# LuxaLight®

# Datasheet

LED Strip Specification

LED strip type:
**LS24RGBDMX51260X5050ILX**
Description:
**DMX512 (UCS512) LuxaLight Long Life LED Strip Full-color Indoor
(24 Volt, 60 Leds, 5050, IP20)**

CE   RoHS
2002/95/EC

Date:
01-02-2017

**Parameters:**

| Basic Parameters | |
|---|---|
| LED Type | 5050 SMD |
| Color | RGB |
| Viewing Angle (θ) | 120 ±5° |
| LED Qty | 60 LEDs / mtr |
| IP grade | IP20 |
| IC Chip | DMX512 (UCS512) |
| Pixels | 6 leds (segment 100mm) 3 DMX channels |
| Dimensions | 1000 * 12 * 3mm |
| Weight | 35g ～ 40g / meter |
| Lifespan | 70,000hours |
| LB Value | L80B10 |
| Warranty | 2 Years |

| Environment Parameters | |
|---|---|
| Working Temperature | -25℃ ～ +70℃ |
| Storage Temperature | -20℃ ～ +60℃ |

| Electronic Specifications | |
|---|---|
| Working Voltage | DC24V |
| Working Current | 3x 0.2A / mtr |
| Working Wattage | 14.4W / 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 |
| Black | Ground (GND) |
| Red | Logic power supply (+5V) |
| Green | Data – (D-) |
| Blue | Data +  (D+) |
| Yellow | Address writing (AW) |

| Luminous Flux (Lumen/Meter) | |
|---|---|
| Red | 200 Lumen |
| Green | 290 Lumen |
| Blue | 185 Lumen |

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

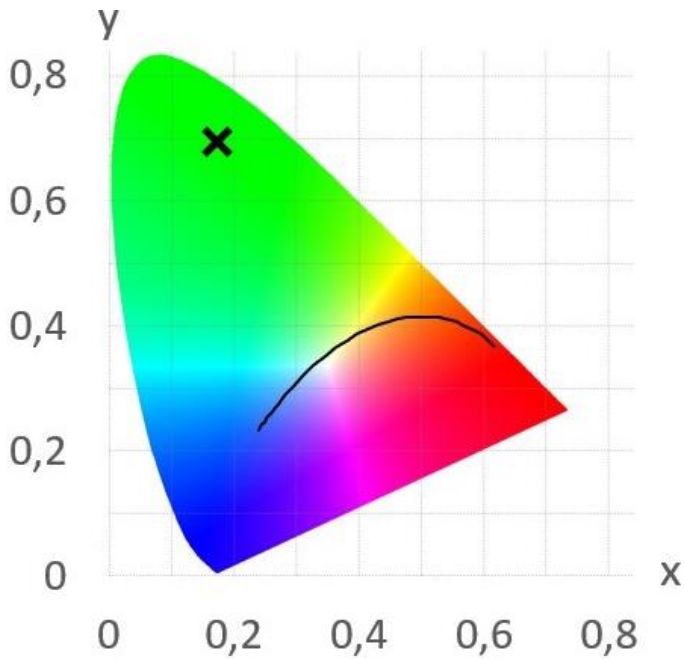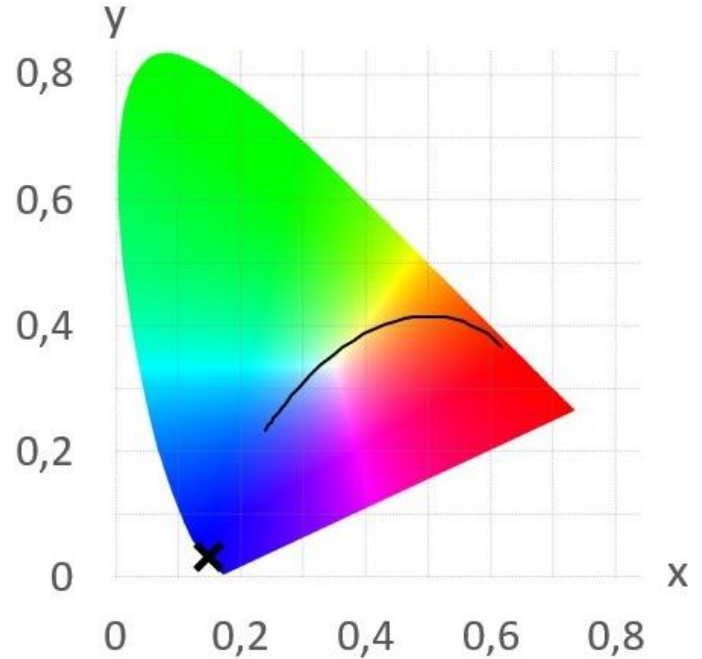| Wire color | Symbol | Function description |
|---|---|---|
| White | GND | Ground |
| Blue | B1 | DMX Signal - |
| Red | A1 | DMX Signal + |
| Green | Pi | Program IC |
| Black | 24 V | 24V logic power supply |

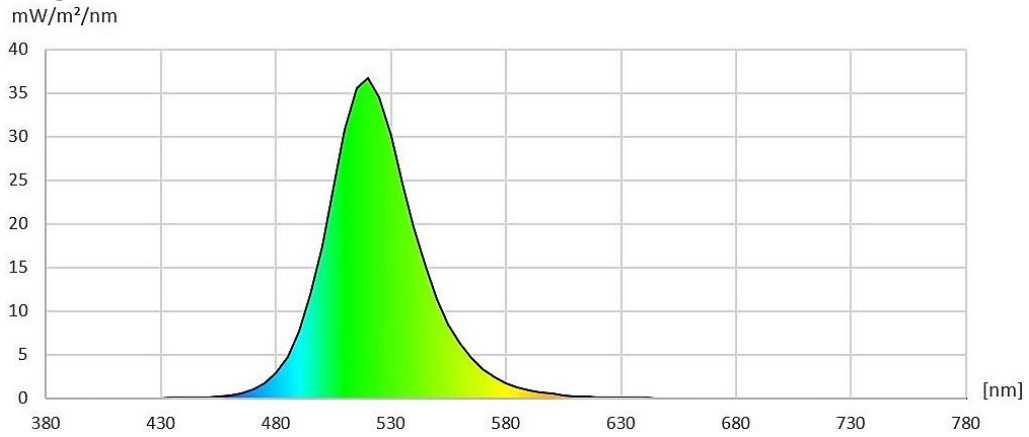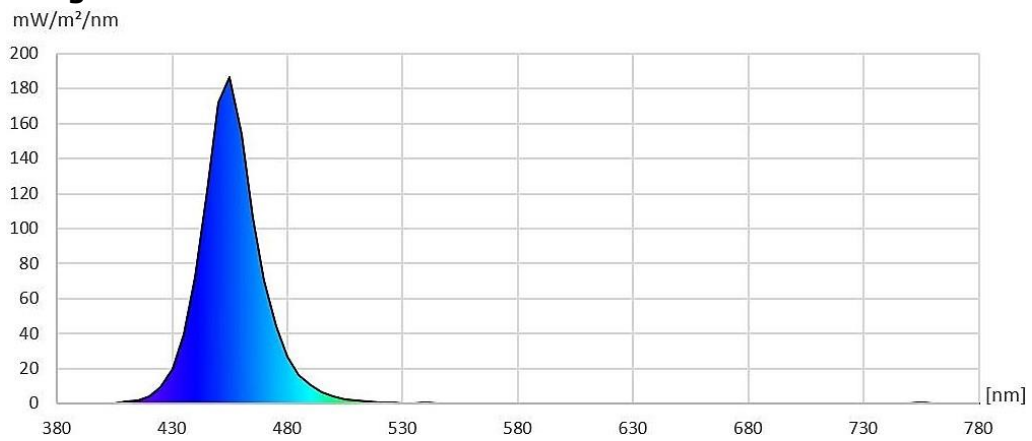**CIE1931 RED:**
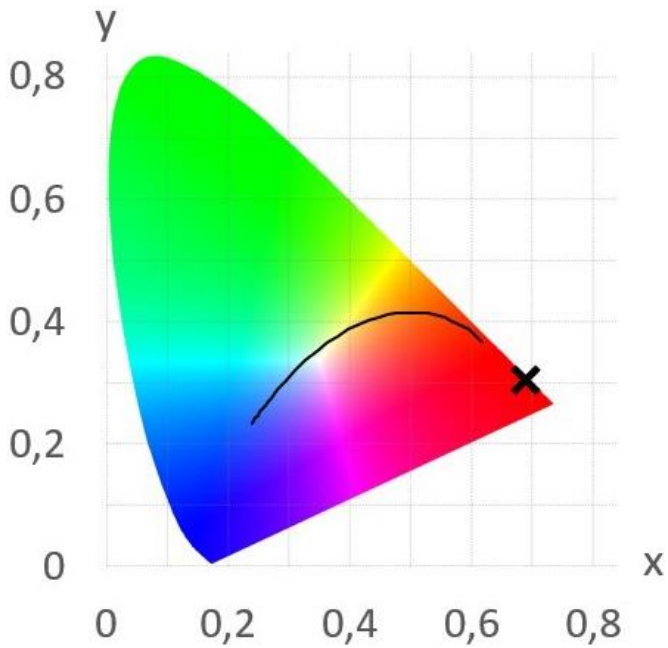
**Optical Characteristics curve:**
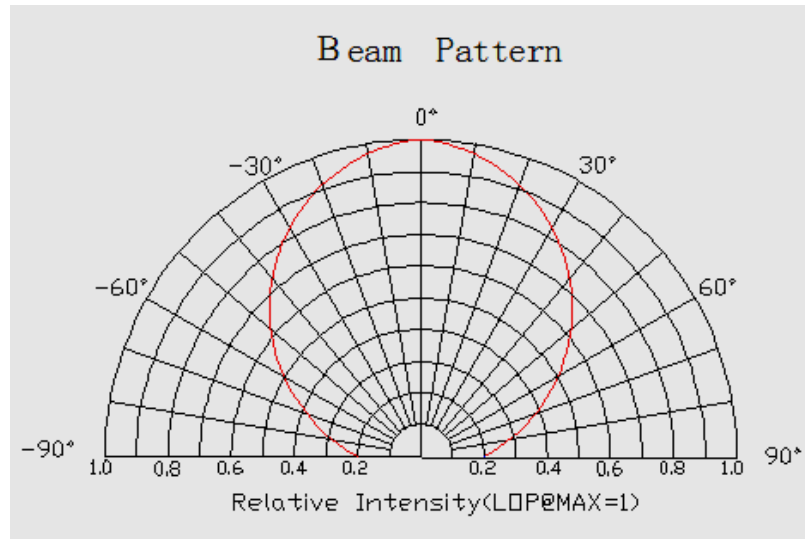
**CIE1931 Green:**

**CIE1931 Blue:**

**Wave Length Red:**

mW/m²/nm



**Wave Length Green:**

mW/m²/nm



**Wave Length Blue:**

mW/m²/nm
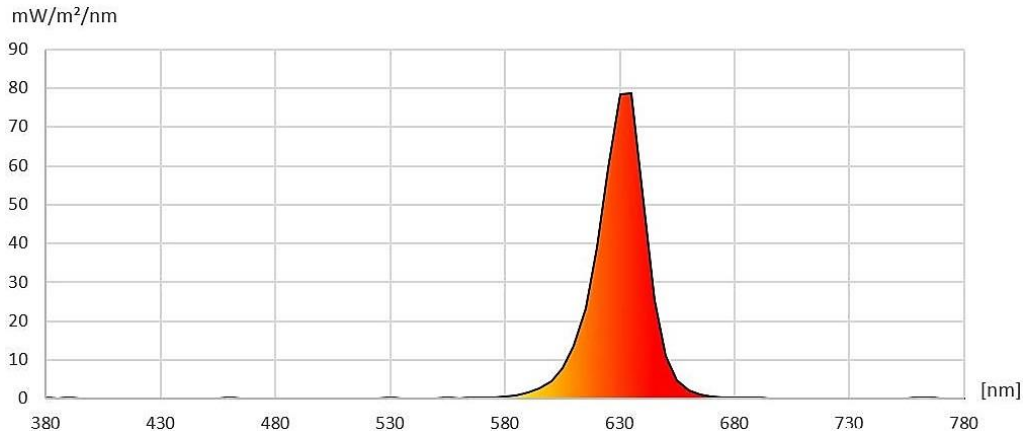
**The Materials of PCB:**

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