

Datasheet

LED-strip specification

LED-strip type:
LS24B140X2835PLX

Description:
**LuxaLight LED-strip 24V Blue Protected 2835
(24 Volt, 140 LEDs, 2835, IP64)**

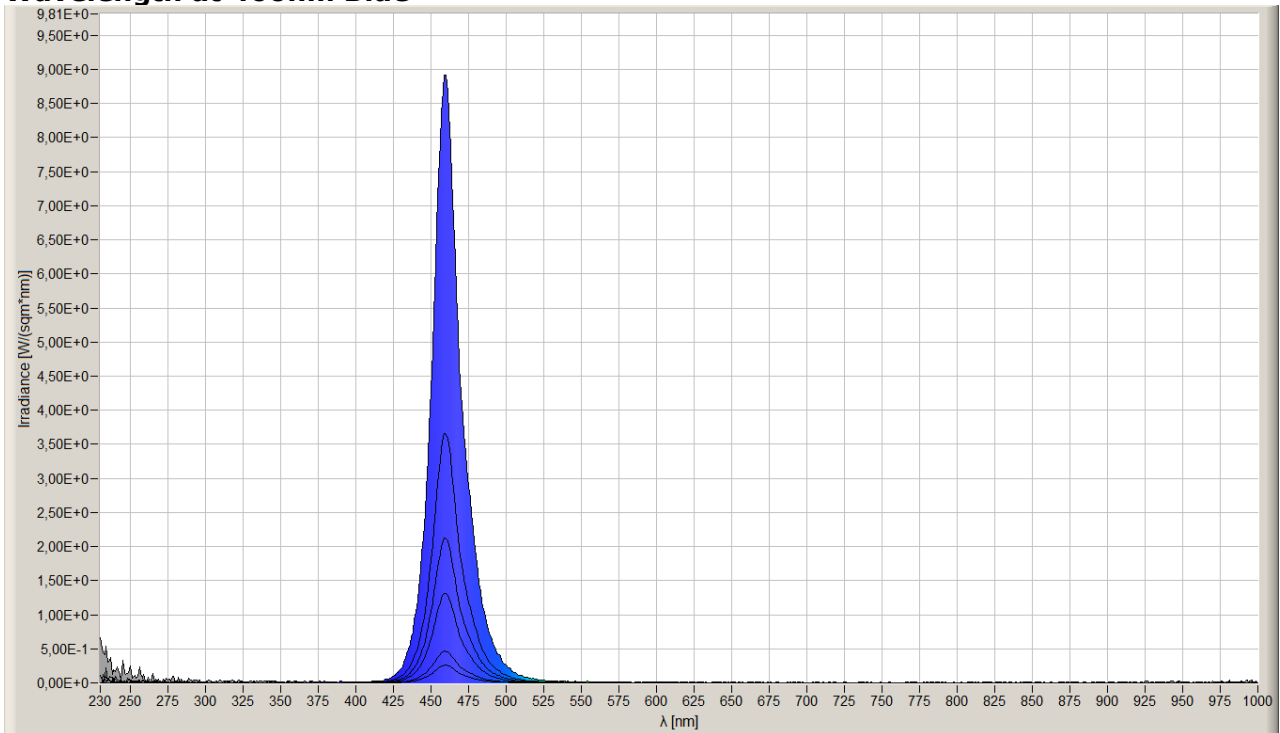


Date:
24-05-2022

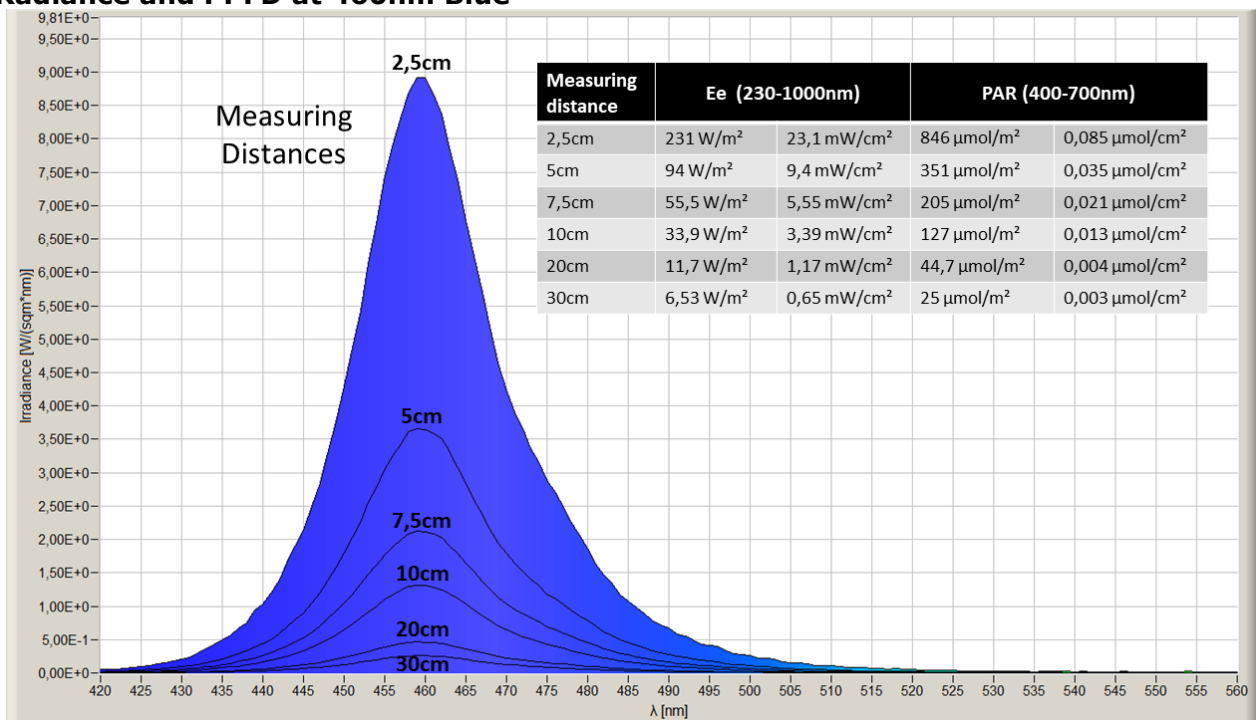
Page 1 of 5

| Technical Specificaties | | | |
|-------------------------|--|------------------------------|--------------------------|
| LS24B140X2835PLX | | | |
| General | LED Type | 2835 SMD | |
| | LED Quantity | 140 LEDs/m | |
| | Dimensions | 10000 * 10 * 4 (L x B x H) | |
| | Weight | 35 ~ 50g / meter | |
| | Mounting | 3M tape VHB4905 | |
| Environment | Working Temperature | -20°C ~ +70°C | |
| | Storing Temperature | -20°C ~ +70°C | |
| | IP Grade | IP64 | |
| | Mechanical Protection | Silicone Coating | |
| | Lifetime | 70.000 Hours | |
| | Warranty | 5 Years | |
| Electronic | Working Voltage | DC24V | |
| | Working Current | 1 A / Engine | |
| | Working Wattage | 24 W / Engine | |
| | Driving Method | Constant Voltage | |
| Lighting | Engine Wavelength (nm) | 460nm Blue | |
| | Peak Measured Wavelength (5cm) | 460nm | |
| | Peak Measured Radiance per distance (cm) Product length = 200mm | 2,5 | 1,83 W/m ² |
| | | 5 | 0,73 W/m ² |
| | | 7,5 | 0,42 W/m ² |
| | | 10 | 0,28 W/m ² |
| | | 20 | 0,1 W/m ² |
| | | 30 | 0,05 W/m ² |
| | Total Radiance per distance 230nm - 1000nm (cm) Product length = 200mm | 2,5 | 60,3 W/m ² |
| | | 5 | 27,8 W/m ² |
| | | 7,5 | 15,9 W/m ² |
| | | 10 | 11,8 W/m ² |
| | | 20 | 5,72 W/m ² |
| | Total µmol/m ² (PAR 400-700nm) Product length = 200mm | 2,5 | 846 µmol/m ² |
| | | 5 | 351 µmol/m ² |
| | | 7,5 | 205 µmol/m ² |
| | | 10 | 127 µmol/m ² |
| | | 20 | 44,7 µmol/m ² |
| | Illuminance per distance (klx) Product length = 200mm | 2,5 | 12,3 klx |
| | | 5 | 5,1 klx |
| | | 7,5 | 3 klx |
| 10 | | 1,8 klx | |
| 20 | | 0,6 klx | |
| | 30 | 0,4 klx | |
| Viewing Angle (θ) | | 120 ±5° | |

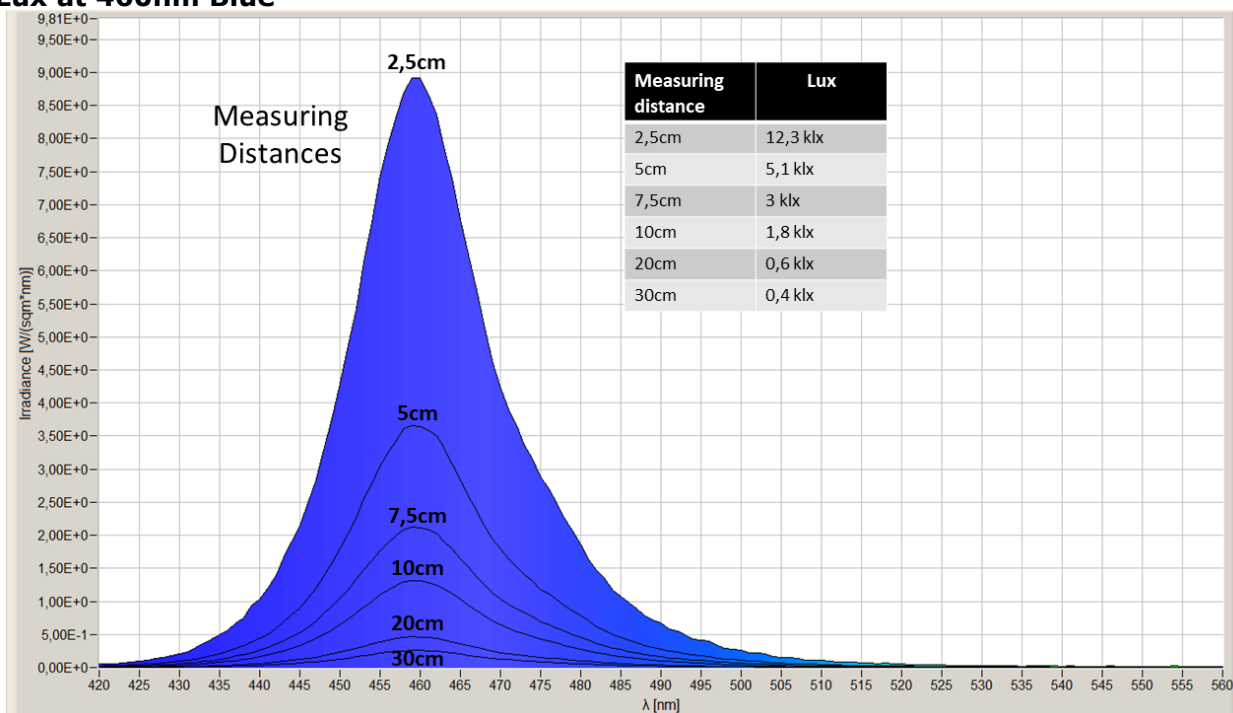
Wavelength at 460nm Blue



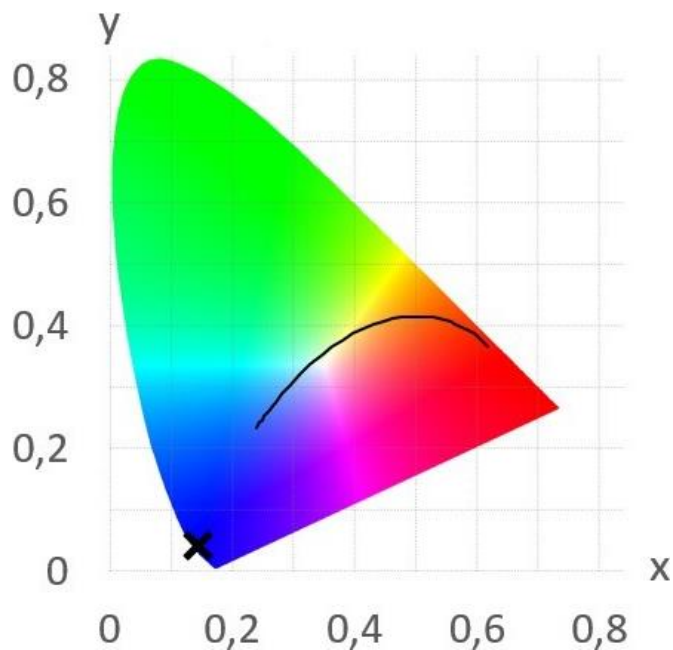
Radiance and PPFD at 460nm Blue



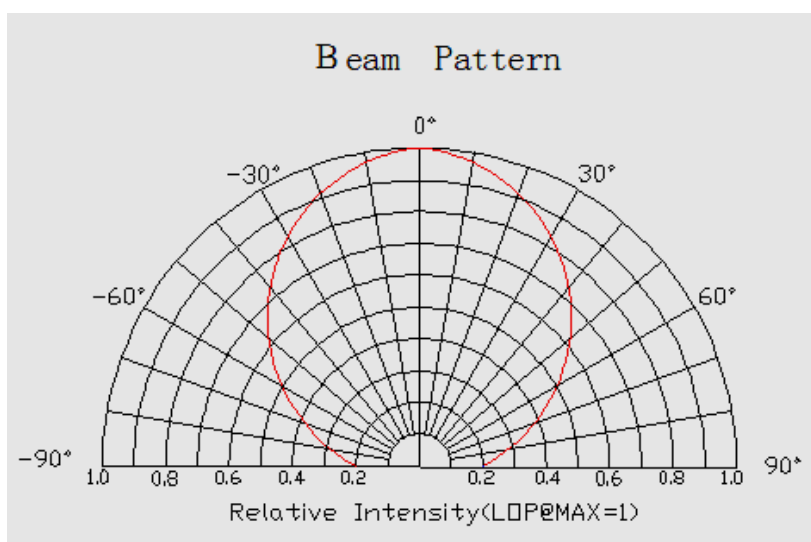
Lux at 460nm Blue



CIE1931 Blue:



Optical Characteristics Curve:



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:

- NEN-EN-IEC 61000-3-2:2019/A1:2021
- NEN-EN-IEC 61000-3-3:2013+A1:2017+A2:2021
- NEN-EN-IEC 61547:2009

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