

Datasheet

LED-strip specification

LED-strip type:

LS36RGBW60SK6812ILX

Description:

**LuxaLight Pixel LED-strip SK6812 Digital RGB+WW High Power Indoor (6 -
36 Volt, 60 LEDs, 5050, IP20)**

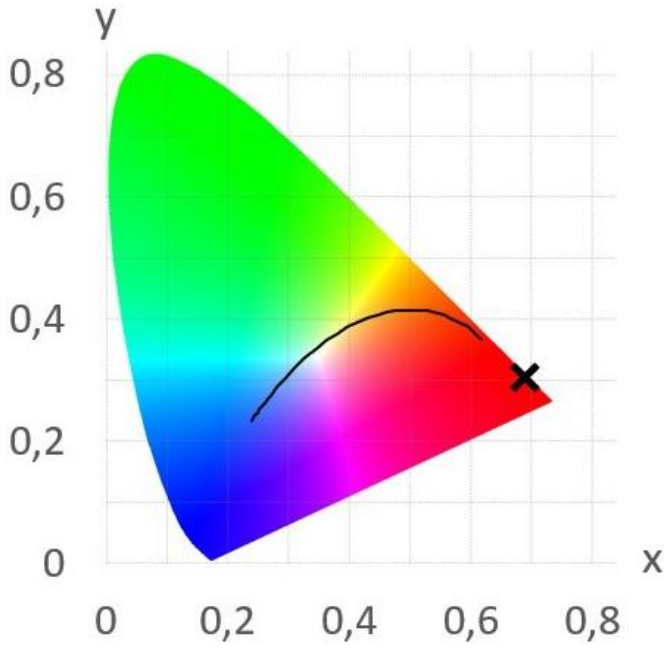


Date:
15-05-2023

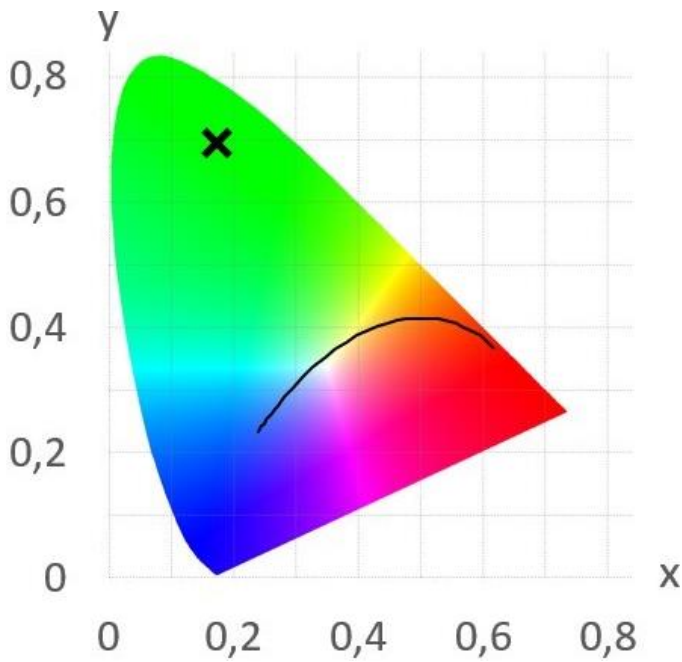
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Technical Specifications					
LS36RGBW60SK6812ILX					
Mechanical	LED Type	SMD5050			
	LED Quantity	60 LEDs / m			
	Length per segment	83,33 mm			
	LEDs / segment	1			
	Length on single reel	10 m			
	Dimensions	10000 x 12 x 4 (L x B X H)			
	Weight	35g ~40g / m			
	Mounting	3M Tape VHB4905			
	Protection grade	IP20			
	PCB Material	Copper			
Electronic	Working Voltage	DC6-36V			
	Working Current	Depends on used Voltage			
	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	Warm White
	Lumen / meter	200 lm	290 lm	195 lm	490 lm
	Wavelength	620 - 630 nm	515 - 530 nm	460 - 475nm	2700k
	BIN	SDCM			
	Viewing Angle	120 ±5°			
IC Protocol	IC Protocol	SK6812			
	Clock Type	No Clock			
	Redundant Data (Data 2)	No			
	Colour Resolution	16 Bits			
	Data transmission frequency	800 KHz			
	PWM Frequency	1,2 KHz			
Pin-out	Wire colour	Symbol	Function description		
	Black	GND	Ground		
	Green	DI	Data In		
	Green	DO	Data Out		
	Red	+6-36V	6 - 36V Logic Power Supply		

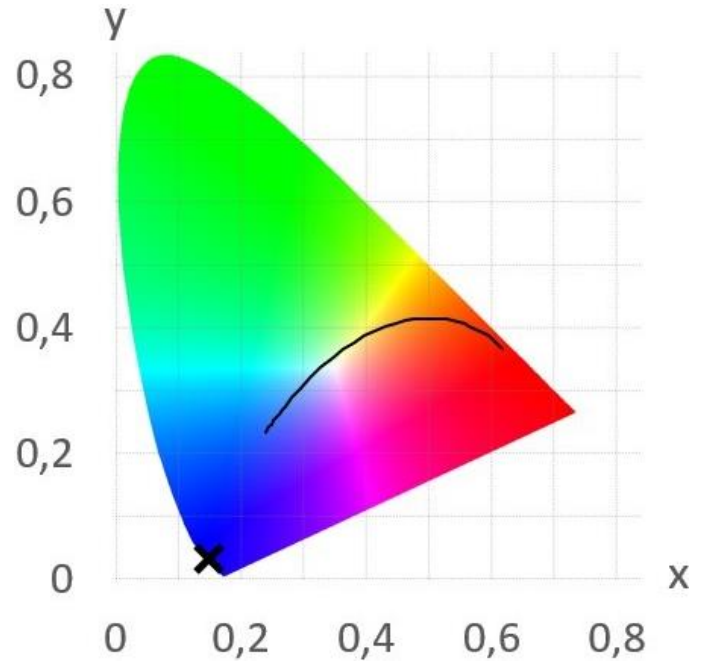
CIE1931 RED:

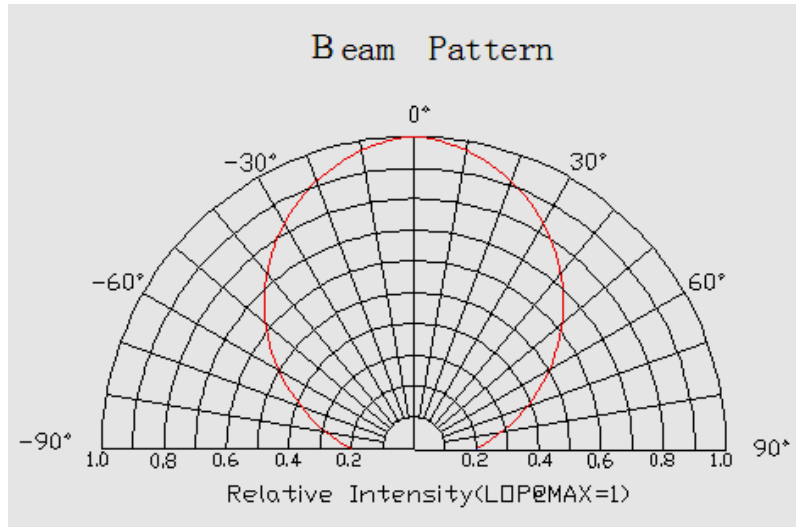


CIE1931 Green:



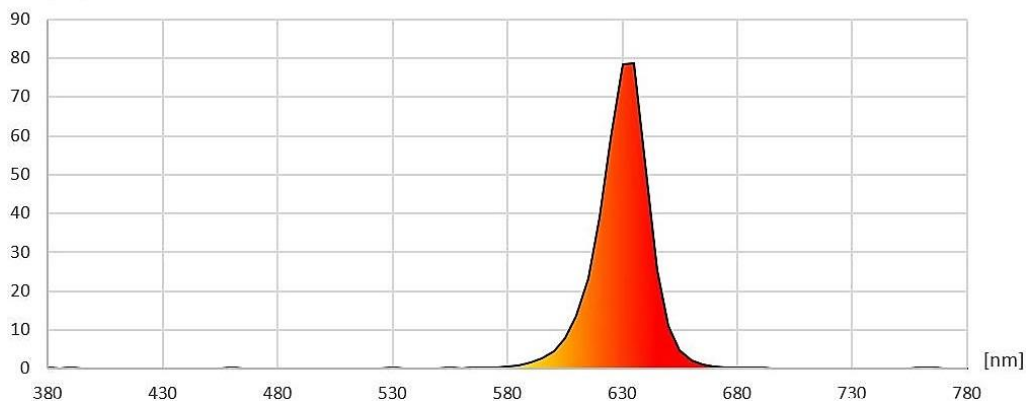
CIE1931 Blue:





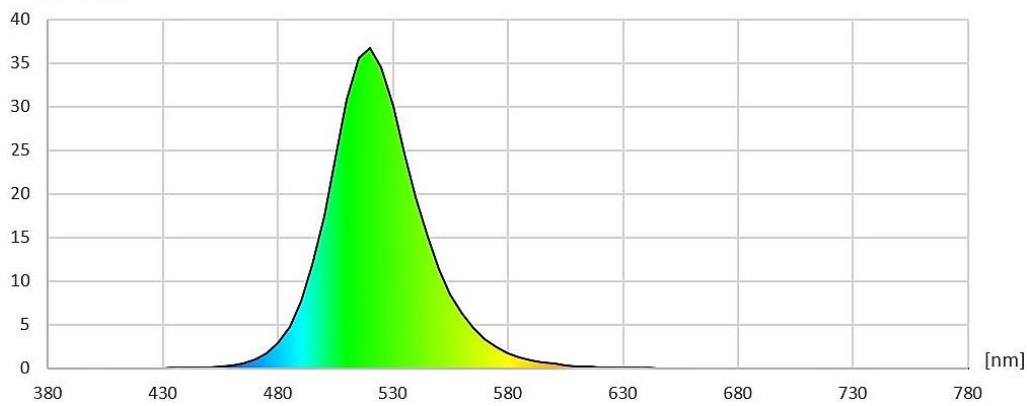
Wavelength Red:

mW/m²/nm

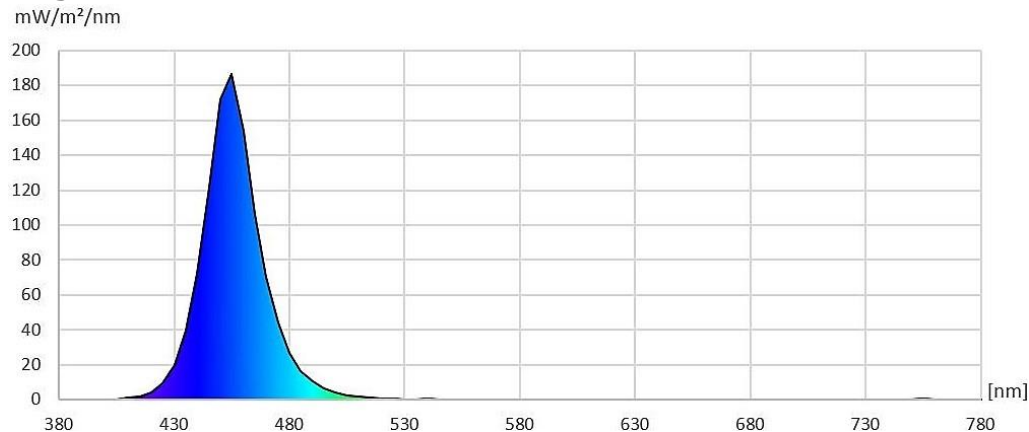


Wavelength Green:

mW/m²/nm



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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