

Datasheet

LED-strip specification

LED-strip type:
LS24FSNW140X2835PLX

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

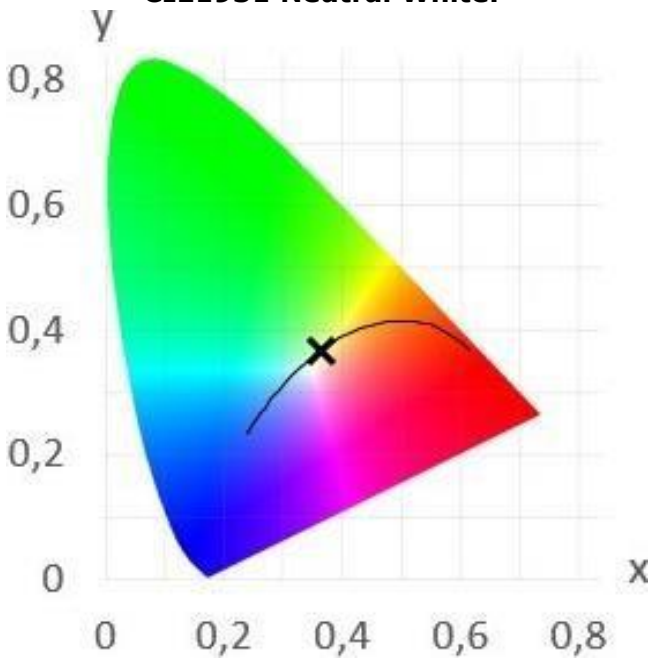


Date:
24-05-2022

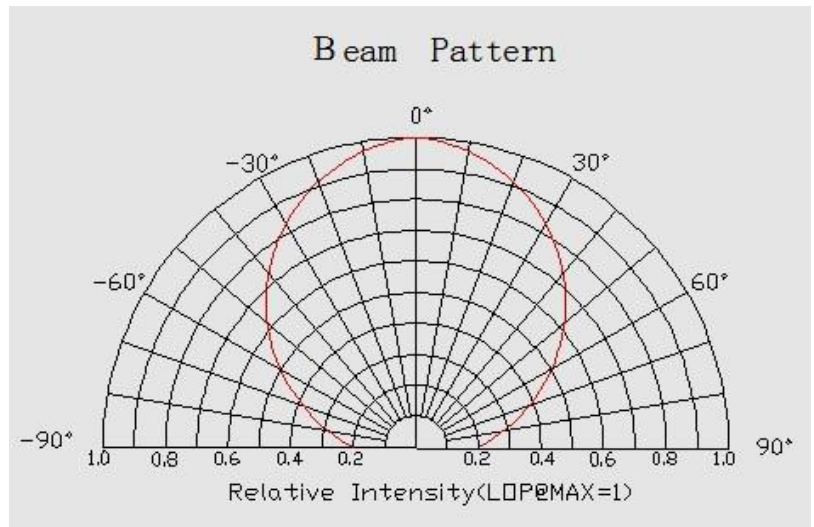
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Technical Specificaties							
LS24FSNW140X2835PLX							
General	LED Type		2835 SMD				
	LED Quantity		140 LEDs/m				
	Dimensions		10000 * 10 * 4 (L x B x H)				
	Weight		35 ~ 50g / meter				
	Mounting		3M tape VHB4905				
Environment	Working Temperature		-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)		4300K				
	Peak Measured Colour temp. (10cm)		4199K				
	Total Radiance per distance 230nm - 1000nm (cm) Product Length 200mm	2,5	273 W/m ²				
		5	111 W/m ²				
		7,5	61,6 W/m ²				
		10	44,3 W/m ²				
		20	15 W/m ²				
		30	7,62 W/m ²				
	Total µmol/m ² (PAR 400-700nm) Product Length 200mm	2,5	1209 µmol/m ²				
		5	491 µmol/m ²				
		7,5	273 µmol/m ²				
		10	197 µmol/m ²				
		20	66,5 µmol/m ²				
		30	34,7 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 PPF at Product Length 200mm	2,5	0,65 µmol/m ²	208 µmol/m ²	454 µmol/m ²	546 µmol/m ²	106 µmol/m ²
		5	0,19 µmol/m ²	84,9 µmol/m ²	185 µmol/m ²	221 µmol/m ²	42,9 µmol/m ²
7,5		0,07 µmol/m ²	47,6 µmol/m ²	103 µmol/m ²	123 µmol/m ²	23,8 µmol/m ²	
10		0,04 µmol/m ²	34,8 µmol/m ²	74,3 µmol/m ²	88 µmol/m ²	17,1 µmol/m ²	
20		0,01 µmol/m ²	11,8 µmol/m ²	25,2 µmol/m ²	29,6 µmol/m ²	5,71 µmol/m ²	
30		0,01 µmol/m ²	6,17 µmol/m ²	13,2 µmol/m ²	15,4 µmol/m ²	3 µmol/m ²	
Viewing Angle (θ)		120 ±5°					

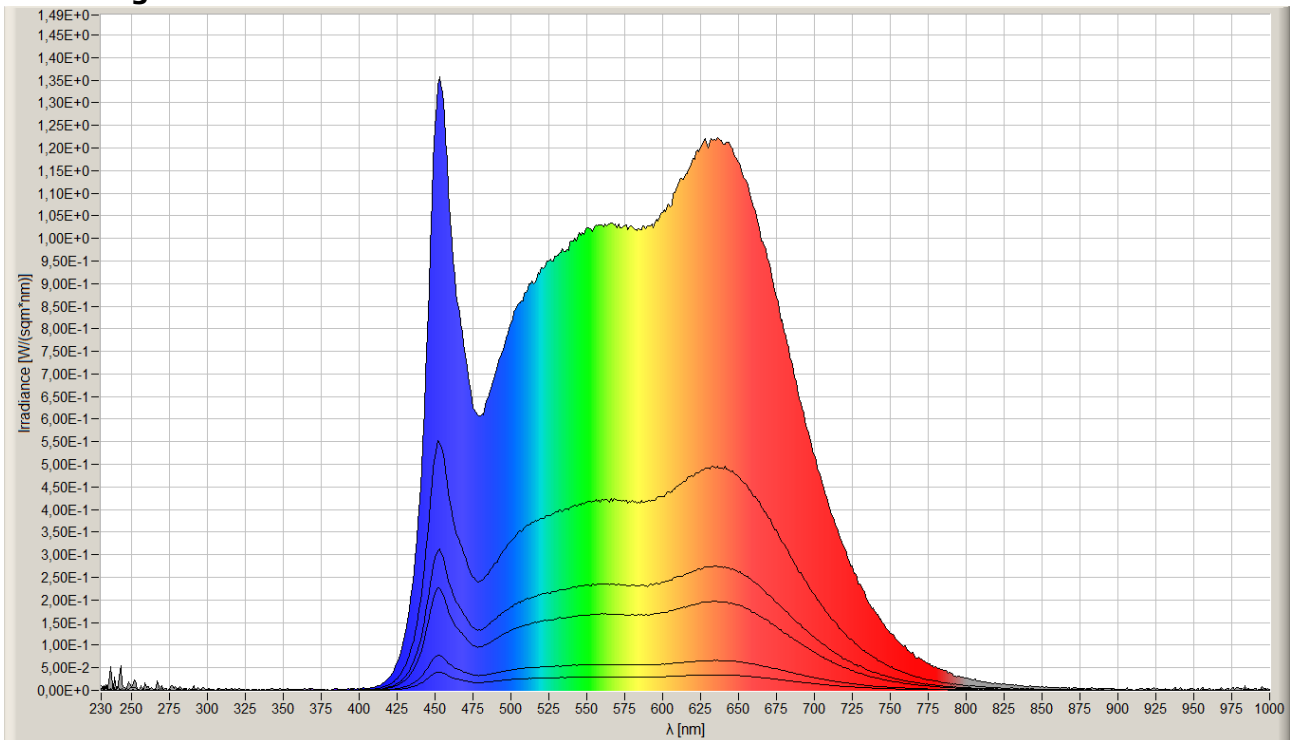
CIE1931 Neutral White:



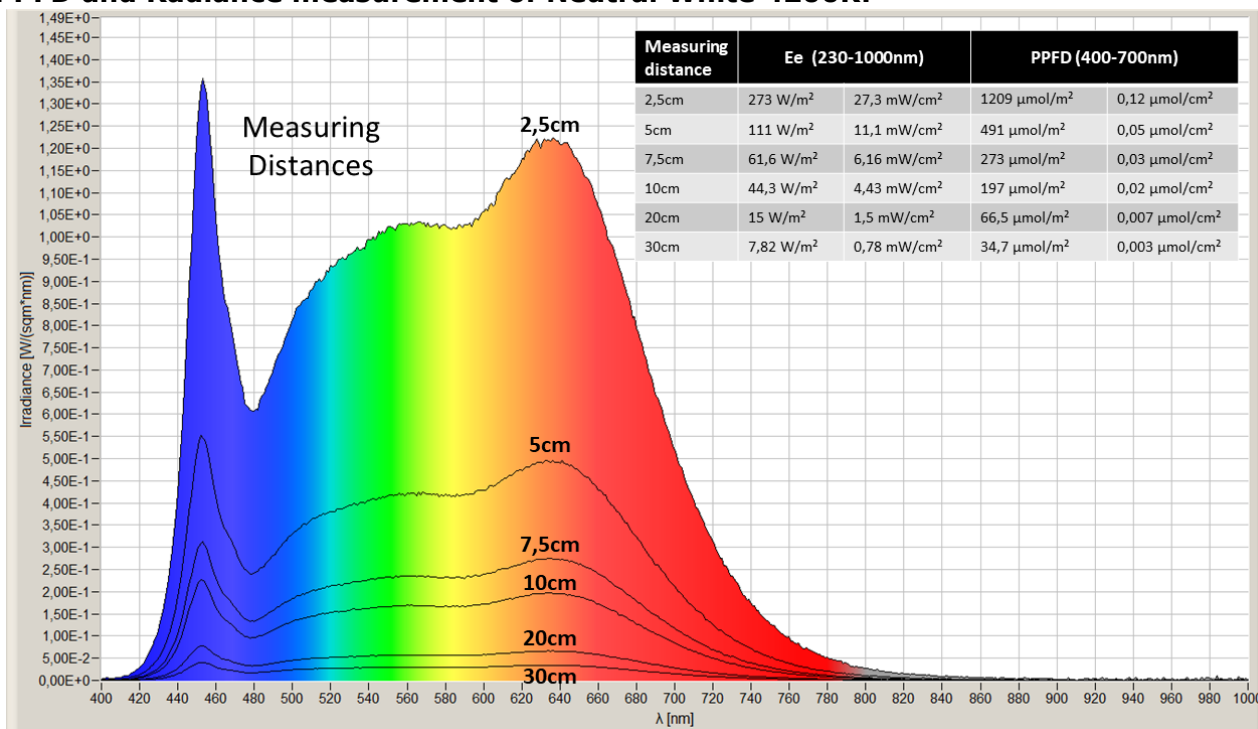
Optical Characteristics Curve:



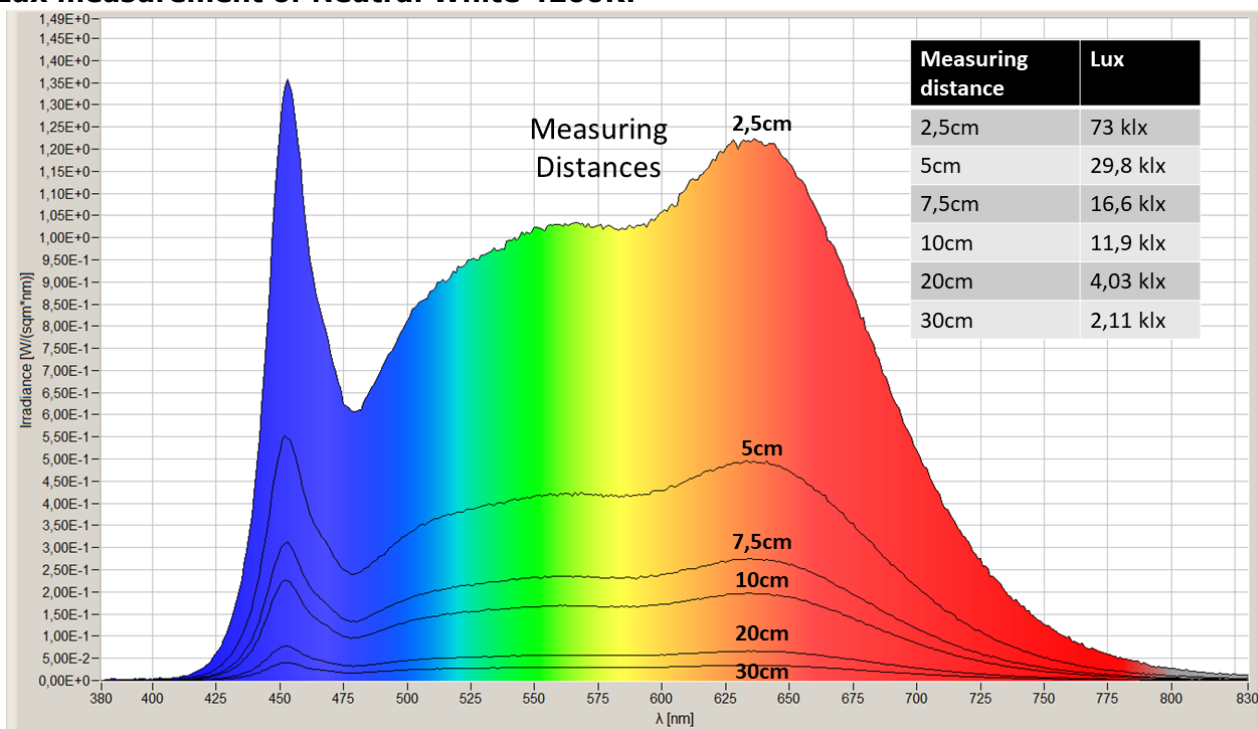
Wavelength Neutral White:



PPFD and Radiance measurement of Neutral White 4200K:



Lux measurement of Neutral White 4200K:



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

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