

Datasheet

LED Science Board specification

LED Science Board type:
LXSCIENCEBOARD1

Description:
**LuxaLight Long Life Aluminium Science Board White, Far Red, Deep Red,
UV-A 365nm Protected
(24 Volt, LEDs, 3535, IP64)**



Date:
09-02-2022

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Basic Parameters	
LED Type	2835 SMD
Color	White, Far Red, Deep Red, UV-A
CRI	≥ 90 Ra
Viewing Angle (θ)	120 ±5°
LED Qty	630 LEDs
IP grade	IP64
Dimensions	250* 250 *6mm
Weight	1135g/ per piece
Mounting	Screw / Hang

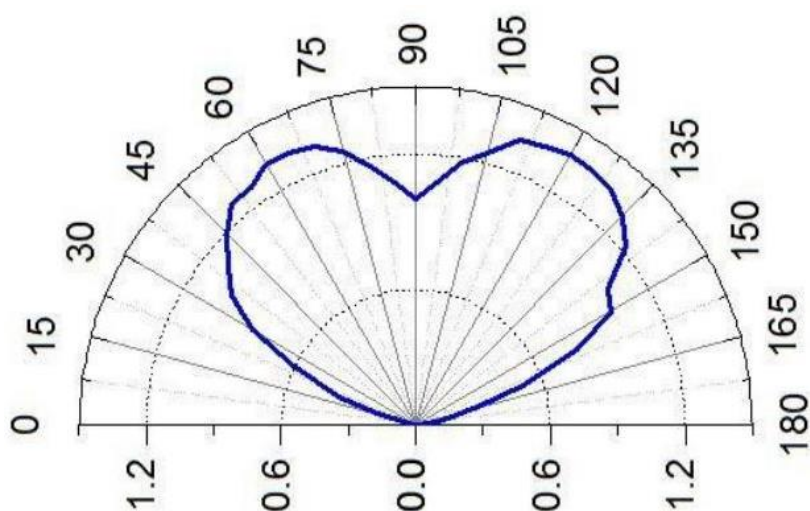
Environment Parameters	
Working Temperature	-20°C ~ +50°C
Storage Temperature	-35°C ~ +85°C

Electronic Specifications	
Working Voltage	DC24V
Working Current White	1,88 A/ piece
Working Current Far red	0,43 A/ piece
Working Current Deep red	0,42 A/ piece
Working Current UV-A	0,82 A/ piece
Working Wattage White	45,12 W/ piece
Working Wattage Far red	10,3 W/ piece
Working Wattage Deep red	10,8 W/ piece
Working Wattage UV-A	19,7 W/ piece
Driving Method	Constant Voltage

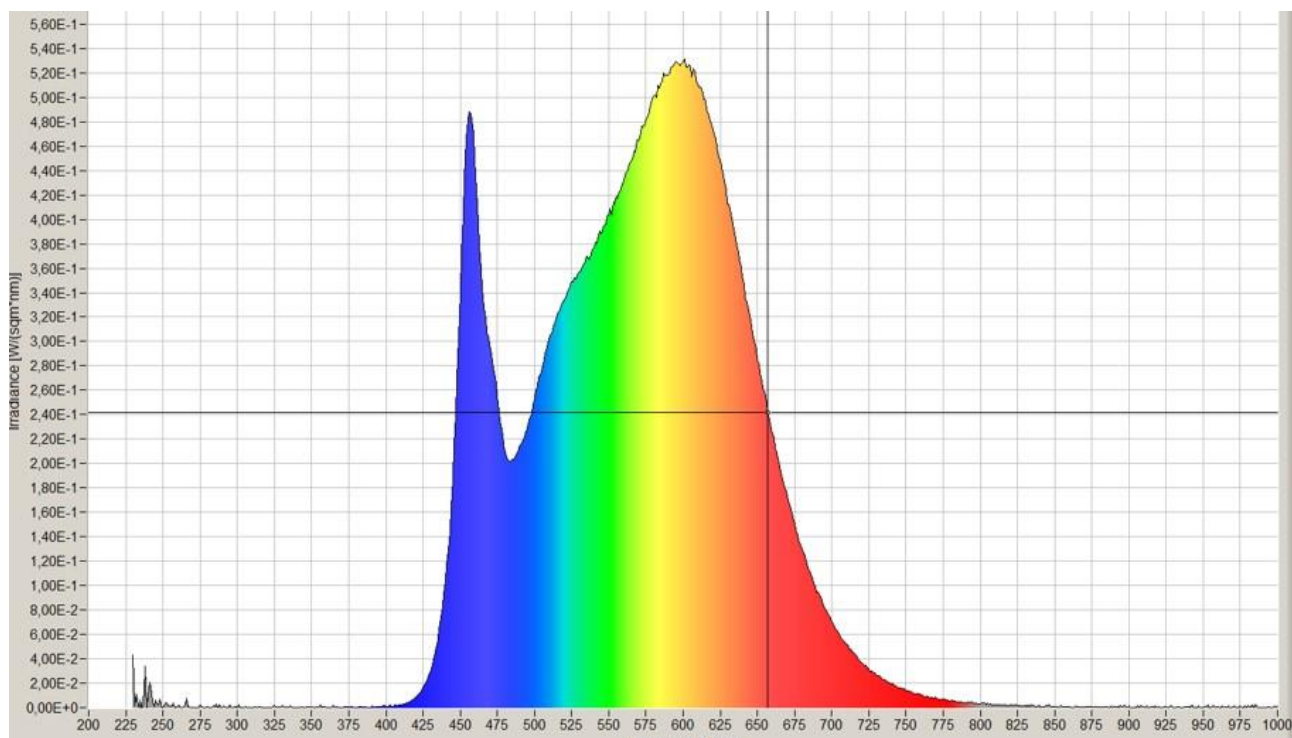
Wires & connection length	
Wires	Cable 5 × 0,75 mm ² HQ5RR-F
Length	1000mm

Wavelength/ Color Temperature	(nm/k)
White	4100 ~ 4300 K
Far red	650 nm
Deep red	730 nm
UV-A	365 nm

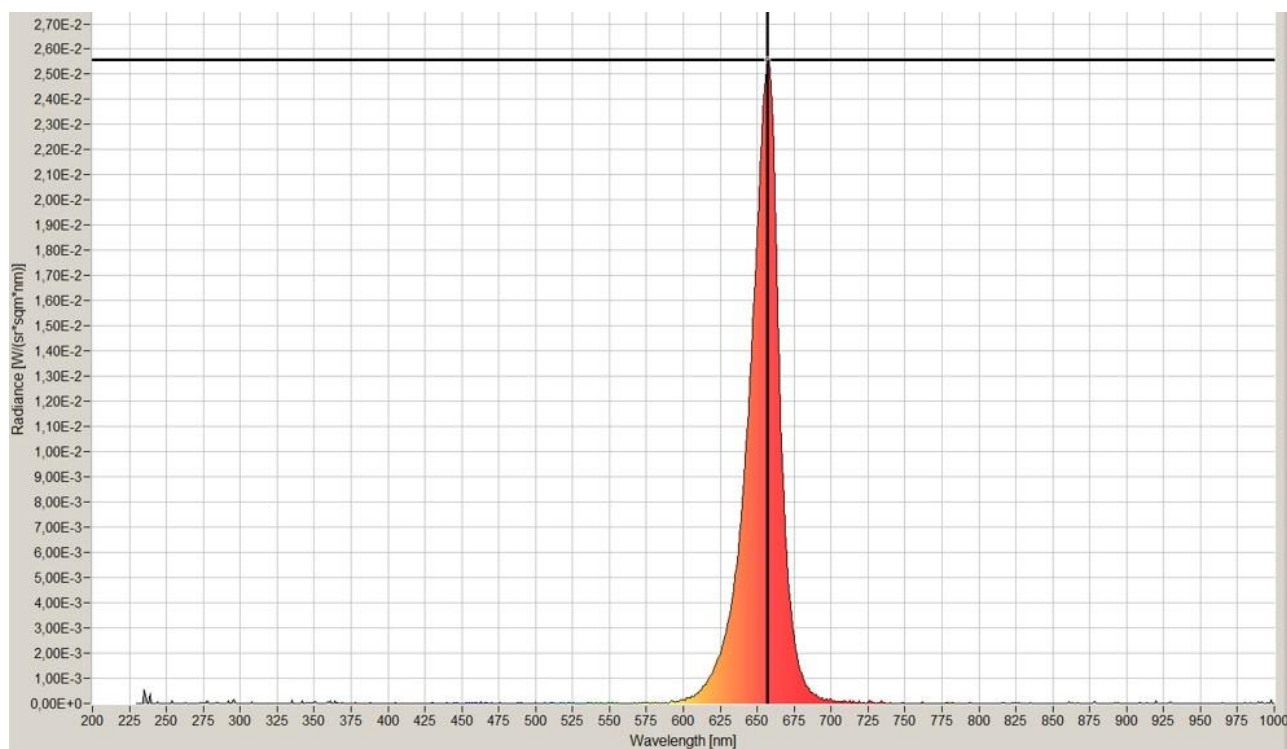
Lighting Angle:



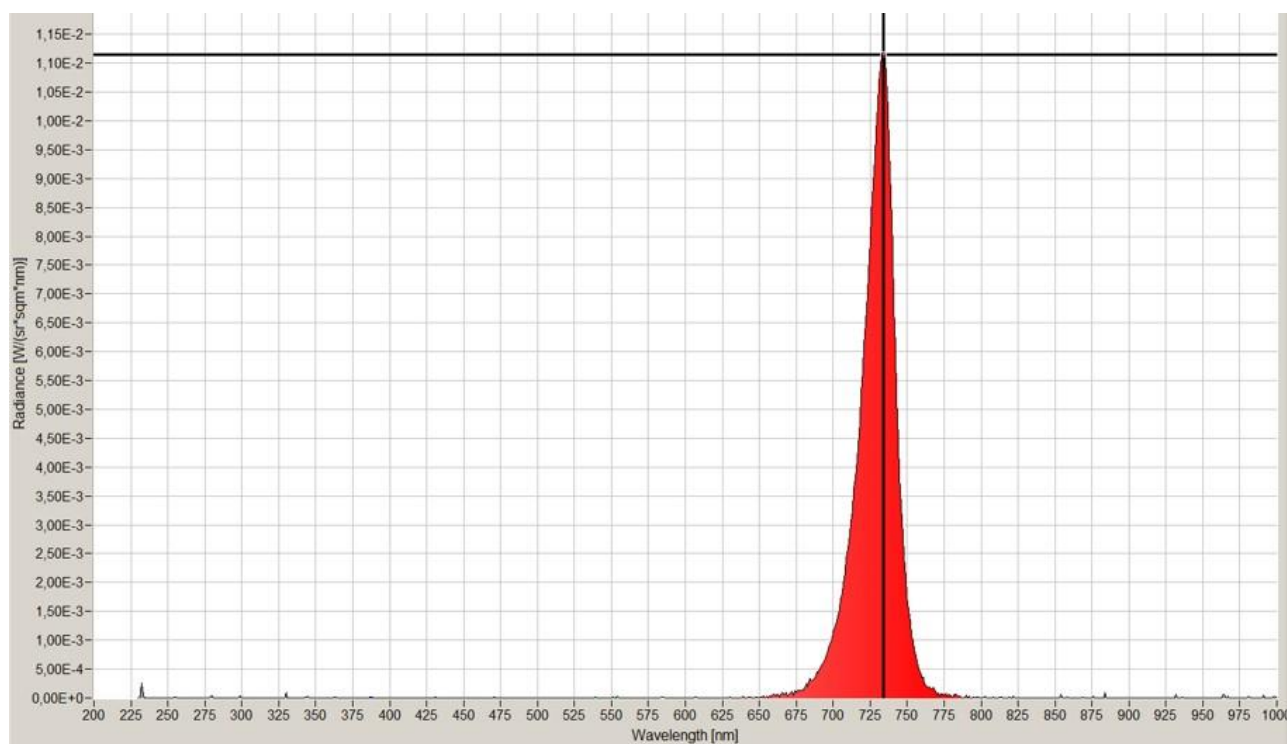
Wavelength white:



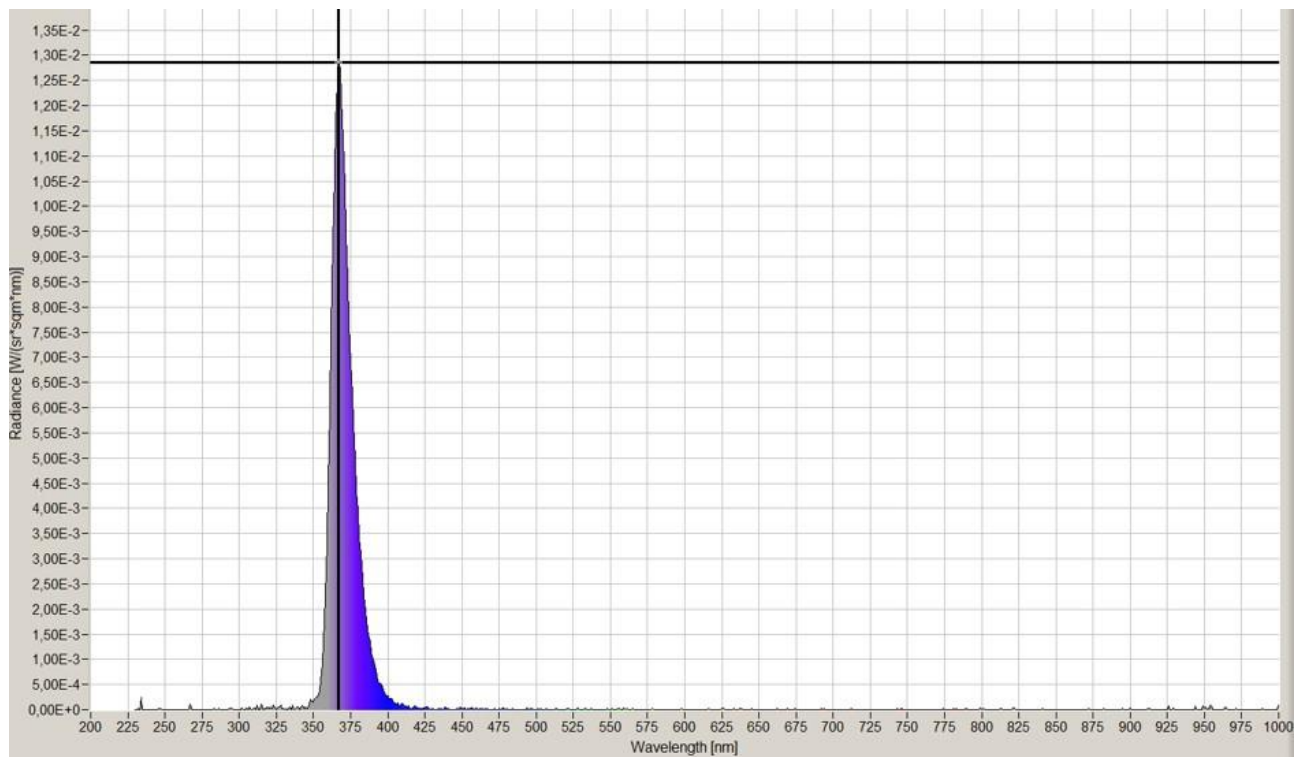
Wavelength Far Red:



Wavelength Deep Red:



Wavelength UV-A:



The Materials of PCB:

6mm Thick Aluminium.

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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