

Lightsource Test Report

Product Infomation

Product Number: 70cm 21W smd bla

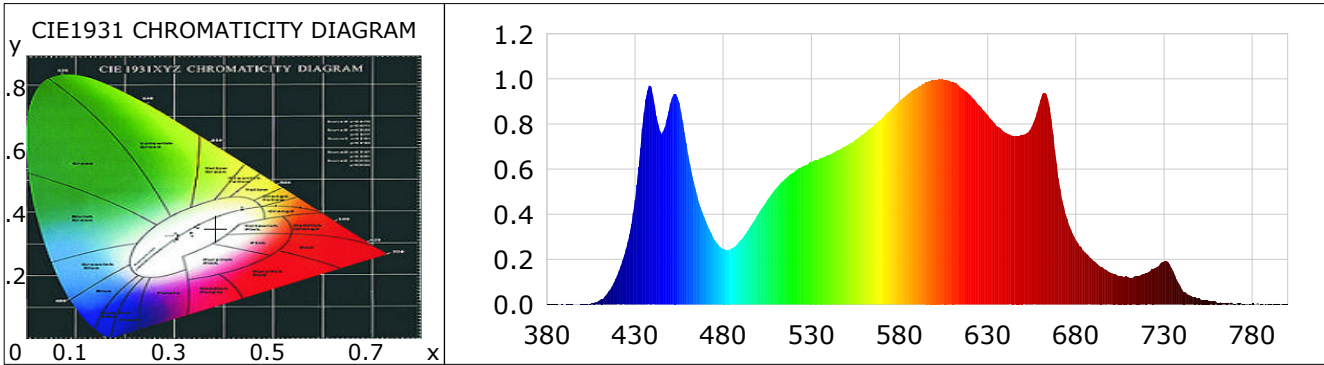
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3832$ $y=0.3481$ $u(u')=0.2391$ $v=0.3258$ $v'=0.4887$
 CCT: $T_c=3676K$ ($duv=-0.01477$) Color Ratio: $R=0.214$ $G=0.751$ $B=0.035$
 Peak Wavelength: 603.9nm Half Bandwidth: 162.9nm
 Dominant Wavelength: 592.6nm Color Purity: 0.194
 CRI: $R_a=89.9$, $avgR(1\sim14)=87.4$, $avgR(1\sim15)=87.6$ TM30: $R_f=84$, $R_g=104$
 GAI: $GAI_BB_8=123.5$, $GAI_BB_15=123.7$, $GAI_EES=90.4$

R1 =92	R2 =94	R3 =93	R4 =89	R5 =93	R6 =91	R7 =87	R8 =80
R9 =55	R10=86	R11=89	R12=86	R13=92	R14=96	R15=91	

Color Quality Scale: $Q_a=84.2$, $Q_f=80.9$, $Q_p=91.1$, $Q_g=104.3$

Q1 =87	Q2 =94	Q3 =76	Q4 =78	Q5 =86	Q6 =87	Q7 =84	Q8 =91
Q9 =95	Q10=84	Q11=81	Q12=80	Q13=83	Q14=84	Q15=86	



Photometric Parameters

Luminous Flux: 3091.7 lm	Efficiency: 144.95 lm/W	Radiant Power: 10.751 W
EEI: 0.09	Energy Efficiency Class: A++ (EU 874-2012)	
Dirtopic Flux: 9304.32 lm		

Electric Parameters

Voltage: 232.40V	Current: 0.1030A	Power: 21.33W
Power Factor: 0.8850	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: 45098 (3946)	CCD Integration Time: 224.44 ms

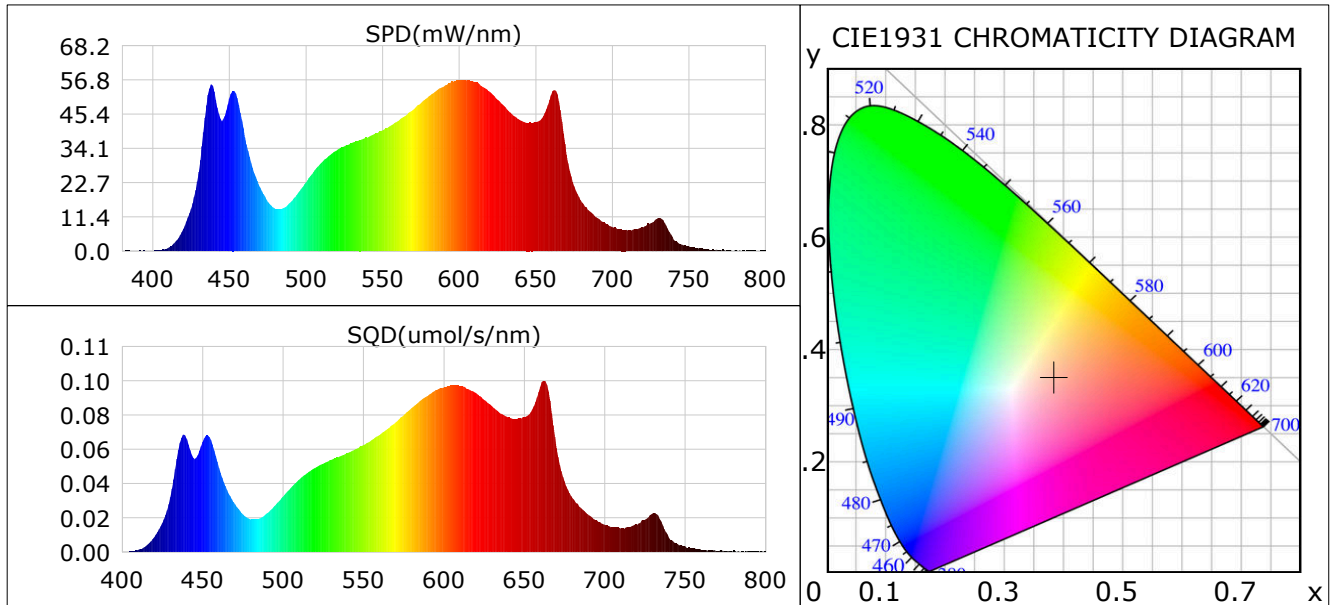
Condition: $T_x:33.6^{\circ}C$, $T_i:34.0^{\circ}C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: Inventfine CMS-3000S
 Test Time: 2024-08-16 14:07:16
 Inspector:

Plant optical param data

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Plant Optical Param

$\Phi_v(lm)$: 3091.70	$Q_v(lm.s)$: 3091.70
$\Phi_{e,\lambda}(W/nm)$: 10.75	$Q_e(J)$: 10.75
$\Phi_e(W)$: 10.39	$\Phi_{fr}(W)$: 0.37
η_e : 0.49	η_{fr} : 0.02
$PPE(umol/s/w)$: 2.30	K_{fr} : 0.10
Erb_Ratio : 1.60	$PPF(umol/s)$: 48.96
$PF_{uv}(360-400)(umol/s)$: 0.01	$PPF(400-500)(umol/s)$: 9.11
$PPF(500-600)(umol/s)$: 19.29	$PPF(600-700)(umol/s)$: 20.56
$PPF_{fr}(700-800)(umol/s)$: 2.21	$PPF.t(umol)$: 48.96
$\Phi_{ch-A.t}(J)$: 1.09	$\Phi_{ch-A}(W)$: 1.09
$\Phi_{ch-B.t}(J)$: 0.51	$\Phi_{ch-B}(W)$: 0.51
$\Phi_b.t(J)$: 2.40	$\Phi_b(W)$: 2.40
$\Phi_y.t(J)$: 4.17	$\Phi_y(W)$: 4.17
$\Phi_r.t(J)$: 3.90	$\Phi_r(W)$: 3.90

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