Lightsource Test Report

Product Infomation

Product Number: 50cm 16W smd bla

CIE Colorimetric Parameters

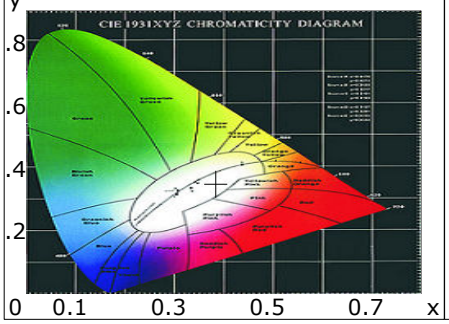
Chromaticity coordinates: x=0.3841 y=0.3488 u(u')=0.2394 v=0.3261 v'=0.4892
CCT: Tc=3658K (duv=-0.01465) Color Ratio: R=0.215 G=0.751 B=0.035
Peak Wavelength: 603.9nm Half Bandwidth: 162.1nm
Dominant Wavelength: 592.3nm Color Purity: 0.199
CRI: Ra= 90.0, avgR(1~14)= 87.5, avgR(1~15)= 87.8 TM30: Rf= 84, Rg= 104
GAI: GAI_BB_8=123.8, GAI_BB_15=123.8, GAI_EES=90.1

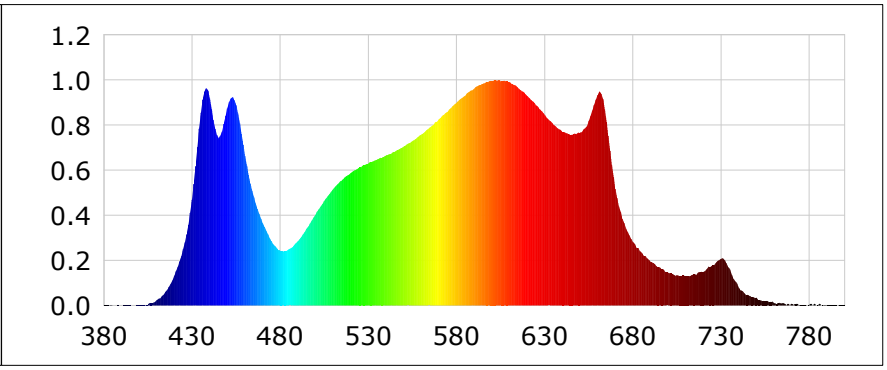
R1 =92	R2 =94	R3 =93	R4 =89	R5 =93	R6 =91	R7 =87	R8 =80
R9 =56	R10=86	R11=89	R12=86	R13=92	R14=96	R15=91	

Color Quality Scale: Qa= 84.3, Qf= 81.0, Qp= 91.3, Qg=104.4

Q1 =87	Q2 =94	Q3 =76	Q4 =79	Q5 =87	Q6 =87	Q7 =84	Q8 =91
Q9 =95	Q10=84	Q11=81	Q12=80	Q13=83	Q14=85	Q15=86	

CIE1931 CHROMATICITY DIAGRAM





Photometric Parameters

Luminous Flux: 2436.3 lm Efficiency: 147.03 lm/W Radiant Power: 8.484 W
EEI: 0.09 Energy Efficiency Class: A++ (EU 874-2012)
Cirtopic Flux: 7302.90 lm

Electric Parameters

Voltage: 232.40V Current: 0.0770A Power: 16.57W
Power Factor: 0.9260 Frequency: 49.99Hz

Test Infomation

Scan Range: 380~800:1nm
Stabilization Time: 0 Sec ALC.: 1.0000
Max of Signal: 51913 (4154)
Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.75m, 4π
CCD Integration Time: 331.95 ms

Condition: Tx:33.8'C, Ti:34.0'C, R.H.:60% Test Device: Inventfine CMS-3000S
Test Lab: Test Time: 2024-08-16 14:11:22
Operator: Inspector:

Plant optical param data

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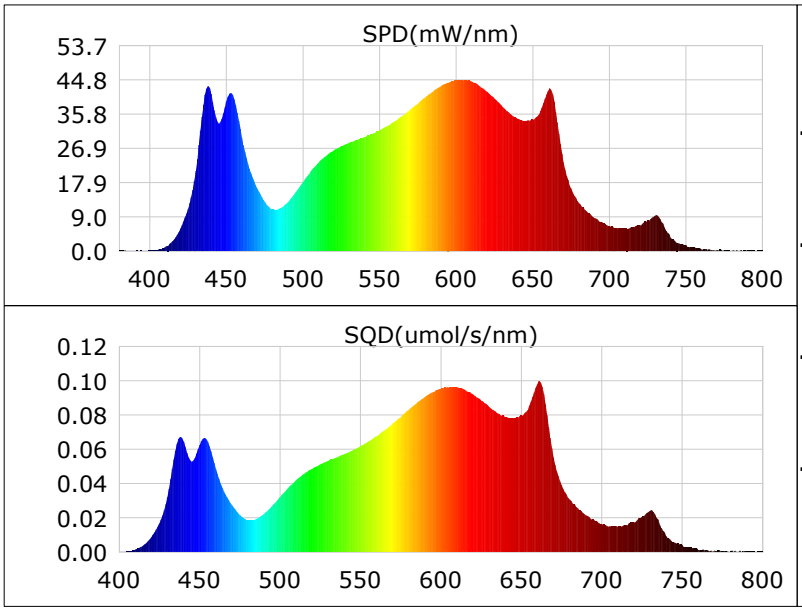

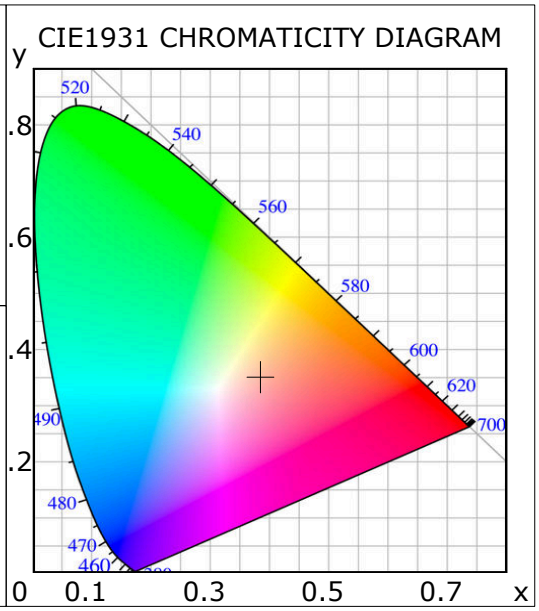

Plant Optical Param

Φv(lm): 2436.28 Qv(lm.s): 2436.28
Φe,λ(W/nm): 8.48 Qe(J): 8.48
Φe(W): 8.17 Φfr(W): 0.32
ηe: 0.49 ηfr: 0.02
PPE(umol/s/w): 2.33 Kfr: 0.11
Erb_Ratio: 1.62 PPF(umol/s): 38.53
PFuv(360-400)(umol/s): 0.01 PPF(400-500)(umol/s): 7.14
PPF(500-600)(umol/s): 15.19 PPF(600-700)(umol/s): 16.20
PFfr(700-800)(umol/s): 1.89 PPF.t(umol): 38.53
Φch-A.t(J): 0.86 Φch-A(W): 0.86
Φch-B.t(J): 0.40 Φch-B(W): 0.40
Φb.t(J): 1.88 Φb(W): 1.88
Φy.t(J): 3.28 Φy(W): 3.28
Φr.t(J): 3.08 Φr(W): 3.08

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