

Lightsource Test Report

Product Infomation

Product Spec: 0.5M 9W 3000K:5000K:450nm:660:73 Product Number: 2

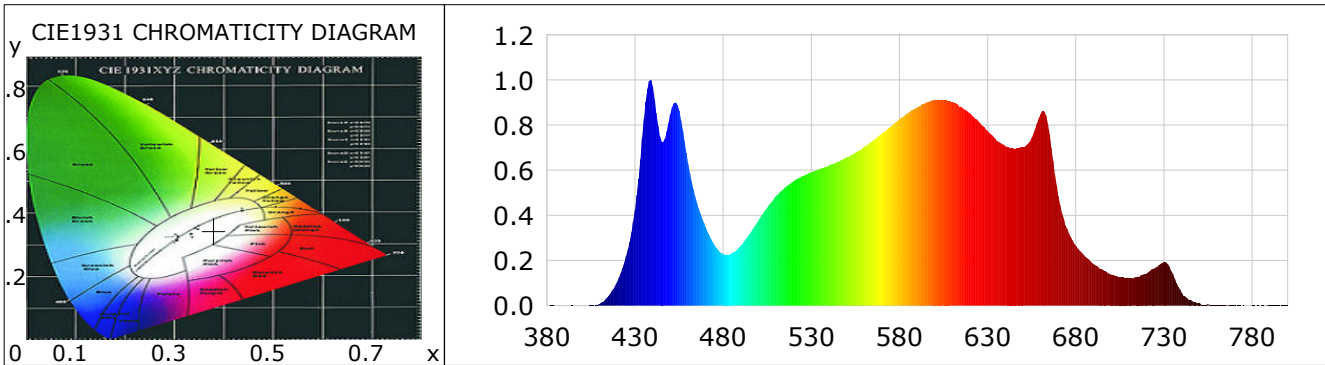
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3793$ $y=0.3448$ $u(u')=0.2379$ $v=0.3243$ $v'=0.4865$
 CCT: $T_c=3760K$ ($duv=-0.01542$) Color Ratio: $R=0.212$ $G=0.752$ $B=0.036$
 Peak Wavelength: 438.6nm Half Bandwidth: 32.4nm
 Dominant Wavelength: 594.4nm Color Purity: 0.173
 CRI: $R_a=90.4$, $avgR(1\sim14)=88.0$, $avgR(1\sim15)=88.3$ TM30: $R_f=84$, $R_g=105$
 GAI: $GAI_BB_8=123.7$, $GAI_BB_15=123.9$, $GAI_EES=92.5$

R1 =93	R2 =94	R3 =93	R4 =89	R5 =93	R6 =91	R7 =88	R8 =82
R9 =60	R10=86	R11=90	R12=85	R13=93	R14=95	R15=92	

Color Quality Scale: $Q_a=84.3$, $Q_f=80.9$, $Q_p=91.4$, $Q_g=104.8$

Q1 =88	Q2 =94	Q3 =75	Q4 =78	Q5 =86	Q6 =87	Q7 =84	Q8 =91
Q9 =94	Q10=84	Q11=81	Q12=80	Q13=83	Q14=85	Q15=87	



Photometric Parameters

Luminous Flux: 1254.6 lm Efficiency: 143.72 lm/W Radiant Power: 4.383 W
 EEI: 0.09 Energy Efficiency Class: A++ (EU 874-2012)
 Circopic Flux: 3851.48 lm

Electric Parameters

Voltage: 230.70V Current: 0.0400A Power: 8.73W
 Power Factor: 0.9320 Frequency: 49.99Hz

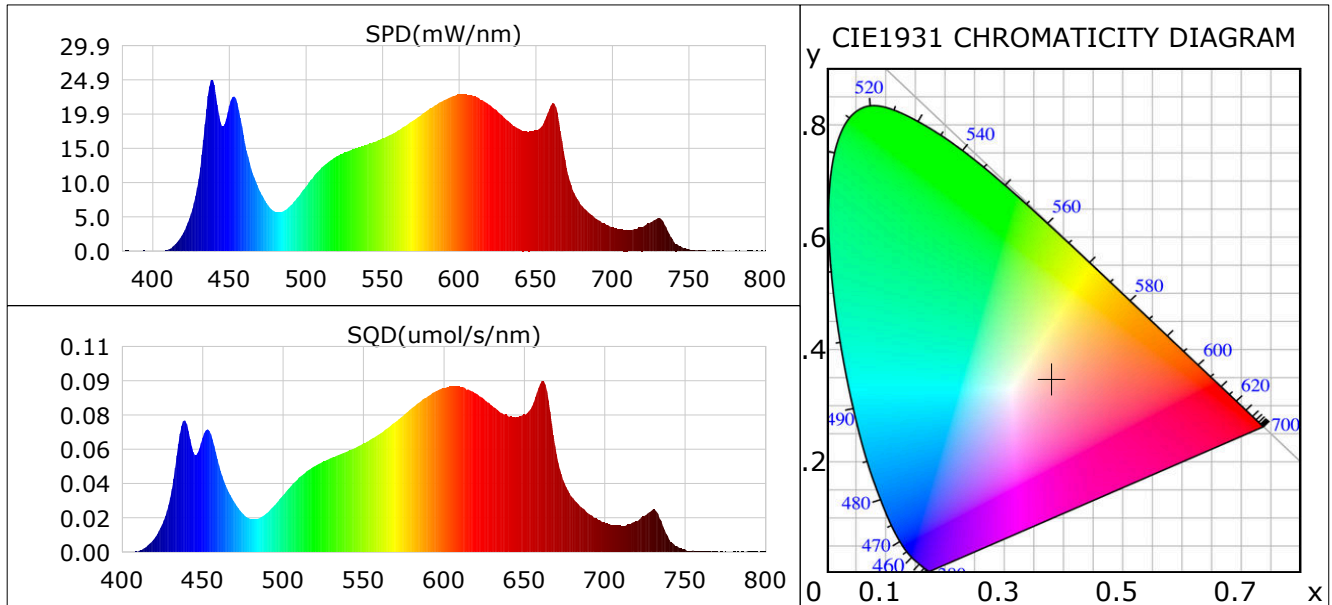
Test Infomation

Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
 Stabilization Time: 0 Sec ALC.: 1.0000 Photometric Condition: Sphere diameter: 1.75m, 4T
 Max of Signal: 47135 (2613) CCD Integration Time: 545.94 ms

Plant optical param data

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 CRI: $R_a=90.4$



Plant Optical Param

$\Phi_v(lm)$: 1254.63	$Q_v(lm.s)$: 1254.63
$\Phi_{e,\lambda}(W/nm)$: 4.38	$Q_e(J)$: 4.38
$\Phi_e(W)$: 4.23	$\Phi_{fr}(W)$: 0.15
η_e : 0.49	η_{fr} : 0.02
$PPE(umol/s/w)$: 2.28	K_{fr} : 0.10
Erb_Ratio : 1.55	$PPF(umol/s)$: 19.92
$PF_{uv}(360-400)(umol/s)$: 0.00	$PPF(400-500)(umol/s)$: 3.80
$PPF(500-600)(umol/s)$: 7.83	$PPF(600-700)(umol/s)$: 8.29
$PPF_{fr}(700-800)(umol/s)$: 0.90	$PPF.t(umol)$: 19.92
$\Phi_{ch-A.t}(J)$: 0.45	$\Phi_{ch-A}(W)$: 0.45
$\Phi_{ch-B.t}(J)$: 0.21	$\Phi_{ch-B}(W)$: 0.21
$\Phi_{b.t}(J)$: 1.00	$\Phi_b(W)$: 1.00
$\Phi_{y.t}(J)$: 1.69	$\Phi_y(W)$: 1.69
$\Phi_{r.t}(J)$: 1.57	$\Phi_r(W)$: 1.57

Electric Parameters

Voltage: 230.70V	Current: 0.0400A	Power: 8.73W
Power Factor: 0.9320	Frequency: 49.99Hz	

Condition: $T_x:20.9^\circ C$, $T_i:22.1^\circ C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: Inventfine CMS-3000S
 Test Time: 2024-10-24 13:41:46
 Inspector: