

Datasheet

LED-strip specification

LED-strip type:
LS24R140X2835PLX

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

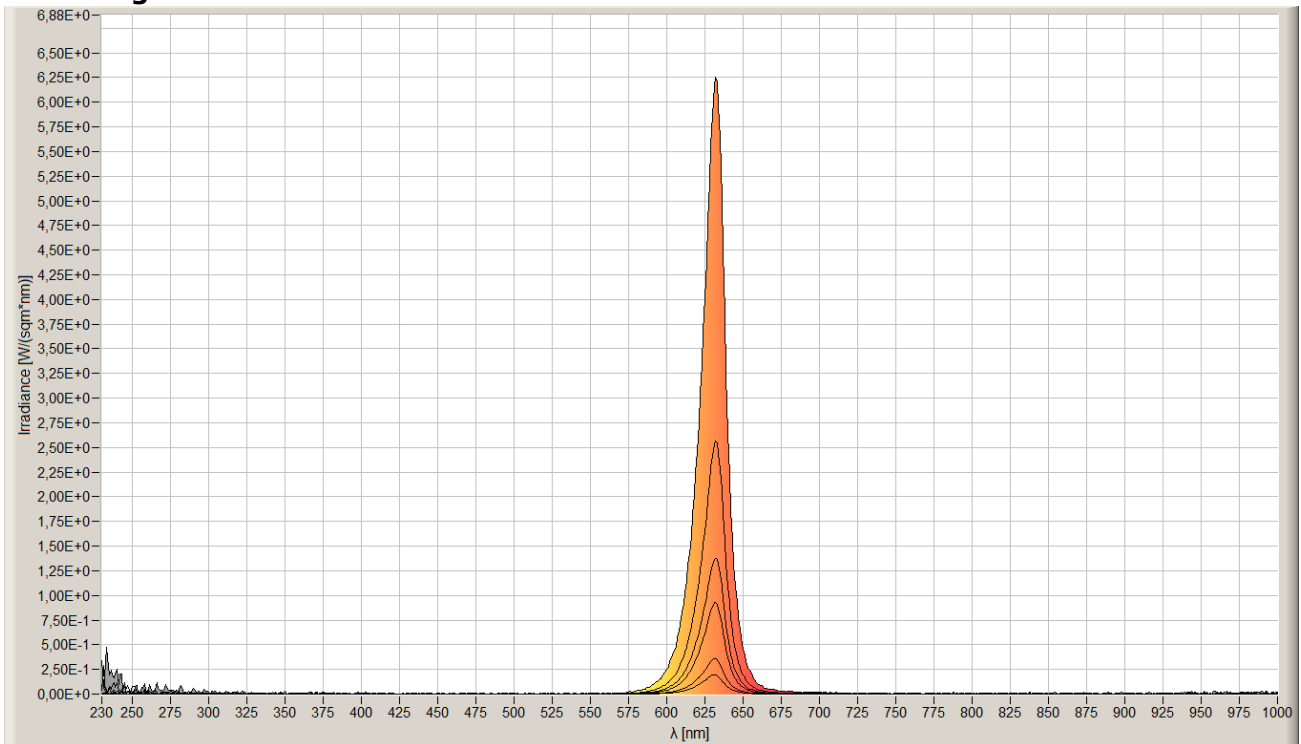


Date:
23-05-2023

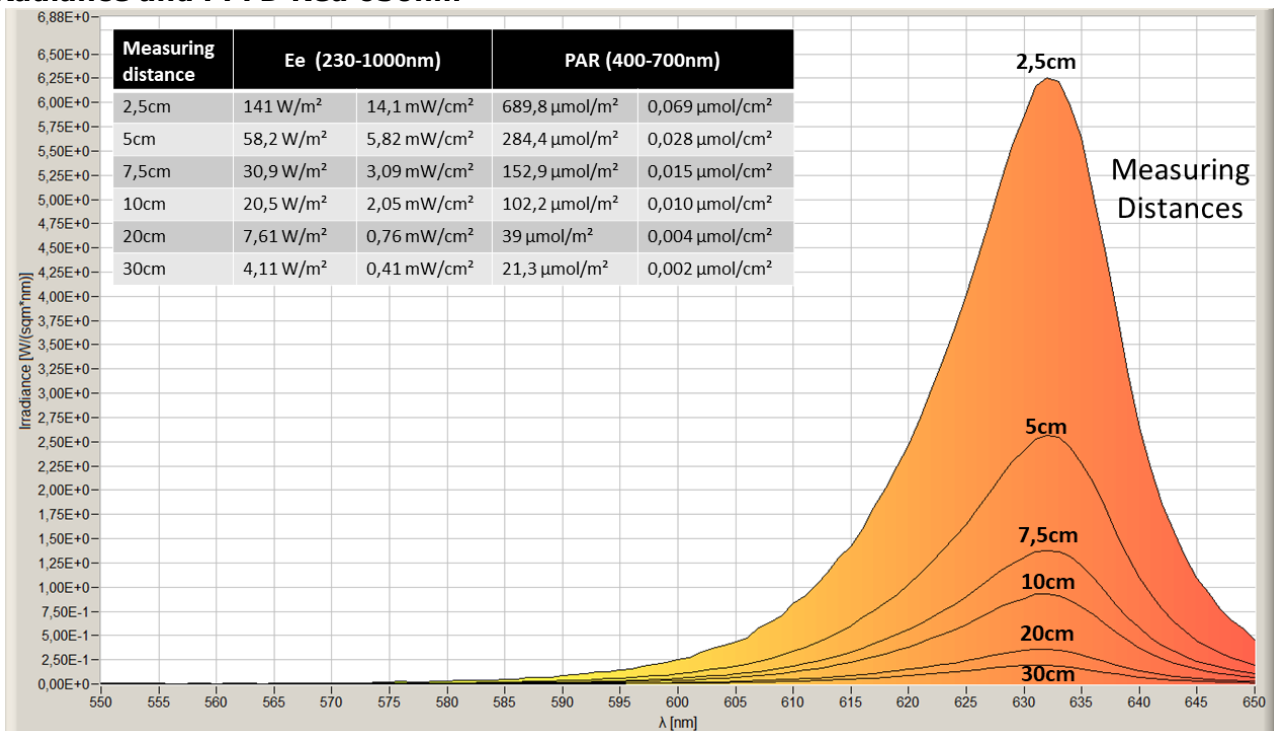
Page 1 of 5

| Technical Specificaties | | | |
|-------------------------|--|------------------------------|---------------------------|
| LS24R140X2835PLX | | | |
| 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) | 630nm Red | |
| | Peak Measured Wavelength (5cm) | 632nm | |
| | Peak Measured Radiance per distance (cm) Product length = 200mm | 2,5 | 6,36 W/m ² |
| | | 5 | 2,56 W/m ² |
| | | 7,5 | 1,36 W/m ² |
| | | 10 | 0,91 W/m ² |
| | | 20 | 0,36 W/m ² |
| | | 30 | 0,20 W/m ² |
| | Total Radiance per distance 230nm - 1000nm (cm) Product length = 200mm | 2,5 | 141 W/m ² |
| | | 5 | 58,2W/m ² |
| | | 7,5 | 30,9 W/m ² |
| | | 10 | 20,5 W/m ² |
| | | 20 | 7,61 W/m ² |
| | | 30 | 4,11 W/m ² |
| | Total μmol/m ² (PAR 400-700nm) Product length = 200mm | 2,5 | 689,8 μmol/m ² |
| | | 5 | 284,4 μmol/m ² |
| | | 7,5 | 152,9 μmol/m ² |
| | | 10 | 102,2 μmol/m ² |
| | | 20 | 39 μmol/m ² |
| | | 30 | 21,3 μmol/m ² |
| | Illuminance per distance (klx) Product length = 200mm | 2,5 | 25,6 klx |
| 5 | | 10,6 klx | |
| 7,5 | | 5,7 klx | |
| 10 | | 3,8 klx | |
| 20 | | 1,5 klx | |
| 30 | | 0,8 klx | |
| Viewing Angle (θ) | | 120 ±5° | |

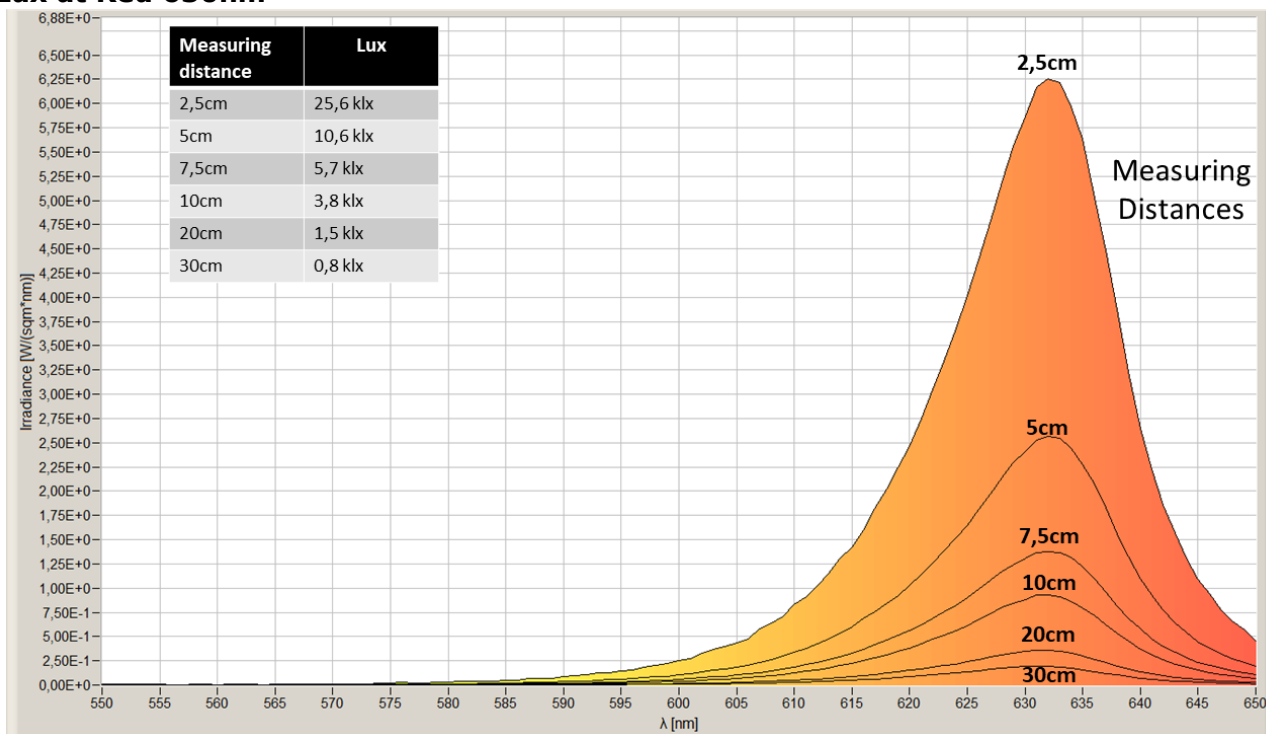
Wavelength Red 630nm:



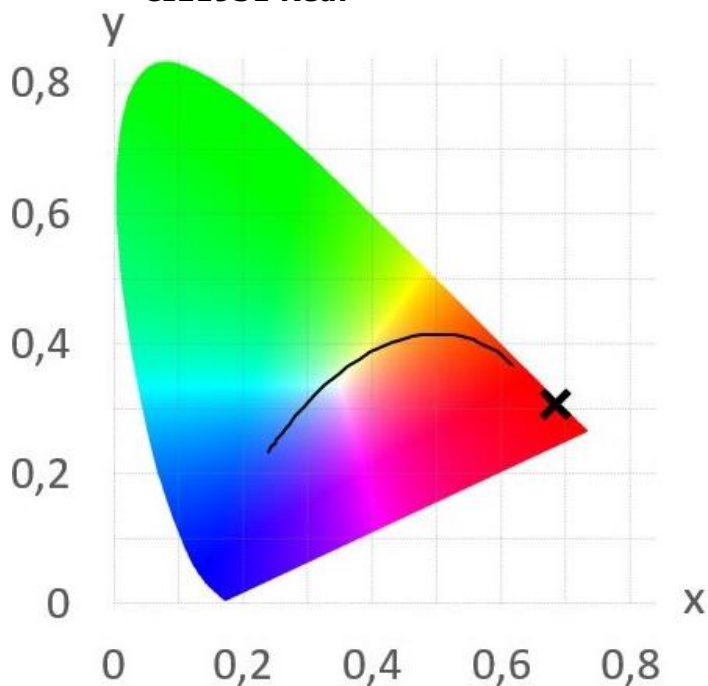
Radiance and PPFD Red 630nm



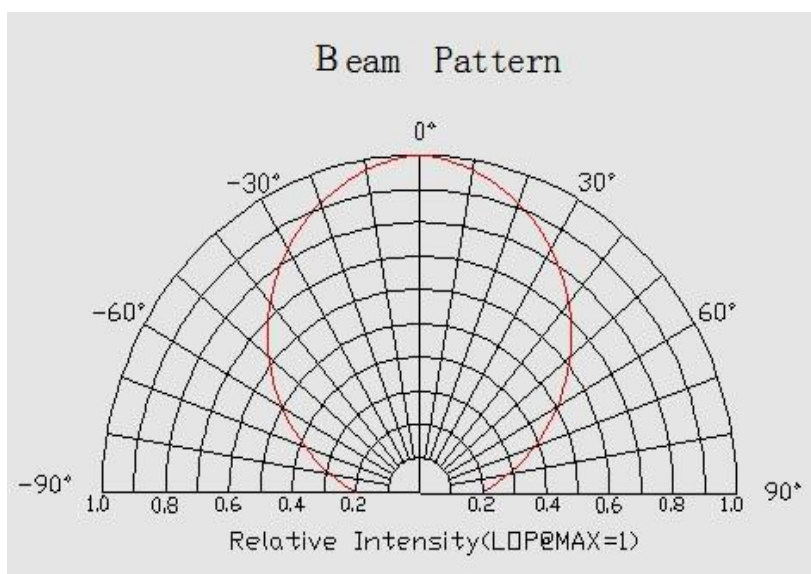
Lux at Red 630nm



CIE1931 Red:



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:

- IEC 55015:2019/A11:2020
- IEC 61000-3-2:2019/A1:2021
- IEC 61000-3-3:2013+A1:2017+A2:2021
- IEC 61547:2009

While LuxaLight has made every reasonable effort to ensure the accuracy of the information in this brochure, LuxaLight 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 catalogue 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.