

Datasheet

LED-strip specification

LED-strip type:

LS24RGBWDMX51260X5050ILX

Description:

**LuxaLight Pixel LED-strip RGB+ Warm White Indoor DMX512 TM-512
(24 Volt, 60 LEDs, 5050, IP20)**



Date:
14-11-2022

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Basic Parameters	
LED Type	5050 SMD
Color	RGB + Warm White
CRI	≥ 80 Ra
Viewing Angle (θ)	120 ±5°
LED Qty	60 LEDs/ mtr
Numbers of channels	4
IC Type	DMX512 (TM-512)
IP grade	IP20
Dimensions	1000 * 12 * 3mm
Weight	20g ~ 30g/ meter
Lifespan	50,000hours
BIN	3 SDCM
Warranty	2 Years

Environment Parameters		Electronic Specifications	
Working Temperature	-25°C ~ +70°C	Working Voltage	DC24V
Storage Temperature	-20°C ~ +60°C	Working Current	0,8A/ mtr
		Working Wattage	19.2 W/ mtr
		Driving Method	Constant Voltage

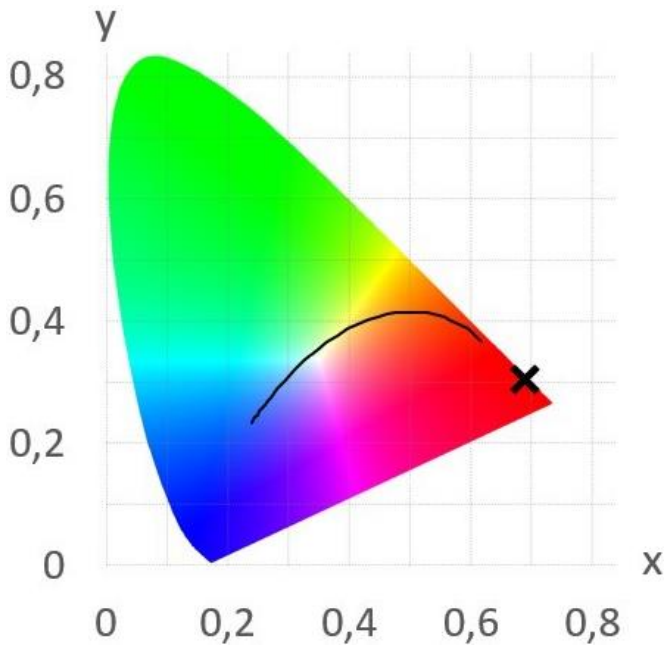
Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	100mm
LEDs / segment	6
Standard length on a reel	10m

Luminous Flux (Lumen/Meter)	
Red	200 Lumen
Green	290 Lumen
Blue	185 Lumen
Warm White	585 Lumen

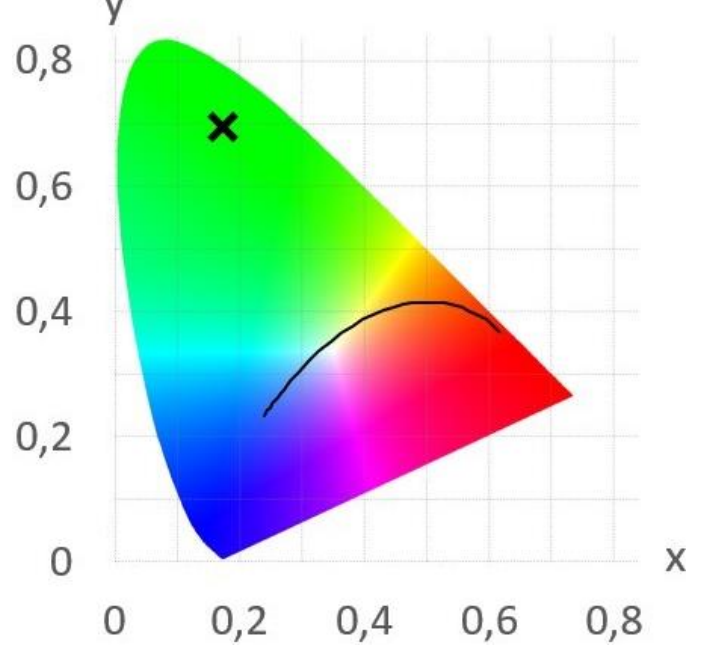
Wavelength/ Color Temperature	(nm/k)
Red	620~630 nm
Green	510~525 nm
Blue	455~470 nm
Warm White	2700 K

Wire color	Symbol	Function description
Black	GND	Ground
Blue	B1	DMX Signal -
Green	A1	DMX Signal +
White	Pi	Program IC
Red	24 V	24V logic power supply

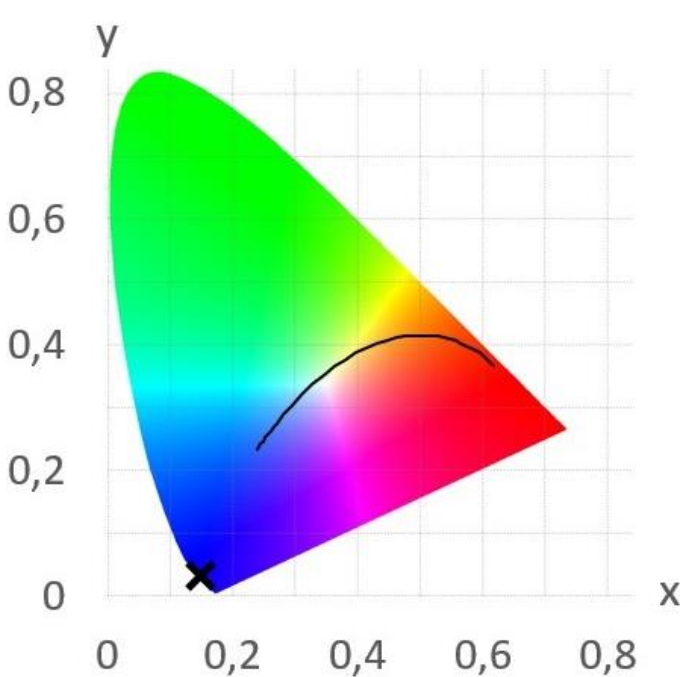
CIE1931 Red:



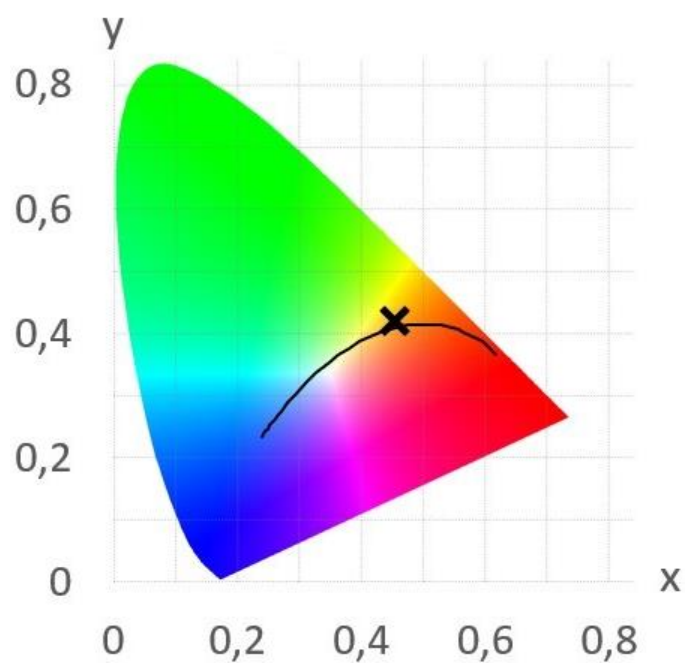
CIE1931 Green:



CIE1931 Blue:

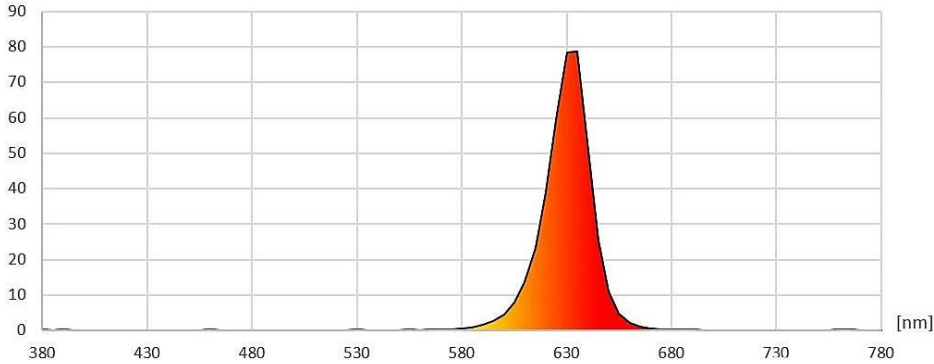


CIE1931 Warm White:



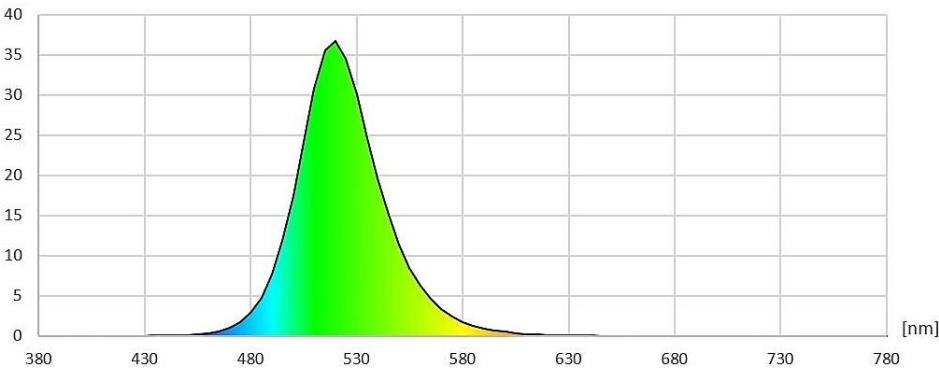
Wavelength Red:

mW/m²/nm



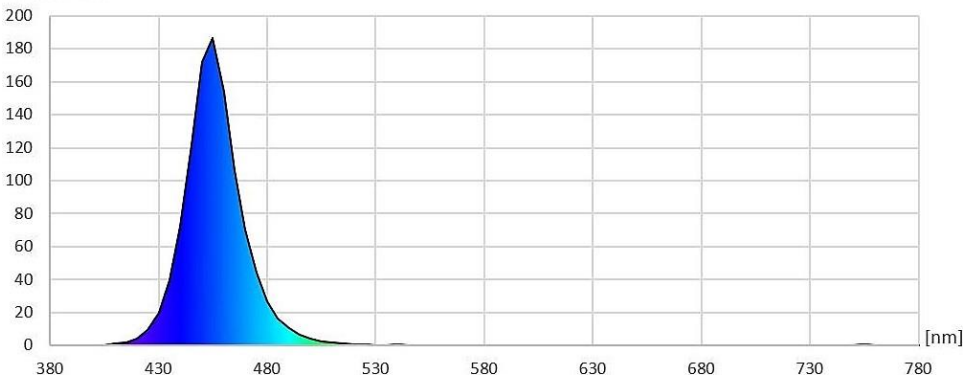
Wavelength Green:

mW/m²/nm



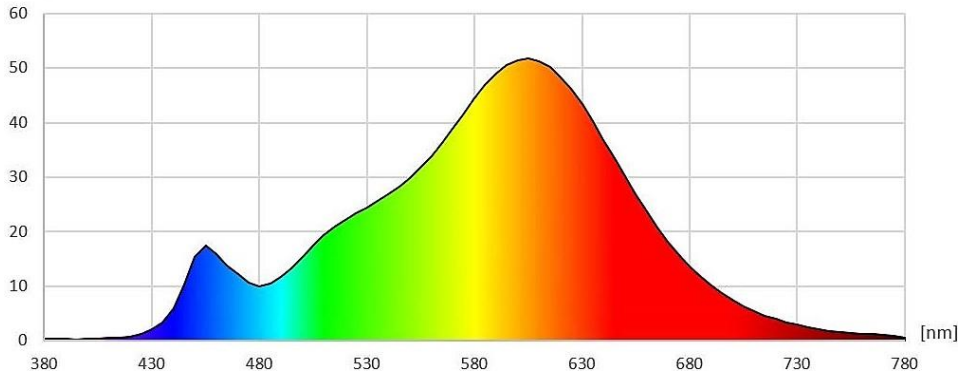
Wavelength Blue:

mW/m²/nm

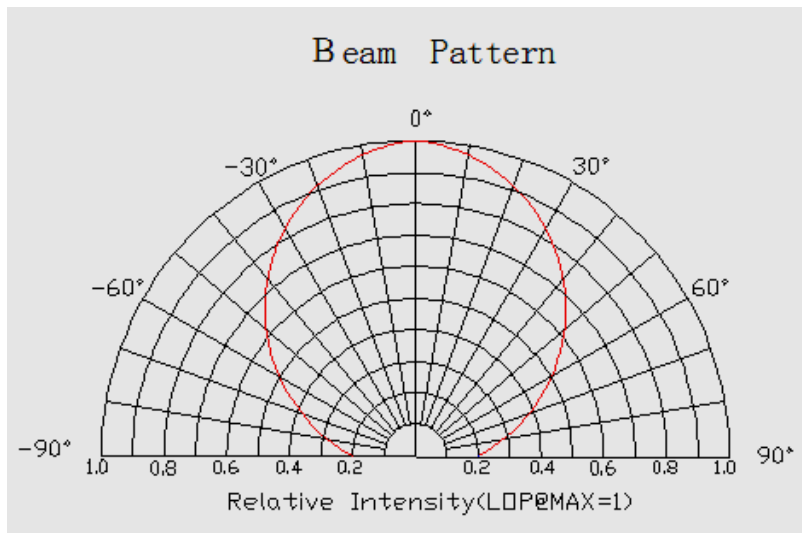


Wavelength Warm White:

mW/m²/nm



Optical Characteristics Curve



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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