

Datasheet

LED-strip specification

LED-strip type:
LS24FSW140X2835PLX

Description:
**LuxaLight LED-strip 24V Full Spectrum White 5400k Protected 2835
(24 Volt, 140 LEDs, 2835, IP64)**



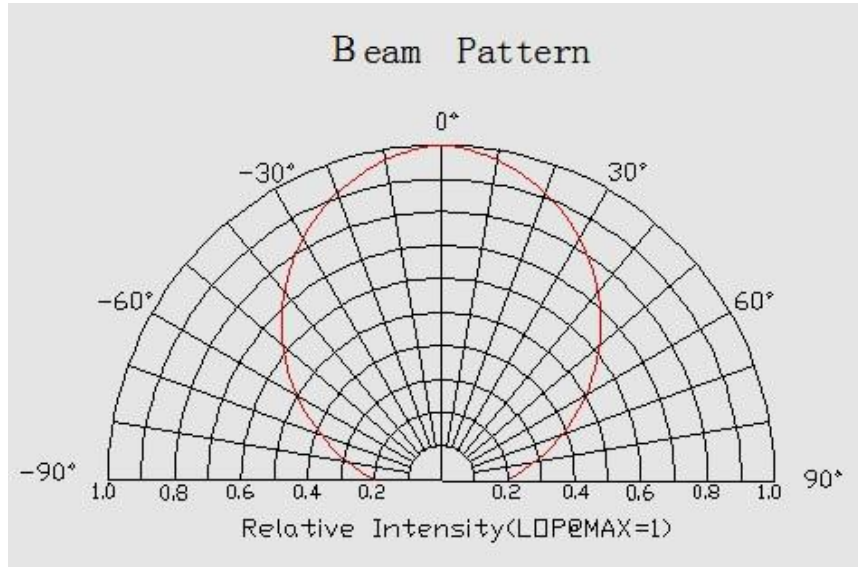
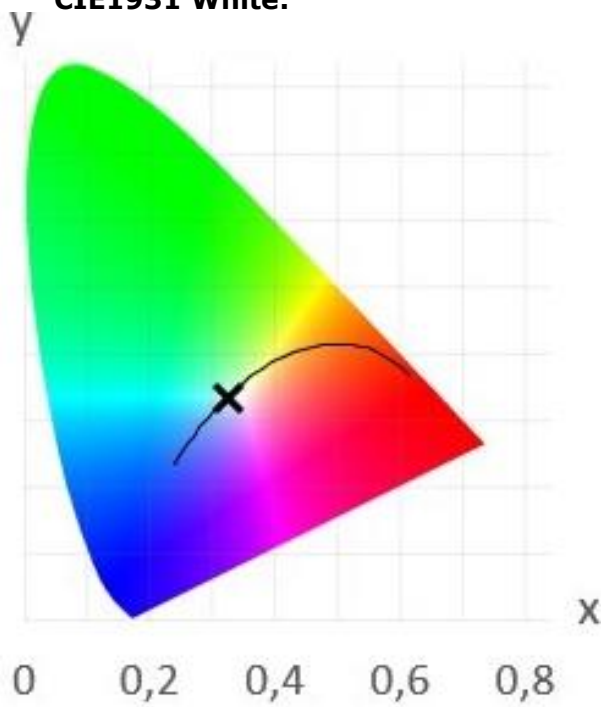
Date:
24-05-2022

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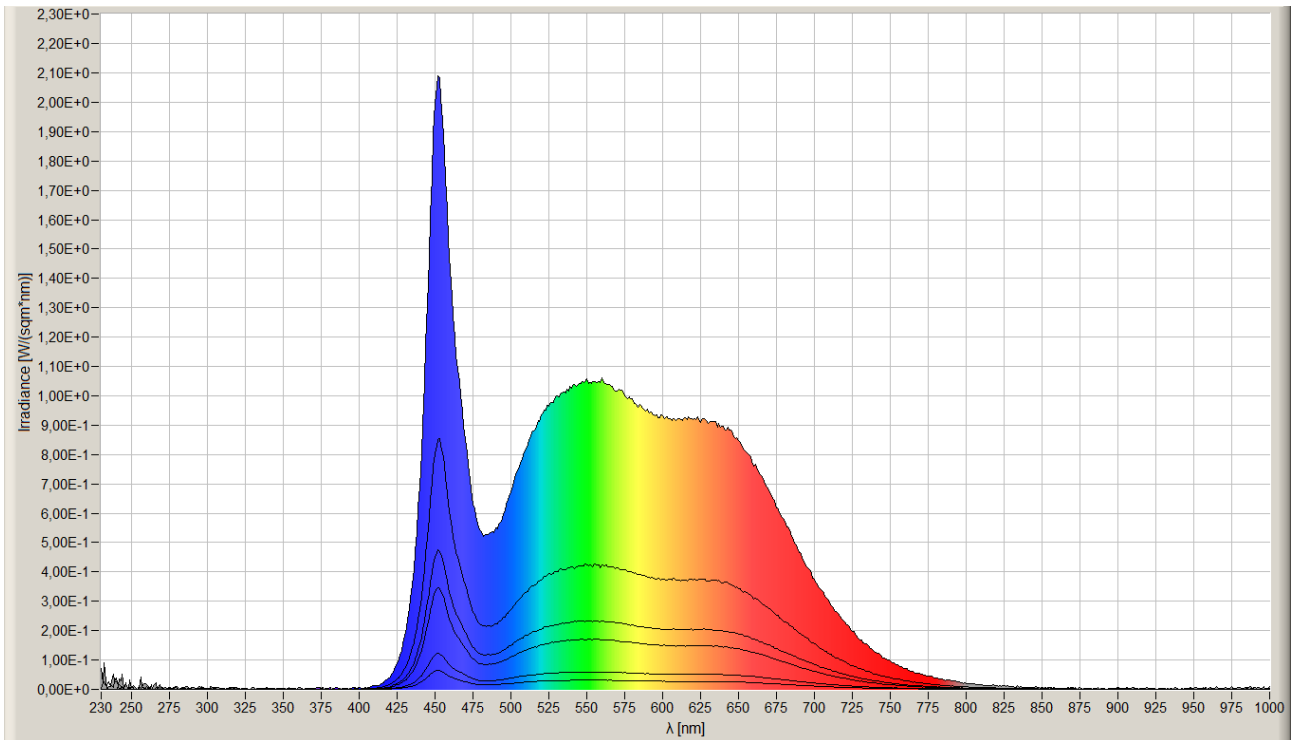
Technical Specificaties							
LS24FSW140X2835PLX							
General	LED Type	2835 SMD					
	LED Quantity	140 LEDs/m					
	Dimensions	10000 * 10 * 4 (L x B x H)					
	Weight	35 ~ 50g / meter					
	Mounting	3M tape VHB4905					
Environment	Working Temperature	-20°C ~ +70°C					
	Storing Temperature	-20°C ~ +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 Colour Temperature (k)	5500K					
	Peak Measured Colour temp. (10cm)	5402K					
	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				
		30	3,31 W/m ²				
	Total μmol/m ² (PAR 400-700nm) Product Length 200mm	2,5	1111 μmol/m ²				
		5	450 μmol/m ²				
		7,5	248 μmol/m ²				
		10	181 μmol/m ²				
		20	62,9 μmol/m ²				
		30	33,2 μmol/m ²				
	Illuminance per distance (klx) Product Length 200mm	2,5	73 klx				
		5	29,8 klx				
		7,5	16,6 klx				
		10	11,9 klx				
		20	4,03 klx				
		30	2,11 klx				
	Wavelength Range		301 - 400nm	401 - 500nm	501 - 600nm	601 - 700nm	701 - 800nm
	μmol/m ² PPFD at Product Length 200mm	2,5	0,96 μmol/m ²	256 μmol/m ²	445 μmol/m ²	410 μmol/m ²	78,3 μmol/m ²
		5	0,38 μmol/m ²	104 μmol/m ²	180 μmol/m ²	167 μmol/m ²	32 μmol/m ²
7,5		0,11 μmol/m ²	57,5 μmol/m ²	98,8 μmol/m ²	91,3 μmol/m ²	17,5 μmol/m ²	
10		0,06 μmol/m ²	42 μmol/m ²	72,2 μmol/m ²	66,5 μmol/m ²	12,7 μmol/m ²	
20		0,02 μmol/m ²	14,7 μmol/m ²	25,2 μmol/m ²	23,1 μmol/m ²	4,4 μmol/m ²	
30		0,01 μmol/m ²	7,8 μmol/m ²	13,3 μmol/m ²	12,1 μmol/m ²	2,3 μmol/m ²	
Viewing Angle (θ)		120 ±5°					

CIE1931 White:

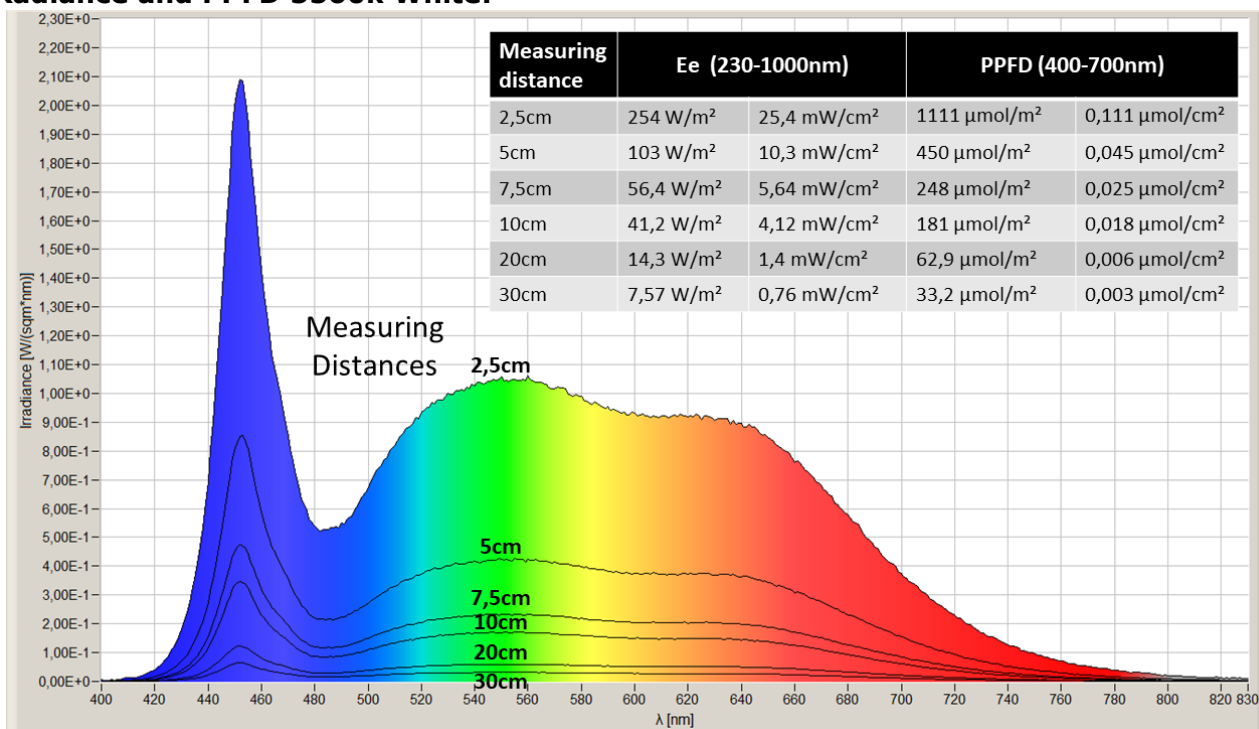
Optical Characteristics



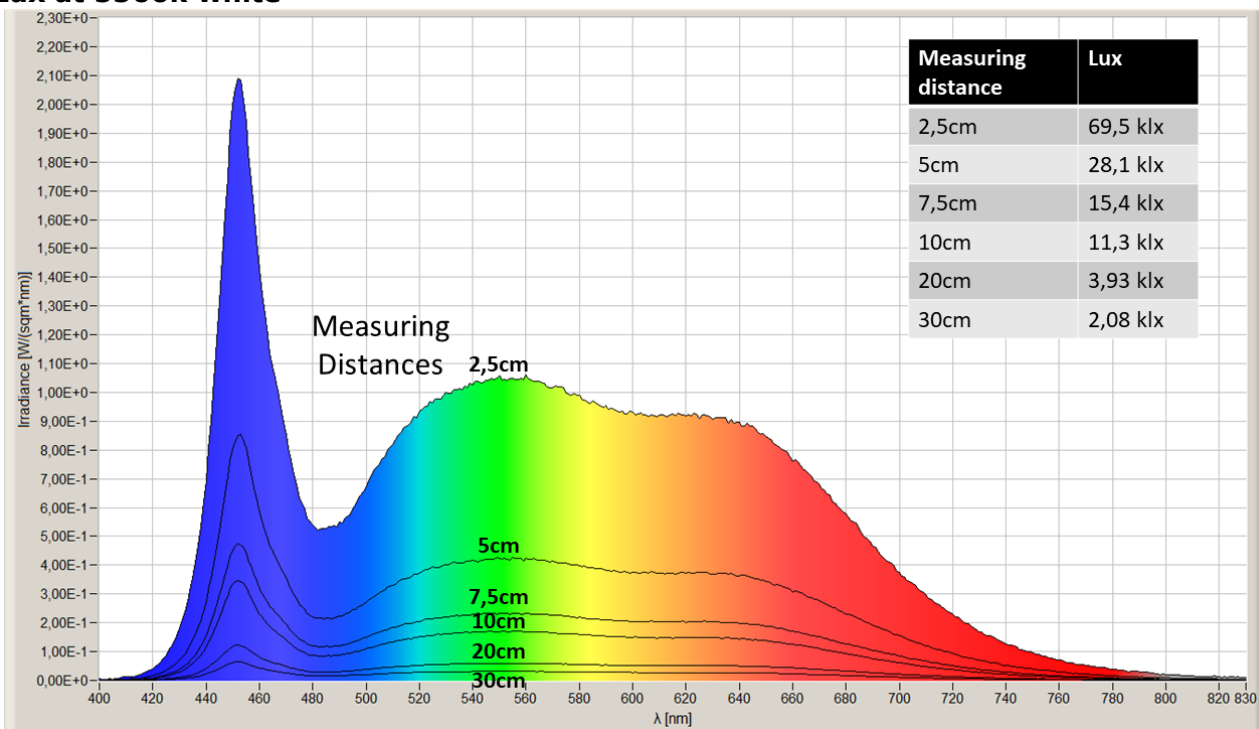
Wavelength 5500k White:



Radiance and PPFD 5500k White:



Lux at 5500k white



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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