

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-CFL-8W-3811-NW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 100277

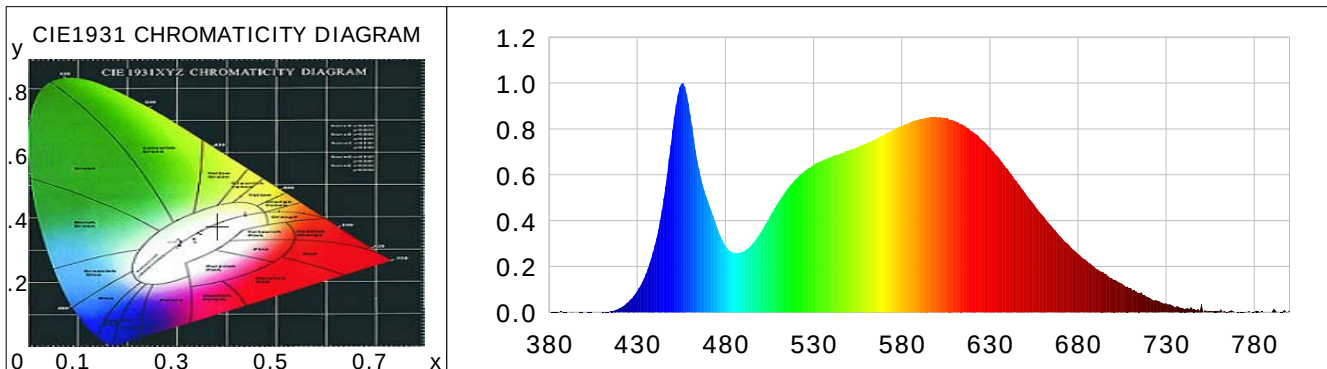
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3817$ $y=0.3755$ $u(u')=0.2265$ $v=0.3341$ $v'=0.5012$
 CCT: $T_c=3956K$ ($duv=-0.00098$) Color Ratio: $R=0.191$ $G=0.772$ $B=0.037$
 Peak Wavelength: 455.6nm Half Bandwidth: 24.3nm
 Dominant Wavelength: 579.8nm Color Purity: 0.272
 CRI: $R_a=86.0$, $avgR(1\sim14)=80.2$, $avgR(1\sim15)=80.3$ TM30: $R_f=84$, $R_g=96$
 GAI: $GAI_BB_8=95.1$, $GAI_BB_15=102.6$, $GAI_EES=74.3$

R1 =86	R2 =92	R3 =95	R4 =84	R5 =84	R6 =88	R7 =88	R8 =72
R9 =29	R10=79	R11=82	R12=61	R13=87	R14=97	R15=82	

Color Quality Scale: $Q_a=84.4$, $Q_f=84.4$, $Q_p=84.7$, $Q_g=94.3$

Q1 =85	Q2 =98	Q3 =80	Q4 =75	Q5 =80	Q6 =84	Q7 =87	Q8 =90
Q9 =97	Q10=90	Q11=87	Q12=86	Q13=87	Q14=79	Q15=81	



Photometric Parameters

Luminous Flux: 675.43 lm	Efficiency: 84.96 lm/W	Radiant Power: 2.099 W
Total mains efficacy: 84.96 lm/W	Energy Efficiency Class: G (EU 2019/2015)	
Pupil Flux: 1022.47 Plm	Pupil Lumens Per Watt: 128.61 Plm/W	Pupil Factor (Kp): 1.514
Cirtpic Flux: 2092.11 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.0370A	Power: 7.95W
Power Factor: 0.9260	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: 46837 (2867)	CCD Integration Time: 466.65 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 11:03:44
 Inspector:

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-CFL-8W-3811-NW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 100277

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0005	0.0070	525	0.6172	8.2813	670	0.3314	4.4461
385	0.0020	0.0273	530	0.6408	8.5977	675	0.2932	3.9336
390	0.0012	0.0155	535	0.6611	8.8709	680	0.2554	3.4274
395	0.0003	0.0043	540	0.6777	9.0936	685	0.2239	3.0047
400	0.0006	0.0084	545	0.6917	9.2809	690	0.1916	2.5704
405	0.0002	0.0021	550	0.7060	9.4723	695	0.1684	2.2601
410	0.0007	0.0098	555	0.7217	9.6832	700	0.1429	1.9176
415	0.0053	0.0709	560	0.7363	9.8799	705	0.1249	1.6761
420	0.0185	0.2477	565	0.7539	10.1154	710	0.1051	1.4100
425	0.0456	0.6115	570	0.7738	10.3828	715	0.0843	1.1316
430	0.0927	1.2439	575	0.7957	10.6756	720	0.0652	0.8742
435	0.1687	2.2631	580	0.8137	10.9181	725	0.0516	0.6926
440	0.2926	3.9262	585	0.8299	11.1356	730	0.0396	0.5308
445	0.4977	6.6777	590	0.8425	11.3036	735	0.0220	0.2947
450	0.7938	10.6509	595	0.8485	11.3851	740	0.0163	0.2190
455	0.9973	13.3808	600	0.8512	11.4212	745	0.0145	0.1947
460	0.8640	11.5933	605	0.8465	11.3573	750	0.0357	0.4795
465	0.6254	8.3913	610	0.8336	11.1850	755	0.0045	0.0601
470	0.4865	6.5273	615	0.8162	10.9513	760	0.0042	0.0569
475	0.3764	5.0503	620	0.7895	10.5925	765	0.0023	0.0313
480	0.2898	3.8889	625	0.7548	10.1276	770	0.0012	0.0156
485	0.2575	3.4555	630	0.7180	9.6335	775	0.0038	0.0515
490	0.2652	3.5584	635	0.6745	9.0497	780	0.0029	0.0387
495	0.2962	3.9748	640	0.6249	8.3845	785	0.0038	0.0510
500	0.3482	4.6724	645	0.5733	7.6917	790	0.0026	0.0345
505	0.4140	5.5543	650	0.5201	6.9777	795	0.0016	0.0210
510	0.4802	6.4432	655	0.4709	6.3180	800	0.0103	0.1377
515	0.5371	7.2065	660	0.4219	5.6604			
520	0.5816	7.8031	665	0.3759	5.0434			

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

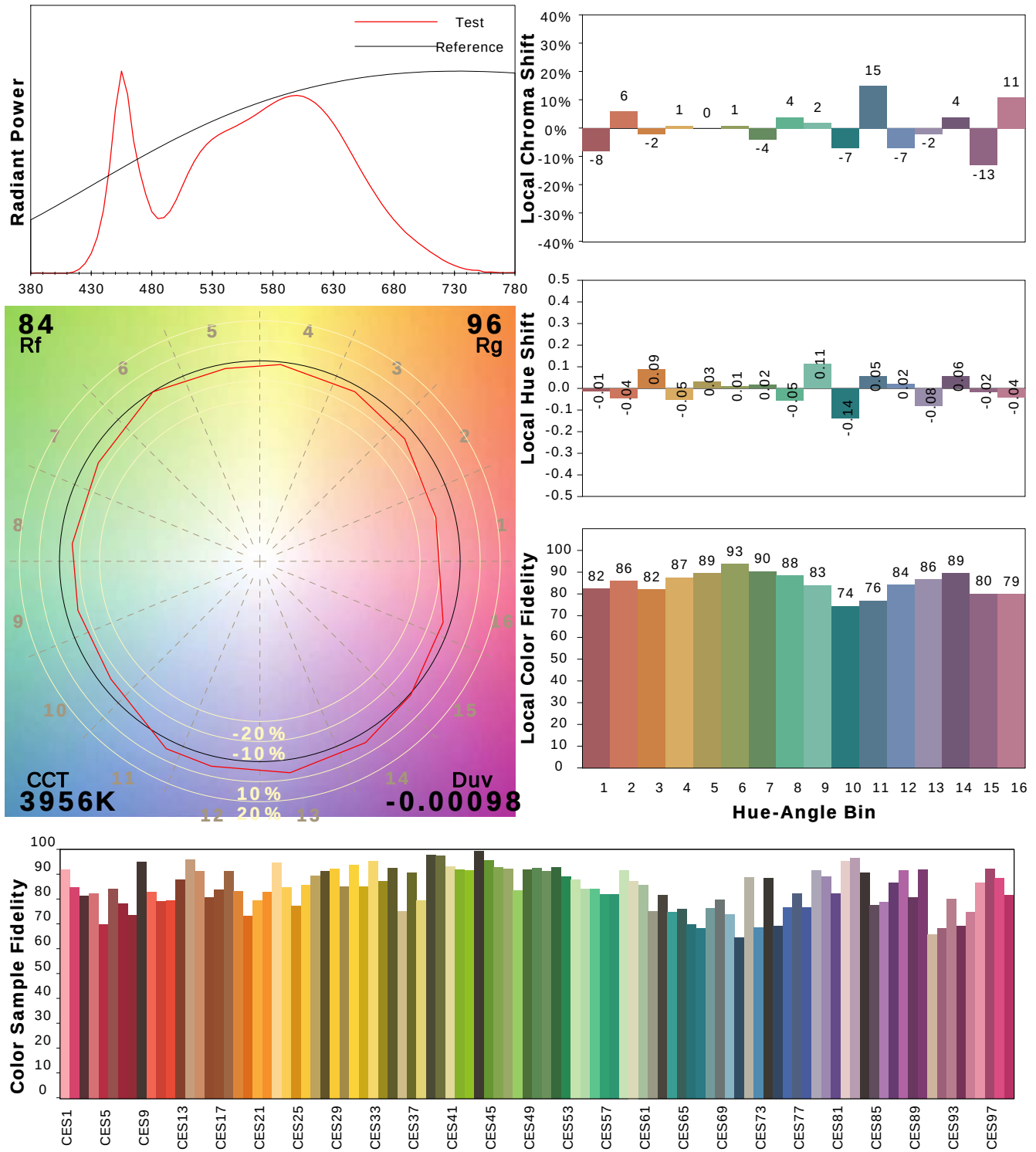
Test Device: Lisun LMS-9000B
 Test Time: 2021-04-28 11:03:44
 Inspector:

IES TM-30-18 Color Rendition Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-CFL-8W-3811-NW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 100277



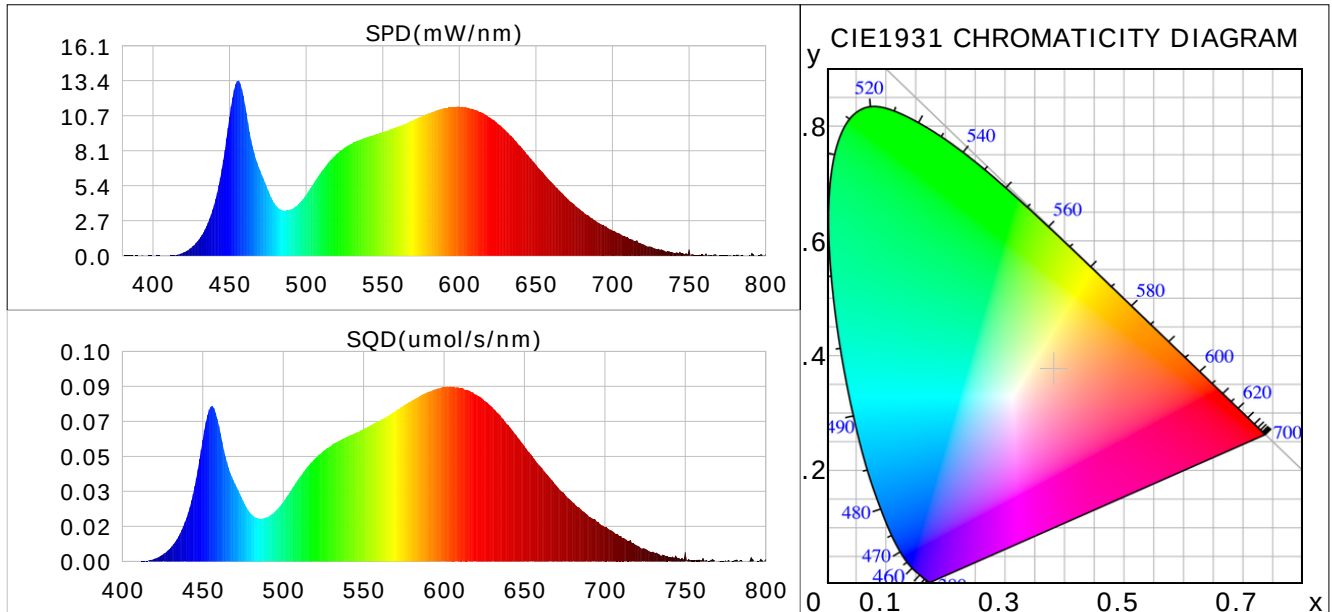
Condition: Tx:0.0°C, Ti:0.0°C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-04-28 11:03:44
 Inspector:

Plant optical param data

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3817$ $y=0.3755$ $u(u')=0.2265$ $v=0.3341$ $v'=0.5012$
 CCT: $T_c=3956K$ ($duv=-0.00098$) Color Ratio: $R=0.191$ $G=0.772$ $B=0.037$
 Peak Wavelength: 455.6nm Half Bandwidth: 24.3nm
 Dominant Wavelength: 579.8nm Color Purity: 0.272
 CRI: Ra= 86.0



Plant Optical Param

$\mu_v(lm): 675.43$	$Q_v(lm.s): 675.43$
$\mu_e, \dot{E}(W/nm): 2.10$	$Q_e(J): 2.10$
$\mu_e(W): 2.06$	$\mu_{fr}(W): 0.04$
$\dot{Q}_e: 0.26$	$\dot{Q}_{fr}: 0.01$
$PPE(umol/s/w): 1.22$	$K_{fr}: 0.03$
$Erb_Ratio: 1.57$	$PPF(umol/s): 9.68$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 1.70$
$PPF(500-600)(umol/s): 4.29$	$PPF(600-700)(umol/s): 3.68$
$PF_{fr}(700-800)(umol/s): 0.26$	$PPF.t(umol): 9.68$
$\mu_{ch-A.t}(J): 0.16$	$\mu_{ch-A}(W): 0.16$
$\mu_{ch-B.t}(J): 0.10$	$\mu_{ch-B}(W): 0.10$
$\mu_b.t(J): 0.44$	$\mu_b(W): 0.44$
$\mu_y.t(J): 0.93$	$\mu_y(W): 0.93$
$\mu_r.t(J): 0.70$	$\mu_r(W): 0.70$

Electric Parameters

Voltage: 230.90V	Current: 0.0370A	Power: 7.95W
Power Factor: 0.9260	Frequency: 49.99Hz	