

Datasheet

LED-strip specification

LED-strip type:
LS24RGBWW84X5050PLX

Description:
**LuxaLight Long Life LED-strip 24V Full Color + Warm White + White
High Power Protected 5050
(24 Volt, 84 LEDs, 5050, IP64)**



Date:
21-07-2021

Basic Parameters	
LED Type	5050 SMD
Color	RGBWW+W
CRI	≥ 80 Ra
Viewing Angle (θ)	120 ±5°
LED Qty	84 LEDs/ mtr
IP grade	IP64 Silicone
Dimensions	1000 * 12 * 4mm
Weight	35g ~ 50g / meter
Lifespan	70,000 hours
LB Value	L80B50
BIN	3 SDCM
Warranty	5 Years

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

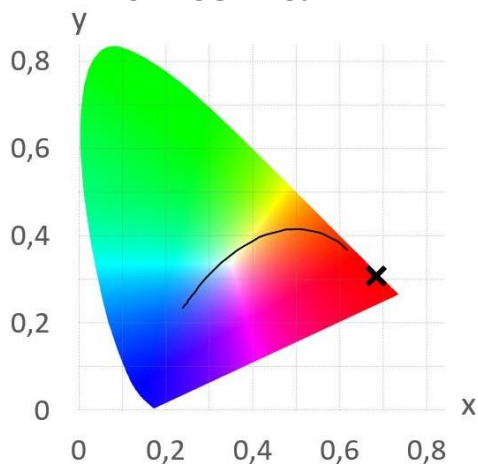
Electronic Specifications	
Working Voltage	DC24V
Working Current	1A/ mtr
Working Wattage	24W/ mtr
Driving Method	Constant Voltage

Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	83.33 mm
LEDs / segment	7
Standard length on a reel	10m

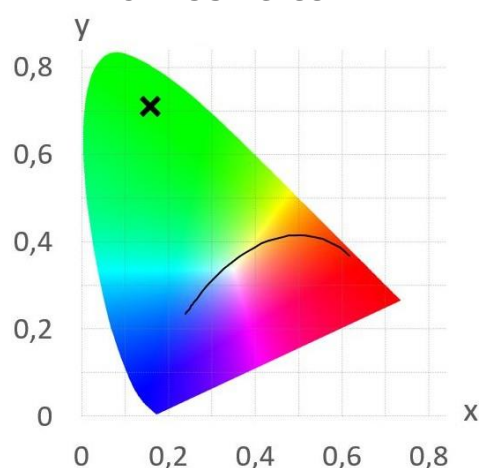
Luminous Flux (Lumen/Meter)	
Red	280 Lumen
Green	406 Lumen
Blue	259 Lumen
Warm White	684 Lumen
White	534 Lumen

Wavelength/ Color Temperature	(nm/k)
Red	620 ~ 630 nm
Green	510 ~ 525 nm
Blue	455 ~ 470 nm
Warm White	2700 ~ 2900 K
White	7900 ~ 8100 K

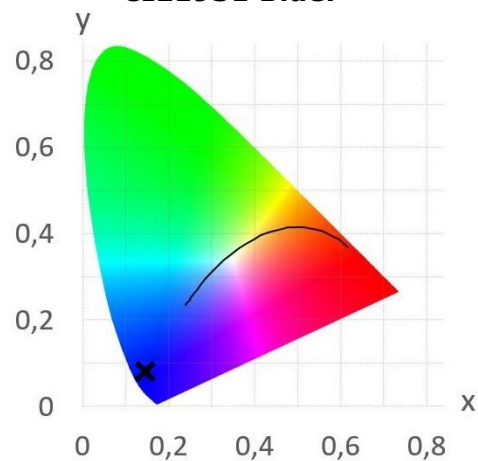
CIE1931 Red:



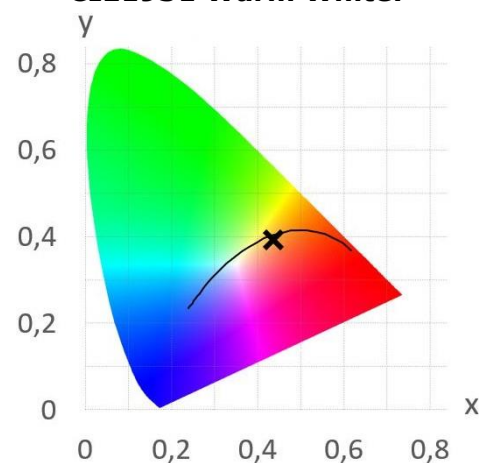
CIE1931 Green:



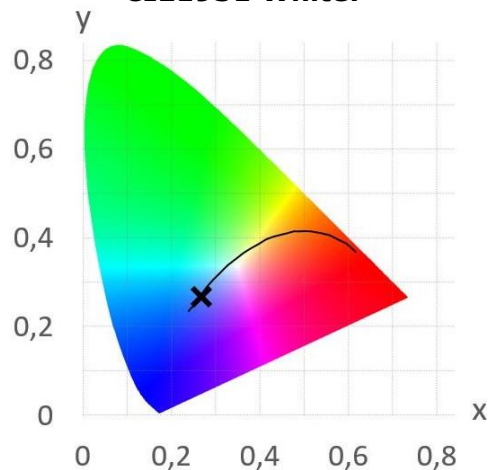
CIE1931 Blue:



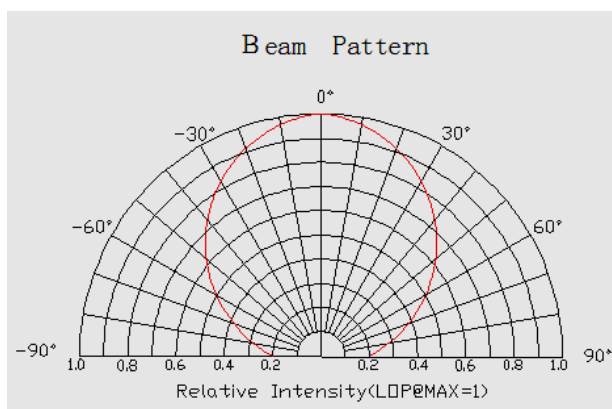
CIE1931 Warm White:



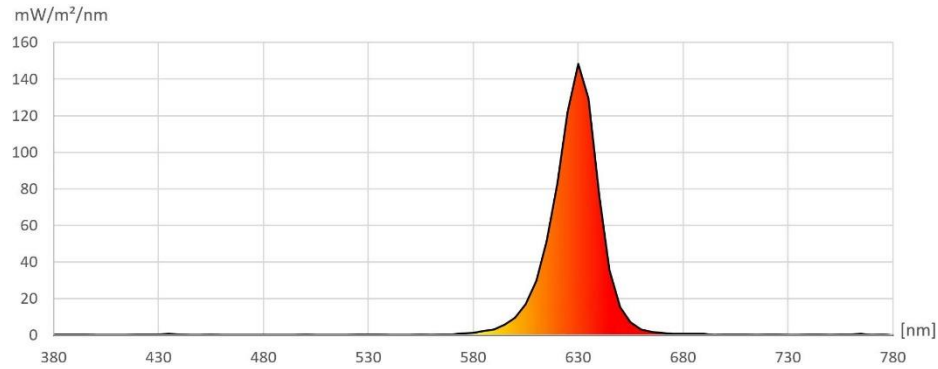
CIE1931 White:



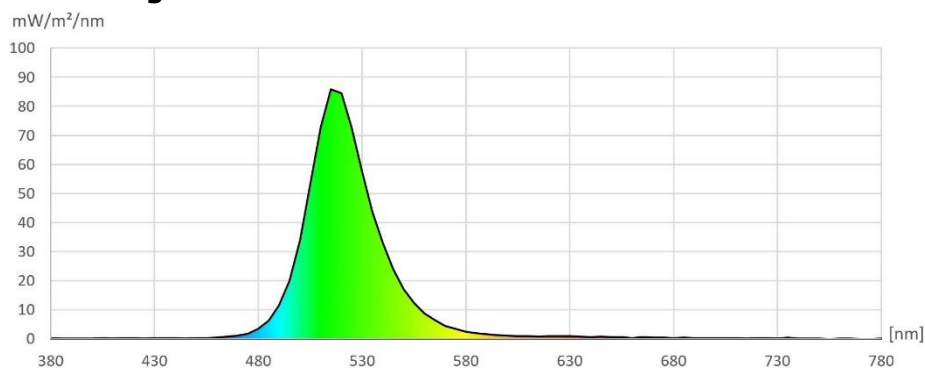
Optical Characteristics Curve:



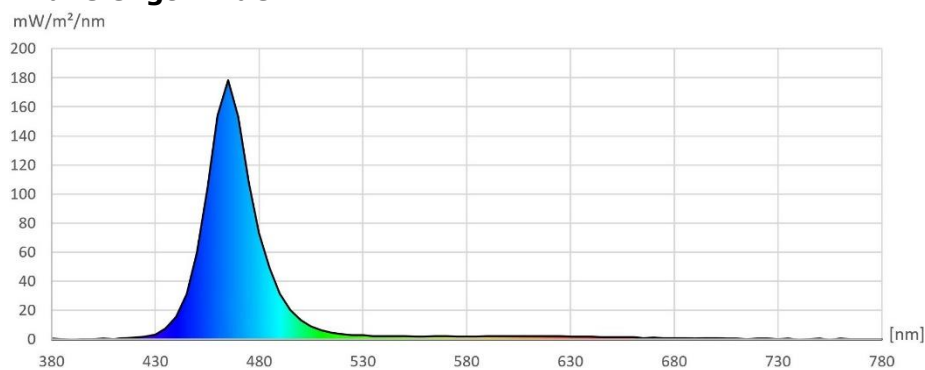
Wavelength Red:



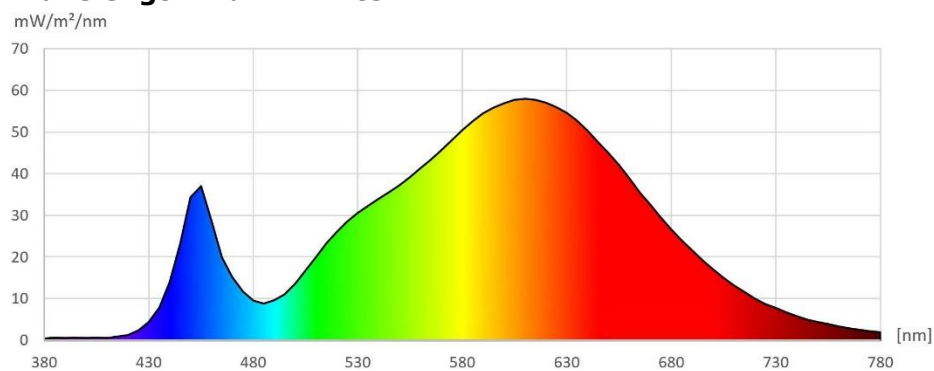
Wavelength Green:



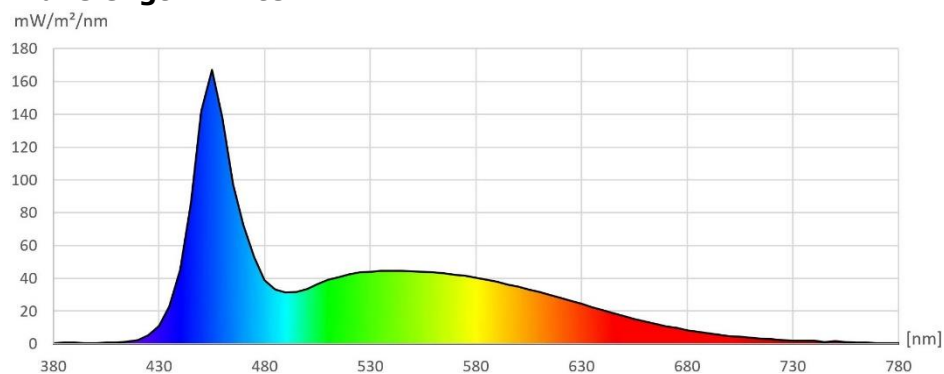
Wavelength Blue:



Wavelength Warm White:



Wavelength 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:

- EN 55015: 2019 + A1: 2015 + A2: 2009
- EN 61000-3-2: 2019 + A1: 2009 + A2: 2009
- EN 61000-3-3: 2013
- EN 61547: 2009

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