

Datasheet

LED Strip Specification

LED strip type:
LS24RGBWW84X5050PLX

Description:
**LuxaLight Long Life LED Strip 24V Full-Color + Warm White + White
High Power Protected 5050
(24 Volt, 84 LEDs, 5050, IP64)**



Date:
11-7-2018

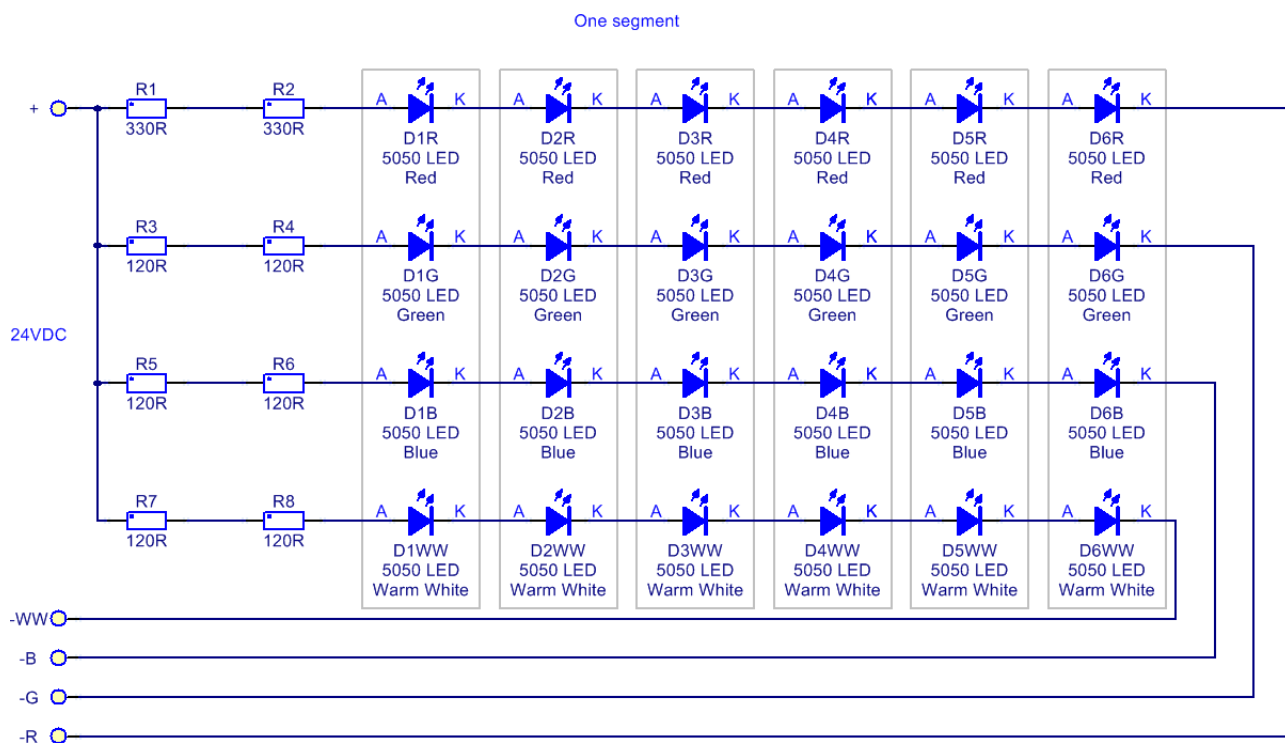
Page 1 of 7

Features:

- Super bright SMD5050 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 100,000 hours
- All raw materials comply with CE, RoHS



Circuit Diagram:



Applications:

- Advertising Industry: slim light box, backlight of illuminated letters and outline of illuminated signs
- Decoration Industry: light decoration and interior lighting for all types of shops, super markets, furniture, etc
- Back lighting: back lighting and ideal atmosphere creating for leisure and entertainment places



Parameters:

Basic Parameters	
LED Type	5050 SMD
Color	RGBWW+W
CRI	≥ 90 Ra
Viewing Angle (θ)	120 ±5°
LED Qty	84 LEDs / mtr
IP grade	IP64
Dimensions Reel	10000 * 12 * 3mm
Weight	70g ~ 80g / meter
Lifespan	MTBF > 100,000 hours

Environment Parameters	
Working Temperature	-25°C ~ +70°C
Storage Temperature	-20°C ~ +60°C

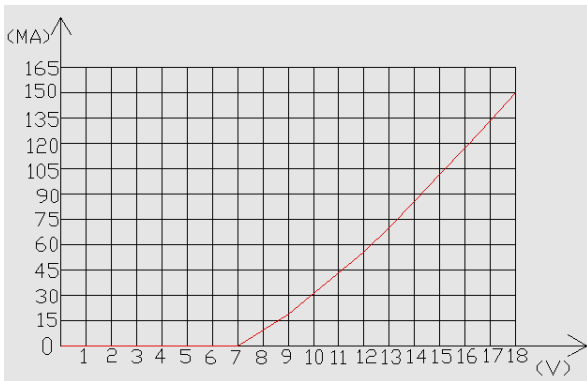
Electronic Specifications	
Working Voltage	DC24V
Working Current	1A / mtr
Working Wattage	24W / mtr
Driving Method	Constant Voltage

Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	83.3 mm
LEDs / segment	7
Standard length in serial connection	5m
Maximum length in serial connection	5m

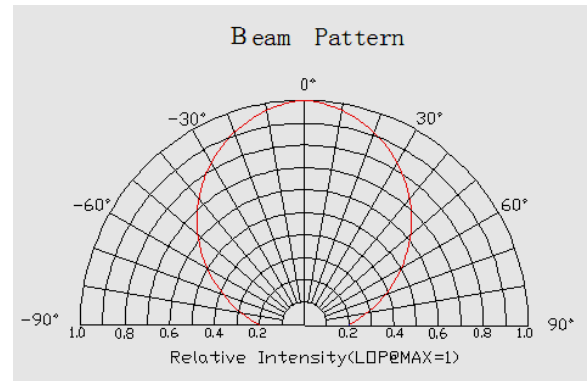
Luminous Flux (Lumen/Meter)	
Red	300 ~ 360 Lumen
Green	390 ~ 410 Lumen
Blue	285 ~ 295 Lumen
Warm White	1200 Lumen

Wave Length/ Color Temperature	(nm/k)
Red	620 ~ 630 nm
Green	520 ~ 530 nm
Blue	450 ~ 470 nm
Warm White	2500 ~ 3000 K

Volt-ampere Characteristic Curve:



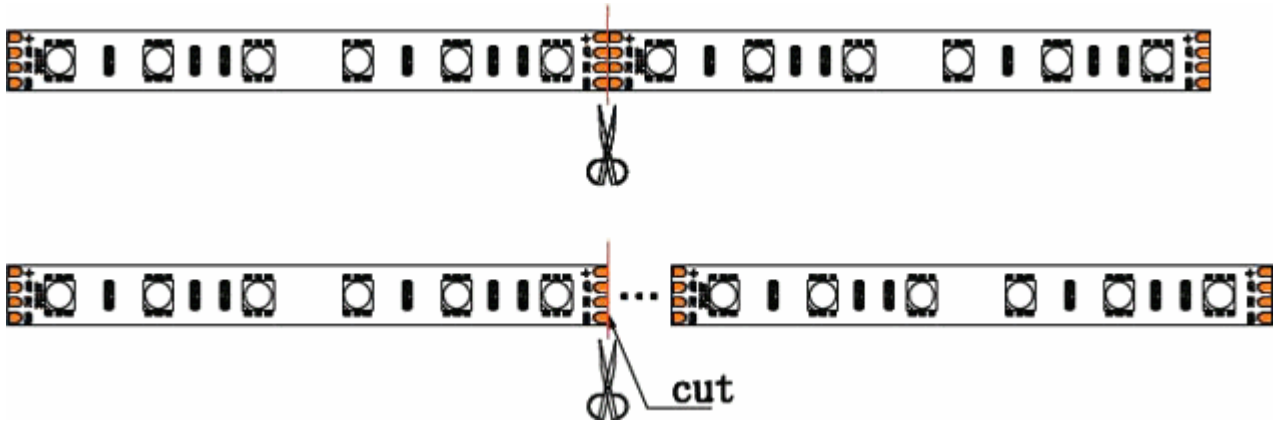
Optical Characteristics Curve:



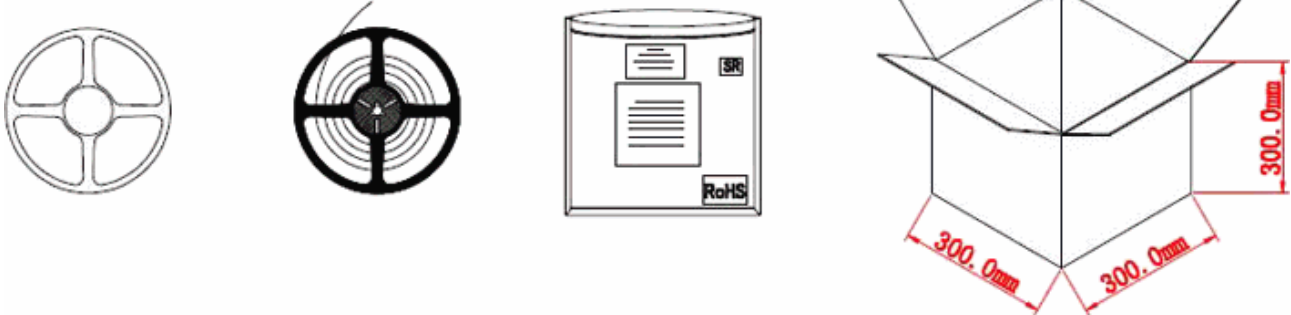
The Materials of PCB:

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)



Packing:



Certificate of Conformity:

EC Council Directive 2004/108/EC
Electromagnetic Compatibility
Registration No.: ATE20120944

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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