

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-G125-4FS-4W-WWC
 Manufacturer: METOLIGHT
 Buyer: 4545

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 101010

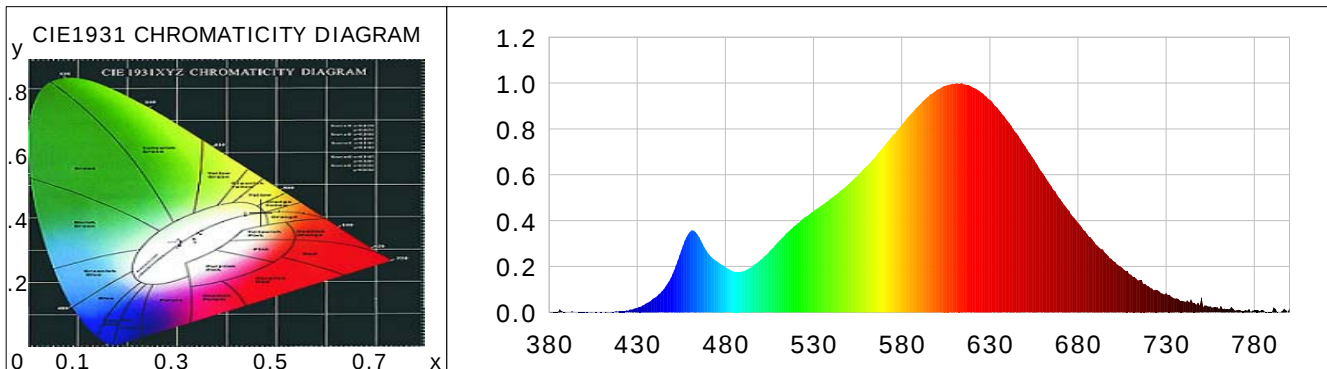
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4696$ $y=0.4196$ $u(u')=0.2647$ $v=0.3548$ $v'=0.5322$
 CCT: $T_c=2637K$ ($duv=0.00250$) Color Ratio: $R=0.257$ $G=0.722$ $B=0.022$
 Peak Wavelength: 613.8nm Half Bandwidth: 128.8nm
 Dominant Wavelength: 583.8nm Color Purity: 0.669
 CRI: $R_a=83.9$, $avgR(1\sim14)=78.9$, $avgR(1\sim15)=78.7$ TM30: $R_f=84$, $R_g=92$
 GAI: $GAI_BB_8=82.3$, $GAI_BB_15=93.0$, $GAI_EES=38.3$

R1 =82	R2 =92	R3 =98	R4 =80	R5 =82	R6 =91	R7 =83	R8 =63
R9 =20	R10=81	R11=78	R12=71	R13=84	R14=99	R15=76	

Color Quality Scale: $Q_a=83.5$, $Q_f=86.4$, $Q_p=83.6$, $Q_g=87.0$

Q1 =80	Q2 =93	Q3 =86	Q4 =80	Q5 =80	Q6 =81	Q7 =83	Q8 =89
Q9 =94	Q10=91	Q11=88	Q12=86	Q13=85	Q14=75	Q15=78	



Photometric Parameters

Luminous Flux: 488.80 lm	Efficiency: 117.78 lm/W	Radiant Power: 1.551 W
Total mains efficacy: 117.78 lm/W	Energy Efficiency Class: E (EU 2019/2015)	
Pupil Flux: 556.51 Plm	Pupil Lumens Per Watt: 134.10 Plm/W	Pupil Factor (Kp): 1.139
Cirtpic Flux: 958.86 lm		

Electric Parameters

Voltage: 230.80V	Current: 0.0350A	Power: 4.15W
Power Factor: 0.5020	Frequency: 49.99Hz	

Test Information

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 ms ALC.: 1.0000	Photometric Condition: Sphere diameter: 2.00m, 4PI
Max of Signal: 45625 (3084)	CCD Integration Time: 831.52 ms

Condition: Tx:0.0°C, Ti:0.0°C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-04-28 10:28:12
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0009	0.0094	525	0.4143	4.3802	670	0.4933	5.2156
385	0.0019	0.0200	530	0.4402	4.6542	675	0.4428	4.6819
390	0.0011	0.0114	535	0.4677	4.9453	680	0.3908	4.1321
395	0.0005	0.0057	540	0.4979	5.2644	685	0.3424	3.6206
400	0.0011	0.0118	545	0.5283	5.5852	690	0.2960	3.1300
405	0.0003	0.0030	550	0.5598	5.9190	695	0.2615	2.7644
410	0.0010	0.0104	555	0.5964	6.3050	700	0.2236	2.3638
415	0.0033	0.0344	560	0.6368	6.7324	705	0.1947	2.0582
420	0.0059	0.0623	565	0.6767	7.1545	710	0.1647	1.7413
425	0.0075	0.0789	570	0.7254	7.6695	715	0.1415	1.4964
430	0.0191	0.2020	575	0.7728	8.1706	720	0.1135	1.2004
435	0.0385	0.4074	580	0.8173	8.6412	725	0.0970	1.0260
440	0.0639	0.6760	585	0.8627	9.1208	730	0.0832	0.8800
445	0.1011	1.0687	590	0.9041	9.5593	735	0.0598	0.6323
450	0.1666	1.7612	595	0.9408	9.9471	740	0.0483	0.5112
455	0.2708	2.8629	600	0.9704	10.2594	745	0.0424	0.4478
460	0.3522	3.7237	605	0.9883	10.4494	750	0.0642	0.6792
465	0.3282	3.4701	610	0.9958	10.5280	755	0.0262	0.2770
470	0.2587	2.7347	615	0.9948	10.5181	760	0.0146	0.1538
475	0.2235	2.3625	620	0.9817	10.3794	765	0.0135	0.1431
480	0.1968	2.0805	625	0.9588	10.1372	770	0.0092	0.0971
485	0.1768	1.8694	630	0.9268	9.7988	775	0.0103	0.1093
490	0.1788	1.8899	635	0.8837	9.3430	780	0.0088	0.0928
495	0.1993	2.1070	640	0.8339	8.8164	785	0.0095	0.1010
500	0.2292	2.4236	645	0.7822	8.2696	790	0.0013	0.0142
505	0.2667	2.8198	650	0.7249	7.6637	795	0.0024	0.0255
510	0.3076	3.2520	655	0.6661	7.0422	800	0.0178	0.1886
515	0.3471	3.6696	660	0.6072	6.4199			
520	0.3806	4.0242	665	0.5485	5.7990			

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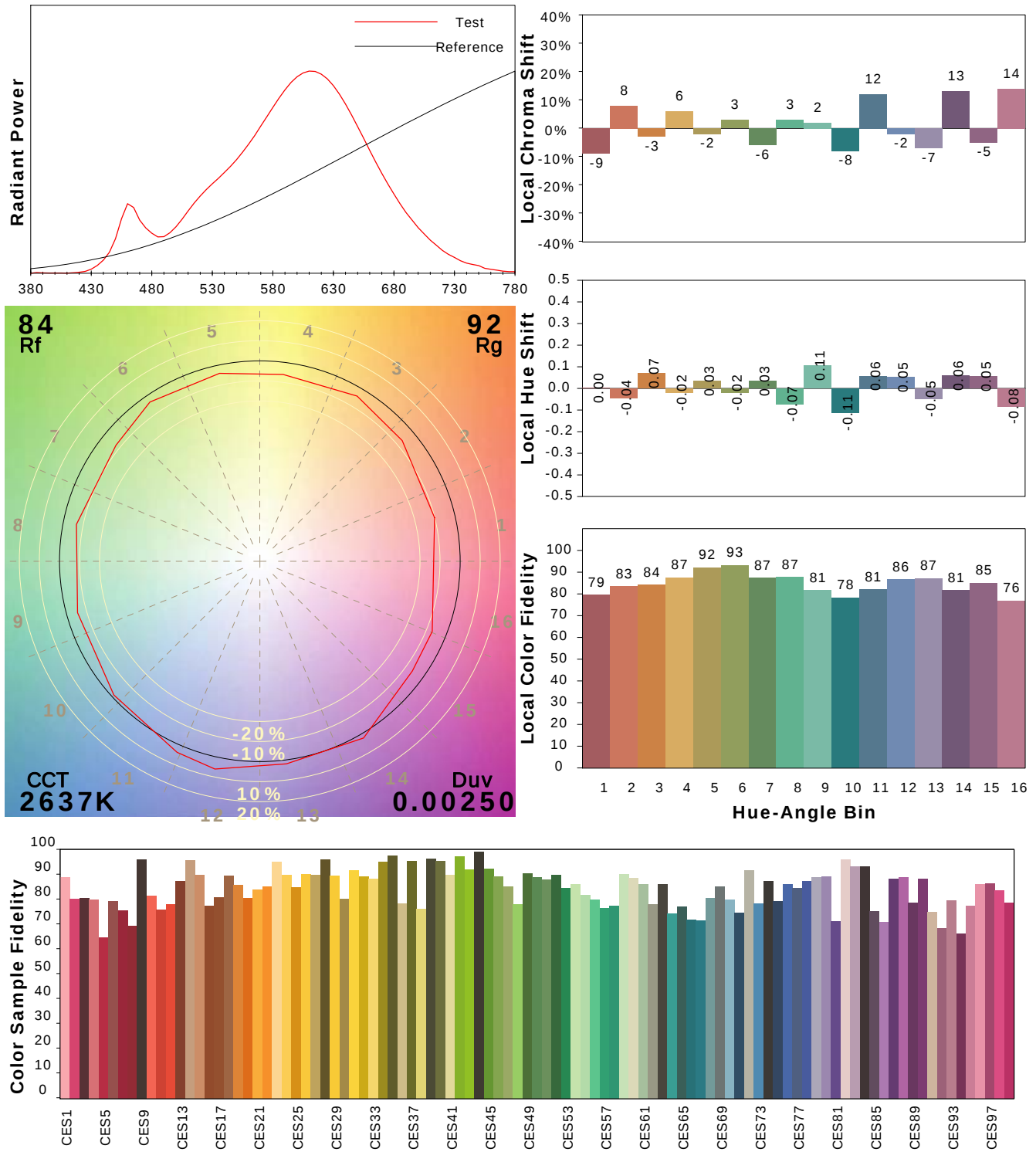
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IES TM-30-18 Color Rendition Report

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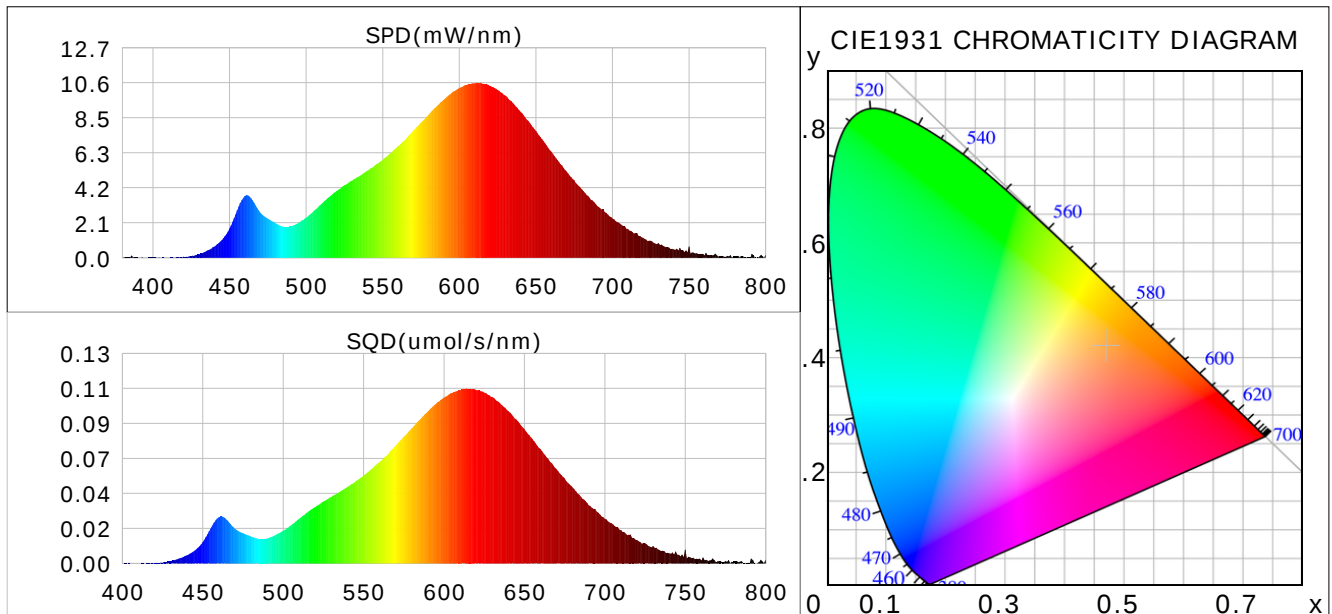
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Plant optical param data

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 CRI: Ra= 83.9



Plant Optical Param

$\mu_v(lm): 488.80$	$Q_v(lm.s): 488.80$
$\mu_e, \dot{E}(W/nm): 1.55$	$Q_e(J): 1.55$
$\mu_e(W): 1.49$	$\mu_{fr}(W): 0.06$
$\dot{C}_e: 0.36$	$\dot{C}_{fr}: 0.02$
$PPE(umol/s/w): 1.77$	$K_{fr}: 0.09$
$Erb_Ratio: 5.00$	$PPF(umol/s): 7.35$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 0.57$
$PPF(500-600)(umol/s): 2.93$	$PPF(600-700)(umol/s): 3.86$
$PF_{fr}(700-800)(umol/s): 0.37$	$PPF.t(umol): 7.35$
$\mu_{ch-A.t}(J): 0.12$	$\mu_{ch-A}(W): 0.12$
$\mu_{ch-B.t}(J): 0.06$	$\mu_{ch-B}(W): 0.06$
$\mu_b.t(J): 0.14$	$\mu_b(W): 0.14$
$\mu_y.t(J): 0.63$	$\mu_y(W): 0.63$
$\mu_r.t(J): 0.73$	$\mu_r(W): 0.73$

Electric Parameters

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