

Datasheet

LED-strip specification

LED-strip type:

LS5RGB60HD108SPLX

Description:

**LuxaLight Pixel LED-strip HD108S Digital SPI RGB Protected
(5 Volt, 60 LEDs, 5050, IP64)**

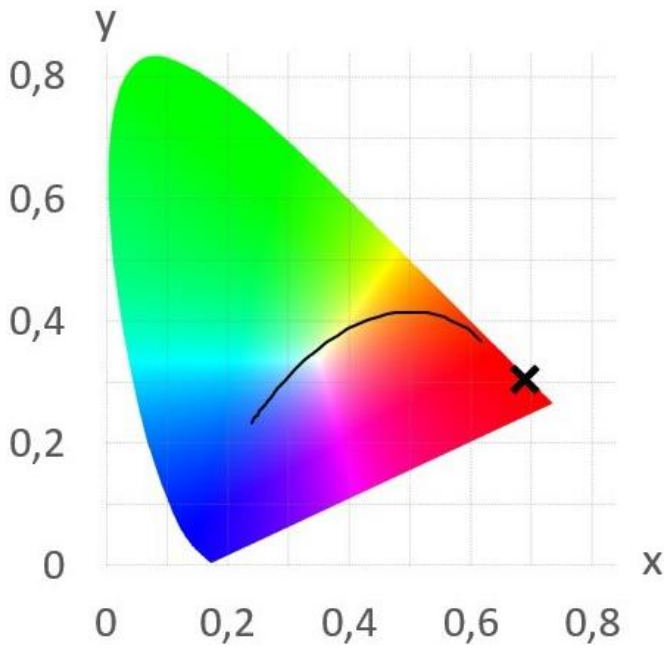


Date:
15-05-2023

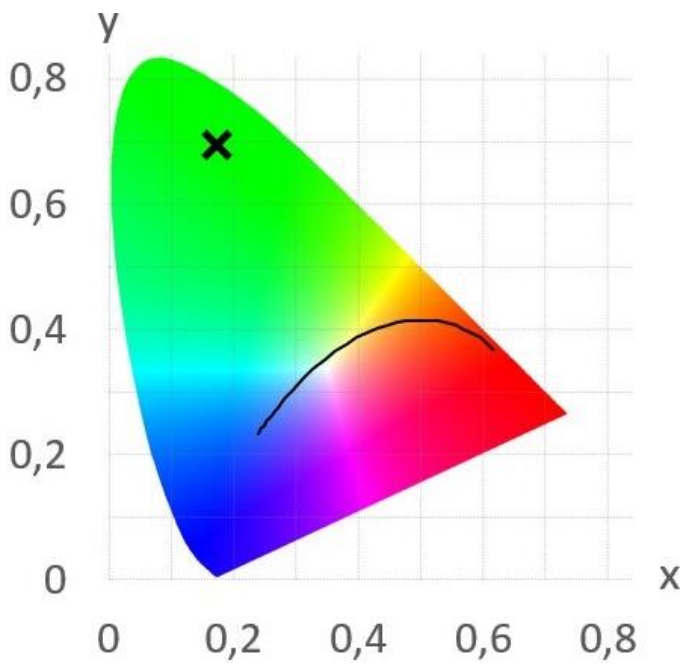
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Technical Specifications				
LS5RGB60HD108SPLX				
Mechanical	LED Type	SMD5050		
	LED Quantity	60 LEDs / m		
	Length per segment	16,67 mm		
	LEDs / segment	1		
	Length on single reel	2 m		
	Dimensions	2000 x 12 x 4 (L x B X H)		
	Weight	35g ~40g / m		
	Mounting	3M Tape VHB4905		
	Protection grade	IP64		
	PCB Material	Copper		
Electronic	Working Voltage	DC5V		
	Working Current	2,4 A / m		
	Working Wattage	12 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	2 Years		
Lighting	Colour channels	Red	Green	Blue
	Lumen / meter	132 lm	283 lm	76 lm
	Wavelength	620 - 630 nm	515 - 530 nm	460 - 475nm
	BIN	SDCM		
	Viewing Angle	120 ±5°		
IC Protocol	IC Protocol	HD108S		
	Clock Type	Clock		
	Redundant Data (Data 2)	No		
	Colour Resolution	16 Bits		
	Clock drive frequency	20 MHz		
	PWM Frequency	27KHz		
Pin-out	Wire colour	Symbol	Function description	
	White	GND	Ground	
	Green	Di	Data IN	
	Blue	Ci	Clock IN	
	Green	Do	Data Out	
	Blue	Co	Clock OUT	
	Red	+5V	5V Logic Power Supply	

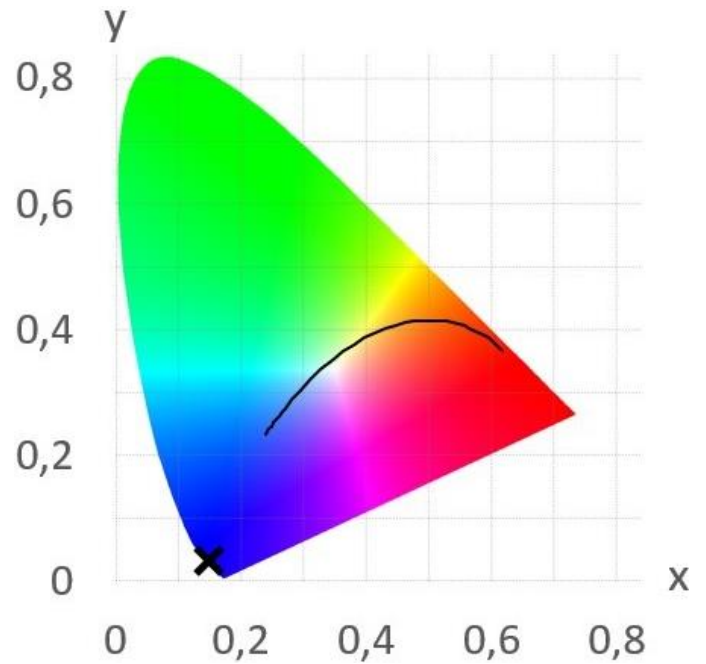
CIE1931 RED:

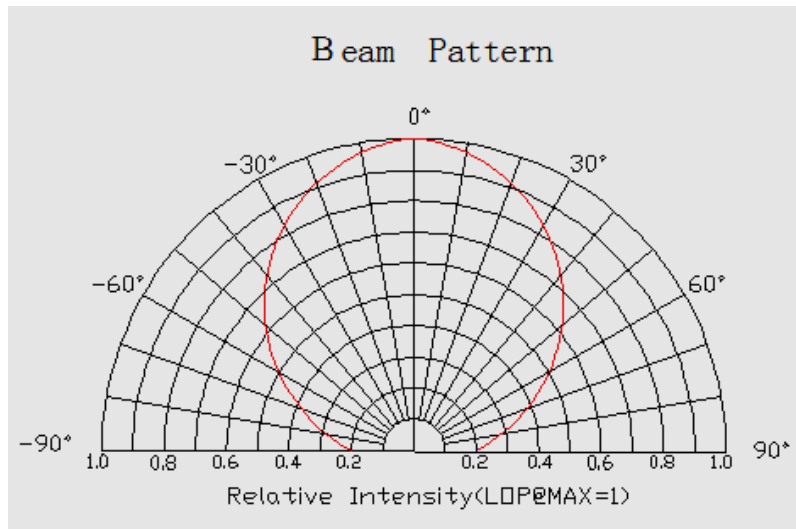


CIE1931 Green:

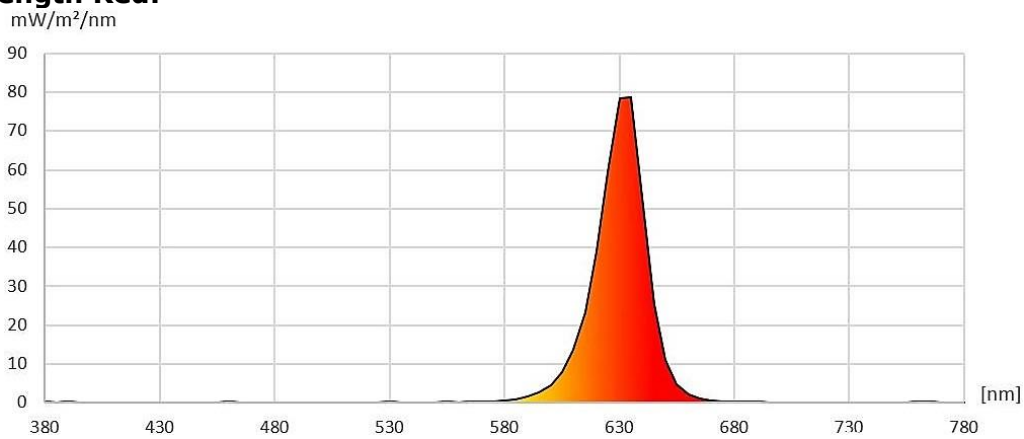


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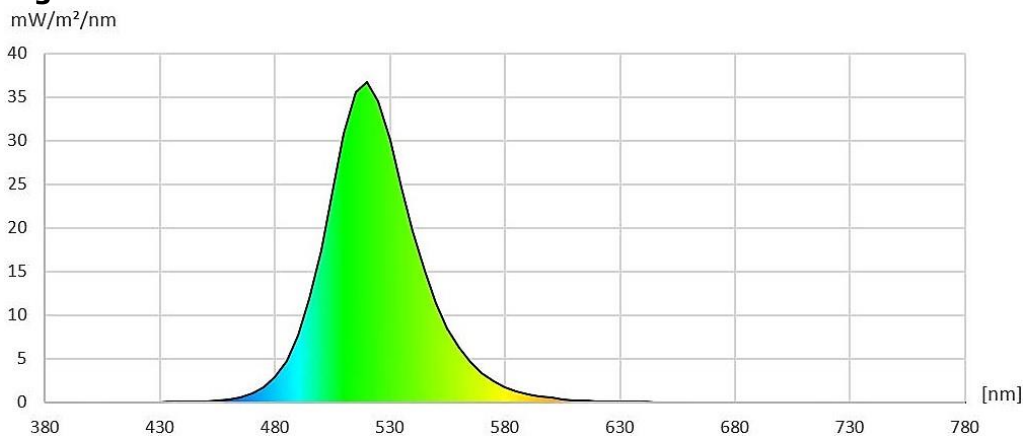




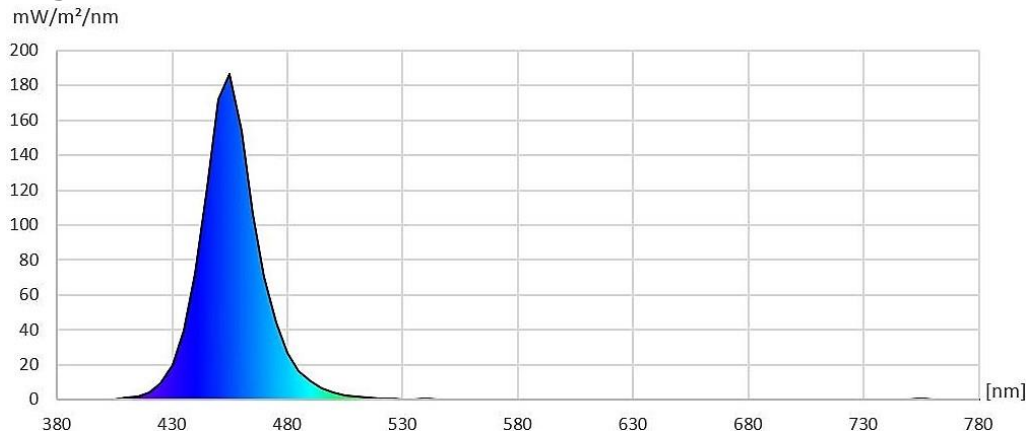
Wavelength Red:



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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