

Lightsource Test Report

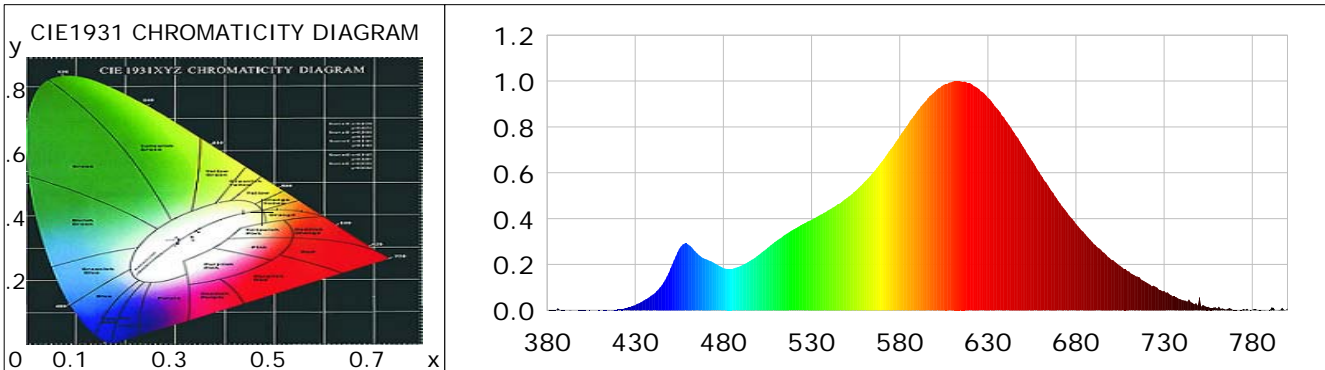
Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-G125-6FS-6W-WWC
 Manufacturer: METOLIGHT
 Buyer: 5841

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 101011

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4763$ $y=0.4146$ $u(u')=0.2713$ $v=0.3542$ $v'=0.5314$
 CCT: $T_c=2515K$ ($duv=0.00036$) Color Ratio: $R=0.273$ $G=0.704$ $B=0.023$
 Peak Wavelength: 613.8nm Half Bandwidth: 116.1nm
 Dominant Wavelength: 585.1nm Color Purity: 0.674
 CRI: $R_a=85.5$, $avgR(1\sim14)=81.9$, $avgR(1\sim15)=81.6$ TM30: $R_f=86$, $R_g=94$
 GAI: $GAI_BB_8=91.0$, $GAI_BB_15=100.2$, $GAI_EES=38.8$
 R1 =85 R2 =95 R3 =94 R4 =83 R5 =86 R6 =96 R7 =82 R8 =63
 R9 =23 R10=89 R11=84 R12=82 R13=88 R14=98 R15=77
 Color Quality Scale: $Q_a=84.7$, $Q_f=88.3$, $Q_p=86.4$, $Q_g=88.6$
 Q1 =80 Q2 =91 Q3 =89 Q4 =84 Q5 =84 Q6 =85 Q7 =86 Q8 =88
 Q9 =93 Q10=93 Q11=90 Q12=87 Q13=85 Q14=76 Q15=78



Photometric Parameters

Luminous Flux: 691.87 lm Efficiency: 118.47 lm/W Radiant Power: 2.247 W
 Total mains efficacy: 118.47 lm/W Energy Efficiency Class: E (EU 2019/2015)
 Pupil Flux: 782.81 Plm Pupil Lumens Per Watt: 134.04 Plm/W Pupil Factor (Kp): 1.131
 Circopic Flux: 1356.44 lm

Electric Parameters

Voltage: 230.70V Current: 0.0300A Power: 5.84W
 Power Factor: 0.8310 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: 46566 (2851) CCD Integration Time: 613.68 ms

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-G125-6FS-6W-WWC
 Manufacturer: METOLIGHT
 Buyer: 5841

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 101011

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0012	0.0186	525	0.3762	6.0079	670	0.4767	7.6115
385	0.0020	0.0313	530	0.3949	6.3052	675	0.4259	6.8007
390	0.0008	0.0122	535	0.4168	6.6559	680	0.3773	6.0255
395	0.0002	0.0035	540	0.4387	7.0050	685	0.3334	5.3236
400	0.0012	0.0196	545	0.4636	7.4034	690	0.2899	4.6294
405	0.0001	0.0018	550	0.4897	7.8201	695	0.2553	4.0761
410	0.0008	0.0131	555	0.5214	8.3257	700	0.2208	3.5258
415	0.0023	0.0361	560	0.5601	8.9439	705	0.1945	3.1057
420	0.0042	0.0668	565	0.6024	9.6194	710	0.1699	2.7130
425	0.0088	0.1405	570	0.6502	10.3832	715	0.1471	2.3490
430	0.0229	0.3655	575	0.7040	11.2419	720	0.1212	1.9348
435	0.0435	0.6939	580	0.7597	12.1307	725	0.1038	1.6574
440	0.0686	1.0955	585	0.8146	13.0077	730	0.0847	1.3533
445	0.1094	1.7465	590	0.8696	13.8859	735	0.0607	0.9685
450	0.1835	2.9300	595	0.9142	14.5984	740	0.0458	0.7320
455	0.2692	4.2993	600	0.9540	15.2333	745	0.0367	0.5867
460	0.2869	4.5821	605	0.9837	15.7088	750	0.0570	0.9096
465	0.2489	3.9738	610	0.9975	15.9285	755	0.0157	0.2511
470	0.2236	3.5702	615	0.9985	15.9442	760	0.0082	0.1315
475	0.2052	3.2770	620	0.9903	15.8137	765	0.0037	0.0589
480	0.1843	2.9426	625	0.9646	15.4031	770	0.0026	0.0423
485	0.1804	2.8805	630	0.9269	14.8010	775	0.0059	0.0947
490	0.1945	3.1063	635	0.8820	14.0836	780	0.0030	0.0477
495	0.2153	3.4380	640	0.8289	13.2362	785	0.0039	0.0618
500	0.2421	3.8662	645	0.7745	12.3669	790	0.0017	0.0265
505	0.2723	4.3479	650	0.7132	11.3879	795	0.0021	0.0337
510	0.3027	4.8343	655	0.6527	10.4218	800	0.0089	0.1426
515	0.3302	5.2721	660	0.5912	9.4411			
520	0.3533	5.6409	665	0.5339	8.5258			

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

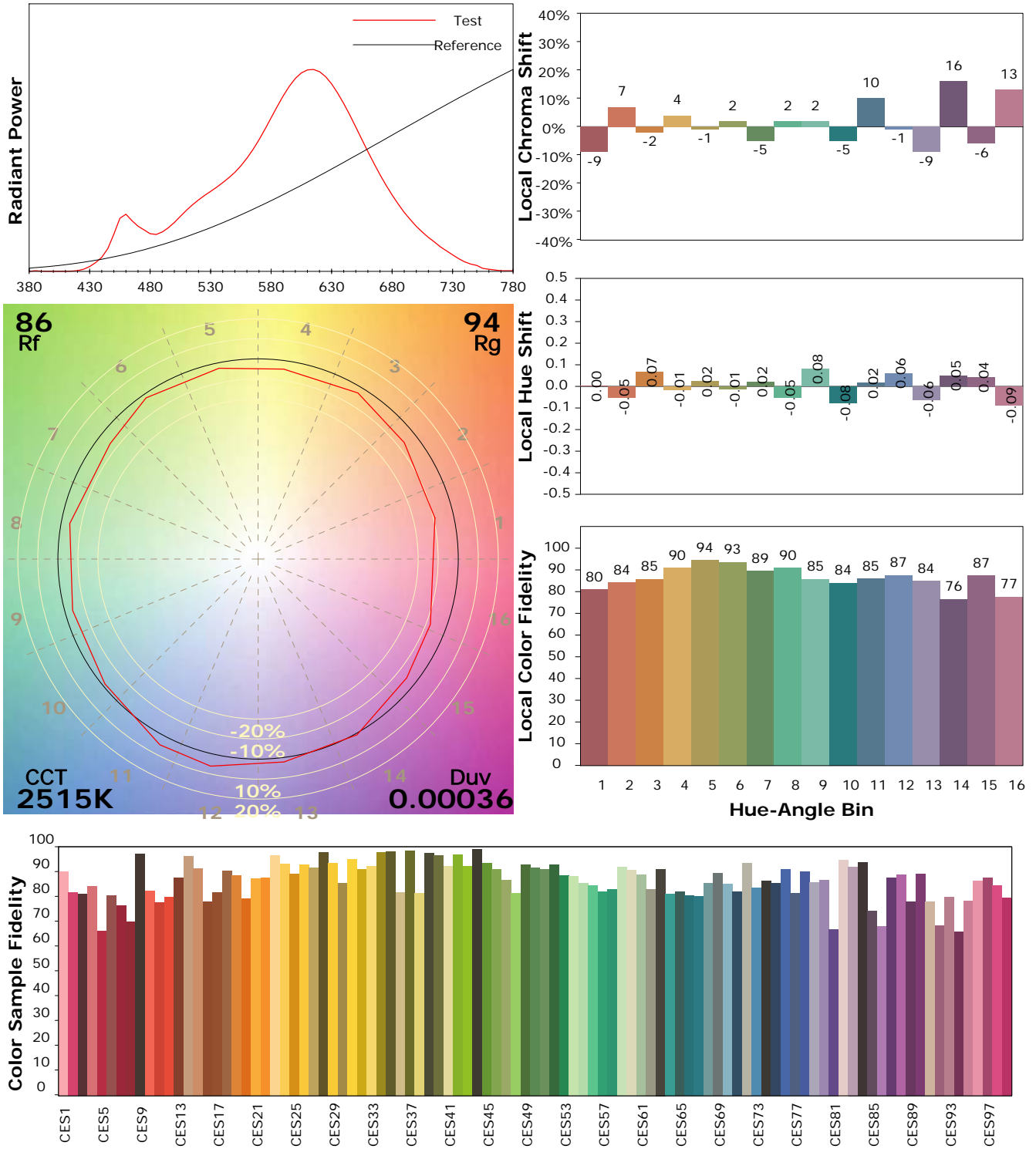
Test Device: Lisun LMS-9000B
 Test Time: 2021-04-28 10:17:03
 Inspector:

IES TM-30-18 Color Rendition Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-G125-6FS-6W-WWC
 Manufacturer: METOLIGHT
 Buyer: 5841

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 101011



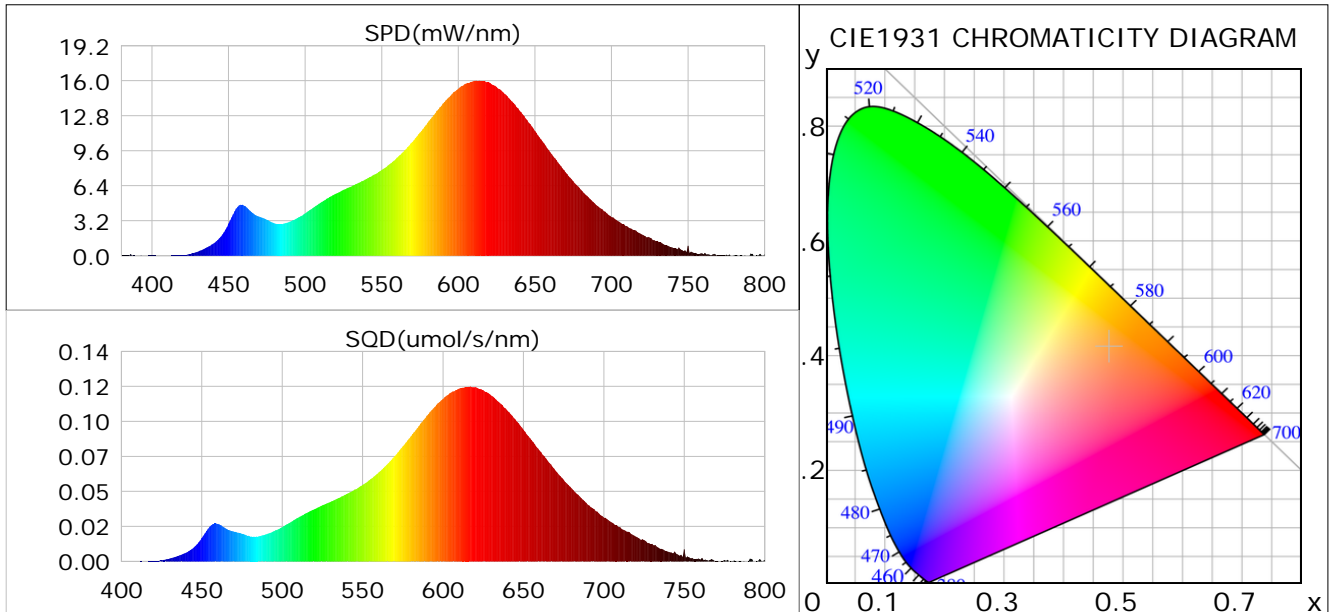
Condition: Tx:0.0°C, Ti:0.0°C, R.H.: 60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-04-28 10:17:03
 Inspector:

Plant optical param data

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4763$ $y=0.4146$ $u(u')=0.2713$ $v=0.3542$ $v'=0.5314$
 CCT: $T_c=2515K$ ($duv=0.00036$) Color Ratio: $R=0.273$ $G=0.704$ $B=0.023$
 Peak Wavelength: 613.8nm Half Bandwidth: 116.1nm
 Dominant Wavelength: 585.1nm Color Purity: 0.674
 CRI: $R_a=85.5$



Plant Optical Param

$ \mu_v(lm): 691.87$	$Q_v(lm.s): 691.87$
$ \mu_e, \dot{E}(W/nm): 2.25$	$Q_e(J): 2.25$
$ \mu_e(W): 2.16$	$ \mu_{fr}(W): 0.09$
$ \zeta_e: 0.37$	$ \zeta_{fr}: 0.02$
$PPE(umol/s/w): 1.83$	$K_{fr}: 0.09$
$Erb_Ratio: 5.20$	$PPF(umol/s): 10.66$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 0.81$
$PPF(500-600)(umol/s): 4.08$	$PPF(600-700)(umol/s): 5.77$
$PPF_{fr}(700-800)(umol/s): 0.54$	$PPF.t(umol): 10.66$
$ \mu_{ch-A.t}(J): 0.18$	$ \mu_{ch-A}(W): 0.18$
$ \mu_{ch-B.t}(J): 0.08$	$ \mu_{ch-B}(W): 0.08$
$ \mu_b.t(J): 0.21$	$ \mu_b(W): 0.21$
$ \mu_y.t(J): 0.87$	$ \mu_y(W): 0.87$
$ \mu_r.t(J): 1.09$	$ \mu_r(W): 1.09$

Electric Parameters

Voltage: 230.70V	Current: 0.0300A	Power: 5.84W
Power Factor: 0.8310	Frequency: 49.99Hz	

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.: 60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-04-28 10:17:03
 Inspector: