

Datasheet

LED Strip Specification

LED strip type:
NF24RGB60WS2812LXFLAT

Description:
**WS2812B (SM16703) LuxaLight LED Neon Flex Flat View RGB
(24 Volt, 60 LEDs, 5050, IP67)**



Date:
23-04-2019

Page 1 of 6

Features:

- Super bright SMD5050 LED as the light source, high brightness, wide beaming angle with good consistent aperture and no shadow
- Use double-side imported rolled copper FPC, good folding endurance disconnected
- Low voltage DC24V, constant voltage drive
- Long life time is up to 30,000 hours
- All raw materials comply with CE, RoHs



Parameters:

Basic Parameters	
LED Type	WS2812B (SM16703)
Color	RGB
CRI	≥ 80 Ra
Viewing Angle (θ)	120 ±5°
LED Qty	60 LEDs/ mtr
IP grade	IP67
Dimensions Reel	5000 * 12 * 20mm
Weight	105 ~ 120g / meter
Lifespan	30,000hours
Warranty	2 Years

Environment Parameters		Electronic Specifications	
Working Temperature	-25°C ~ +70°C	Working Voltage	DC24V
Storage Temperature	-20°C ~ +60°C	Working Current	0.4A / mtr
		Working Wattage	9.6W / mtr
		Driving Method	Constant Voltage

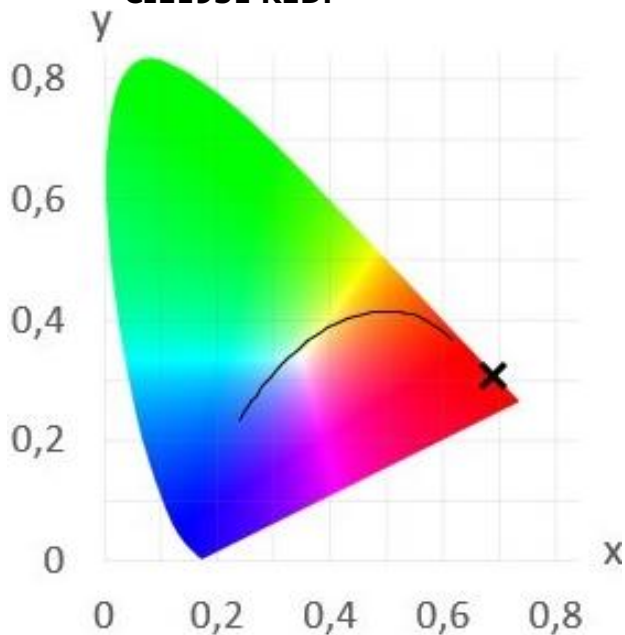
Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	100mm
LEDs / segment	6
Standard length on a reel	10m

Luminous Flux (Lumen/Meter)	
Red	80 Lumen
Green	116 Lumen
Blue	71 Lumen

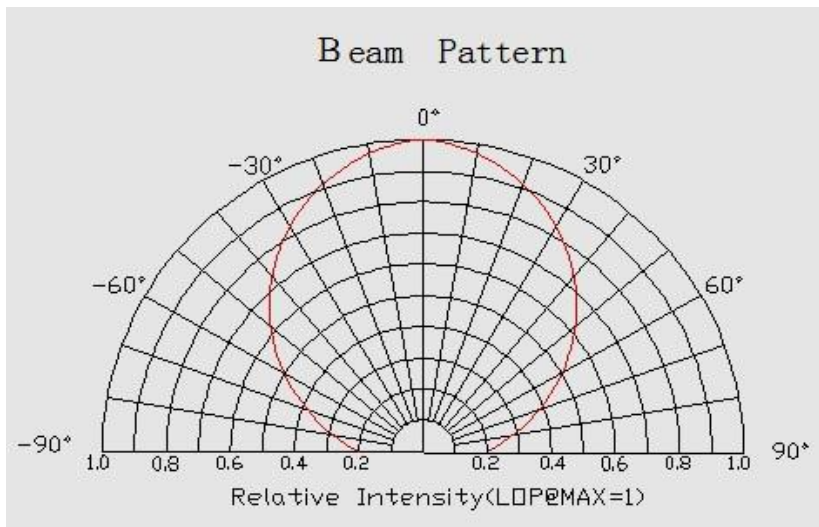
Wave Length/ Color Temperature	(nm/k)
Red	620~630 nm
Green	510~525 nm
Blue	455~470 nm

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

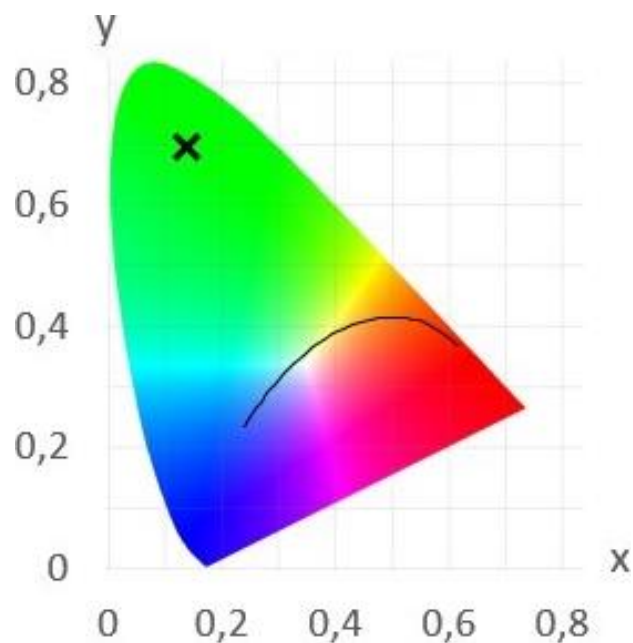
CIE1931 RED:



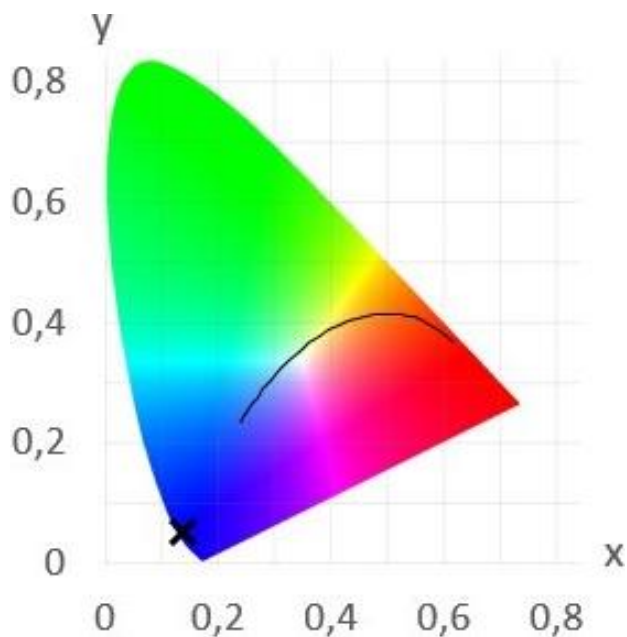
Optical Characteristics Curve:



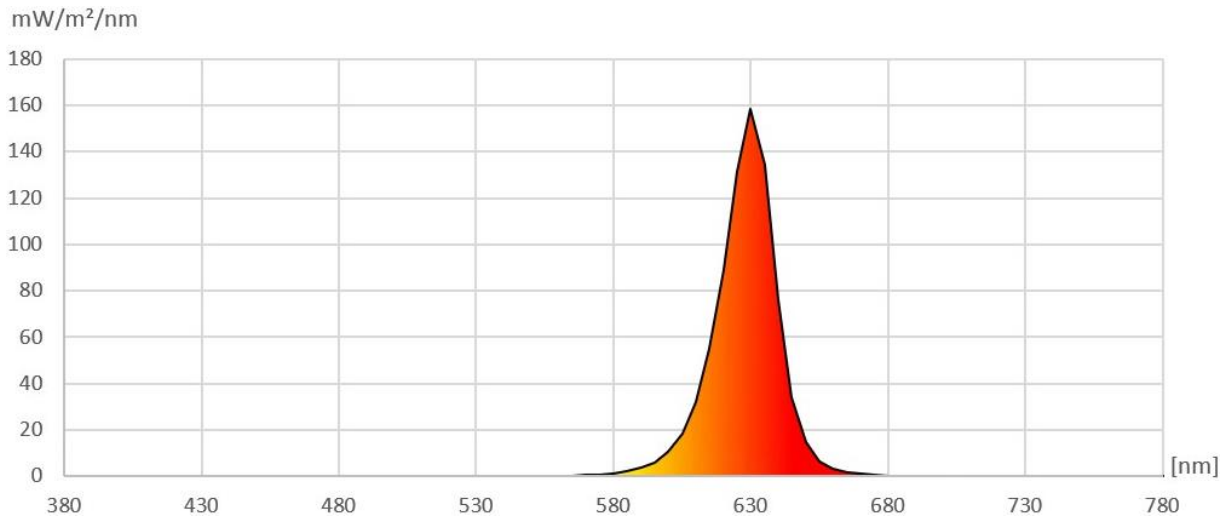
CIE1931 GREEN:



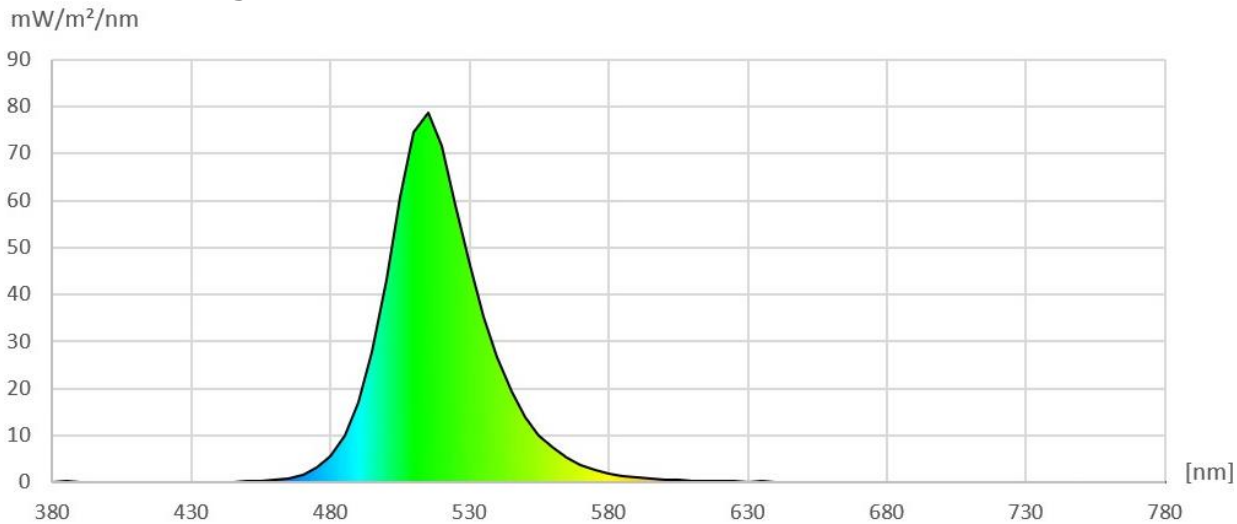
CIE1931 BLUE:



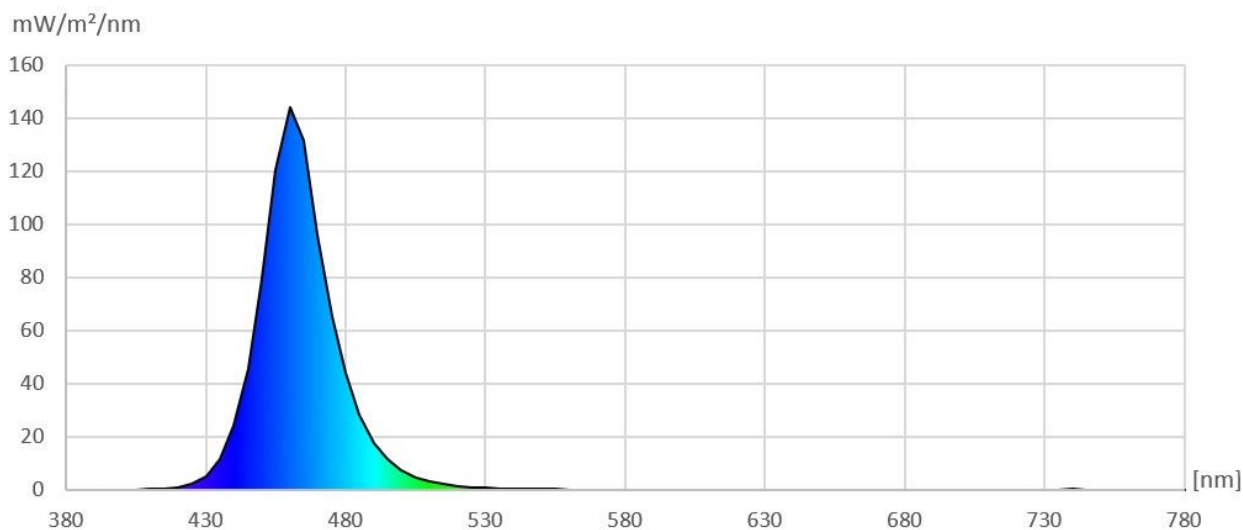
Wave Length RED:



Wave Length GREEN:



Wave Length BLUE



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

While LuxaLight has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does LuxaLight make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. LuxaLight reserves the right to make any adjustments to the information contained herein at any time without notice. LuxaLight expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult LuxaLight for the latest dimensions and design specifications.