

# Datasheet

LED-strip specification

LED-strip type:  
**LS24RGBWW84TM1824PLX**

Description:  
**LuxaLight Pixel LED-strip TM1824 Digital RGB + Warm White  
High Power Protected  
(24 Volt, 84 LEDs, 5050, IP64)**

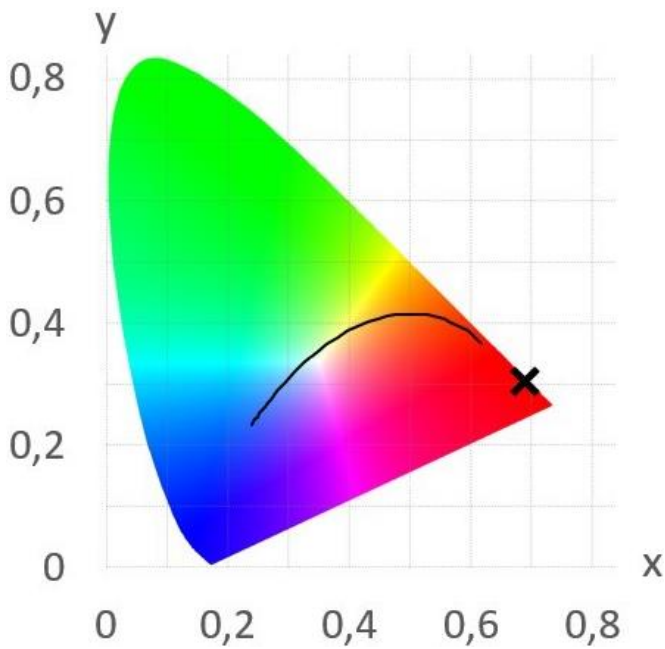


Date:  
30-01-2024

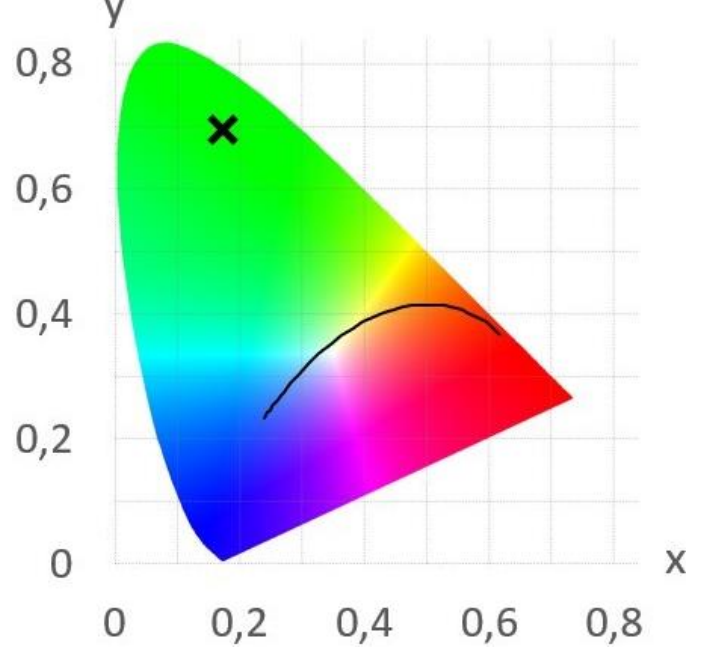
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Technical Specifications					
LS24RGBWW72TM1814PLX					
Mechanical	LED Type	5050 SMD			
	LED Quantity	84 LEDs / m			
	Length per segment	71 mm			
	LEDs / segment	6			
	Length on single reel	10 m			
	Dimensions	10000 x 12 x 4 ( L x B x H )			
	Weight	35g ~40g / m			
	Mounting	3M Tape VHB4905			
	Protection grade	IP64			
	PCB Material	Copper			
Electronic	Working Voltage	DC24V			
	Working Current	0,8 A / m			
	Working Wattage	19,2 Watt / m			
	Driving Method	Constant Voltage			
	Wires	UL1007 20# 150mm			
Environment	Working Temperature	-20°C ~ +60°C			
	Storing Temperature	-25°C ~ +70°C			
	Lifespan	50.000 Hours			
	Warranty	5 Years			
Lighting	Colour channels	Red	Green	Blue	Warm White
	Lumen / meter	240 lm	348 lm	222 lm	585 lm
	Wavelength	620 - 630 nm	510 - 525 nm	455 - 470nm	2700K
	BIN	3 SDCM			
	Viewing Angle	120 ±5°			
IC Protocol	IC Protocol	TM1824			
	Clock Type	No Clock			
	Redundant Data (Data 2)	No			
	Colour Resolution	8 Bits			
	Data transmission frequency	500 - 800 kbps			
	PWM Frequency	1 KHz			
Pin-out	Wire colour	Symbol	Function description		
	Black	GND	Ground		
	Green	DI	Data In		
	Green	DO	Data Out		
	Red	+24V	24V Logic Power Supply		

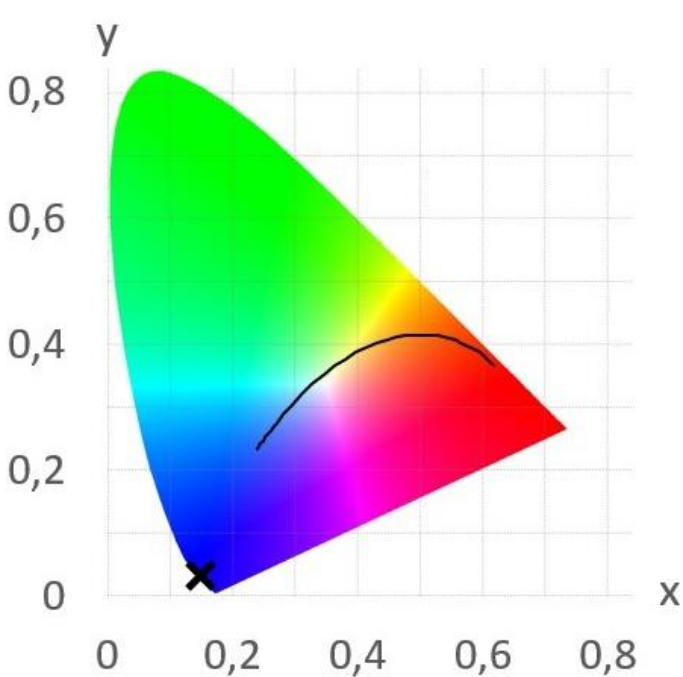
**CIE1931 Red:**



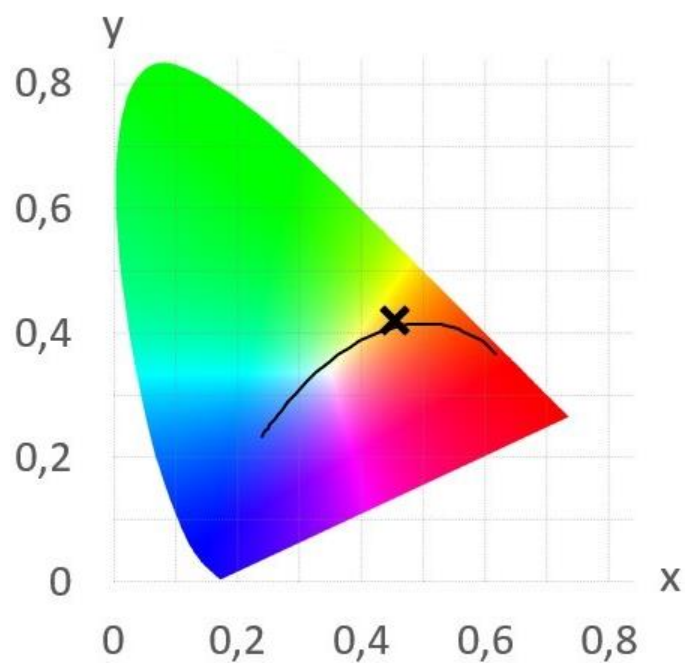
**CIE1931 Green:**



**CIE1931 Blue:**

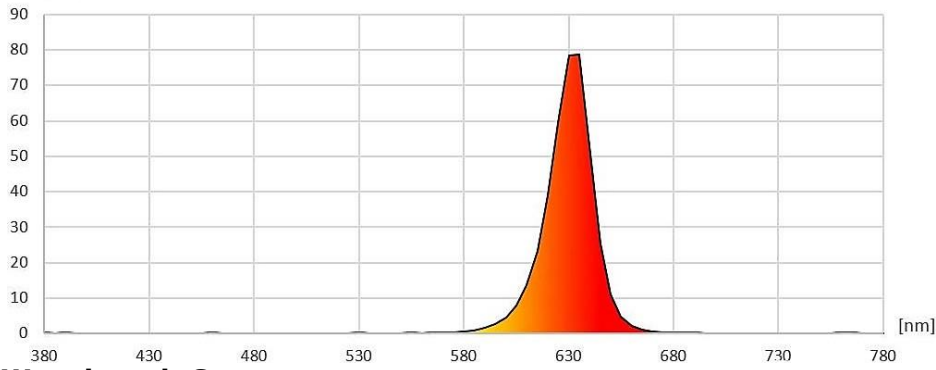


**CIE1931 Warm White:**



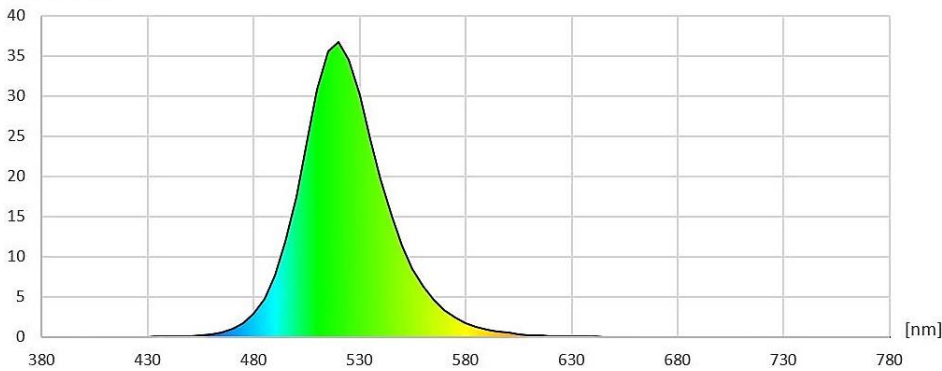
### Wavelength Red:

mW/m<sup>2</sup>/nm



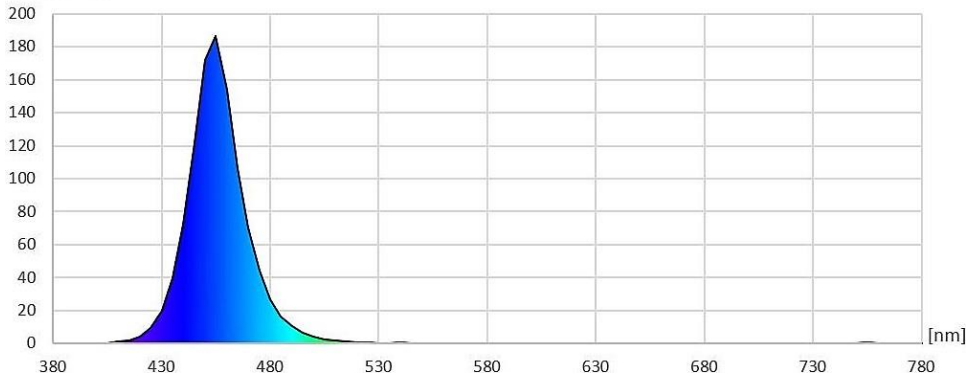
### Wavelength Green:

mW/m<sup>2</sup>/nm



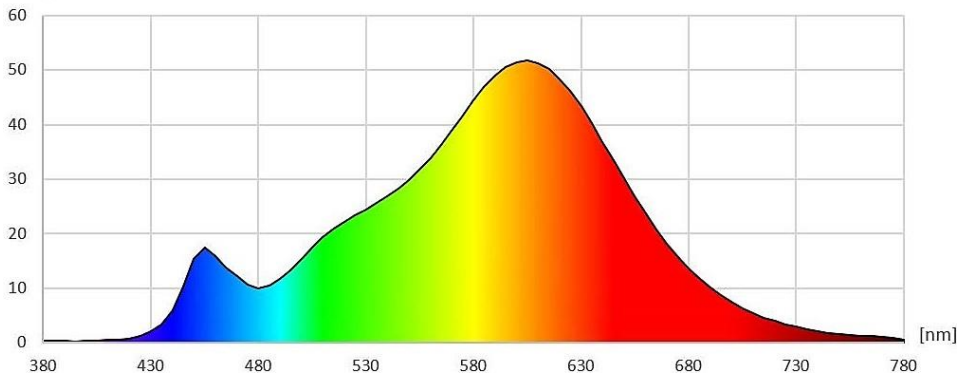
### Wavelength Blue:

mW/m<sup>2</sup>/nm



### Wavelength Warm White:

mW/m<sup>2</sup>/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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