

Datasheet

LED-strip specification

LED-strip type:

LS5RGB60SK6812PLX

Description:

**LuxaLight Long Life LED-strip SK6812 Digital RGB High Power Protected
(5 Volt, 60 LEDs, 5050, IP64)**



Date:
07-12-2021

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Basic Parameters	
LED Type	5050 SMD
Color	RGB
Viewing Angle (θ)	120 ±5°
LED Qty	60 LEDs/ mtr
Numbers of channels	3
IC type	SK6812
IP grade	IP64 Silicone
Dimensions	1000 * 10 * 4mm
Weight	35g ~ 50g/ meter
Mounting	3M VHB4905
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 5V
Working Current	3.6 A/ mtr
Working Wattage	18 W/ mtr
Driving Method	Constant Voltage

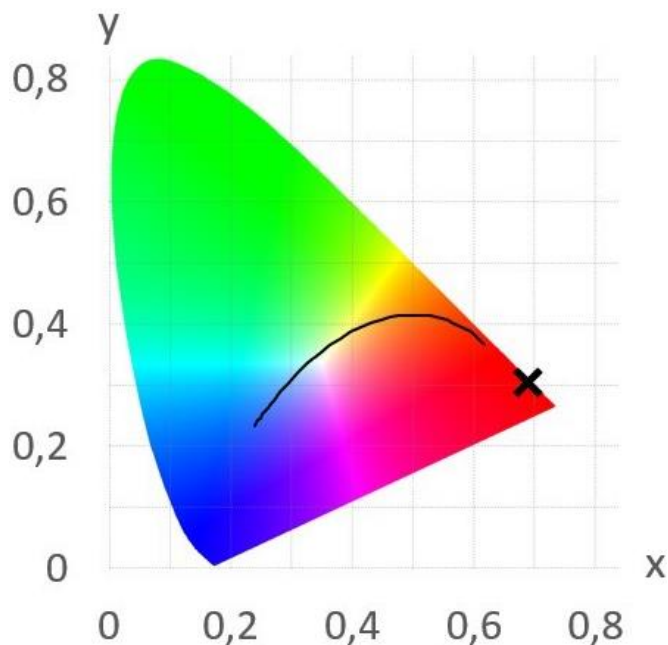
Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	16.67 mm
LEDs / segment	1
Standard length on a reel	10m

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

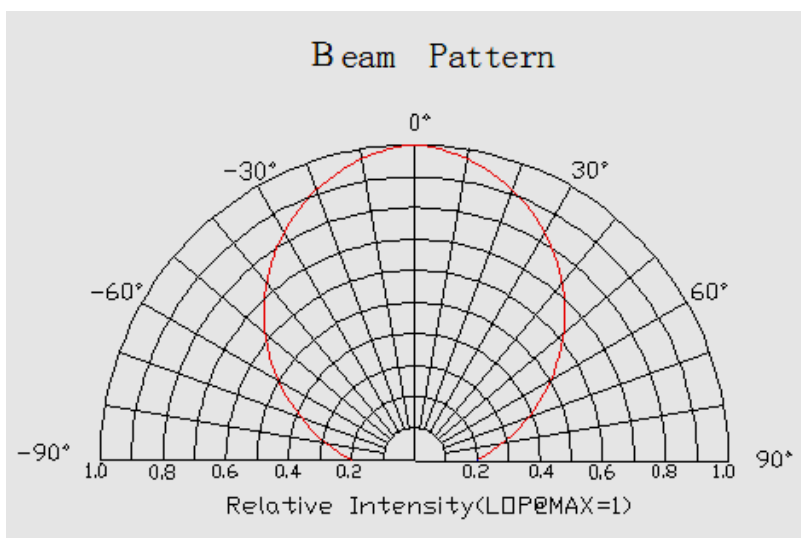
Wavelength/ Color Temperature	(nm/k)
Red	620~630 nm
Green	510~525 nm
Blue	455~470 nm

Wire color	Symbol	Function description
White	GND	Ground
Green	Din	Data IN
Red	+5V	5V logic power supply

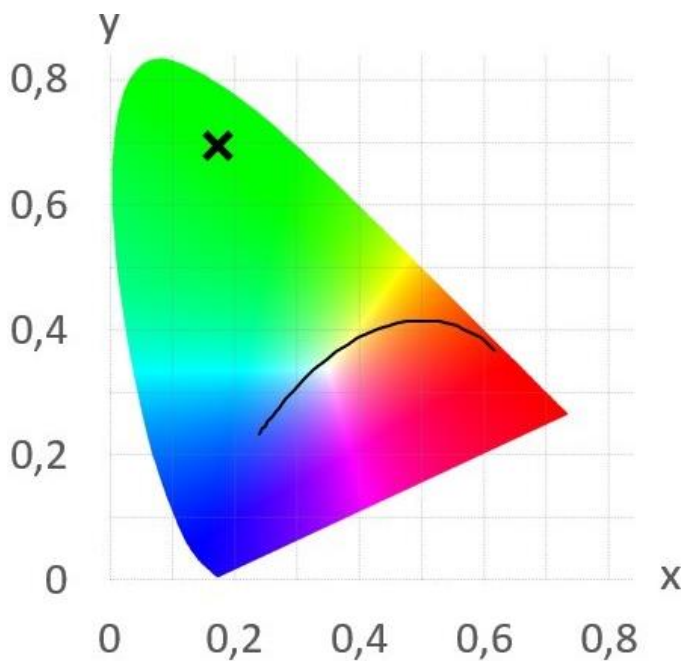
CIE1931 RED:



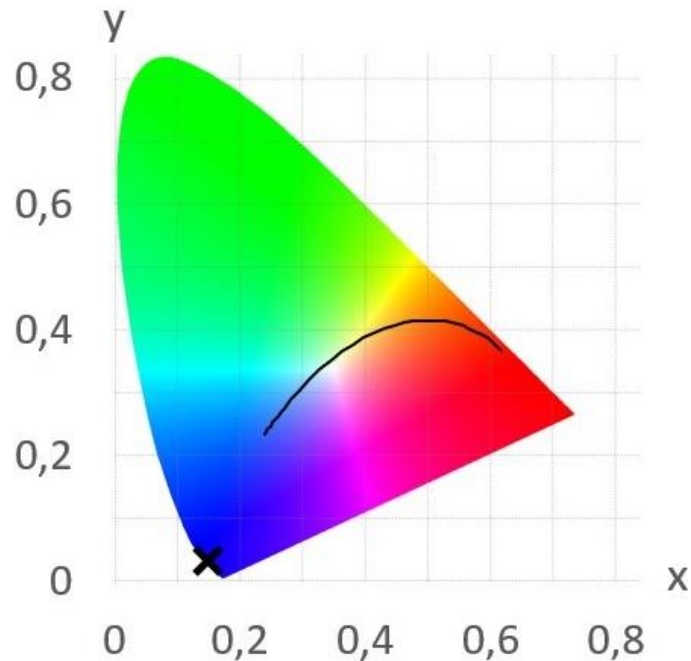
Optical Characteristics Curve:



CIE1931 Green:

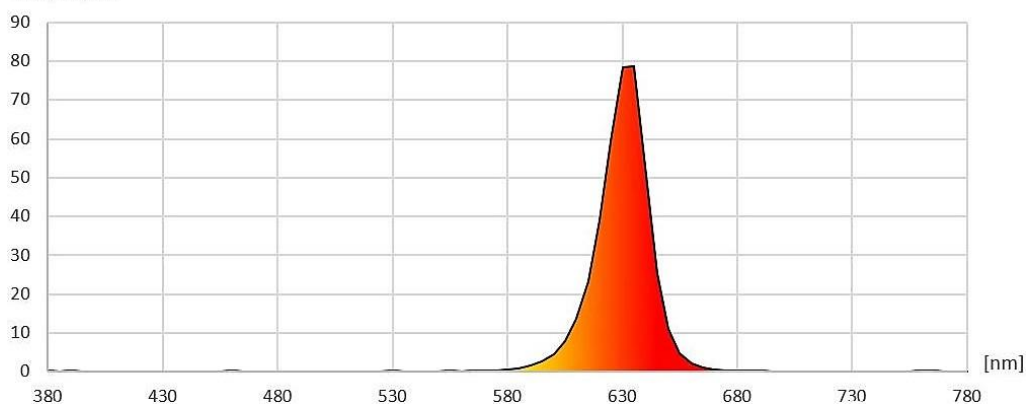


CIE1931 Blue:



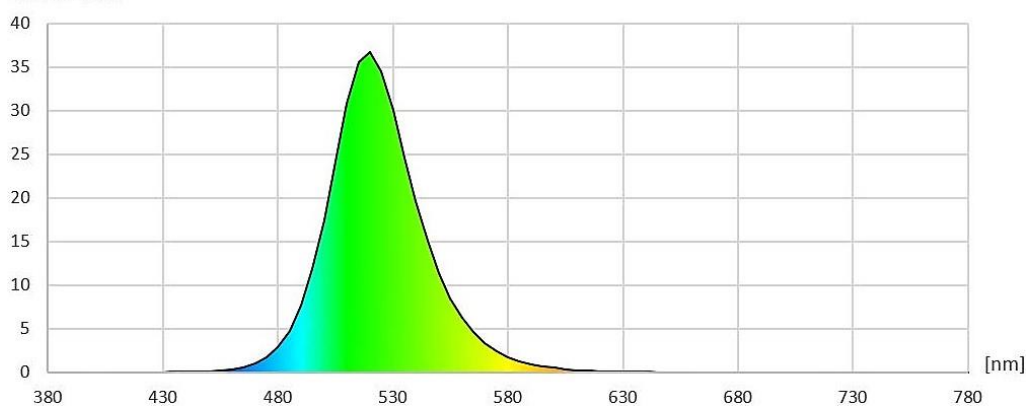
Wavelength Red:

mW/m²/nm



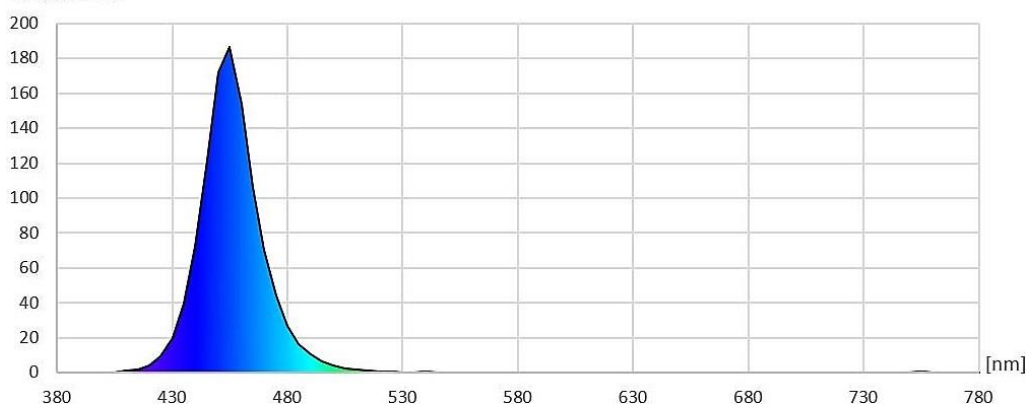
Wavelength Green:

mW/m²/nm



Wavelength Blue:

mW/m²/nm



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:

- IEC 55015:2019/A11:2020
- IEC 61000-3-2:2019/A1:2021
- IEC 61000-3-3:2013+A1:2017+A2:2021
- IEC 61547:2009

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