

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-Q8-5W-WW-dim
 Manufacturer: METOLIGHT
 Buyer: 2801

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 100365

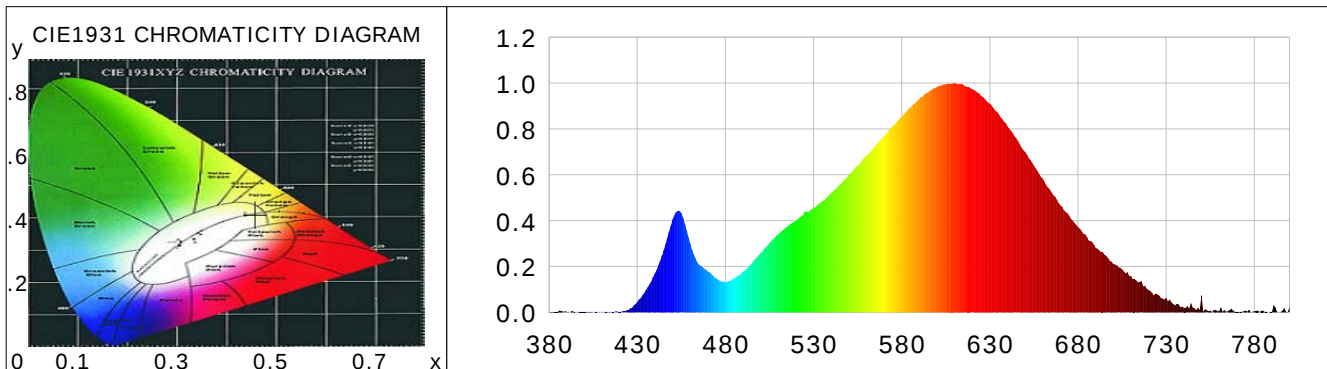
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4582$ $y=0.4124$ $u(u')=0.2606$ $v=0.3518$ $v'=0.5278$
 CCT: $T_c=2738K$ ($duv=0.00079$) Color Ratio: $R=0.246$ $G=0.734$ $B=0.020$
 Peak Wavelength: 610.0nm Half Bandwidth: 129.9nm
 Dominant Wavelength: 583.8nm Color Purity: 0.613
 CRI: $R_a=82.3$, $avgR(1\sim14)=76.7$, $avgR(1\sim15)=76.5$ TM30: $R_f=84$, $R_g=96$
 GAI: $GAI_BB_8=91.6$, $GAI_BB_15=99.8$, $GAI_EES=45.6$

R1 =80	R2 =90	R3 =97	R4 =80	R5 =80	R6 =87	R7 =83	R8 =61
R9 =15	R10=76	R11=77	R12=67	R13=82	R14=98	R15=74	

Color Quality Scale: $Q_a=82.1$, $Q_f=84.2$, $Q_p=83.8$, $Q_g=91.1$

Q1 =79	Q2 =95	Q3 =82	Q4 =78	Q5 =81	Q6 =81	Q7 =81	Q8 =85
Q9 =95	Q10=89	Q11=86	Q12=84	Q13=83	Q14=74	Q15=76	



Photometric Parameters

Luminous Flux: 346.79 lm	Efficiency: 74.74 lm/W	Radiant Power: 1.080 W
Total mains efficacy: 74.74 lm/W	Energy Efficiency Class: G (EU 2019/2015)	
Pupil Flux: 400.00 Plm	Pupil Lumens Per Watt: 86.21 Plm/W	Pupil Factor (Kp): 1.153
Cirtpic Flux: 688.26 lm		

Electric Parameters

Voltage: 230.80V	Current: 0.0270A	Power: 4.64W
Power Factor: 0.7210	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: 35970 (3246)	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 15:11:05
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0016	0.0114	525	0.4406	3.1947	670	0.4673	3.3883
385	0.0038	0.0277	530	0.4552	3.3006	675	0.4220	3.0594
390	0.0029	0.0209	535	0.4848	3.5152	680	0.3715	2.6937
395	0.0005	0.0036	540	0.5221	3.7857	685	0.3288	2.3837
400	0.0029	0.0208	545	0.5578	4.0443	690	0.2807	2.0354
405	0.0003	0.0023	550	0.5990	4.3427	695	0.2509	1.8193
410	0.0008	0.0055	555	0.6397	4.6381	700	0.2113	1.5321
415	0.0026	0.0187	560	0.6829	4.9512	705	0.1873	1.3582
420	0.0041	0.0295	565	0.7276	5.2751	710	0.1591	1.1535
425	0.0079	0.0570	570	0.7686	5.5727	715	0.1333	0.9665
430	0.0438	0.3172	575	0.8128	5.8928	720	0.0971	0.7042
435	0.0979	0.7095	580	0.8541	6.1923	725	0.0789	0.5718
440	0.1689	1.2248	585	0.8941	6.4823	730	0.0630	0.4566
445	0.2709	1.9642	590	0.9308	6.7485	735	0.0309	0.2237
450	0.4044	2.9319	595	0.9580	6.9459	740	0.0203	0.1470
455	0.4324	3.1353	600	0.9828	7.1254	745	0.0215	0.1561
460	0.2996	2.1723	605	0.9932	7.2014	750	0.0736	0.5340
465	0.2074	1.5034	610	1.0000	7.2504	755	0.0082	0.0594
470	0.1785	1.2940	615	0.9914	7.1877	760	0.0050	0.0364
475	0.1478	1.0716	620	0.9734	7.0579	765	0.0056	0.0404
480	0.1314	0.9529	625	0.9444	6.8471	770	0.0016	0.0118
485	0.1474	1.0687	630	0.9096	6.5950	775	0.0083	0.0604
490	0.1769	1.2823	635	0.8643	6.2664	780	0.0048	0.0346
495	0.2132	1.5457	640	0.8108	5.8789	785	0.0072	0.0525
500	0.2586	1.8753	645	0.7595	5.5064	790	0.0011	0.0081
505	0.3027	2.1950	650	0.7002	5.0764	795	0.0024	0.0174
510	0.3401	2.4662	655	0.6396	4.6371	800	0.0235	0.1705
515	0.3739	2.7109	660	0.5834	4.2301			
520	0.3999	2.8991	665	0.5230	3.7921			

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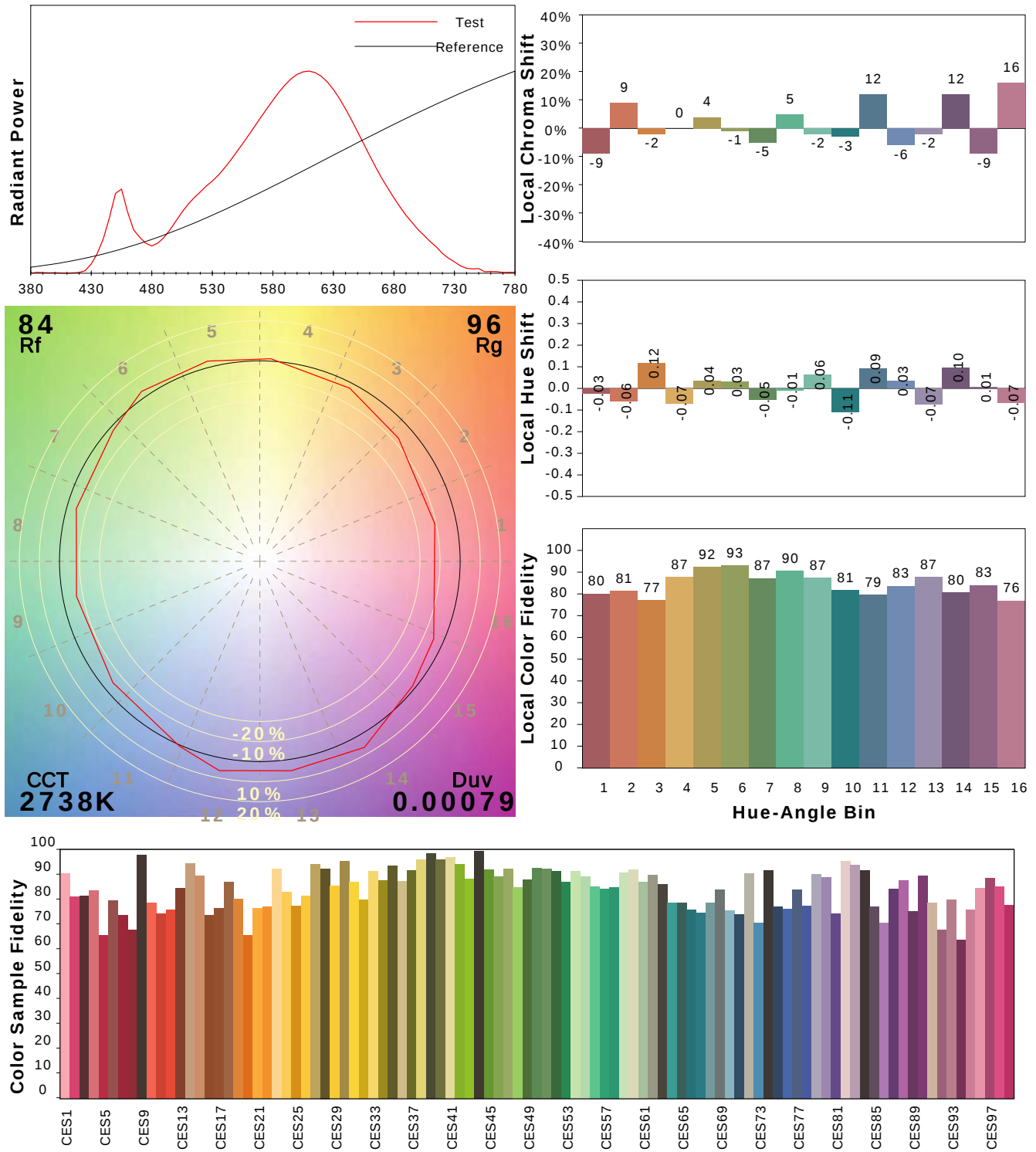
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IES TM-30-18 Color Rendition Report

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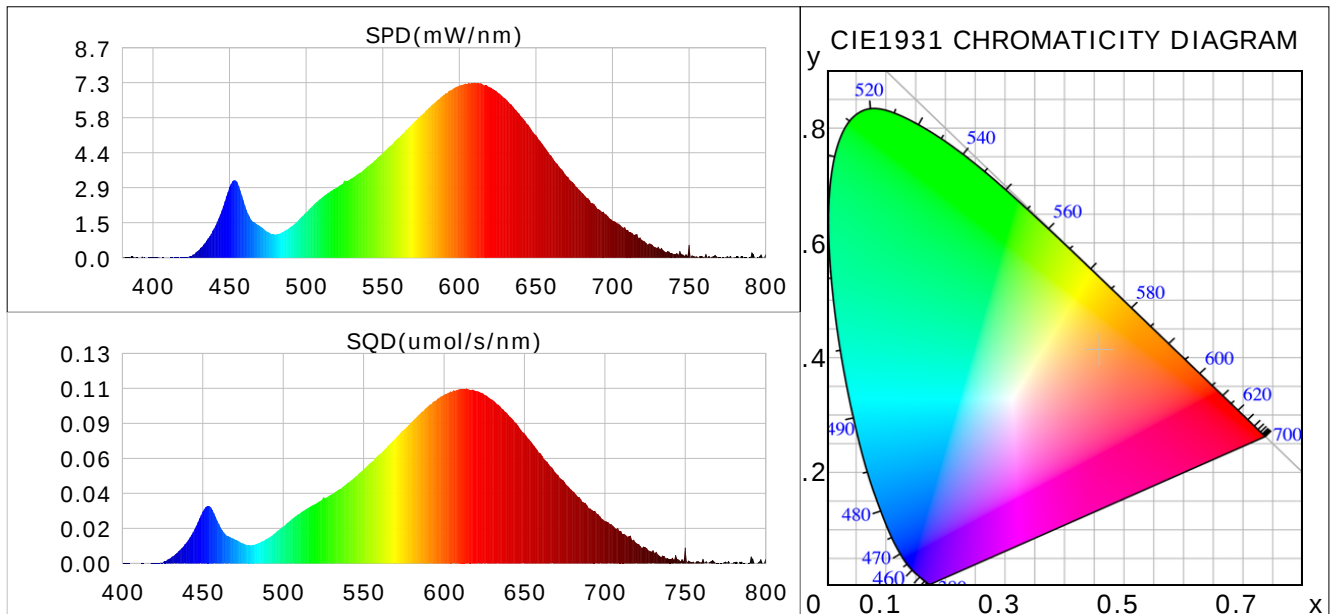
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Plant optical param data

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 CRI: Ra= 82.3



Plant Optical Param

$\mu_v(lm)$: 346.79	$Q_v(lm.s)$: 346.79
$\mu_e, \dot{E}(W/nm)$: 1.08	$Q_e(J)$: 1.08
$\mu_e(W)$: 1.05	$\mu_{fr}(W)$: 0.04
$\dot{C}_e$: 0.23	$\dot{C}_{fr}$: 0.01
$PPE(umol/s/w)$: 1.11	K_{fr} : 0.04
Erb_Ratio : 4.31	$PPF(umol/s)$: 5.13
$PF_{uv}(360-400)(umol/s)$: 0.00	$PPF(400-500)(umol/s)$: 0.43
$PPF(500-600)(umol/s)$: 2.11	$PPF(600-700)(umol/s)$: 2.58
$PF_{fr}(700-800)(umol/s)$: 0.21	$PPF.t(umol)$: 5.13
$\mu_{ch-A.t}(J)$: 0.09	$\mu_{ch-A}(W)$: 0.09
$\mu_{ch-B.t}(J)$: 0.04	$\mu_{ch-B}(W)$: 0.04
$\mu_{b.t}(J)$: 0.11	$\mu_b(W)$: 0.11
$\mu_{y.t}(J)$: 0.45	$\mu_y(W)$: 0.45
$\mu_{r.t}(J)$: 0.49	$\mu_r(W)$: 0.49

Electric Parameters

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Power Factor: 0.7210	Frequency: 49.99Hz	

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