

Lightsource Test Report

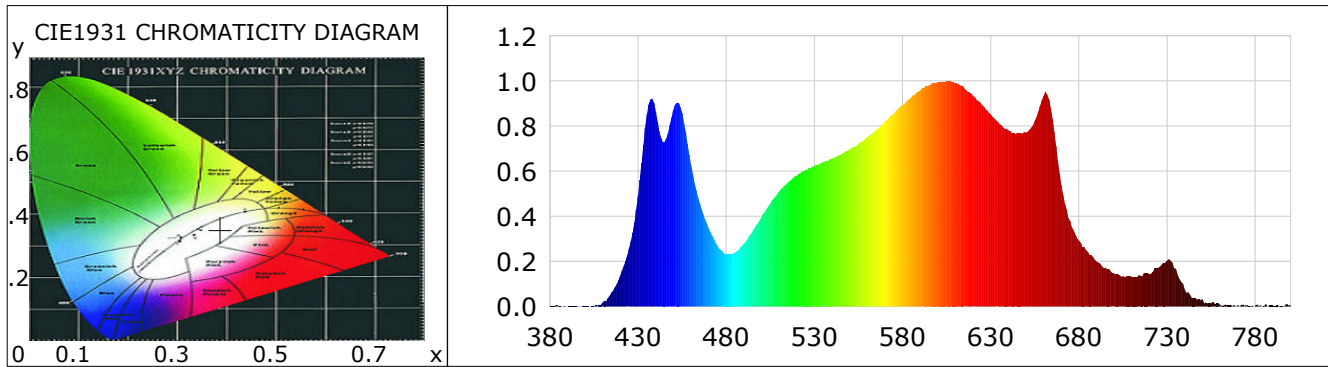
Product Infomation

Product Number: 50cm 10W lens

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3867$ $y=0.3502$ $u(u')=0.2406$ $v=0.3268$ $v'=0.4902$
 CCT: $T_c=3597K$ ($duv=-0.01463$) Color Ratio: $R=0.217$ $G=0.749$ $B=0.034$
 Peak Wavelength: 606.6nm Half Bandwidth: 161.8nm
 Dominant Wavelength: 591.9nm Color Purity: 0.211
 CRI: $R_a=90.0$, $avgR(1\sim14)=87.6$, $avgR(1\sim15)=87.8$ TM30: $R_f=84$, $R_g=105$
 GAI: $GAI_BB_8=125.0$, $GAI_BB_15=124.7$, $GAI_EES=89.5$

R1 =92	R2 =94	R3 =94	R4 =89	R5 =93	R6 =92	R7 =87	R8 =80
R9 =56	R10=86	R11=90	R12=87	R13=92	R14=96	R15=91	
Color Quality Scale: $Q_a=84.4$, $Q_f=80.9$, $Q_p=91.6$, $Q_g=104.8$							
Q1 =87	Q2 =94	Q3 =76	Q4 =79	Q5 =87	Q6 =86	Q7 =84	Q8 =90
Q9 =95	Q10=84	Q11=82	Q12=80	Q13=83	Q14=85	Q15=86	



Photometric Parameters

Luminous Flux: 1512.9 lm	Efficiency: 139.05 lm/W	Radiant Power: 5.272 W
EEI: 0.10	Energy Efficiency Class: A++ (EU 874-2012)	
Dirtopic Flux: 4465.06 lm		

Electric Parameters

Voltage: 230.70V	Current: 0.0540A	Power: 10.88W
Power Factor: 0.8600	Frequency: 49.99Hz	

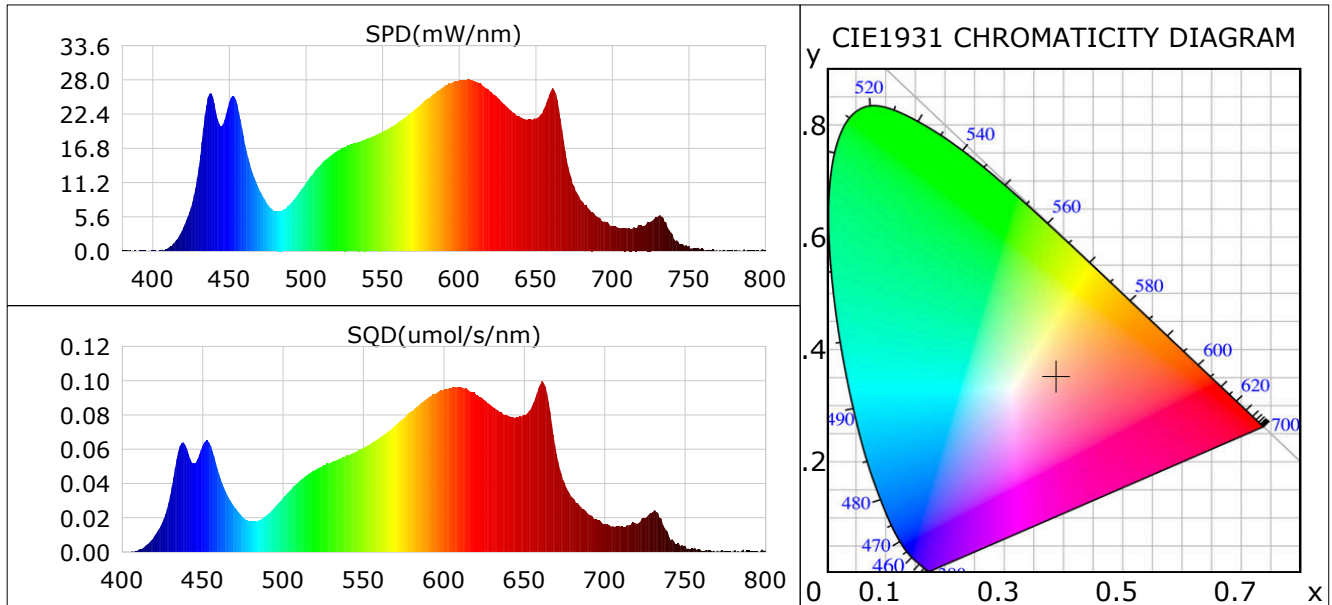
Test Infomation

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: 50774 (4507)	CCD Integration Time: 529.92 ms

Plant optical param data

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 CRI: $R_a=90.0$



Plant Optical Param

$\Phi_v(lm)$: 1512.88	$Q_v(lm.s)$: 1512.88
$\Phi_{e,\lambda}(W/nm)$: 5.27	$Q_e(J)$: 5.27
$\Phi_e(W)$: 5.08	$\Phi_{fr}(W)$: 0.20
η_e : 0.47	η_{fr} : 0.02
$PPE(umol/s/w)$: 2.21	K_{fr} : 0.11
Erb_Ratio : 1.67	$PPF(umol/s)$: 23.99
$PF_{uv}(360-400)(umol/s)$: 0.01	$PPF(400-500)(umol/s)$: 4.35
$PPF(500-600)(umol/s)$: 9.42	$PPF(600-700)(umol/s)$: 10.23
$PPF_{fr}(700-800)(umol/s)$: 1.16	$PPF.t(umol)$: 23.99
$\Phi_{ch-A.t}(J)$: 0.53	$\Phi_{ch-A}(W)$: 0.53
$\Phi_{ch-B.t}(J)$: 0.25	$\Phi_{ch-B}(W)$: 0.25
$\Phi_{b.t}(J)$: 1.14	$\Phi_b(W)$: 1.14
$\Phi_{y.t}(J)$: 2.03	$\Phi_y(W)$: 2.03
$\Phi_{r.t}(J)$: 1.94	$\Phi_r(W)$: 1.94

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Condition: $T_x:33.5^\circ C$, $T_i:33.9^\circ C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: Inventfine CMS-3000S
 Test Time: 2024-08-16 14:02:43
 Inspector: