Lightsource Test Report

Product Infomation

Product Spec: 0.8M 11W 11:9:1:2:1 Product Number: 0.8M 11W 11:9:1:

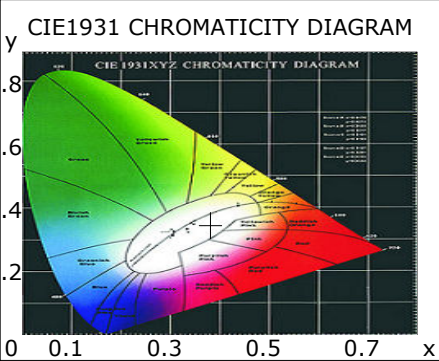
CIE Colorimetric Parameters

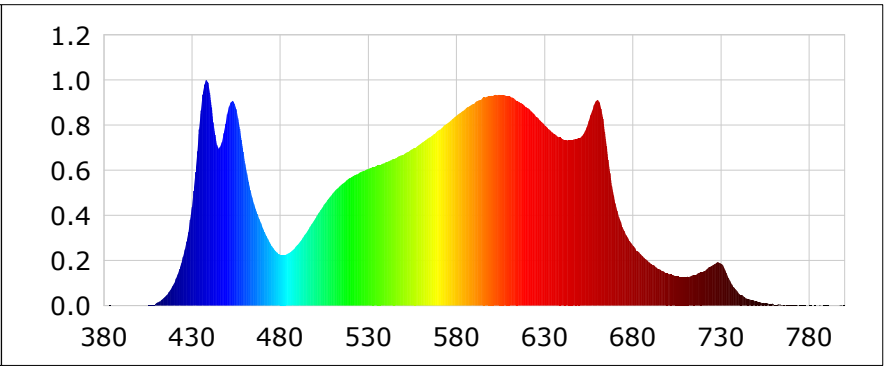
Chromaticity coordinates: x=0.3815 y=0.3472 u(u')=0.2383 v=0.3253 v'=0.4880
CCT: Tc=3716K (duv=-0.01479) Color Ratio: R=0.214 G=0.751 B=0.035
Peak Wavelength: 438.1nm Half Bandwidth: 32.6nm
Dominant Wavelength: 592.9nm Color Purity: 0.187
CRI: Ra= 90.5, avgR(1~14)= 88.2, avgR(1~15)= 88.5 TM30: Rf= 84, Rg= 105
GAI: GAI_BB_8=123.8, GAI_BB_15=123.8, GAI_EES=91.5

R1 =93	R2 =94	R3 =93	R4 =89	R5 =94	R6 =91	R7 =88	R8 =82
R9 =60	R10=86	R11=90	R12=86	R13=93	R14=95	R15=92	

Color Quality Scale: Qa= 84.7, Qf= 81.3, Qp= 91.8, Qg=104.9

Q1 =88	Q2 =94	Q3 =76	Q4 =79	Q5 =87	Q6 =87	Q7 =84	Q8 =91
Q9 =94	Q10=84	Q11=82	Q12=81	Q13=84	Q14=86	Q15=87	





Photometric Parameters

Luminous Flux: 1705.2 lm Efficiency: 146.62 lm/W Radiant Power: 5.934 W
EEI: 0.09 Energy Efficiency Class: A++ (EU 874-2012)
Cirtopic Flux: 5177.08 lm

Electric Parameters

Voltage: 229.40V Current: 0.0570A Power: 11.63W
Power Factor: 0.8870 Frequency: 49.99Hz

Test Infomation
Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 Sec ALC.: 1.0000 Photometric Condition: Sphere diameter: 1.75m, 4∏
Max of Signal: 55591 (2630) CCD Integration Time: 487.39 ms

Condition: Tx:21.3'C, Ti:22.6'C, R.H.:60% Test Device: Inventfine CMS-3000S
Test Lab: Test Time: 2024-10-28 13:21:51
Operator: Inspector:

Plant optical param data

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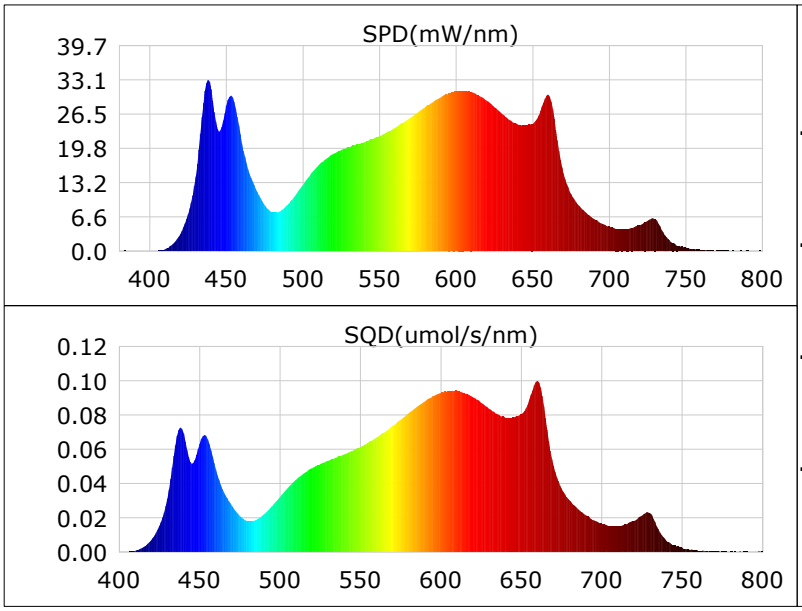

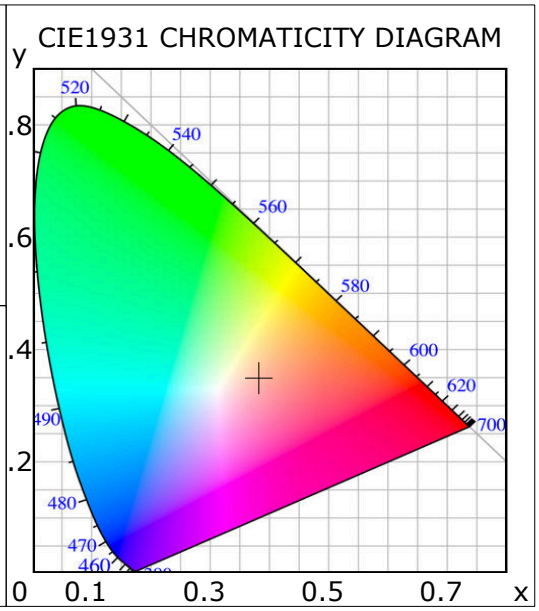

Plant Optical Param

Φv(lm): 1705.25 Qv(lm.s): 1705.25
Φe,λ(W/nm): 5.93 Qe(J): 5.93
Φe(W): 5.73 Φfr(W): 0.21
ηe: 0.49 ηfr: 0.02
PPE(umol/s/w): 2.32 Kfr: 0.11
Erb_Ratio: 1.59 PPF(umol/s): 26.99
PFuv(360-400)(umol/s): 0.00 PPF(400-500)(umol/s): 5.05
PPF(500-600)(umol/s): 10.64 PPF(600-700)(umol/s): 11.30
PFfr(700-800)(umol/s): 1.23 PPF.t(umol): 26.99
Φch-A.t(J): 0.60 Φch-A(W): 0.60
Φch-B.t(J): 0.29 Φch-B(W): 0.29
Φb.t(J): 1.33 Φb(W): 1.33
Φy.t(J): 2.30 Φy(W): 2.30
Φr.t(J): 2.15 Φr(W): 2.15

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