

Datasheet

LED pixel specification

LED pixel type:
LPSTRBLCK24VCREERGB

Description:
**Digital LED Pixel String Black Cree LED RGB SPI SM16703
(24V, 3535, IP64)
(20 pixels in 1 string, with 20 cm cable between pixels)**



Date:
21-12-2021

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Basic Parameters	
LED Type	3535 SMD
Color	RGB
Viewing Angle (θ)	180 \pm 5°
LEDs per pixel	7 Cree LEDs
Numbers of channels	3
IC type	SM16703
IP grade	IP64
Dimensions	50 mm x 20 mm
Weight	20 gram
Lifespan	50,000 hours
LB Value	L80B50
BIN	3SDCM
Warranty	2 Years

Environment Parameters	
Working Temperature	-25°C ~ +70°C
Storage Temperature	-20°C ~ +60°C

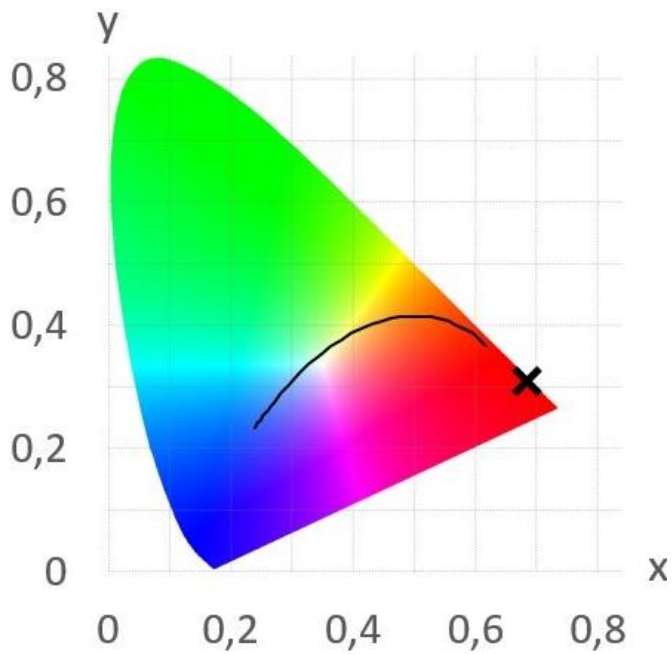
Electronic Specifications	
Working Voltage	DC 24V
Working Current	0.06 A/ per pixel
Working Wattage	1.5 W/ per pixel
Driving Method	Digital

Luminous Flux (Lumen per pixel)
50 Lumen

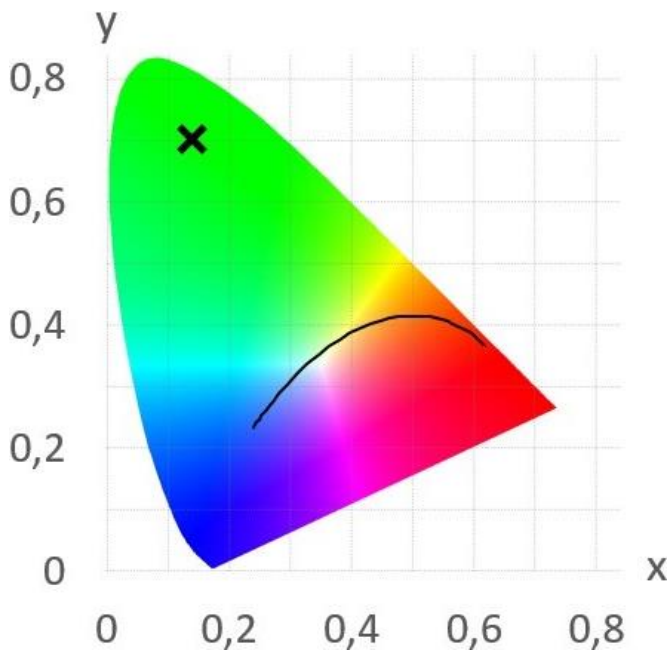
Wave Length/ Color Temperature	(nm/k)
Red	620 ~ 630 nm
Green	510 ~ 525 nm
Blue	455 ~ 470 nm

Wire color	Symbol	Function description
Black	GND	Ground
Yellow	D1	Data
Red	+24V	24V logic power supply

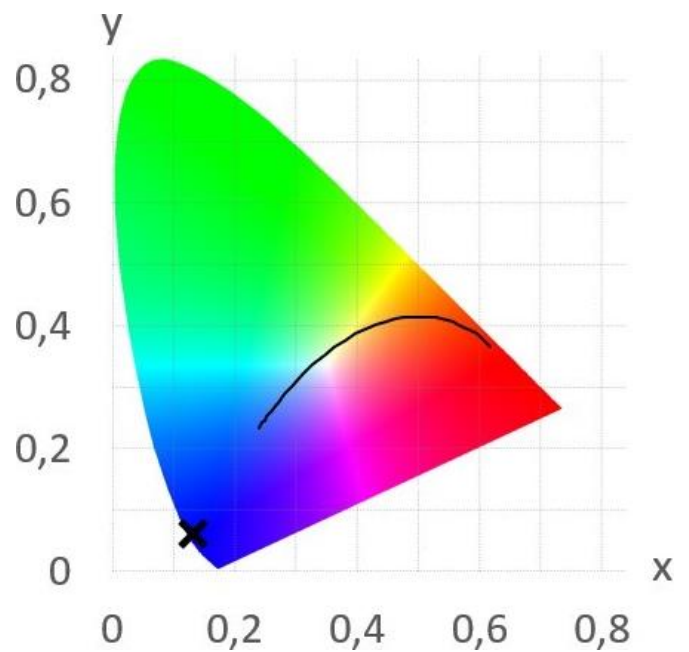
CIE1931 Red:



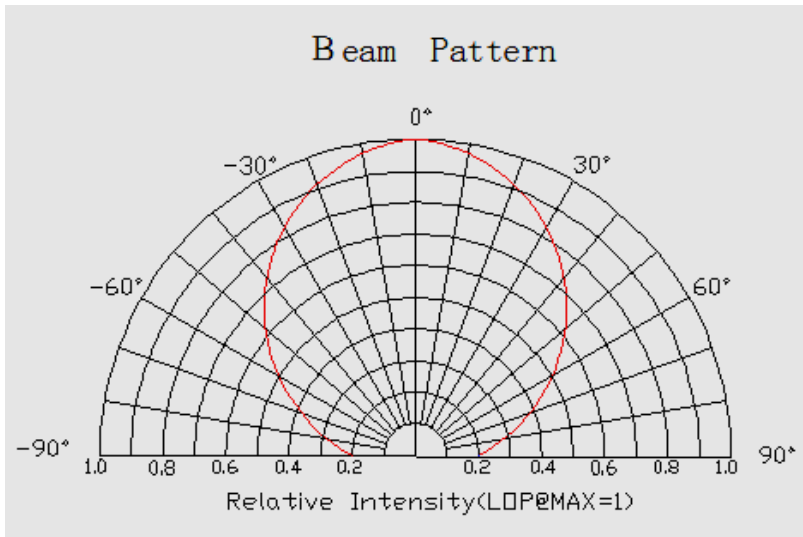
CIE1931 Green:



CIE1931 Blue:

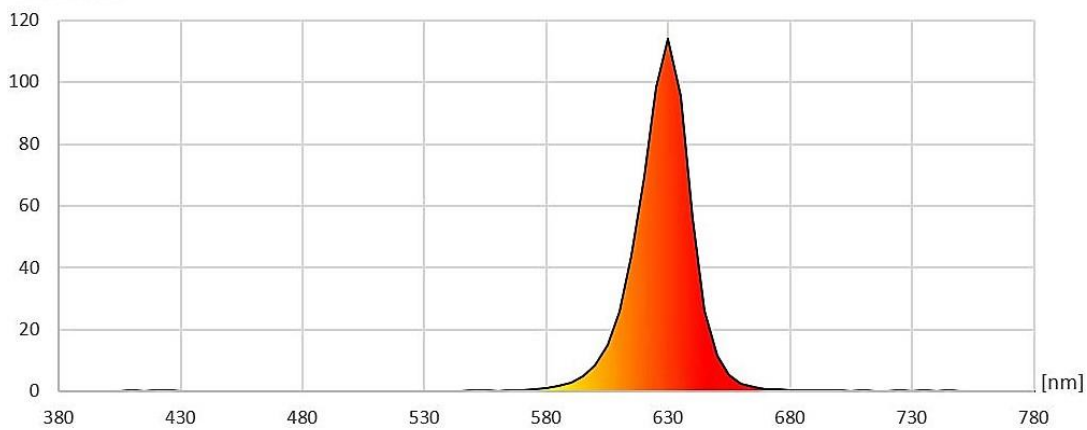


Optical Characteristics Curve:



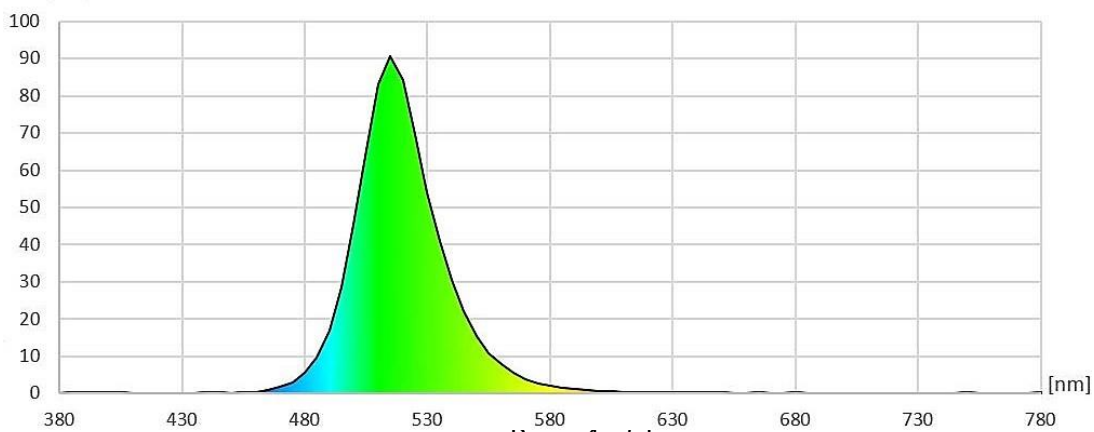
Wavelength Red:

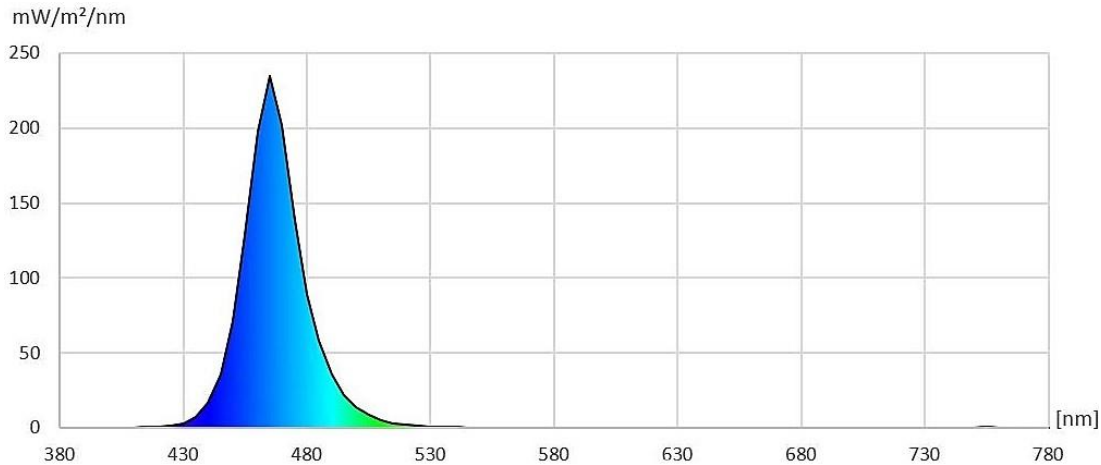
mW/m²/nm



Wavelength Green:

mW/m²/nm



Wavelength Blue:**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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