

Datasheet

LED-strip specification

LED-strip type:
LS24RGBWW84X5050WLX

Description:
**LuxaLight LED-strip 24V Full Color + Warm White + White Waterproof 5050
(24 Volt, 84 LEDs, 5050, IP68)**



Date:
14-09-2022

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Basic Parameters	
LED Type	5050 SMD
Color	RGB+ Warm White+ White
CRI	≥ 80 Ra
Viewing Angle (θ)	120 ±5°
LED Qty	84 LEDs/ mtr
IP grade	IP68 Silicone
Dimensions	1000 * 15 * 5mm
Weight	80g ~ 95g/ meter
Lifespan	70,000hours
LB Value	L80B50
BIN	3 SDCM
Warranty	5 Years

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

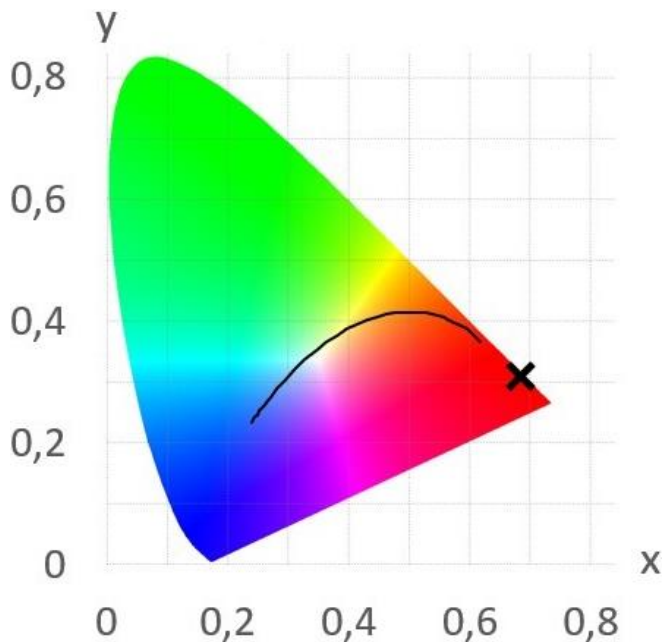
Electronic Specifications	
Working Voltage	DC24V
Working Current	1A/ mtr
Working Wattage	24W/ mtr
Driving Method	Constant Voltage

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

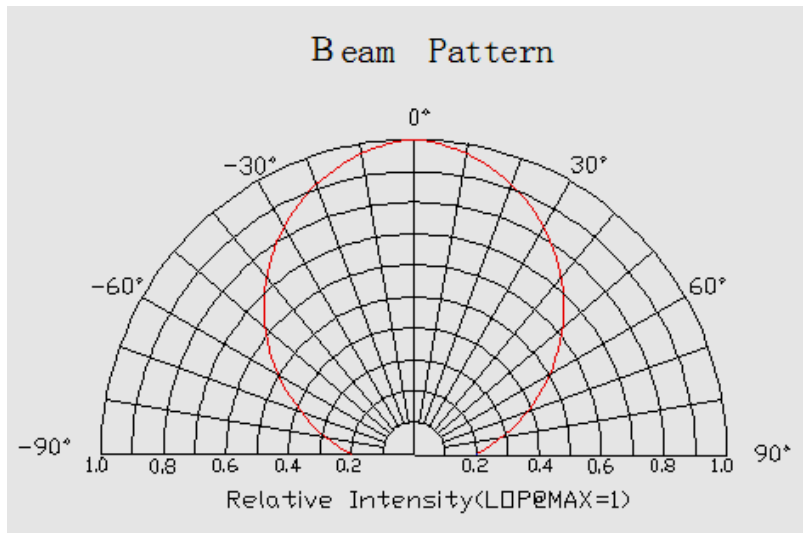
Luminous Flux (Lumen/Meter)	
Red	280 Lumen
Green	406 Lumen
Blue	259 Lumen
Warm White	534 Lumen
White	684 Lumen

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

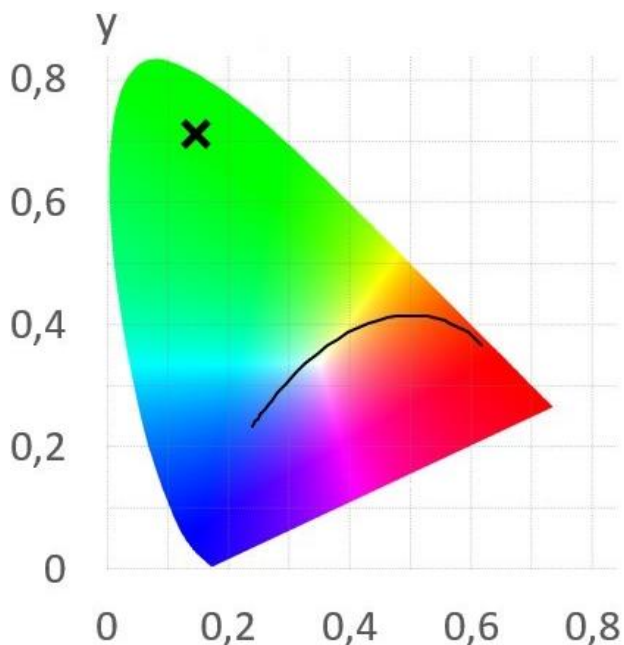
CIE1931 RED:



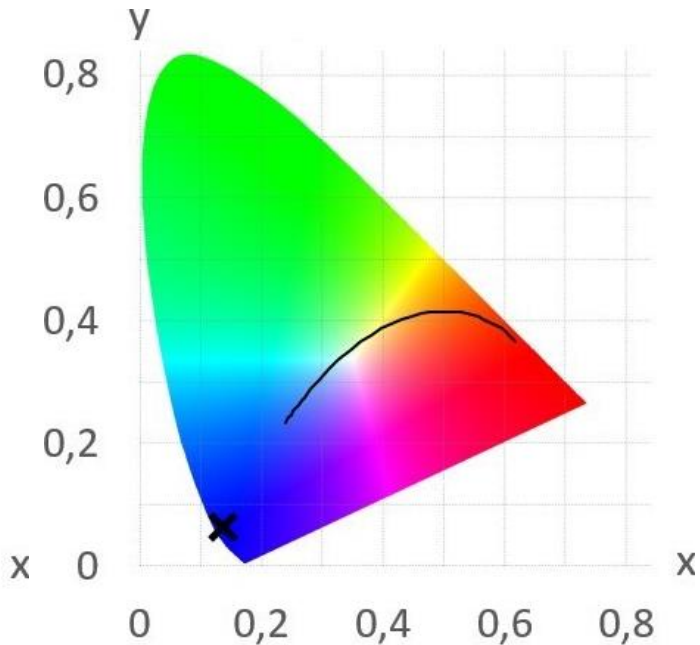
Optical Characteristics Curve:



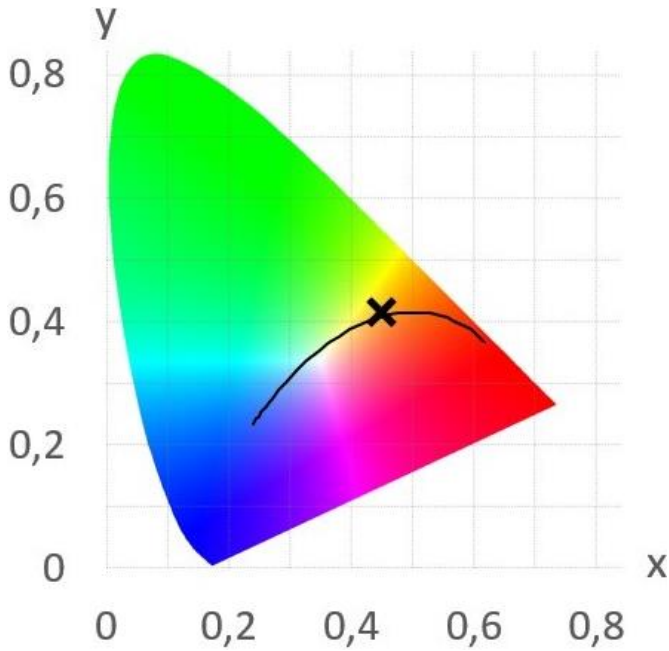
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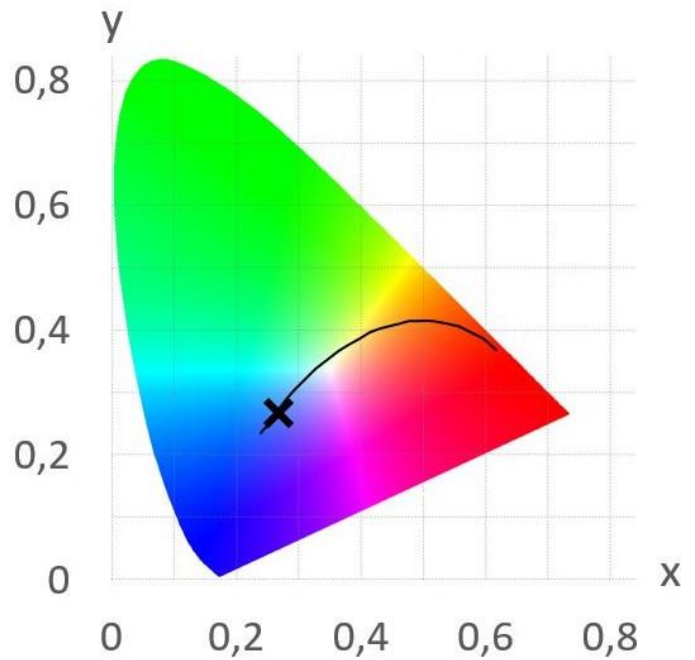
CIE1931 BLUE:



CIE1931 WARM WHITE:

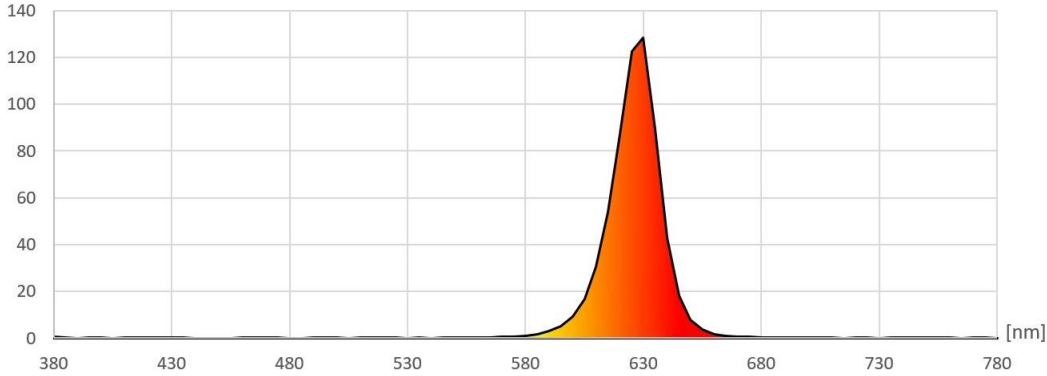


CIE1931 WHITE:



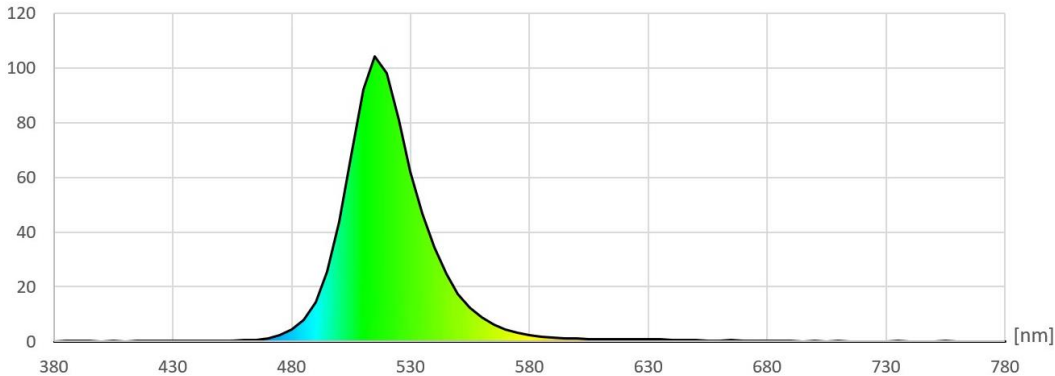
Wavelength RED:

mW/m²/nm

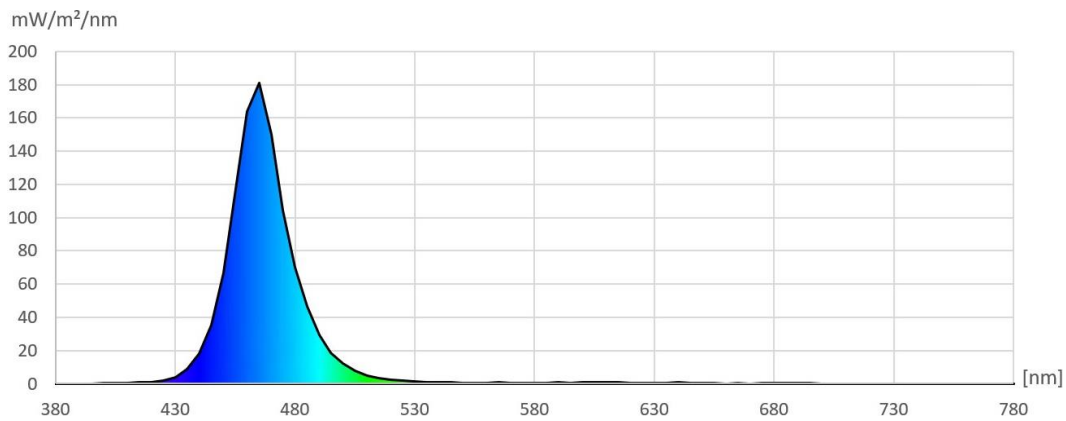


Wavelength GREEN:

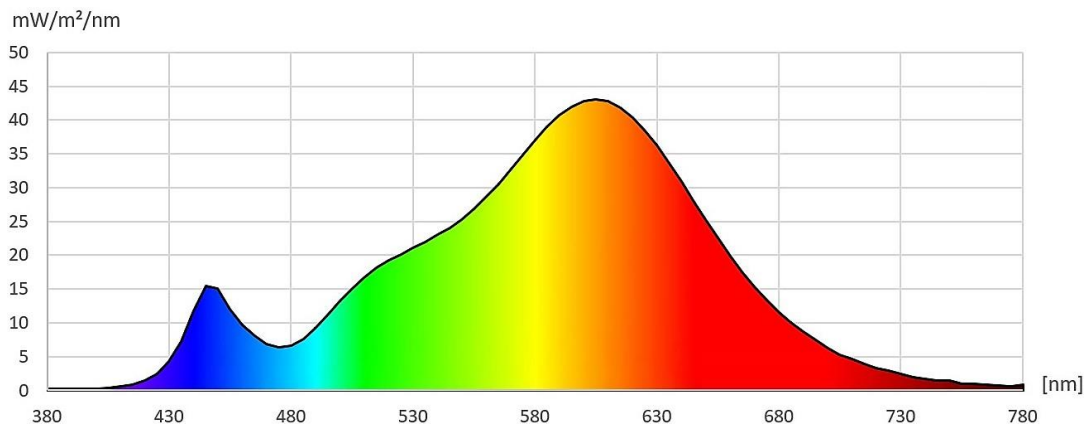
mW/m²/nm



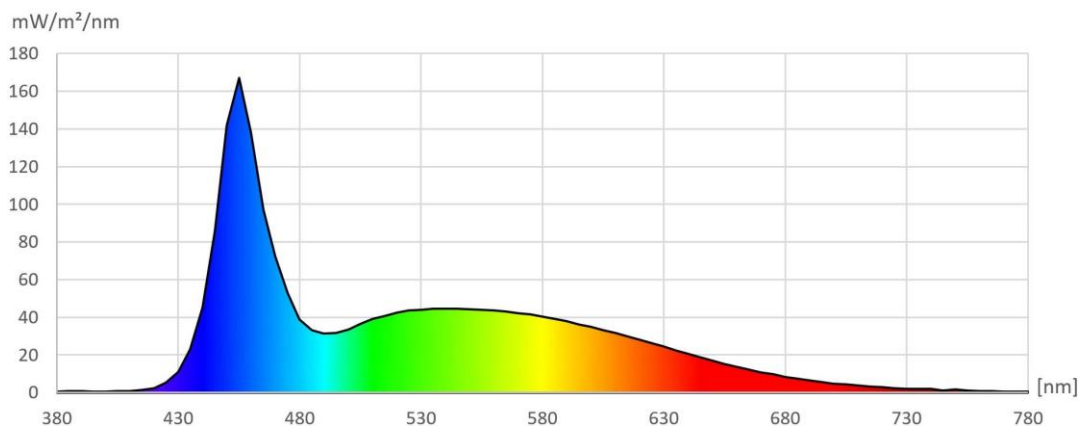
Wavelength BLUE:



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:

- 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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