

Datasheet

LED-strip specification

LED-strip type:
LS24RGBWW72TM1814ILX

Description:
**LuxaLight Long Life LED-strip TM1814 Digital RGB+ Warm White
High Power Indoor
(24 Volt, 72 LEDs, 5050, IP20)**



Date:
14-12-2021

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Basic Parameters	
LED Type	5050 SMD
Color	RGB+ Warm White
Viewing Angle (θ)	120 ±5°
CRI	≥ 80
LED Qty	72 LEDs/ mtr
Numbers of channels	4
IC type	TM1814
IP grade	IP20
Dimensions	1000 * 10 * 3mm
Weight	20g ~ 30g/ meter
Mounting	3M VHB4905
Lifespan	50,000hours
BIN	3 SDCM
Warranty	2 Years

Environment Parameters		Electronic Specifications	
Working Temperature	-25°C ~ +70°C	Working Voltage	DC 24V
Storage Temperature	-20°C ~ +60°C	Working Current	0.8 A/ mtr
		Working Wattage	19.2 W/ mtr
		Driving Method	Constant Voltage

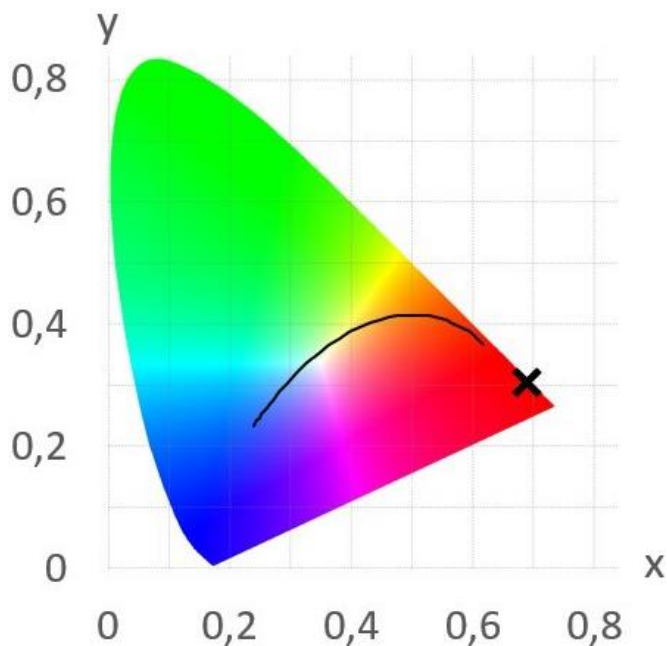
Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	83.33 mm
LEDs / segment	6
Standard length on a reel	10m

Luminous Flux (Lumen/Meter)	
Red	240 Lumen
Green	348 Lumen
Blue	222 Lumen
Warm White	585 Lumen

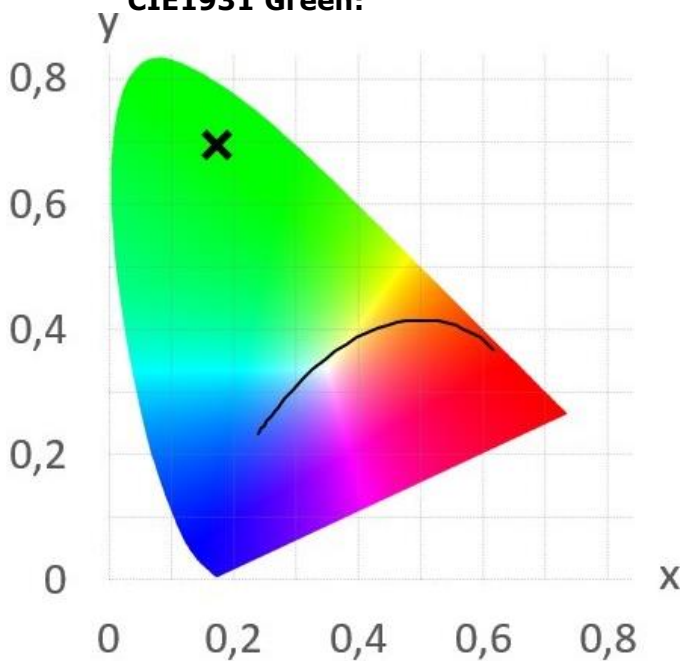
Wavelength/ Color Temperature	(nm/k)
Red	620~630 nm
Green	510~525 nm
Blue	455~470 nm
Warm White	2700 K

Wire color	Symbol	Function description
White/Black	GND	Ground
Green	Di	Data IN
Red	+24V	24V logic power supply

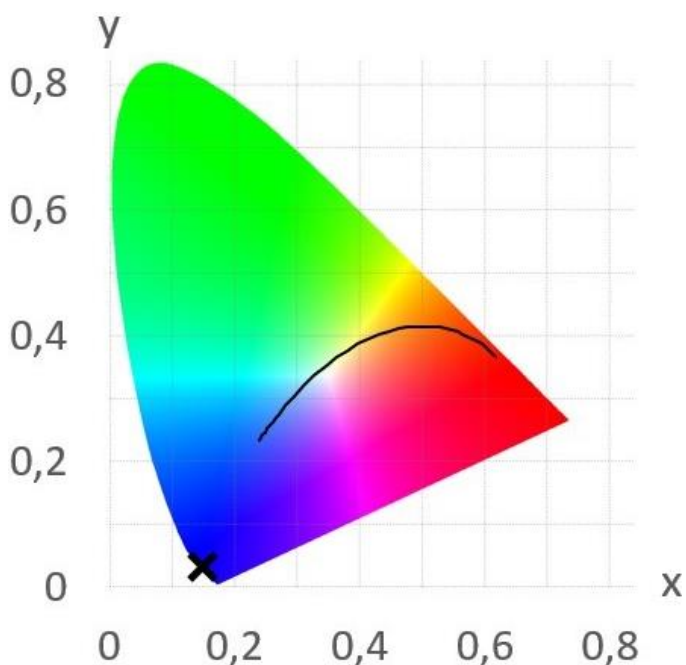
CIE1931 Red:



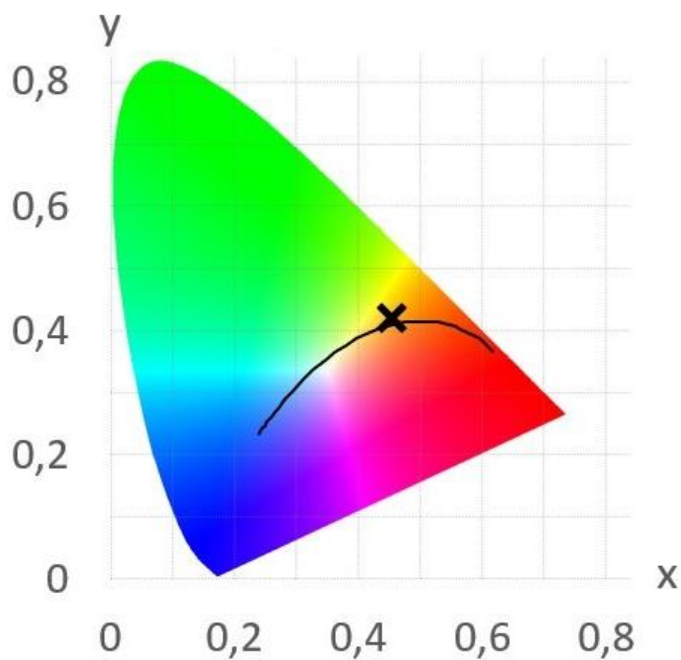
CIE1931 Green:



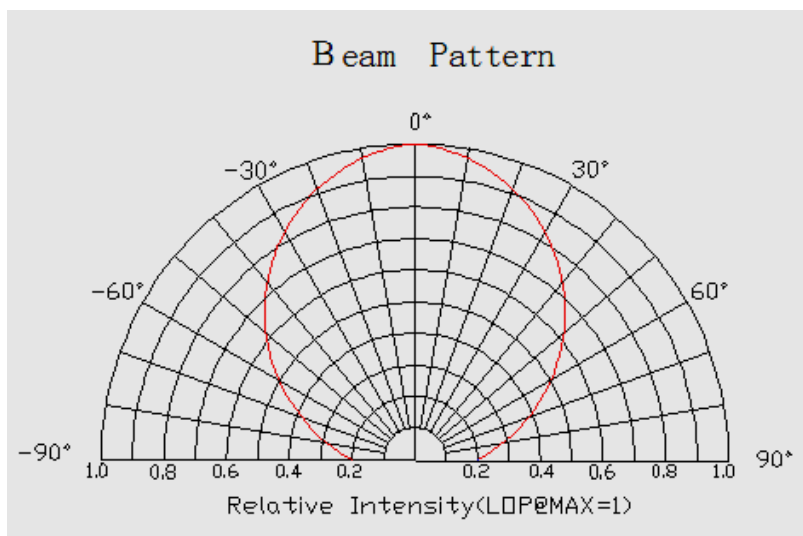
CIE1931 Blue:



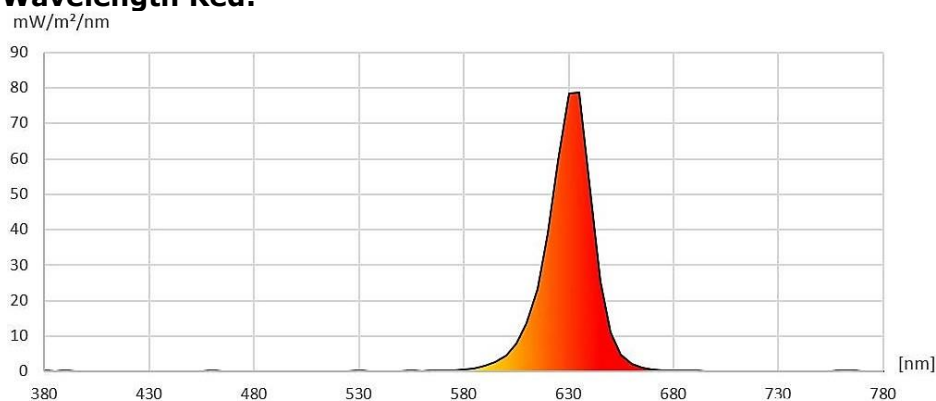
CIE1931 Warm White:



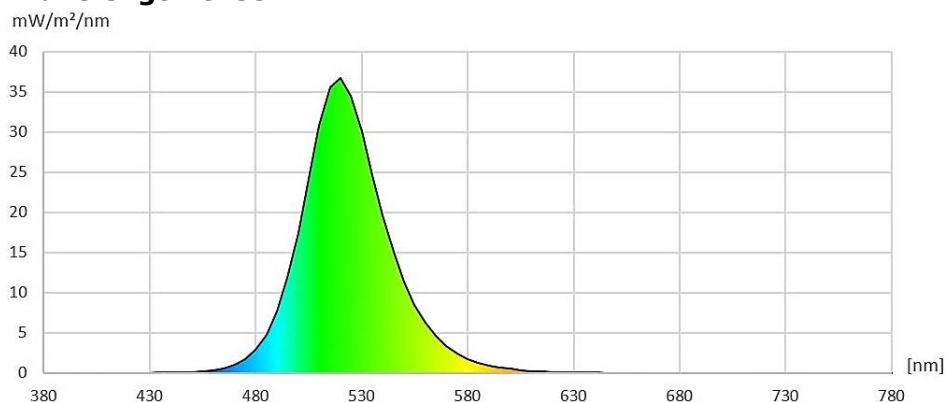
Optical Characteristics Curve:



Wavelength Red:

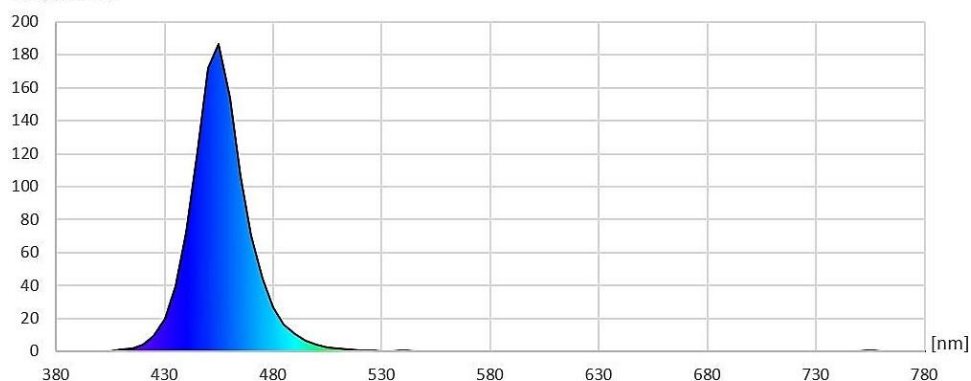


Wavelength Green:



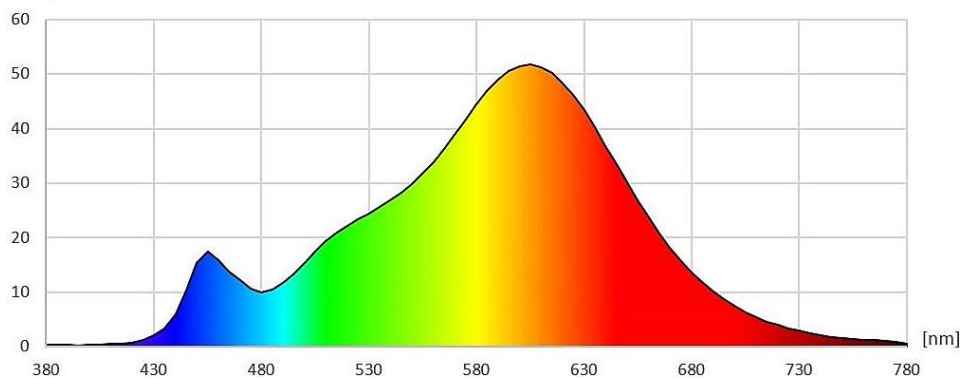
Wavelength Blue:

mW/m²/nm



Wavelength Warm White:

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:

- 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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