

Model S 630 W EVO

Lightsource Test Report

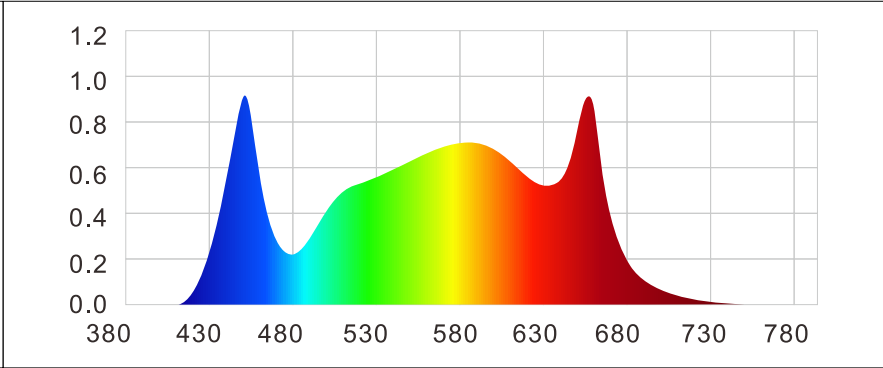
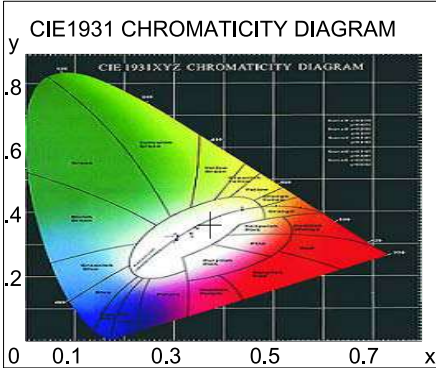
Product Information

Product Category: L7008-3030-367-4.02
 Product Spec: 630W 230V

Product Type: S 4000KEVO72+4000K157+6500k128+OSRAM 660NM 9 R
 Product Number: 2300378

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3726$ $y=0.3643$ $u(u')=0.2249$ $v=0.3299$ $v'=0.4948$
 CCT: $T_c=4134K$ ($duv=-0.00358$) Color Ratio: R=0.180 G=0.783 B=0.036
 Peak Wavelength: 448.6nm Half Bandwidth: 29.4nm
 Dominant Wavelength: 581.0nm Color Purity: 0.211
 Central Wave: 447.4nm Gravity Wave: 448.0nm
 CRI: Ra= 88.2, avgR(1~14)= 83.9, avgR(1~15)= 83.9 TM30: Rf= 84, Rg= 99
 GAI: GAI_BB_8=100.1, GAI_BB_15=104.1, GAI_EES=81.0
 R1 =83 R2 =89 R3 =92 R4 =85 R5 =84 R6 =84 R7 =88 R8 =74
 R9 =31 R10=74 R11=84 R12=70 R13=84 R14=96 R15=81
 Color Quality Scale: Qa= 83.8, Qf= 83.1, Qp= 85.8, Qg= 96.9
 Q1 =86 Q2 =96 Q3 =78 Q4 =77 Q5 =83 Q6 =85 Q7 =86 Q8 =90
 Q9 =96 Q10=86 Q11=83 Q12=82 Q13=83 Q14=78 Q15=81



Photometric Parameters

Luminous Flux: 118556 lm Efficiency: 185.74 lm/W Radiant Power: 380.825 W
 Total mains efficacy: 185.74 lm/W Energy Efficiency Class: B (EU 2019/2015)
 Auxiliary lamp correction factor: 1.67

Electric Parameters

Voltage: 228.30V Current: 2.8300A Power: 638.30W
 Power Factor: 0.9880 Frequency: 60.00Hz

Test Information

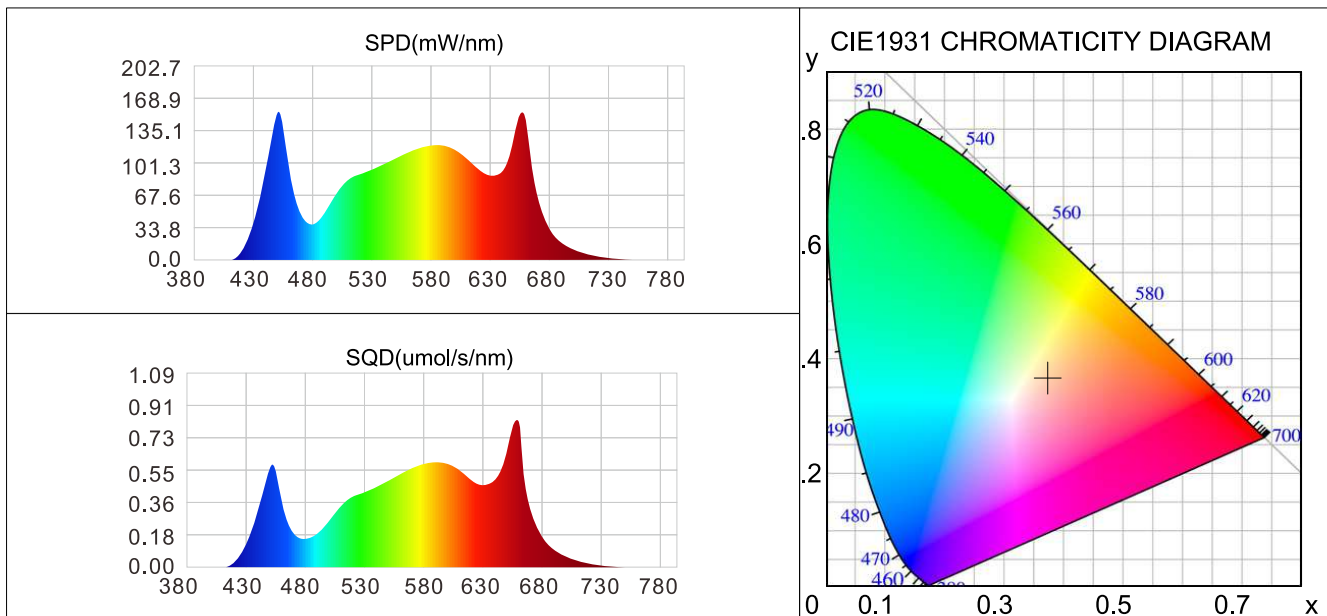
Scan Range: 380~800:1nm Photometric Method: sphere-photometer (spec_rev)
 Stabilization Time: 15 Sec ALC.: 1.6692 Photometric Condition: Sphere diameter: 2.00m, 4
 Max of Signal: 41091 (2828) CCD Integration Time: 16.74 ms

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Plant optical param data

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 CCT: $T_c=4134K$ ($duv=-0.00358$) Color Ratio: $R=0.180$ $G=0.783$ $B=0.036$
 Peak Wavelength: 448.6nm Half Bandwidth: 29.4nm
 Dominant Wavelength: 581.0nm Color Purity: 0.211
 CRI: $R_a=84.9$



Plant Optical Param $v(lm): 118556.55$

$Q_v(lm.s): 118556.55$

Φ	$Q_e(J): 380.82$
$\Phi_e, \lambda(W/nm): 380.82$	$\Phi_{fr}(W): 4.87$
$\Phi_e(W): 376.05$	$\eta_{fr}: 0.01$
$\eta_e: 0.59$	$K_{fr}: 0.04$
$PPE(umol/s/w): 2.76$	$PPF(umol/s): 1759.79$
$Erb_Ratio: 1.41$	$PPF(400-500)(umol/s): 333.20$
$PF_{uv}(360-400)(umol/s): 0.41$	$PPF(600-700)(umol/s): 658.38$
$PPF(500-600)(umol/s): 768.18$	$PPF.t(umol): 1759.79$
$PPF_r(700-800)(umol/s): 28.29$	$\Phi_{ch-A}(W): 37.17$
$\Phi_{ch-A.t}(J): 37.17$	$\Phi_{ch-B}(W): 18.16$
$\Phi_{ch-B.t}(J): 18.16$	$\Phi_b(W): 87.32$
$\Phi_b.t(J): 87.32$	$\Phi_y(W): 166.48$
$\Phi_y.t(J): 166.48$	$\Phi_r(W): 125.24$
$\Phi_r.t(J): 125.24$	

Electric Parameters

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Power Factor: 0.9880	Frequency: 60.00Hz	

Condition: $T_x:32.8^\circ C$, $T_i:32.8^\circ C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: CMS-3000S
 Test Time: 2023-05-20 17:06:07
 Inspector: