

Lightsource Test Report

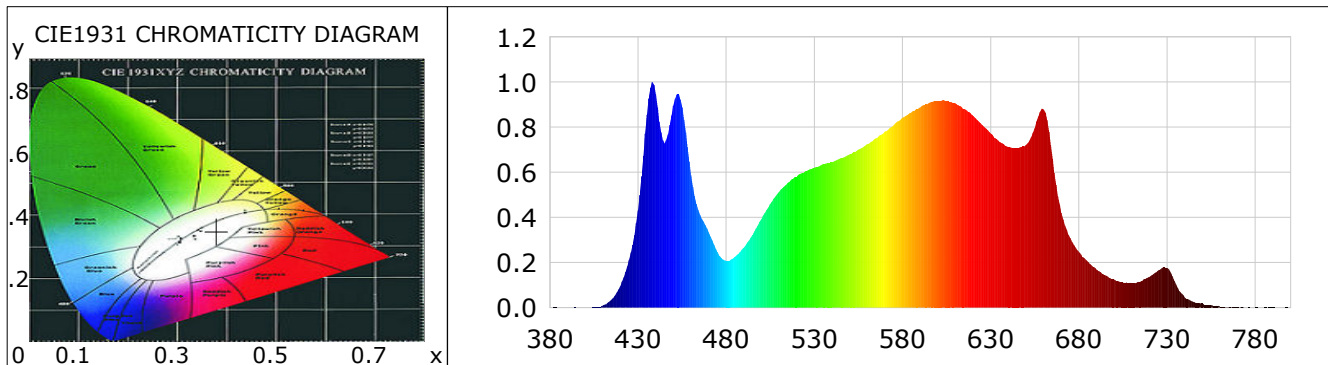
Product Infomation

Product Spec: 0.8M 11W 11:9:1:2:1

Product Number: 0.9m 14W 11:9:1:

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3789$ $y=0.3490$ $u(u')=0.2357$ $v=0.3257$ $v'=0.4885$
 CCT: $T_c=3812K$ ($duv=-0.01313$) Color Ratio: $R=0.208$ $G=0.758$ $B=0.034$
 Peak Wavelength: 438.2nm Half Bandwidth: 30.9nm
 Dominant Wavelength: 611.1nm Color Purity: 0.184
 CRI: $R_a=89.7$, $avgR(1\sim14)=86.8$, $avgR(1\sim15)=87.1$ TM30: $R_f=84$, $R_g=104$
 GAI: $GAI_BB_8=119.9$, $GAI_BB_15=120.5$, $GAI_EES=90.7$
 R1 =92 R2 =93 R3 =92 R4 =89 R5 =92 R6 =90 R7 =88 R8 =82
 R9 =57 R10=83 R11=90 R12=82 R13=92 R14=95 R15=91
 Color Quality Scale: $Q_a=84.5$, $Q_f=81.5$, $Q_p=91.1$, $Q_g=104.0$
 Q1 =88 Q2 =94 Q3 =76 Q4 =78 Q5 =87 Q6 =86 Q7 =85 Q8 =92
 Q9 =94 Q10=84 Q11=82 Q12=81 Q13=84 Q14=85 Q15=86



Photometric Parameters

Luminous Flux: 2177.0 lm Efficiency: 149.83 lm/W Radiant Power: 7.456 W
 EEI: 0.09 Energy Efficiency Class: A++ (EU 874-2012)
 Cirtopic Flux: 6625.52 lm

Electric Parameters

Voltage: 231.50V Current: 0.0680A Power: 14.53W
 Power Factor: 0.9210 Frequency: 49.99Hz

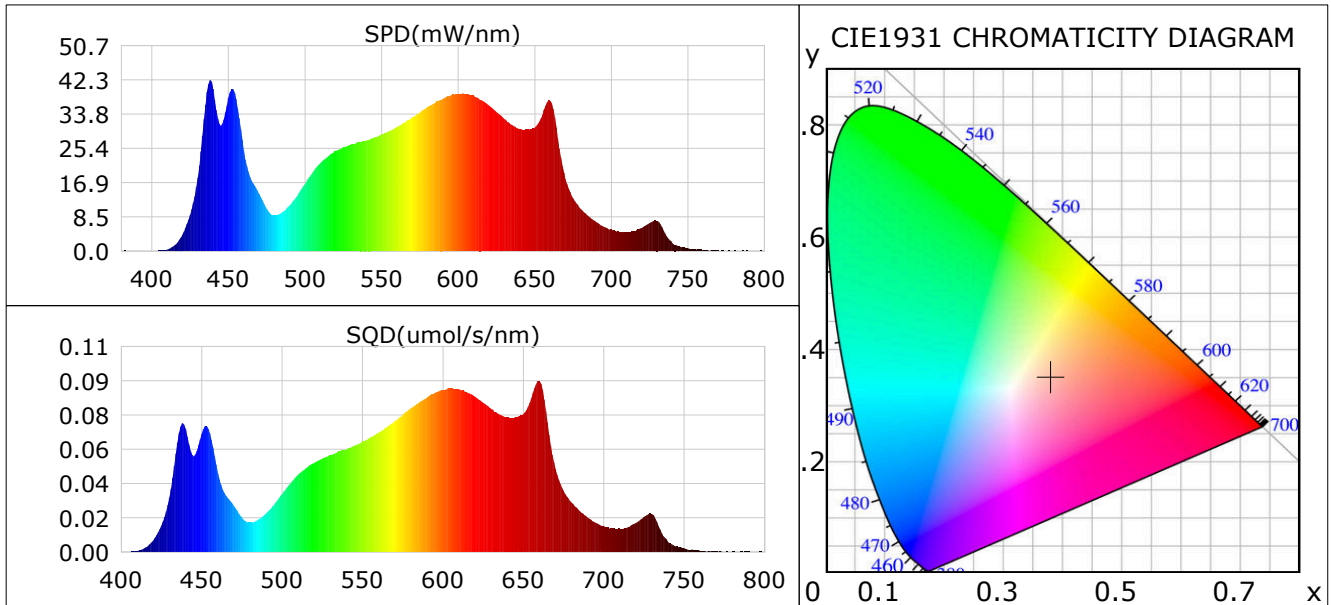
Test Infomation

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: 45484 (2530) CCD Integration Time: 300.58 ms

Plant optical param data

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 Dominant Wavelength: 611.1nm Color Purity: 0.184
 CRI: $R_a=89.7$



Plant Optical Param

$\Phi_v(lm)$: 2177.02	$Q_v(lm.s)$: 2177.02
$\Phi_{e,\lambda}(W/nm)$: 7.46	$Q_e(J)$: 7.46
$\Phi_e(W)$: 7.22	$\Phi_{fr}(W)$: 0.24
η_e : 0.50	η_{fr} : 0.02
$PPE(umol/s/w)$: 2.34	K_{fr} : 0.10
Erb_Ratio : 1.55	$PPF(umol/s)$: 33.95
$PF_{uv}(360-400)(umol/s)$: 0.00	$PPF(400-500)(umol/s)$: 6.39
$PPF(500-600)(umol/s)$: 13.69	$PPF(600-700)(umol/s)$: 13.87
$PPF_{fr}(700-800)(umol/s)$: 1.40	$PPF.t(umol)$: 33.95
$\Phi_{ch-A.t}(J)$: 0.75	$\Phi_{ch-A}(W)$: 0.75
$\Phi_{ch-B.t}(J)$: 0.36	$\Phi_{ch-B}(W)$: 0.36
$\Phi_b.t(J)$: 1.68	$\Phi_b(W)$: 1.68
$\Phi_y.t(J)$: 2.96	$\Phi_y(W)$: 2.96
$\Phi_r.t(J)$: 2.64	$\Phi_r(W)$: 2.64

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Condition: $T_x:21.5^\circ C$, $T_i:22.6^\circ C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: Inventfine CMS-3000S
 Test Time: 2024-10-28 13:28:13
 Inspector: