

Lightsource Test Report

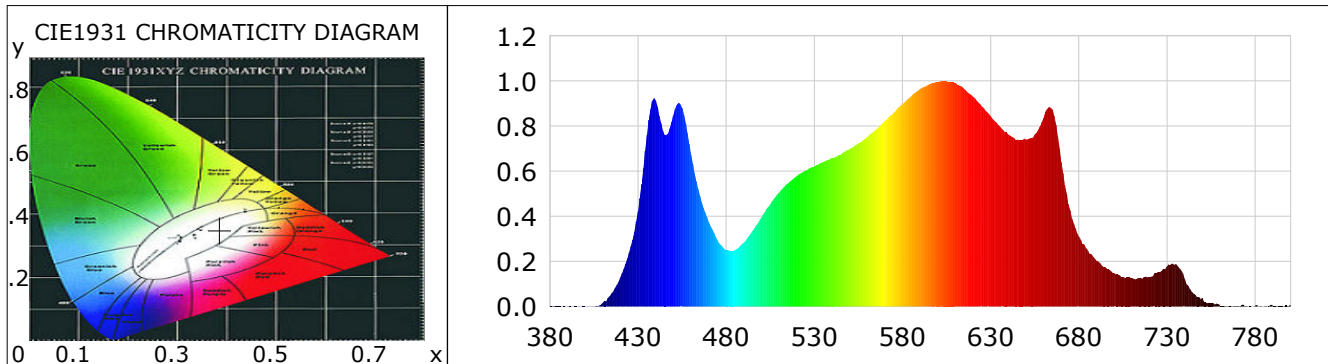
Product Infomation

Product Number: 70cm 14W lens

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3854$ $y=0.3499$ $u(u')=0.2398$ $v=0.3266$ $v'=0.4899$
 CCT: $T_c=3630K$ ($duv=-0.01447$) Color Ratio: $R=0.215$ $G=0.750$ $B=0.035$
 Peak Wavelength: 602.0nm Half Bandwidth: 163.6nm
 Dominant Wavelength: 591.9nm Color Purity: 0.206
 CRI: $R_a=89.9$, $avgR(1\sim14)=87.3$, $avgR(1\sim15)=87.5$ TM30: $R_f=85$, $R_g=104$
 GAI: $GAI_BB_8=123.4$, $GAI_BB_15=123.7$, $GAI_EES=89.2$

R1 =92	R2 =94	R3 =94	R4 =89	R5 =93	R6 =91	R7 =87	R8 =79
R9 =54	R10=86	R11=89	R12=86	R13=92	R14=96	R15=91	
Color Quality Scale: $Q_a=84.3$, $Q_f=81.1$, $Q_p=91.0$, $Q_g=104.0$							
Q1 =87	Q2 =95	Q3 =76	Q4 =78	Q5 =86	Q6 =87	Q7 =84	Q8 =90
Q9 =95	Q10=84	Q11=81	Q12=80	Q13=83	Q14=84	Q15=86	



Photometric Parameters

Luminous Flux: 1918.4 lm	Efficiency: 136.25 lm/W	Radiant Power: 6.685 W
EEI: 0.10	Energy Efficiency Class: A++ (EU 874-2012)	
Dirtpic Flux: 5735.97 lm		

Electric Parameters

Voltage: 230.60V	Current: 0.0670A	Power: 14.08W
Power Factor: 0.9070	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: 45593 (4090)	CCD Integration Time: 376.01 ms

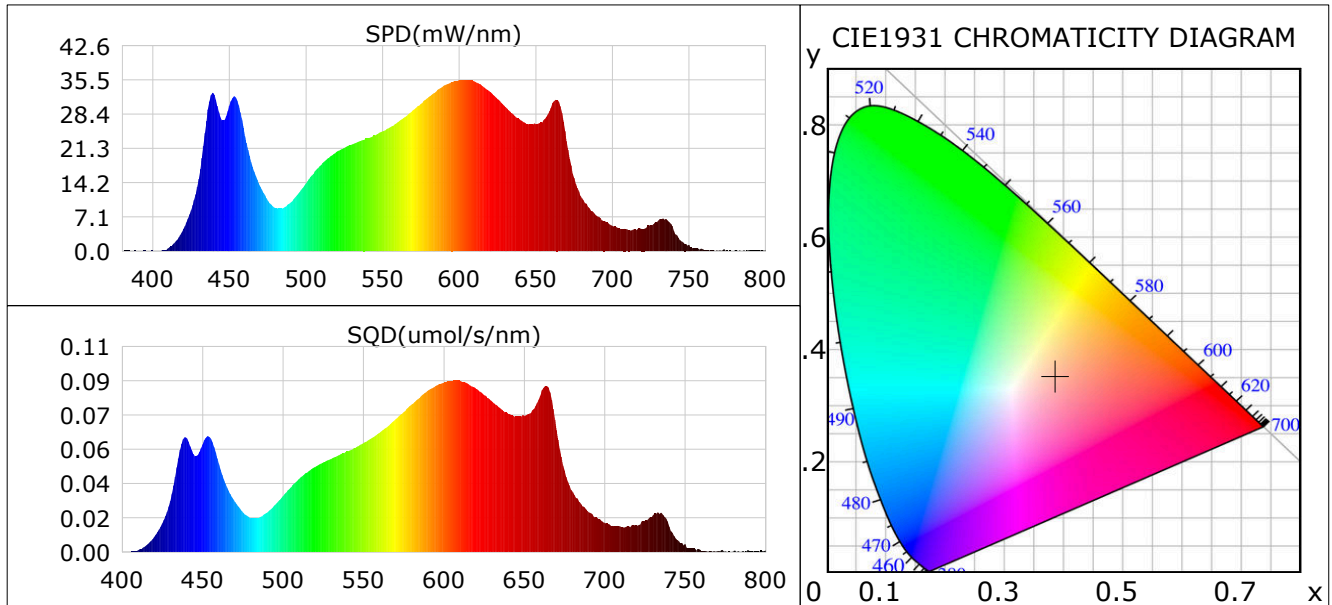
Condition: $T_x=33.4^\circ C$, $T_i=34.0^\circ C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: Inventfine CMS-3000S
 Test Time: 2024-08-16 13:58:14
 Inspector:

Plant optical param data

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Plant Optical Param

$\Phi_v(lm)$: 1918.44	$Q_v(lm.s)$: 1918.44
$\Phi_{e,\lambda}(W/nm)$: 6.68	$Q_e(J)$: 6.68
$\Phi_e(W)$: 6.44	$\Phi_{fr}(W)$: 0.25
η_e : 0.46	η_{fr} : 0.02
$PPE(umol/s/w)$: 2.16	K_{fr} : 0.10
Erb_Ratio : 1.65	$PPF(umol/s)$: 30.43
$PF_{uv}(360-400)(umol/s)$: 0.01	$PPF(400-500)(umol/s)$: 5.56
$PPF(500-600)(umol/s)$: 11.95	$PPF(600-700)(umol/s)$: 12.93
$PPF_{fr}(700-800)(umol/s)$: 1.46	$PPF.t(umol)$: 30.43
$\Phi_{ch-A.t}(J)$: 0.67	$\Phi_{ch-A}(W)$: 0.67
$\Phi_{ch-B.t}(J)$: 0.32	$\Phi_{ch-B}(W)$: 0.32
$\Phi_{b.t}(J)$: 1.46	$\Phi_b(W)$: 1.46
$\Phi_{y.t}(J)$: 2.58	$\Phi_y(W)$: 2.58
$\Phi_{r.t}(J)$: 2.45	$\Phi_r(W)$: 2.45

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