

# Datasheet

LED-strip specification

LED-strip type:  
**LS36RGBWW60SK6812PLX**

Description:  
**LuxaLight Pixel LED-strip RGB + Warm White Protected SK6812  
(6-36 Volt, 60 LEDs, 5050, IP64)**



Date:  
14-11-2022

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Basic Parameters	
LED Type	5050 SMD
Color	RGB + Warm White
CRI	≥ 80
Viewing Angle (θ)	120 ±5°
LED Qty	60 LEDs/ mtr
Numbers of channels	4
IC type	SK6812
IP grade	IP64 Silicone
Dimensions	1000 * 10 * 4mm
Mounting	3M tape VHB4905
Weight	35g ~ 50g/ meter
Lifespan	50,000hours
BIN	3 SDCM
Warranty	2 Years

Environment Parameters	
Working Temperature	-25°C ~ +70°C
Storage Temperature	-20°C ~ +60°C

Electronic Specifications	
Working Voltage	DC 6-36V
Working Current	0.55-3.2 A/ mtr
Working Wattage	19.2 W/ mtr
Driving Method	Constant Voltage

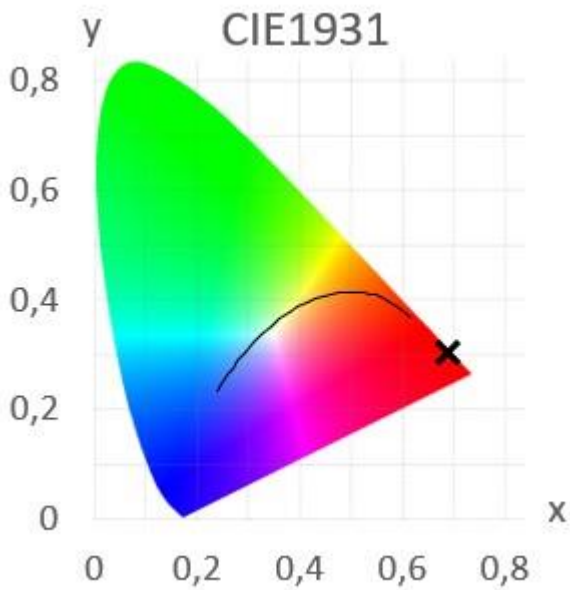
Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	83.33 mm
LEDs / segment	5
Standard length on a reel	10m

Luminous Flux (Lumen/Meter)	
Red	200 Lumen
Green	290 Lumen
Blue	185 Lumen
Warm White	488 Lumen

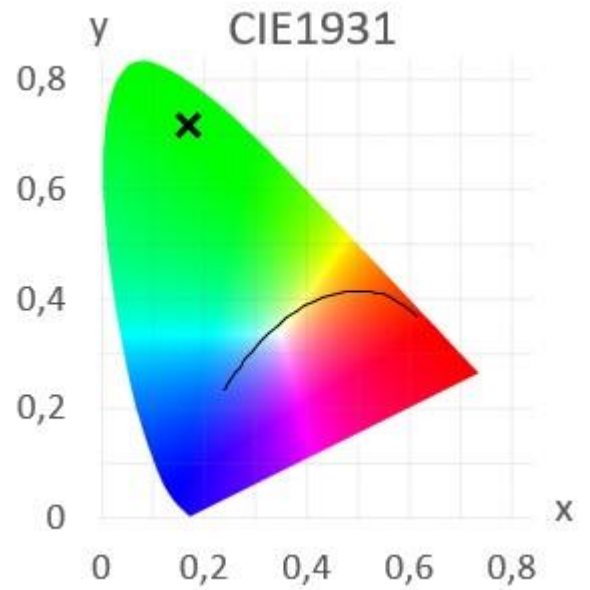
Wavelength/ Color Temperature	(nm/k)
Red	620~630 nm
Green	510~525 nm
Blue	455~470 nm
Warm White	2750K

Wire color	Symbol	Function description
White	GND	Ground
Green	Di	Data IN
Red	6-36V	6-36V logic power supply

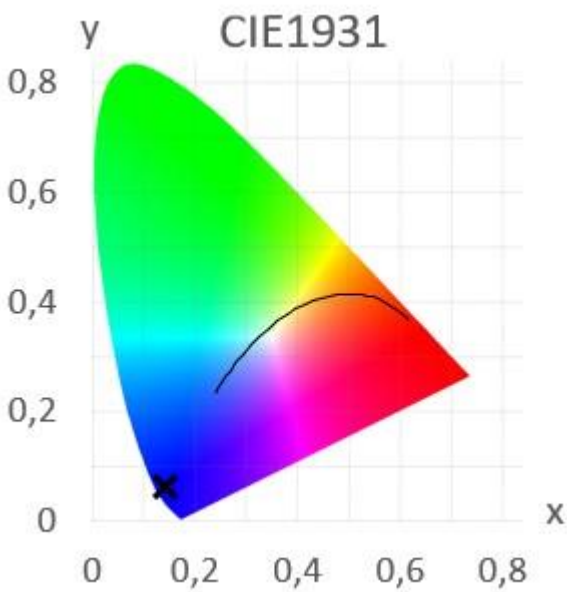
**CIE1931 RED:**



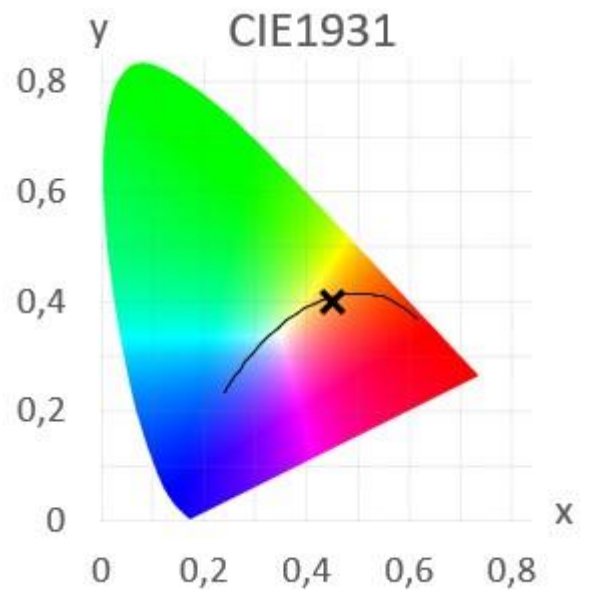
**CIE1931 GREEN:**



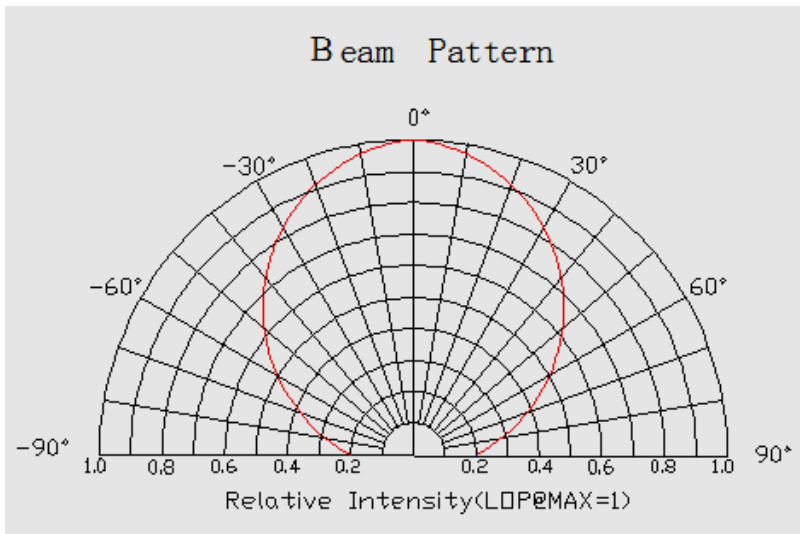
**CIE1931 BLUE:**



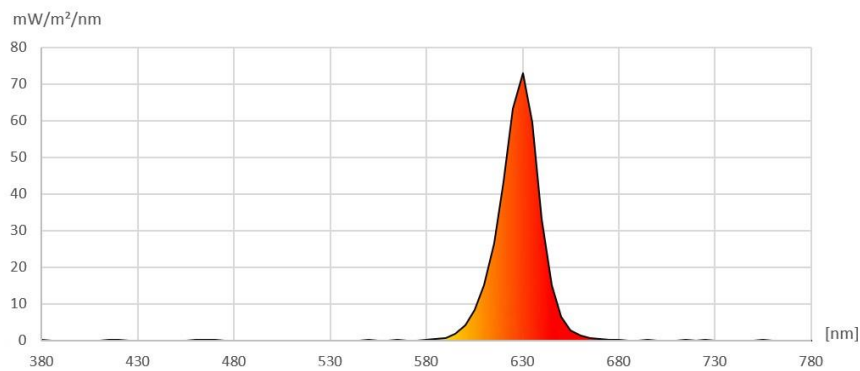
**CIE1931 WARM WHITE:**



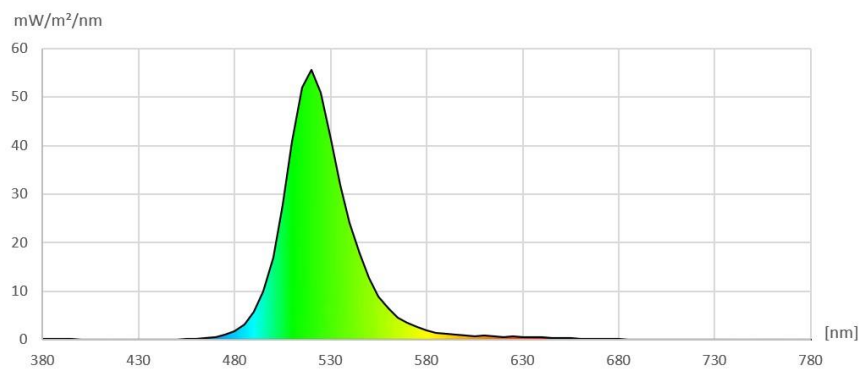
## Optical Characteristics Curve:



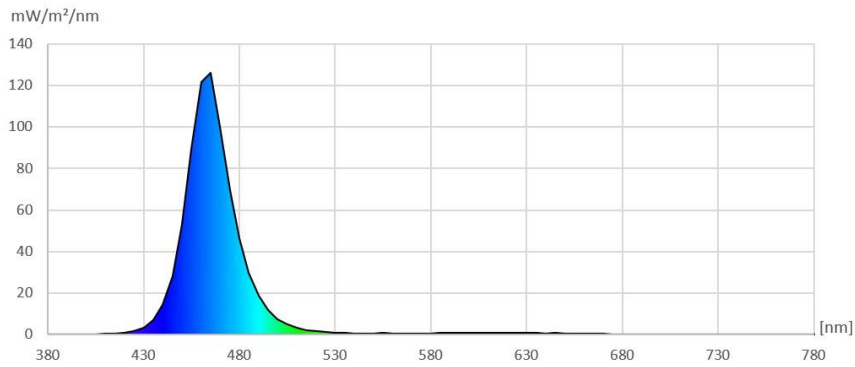
## Wavelength Red:



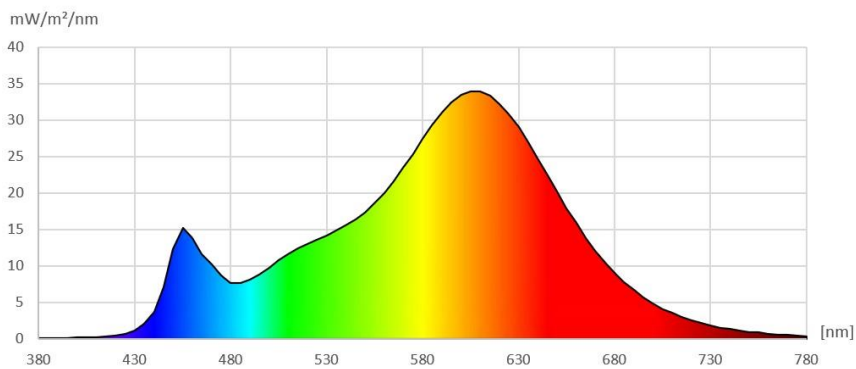
## Wavelength Green:



## Wavelength Blue:



## Wavelength Warm White:



**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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