

# Datasheet

LED Strip Specification

LED strip type:

**LS5RGB144APA102CI**

Description:

**LuxaLight LED-strip APA102C Digital SPI RGB Indoor High Power  
(5 Volt, 144 LEDs, 5050, IP20)**



Date:  
11-7-2015

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**Parameters:**

<b>Basic Parameters</b>	
LED Type	5050 SMD
Color	RGB
Viewing Angle (θ)	120 ±5°
LED Qty	144 LEDs / mtr
LEDs per pixel	1
Numbers of channels	3
IC type	APA102 (HD107S)
IP grade	IP64 Silicone
Dimensions	1000 * 12 * 3mm
Weight	35g ~ 40g / meter
Lifespan	50,000hours
LB Value	L80B10
Warranty	2 Years

<b>Environment Parameters</b>	
Working Temperature	-25°C ~ +70°C
Storage Temperature	-20°C ~ +60°C

<b>Electronic Specifications</b>	
Working Voltage	DC 5V
Working Current	8,64A / mtr
Working Wattage	43,2W / mtr
Driving Method	Constant Voltage

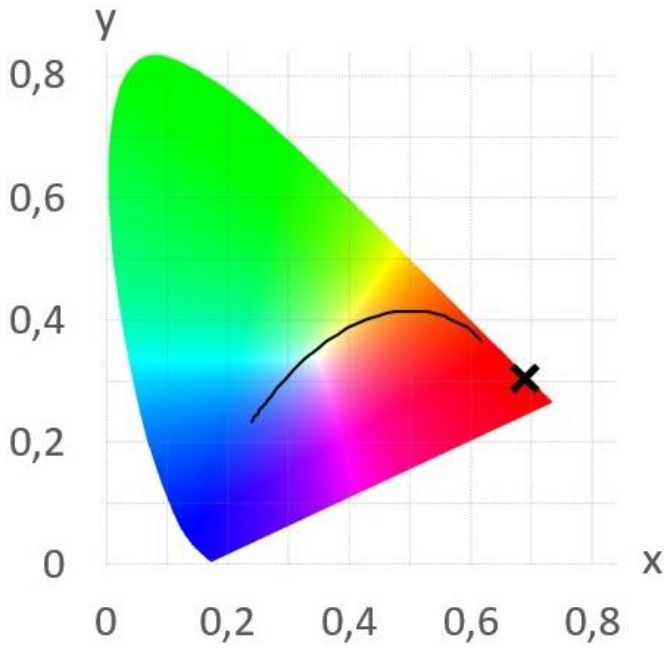
<b>Wires &amp; connection length</b>	
Wires	UL1007 20# 150mm
Length per segment	16.67 mm
LEDs / segment	1
Standard length on a reel	10m

<b>Luminous Flux (Lumen/Meter)</b>	
Red	200 Lumen
Green	290 Lumen
Blue	185 Lumen

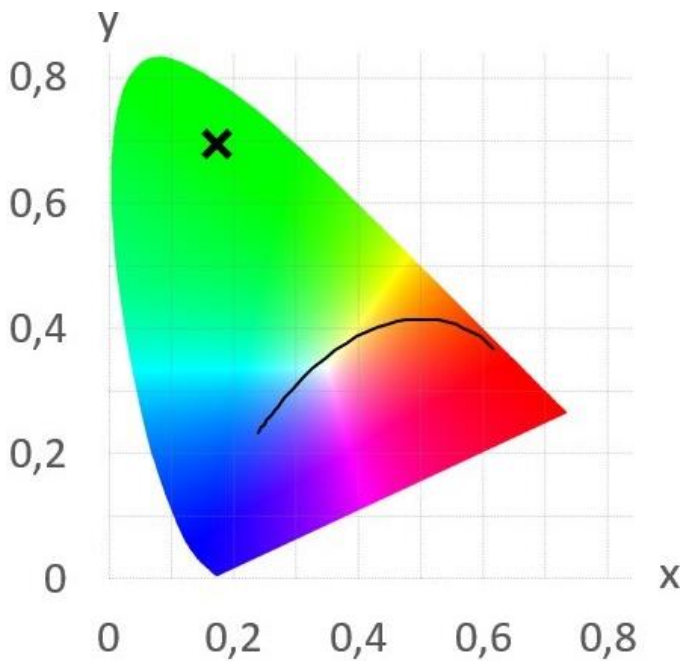
<b>Wave Length/ Color Temperature</b>	<b>(nm/k)</b>
Red	620~630 nm
Green	510~525 nm
Blue	455~470 nm

<b>Wire color</b>	<b>Symbol</b>	<b>Function description</b>
White	GND	Ground
Green	D1	Data 1
Blue	D2	Data 2
Red	+5V	5V logic power supply

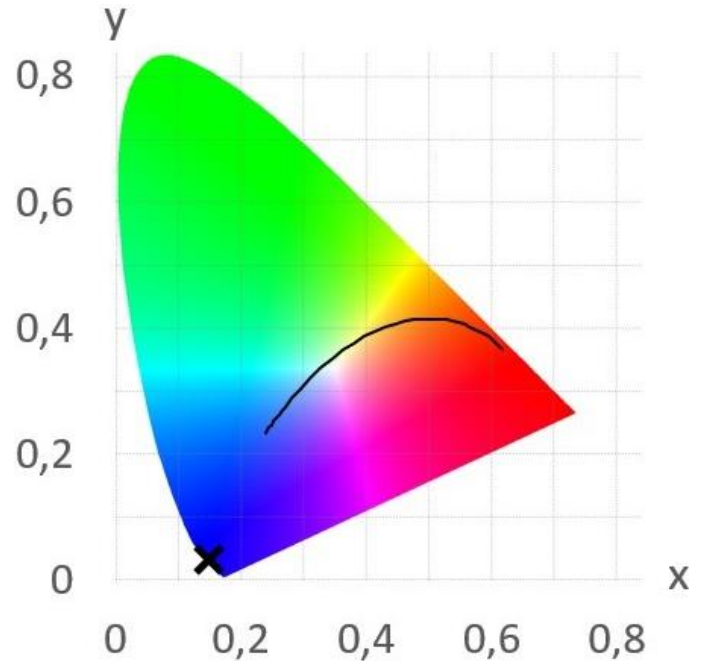
**CIE1931 RED:**



**CIE1931 Green:**

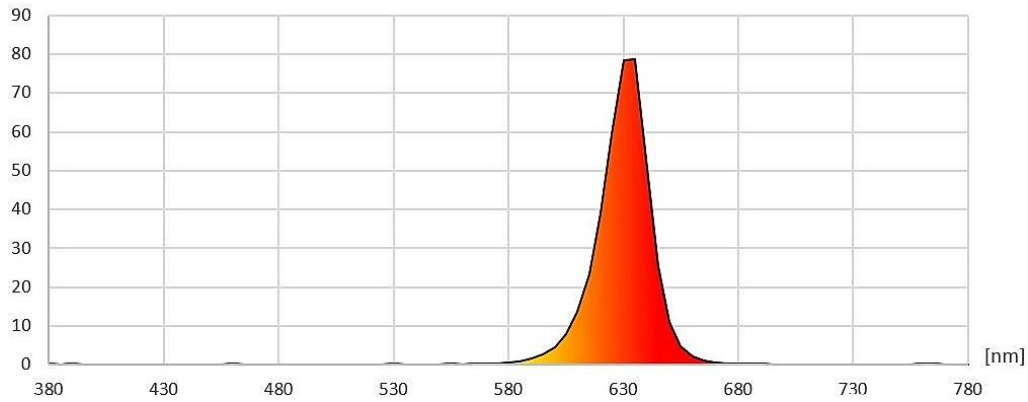


**CIE1931 Blue:**



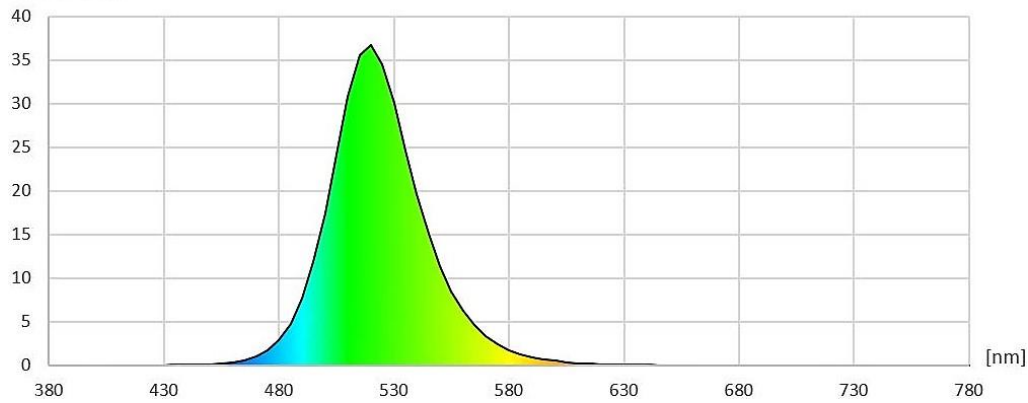
### Wave Length Red:

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



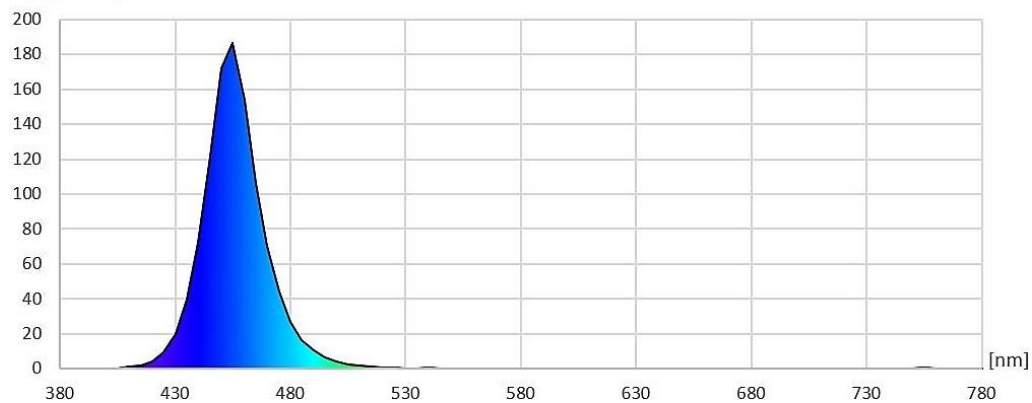
### Wave Length Green:

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



### Wave Length Blue:

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



## The Materials of PCB:

Epoxy PCB with white finishing.  
Conducting Tracks: Cu, 35um thickness, double sided.

Solderings:  
Solder Alloy: 99.3 Sn, 0.7 Cu,  
Melting Temperature: 227°C  
No SVHC (17-Dec-2014)

## Certificate of Conformity:

EC Council Directive 2004/108/EC  
Electromagnetic Compatibility

Complies to the Standards:

- EN 55015: 2006 + A1: 2007 + A2: 2009
- EN 61000-3-2: 2006 + A1: 2009 + A2: 2009
- EN 61000-3-3: 2008
- EN 61547: 2009

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