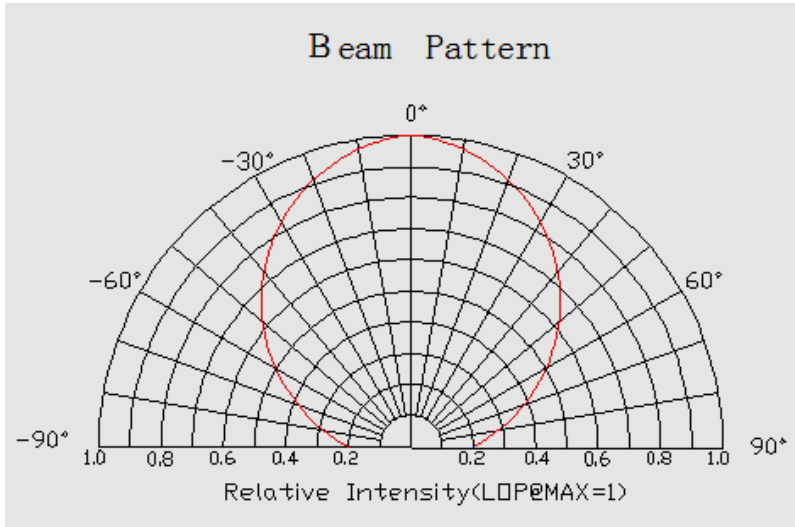
### CIE1931 Green:



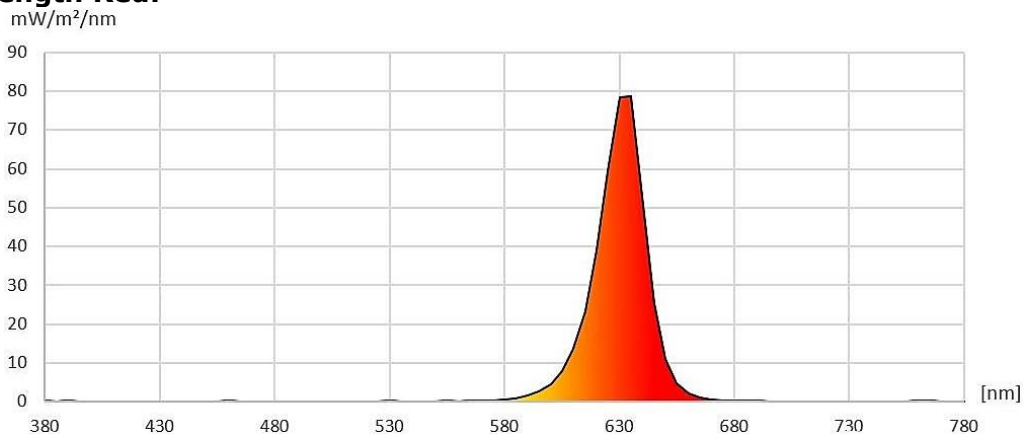
### CIE1931 Blue:



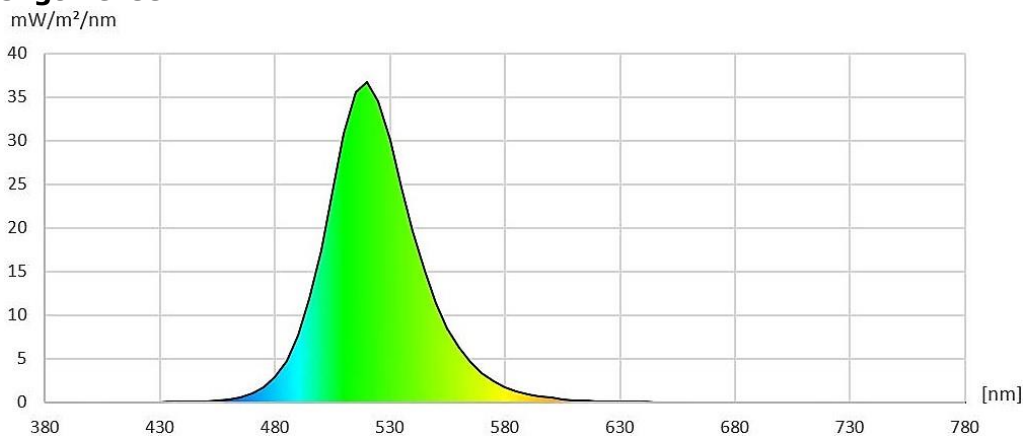
**Optical Characteristics Curve:**

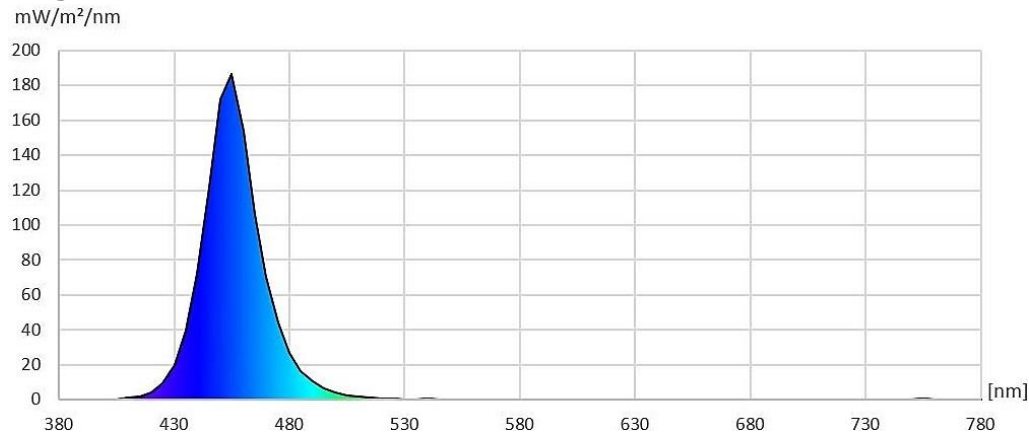


**Wavelength Red:**



**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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