

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-G45-3W-WWC-3790
 Manufacturer: METOLIGHT
 Buyer: 3790

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 100332

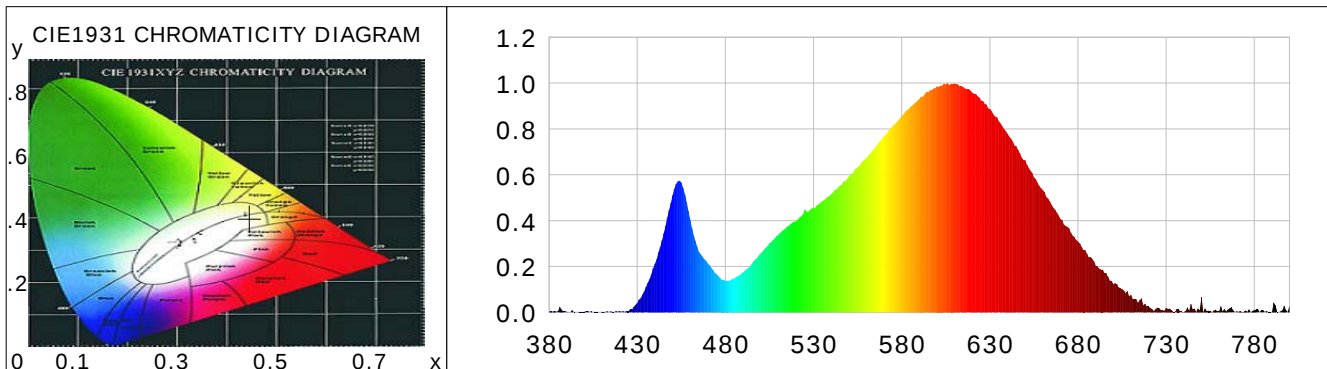
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4465$ $y=0.3996$ $u(u')=0.2587$ $v=0.3474$ $v'=0.5211$
 CCT: $T_c=2810K$ ($duv=-0.00290$) Color Ratio: $R=0.243$ $G=0.735$ $B=0.022$
 Peak Wavelength: 605.9nm Half Bandwidth: 125.1nm
 Dominant Wavelength: 584.7nm Color Purity: 0.540
 CRI: $R_a=82.0$, $avgR(1\sim14)=76.7$, $avgR(1\sim15)=76.5$ TM30: $R_f=83$, $R_g=97$
 GAI: $GAI_BB_8=103.8$, $GAI_BB_15=111.4$, $GAI_EES=53.9$

R1 =80	R2 =91	R3 =96	R4 =79	R5 =80	R6 =88	R7 =81	R8 =60
R9 =13	R10=78	R11=77	R12=69	R13=83	R14=98	R15=75	

Color Quality Scale: $Q_a=80.5$, $Q_f=81.2$, $Q_p=84.9$, $Q_g=93.9$

Q1 =78	Q2 =95	Q3 =79	Q4 =76	Q5 =80	Q6 =81	Q7 =79	Q8 =82
Q9 =95	Q10=87	Q11=83	Q12=80	Q13=81	Q14=73	Q15=75	



Photometric Parameters

Luminous Flux: 197.03 lm	Efficiency: 64.81 lm/W	Radiant Power: 0.601 W
Total mains efficacy: 64.81 lm/W	Energy Efficiency Class: G (EU 2019/2015)	
Pupil Flux: 235.28 Plm	Pupil Lumens Per Watt: 77.40 Plm/W	Pupil Factor (Kp): 1.194
Cirtpic Flux: 418.60 lm		

Electric Parameters

Voltage: 230.80V	Current: 0.0260A	Power: 3.04W
Power Factor: 0.5070	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: 21853 (3062)	CCD Integration Time: 1000.00 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 13:17:41
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0032	0.0132	525	0.4483	1.8553	670	0.4079	1.6883
385	0.0052	0.0214	530	0.4532	1.8757	675	0.3661	1.5153
390	0.0030	0.0126	535	0.4851	2.0079	680	0.3092	1.2797
395	0.0004	0.0018	540	0.5165	2.1379	685	0.2562	1.0604
400	0.0031	0.0129	545	0.5532	2.2897	690	0.2040	0.8442
405	0.0004	0.0015	550	0.5908	2.4451	695	0.1694	0.7011
410	0.0026	0.0108	555	0.6316	2.6140	700	0.1230	0.5090
415	0.0047	0.0193	560	0.6726	2.7836	705	0.1011	0.4185
420	0.0054	0.0222	565	0.7209	2.9838	710	0.0767	0.3176
425	0.0056	0.0232	570	0.7661	3.1707	715	0.0534	0.2210
430	0.0401	0.1658	575	0.8144	3.3708	720	0.0260	0.1075
435	0.1114	0.4610	580	0.8560	3.5427	725	0.0205	0.0849
440	0.2105	0.8711	585	0.8966	3.7110	730	0.0189	0.0782
445	0.3455	1.4300	590	0.9310	3.8532	735	0.0034	0.0142
450	0.5099	2.1106	595	0.9588	3.9683	740	0.0017	0.0069
455	0.5662	2.3433	600	0.9857	4.0795	745	0.0138	0.0570
460	0.4044	1.6740	605	0.9937	4.1129	750	0.0675	0.2794
465	0.2631	1.0891	610	0.9985	4.1328	755	0.0069	0.0287
470	0.2133	0.8826	615	0.9829	4.0679	760	0.0054	0.0223
475	0.1662	0.6879	620	0.9583	3.9663	765	0.0119	0.0491
480	0.1371	0.5675	625	0.9239	3.8238	770	0.0045	0.0188
485	0.1469	0.6082	630	0.8866	3.6694	775	0.0079	0.0325
490	0.1741	0.7208	635	0.8340	3.4518	780	0.0098	0.0406
495	0.2108	0.8727	640	0.7785	3.2222	785	0.0092	0.0382
500	0.2570	1.0637	645	0.7241	2.9970	790	0.0000	0.0001
505	0.3012	1.2468	650	0.6632	2.7449	795	0.0045	0.0188
510	0.3381	1.3995	655	0.5884	2.4354	800	0.0303	0.1254
515	0.3738	1.5470	660	0.5338	2.2093			
520	0.3965	1.6411	665	0.4696	1.9436			

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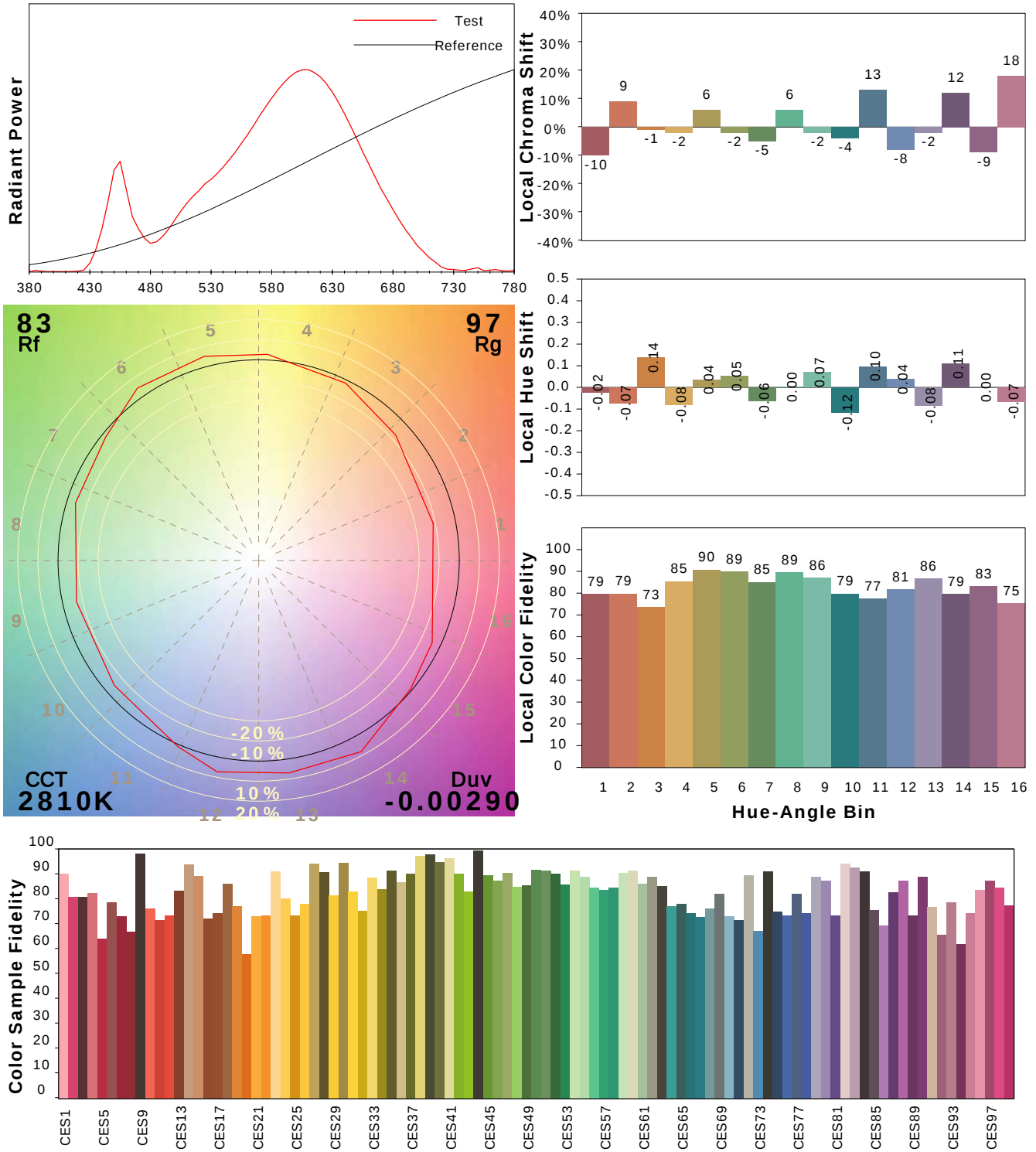
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IES TM-30-18 Color Rendition Report

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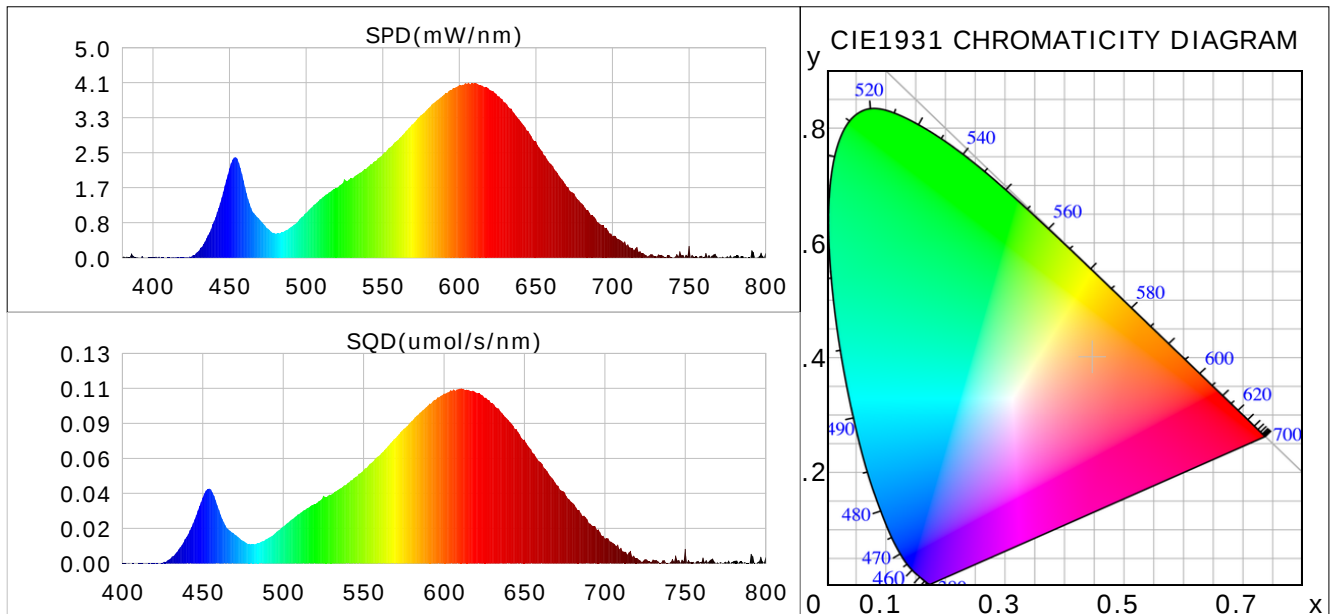
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Plant optical param data

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 CRI: Ra= 82.0



Plant Optical Param

$\mu_v(lm): 197.03$	$Q_v(lm.s): 197.03$
$\mu_e, \dot{E}(W/nm): 0.60$	$Q_e(J): 0.60$
$\mu_e(W): 0.59$	$\mu_{fr}(W): 0.01$
$\dot{C}_e: 0.19$	$\dot{C}_{fr}: 0.00$
$PPE(umol/s/w): 0.95$	$K_{fr}: 0.02$
$Erb_Ratio: 3.41$	$PPF(umol/s): 2.88$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 0.29$
$PPF(500-600)(umol/s): 1.20$	$PPF(600-700)(umol/s): 1.38$
$PF_{fr}(700-800)(umol/s): 0.06$	$PPF.t(umol): 2.88$
$\mu_{ch-A.t}(J): 0.05$	$\mu_{ch-A}(W): 0.05$
$\mu_{ch-B.t}(J): 0.02$	$\mu_{ch-B}(W): 0.02$
$\mu_b.t(J): 0.08$	$\mu_b(W): 0.08$
$\mu_y.t(J): 0.26$	$\mu_y(W): 0.26$
$\mu_r.t(J): 0.26$	$\mu_r(W): 0.26$

Electric Parameters

Voltage: 230.80V	Current: 0.0260A	Power: 3.04W
Power Factor: 0.5070	Frequency: 49.99Hz	

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