

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG28-Plus-E27-27-360-XWM
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 101189

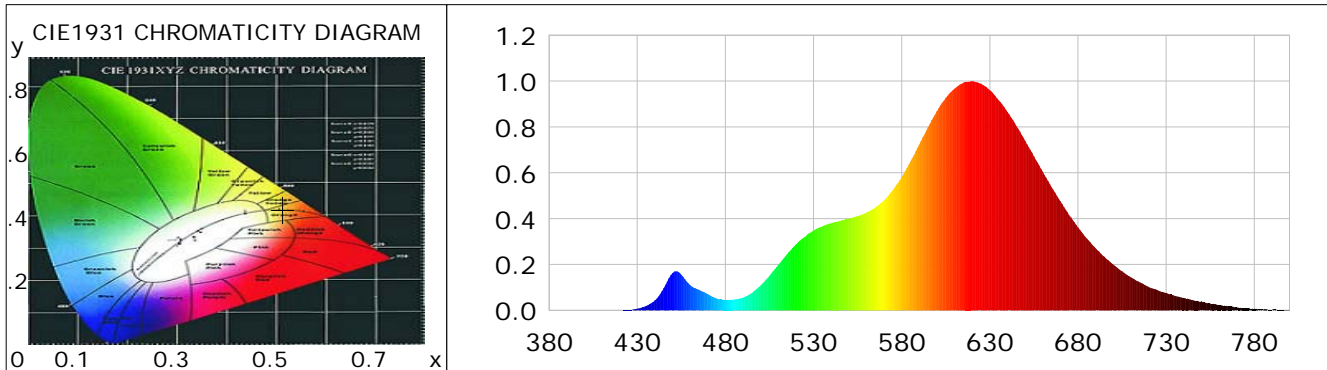
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.5137$ $y=0.4210$ $u(u')=0.2925$ $v=0.3596$ $v'=0.5394$
 CCT: $T_c=2162K$ ($duv=0.00190$) Color Ratio: $R=0.321$ $G=0.669$ $B=0.010$
 Peak Wavelength: 619.9nm Half Bandwidth: 95.6nm
 Dominant Wavelength: 587.0nm Color Purity: 0.806
 CRI: $R_a=87.9$, $avgR(1\sim14)=83.7$, $avgR(1\sim15)=83.4$ TM30: $R_f=88$, $R_g=99$
 GAI: $GAI_BB_8=85.2$, $GAI_BB_15=94.6$, $GAI_EES=25.9$

R1 =88	R2 =93	R3 =97	R4 =90	R5 =88	R6 =95	R7 =85	R8 =67
R9 =29	R10=83	R11=93	R12=78	R13=90	R14=96	R15=79	

Color Quality Scale: $Q_a=80.4$, $Q_f=88.5$, $Q_p=86.8$, $Q_g=85.1$

Q1 =75	Q2 =87	Q3 =83	Q4 =83	Q5 =82	Q6 =80	Q7 =81	Q8 =84
Q9 =90	Q10=85	Q11=80	Q12=82	Q13=83	Q14=72	Q15=74	



Photometric Parameters

Luminous Flux: 2552.6 lm	Efficiency: 86.18 lm/W	Radiant Power: 8.544 W
Total mains efficacy: 86.18 lm/W	Energy Efficiency Class: F (EU 2019/2015)	
Pupil Flux: 2414.33 Plm	Pupil Lumens Per Watt: 81.51 Plm/W	Pupil Factor (Kp): 0.946
Cirtpic Flux: 3594.73 lm		

Electric Parameters

Voltage: 230.80V	Current: 0.1330A	Power: 29.62W
Power Factor: 0.9610	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: 47173 (2062)	CCD Integration Time: 168.20 ms

Condition: Tx:14.2'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 09:51:16
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0002	0.0131	525	0.3199	22.4035	670	0.4763	33.3583
385	0.0003	0.0199	530	0.3479	24.3690	675	0.4151	29.0749
390	0.0003	0.0234	535	0.3659	25.6270	680	0.3617	25.3336
395	0.0001	0.0037	540	0.3800	26.6145	685	0.3129	21.9157
400	0.0003	0.0221	545	0.3902	27.3306	690	0.2706	18.9531
405	0.0001	0.0073	550	0.4005	28.0530	695	0.2334	16.3452
410	0.0002	0.0125	555	0.4118	28.8452	700	0.2001	14.0166
415	0.0003	0.0211	560	0.4258	29.8251	705	0.1704	11.9322
420	0.0005	0.0366	565	0.4486	31.4219	710	0.1444	10.1140
425	0.0016	0.1140	570	0.4812	33.7013	715	0.1222	8.5567
430	0.0073	0.5106	575	0.5251	36.7761	720	0.1026	7.1854
435	0.0192	1.3421	580	0.5822	40.7795	725	0.0889	6.2245
440	0.0435	3.0495	585	0.6496	45.4977	730	0.0765	5.3588
445	0.0975	6.8258	590	0.7242	50.7248	735	0.0633	4.4333
450	0.1628	11.4018	595	0.7993	55.9832	740	0.0550	3.8488
455	0.1554	10.8851	600	0.8687	60.8388	745	0.0451	3.1615
460	0.1101	7.7140	605	0.9270	64.9245	750	0.0394	2.7593
465	0.0895	6.2663	610	0.9674	67.7517	755	0.0297	2.0794
470	0.0706	4.9424	615	0.9930	69.5482	760	0.0234	1.6370
475	0.0517	3.6205	620	1.0000	70.0382	765	0.0176	1.2321
480	0.0457	3.1977	625	0.9885	69.2359	770	0.0129	0.9014
485	0.0472	3.3034	630	0.9598	67.2223	775	0.0097	0.6820
490	0.0557	3.9014	635	0.9162	64.1701	780	0.0067	0.4707
495	0.0760	5.3235	640	0.8645	60.5493	785	0.0041	0.2903
500	0.1088	7.6183	645	0.8047	56.3612	790	0.0032	0.2263
505	0.1513	10.5969	650	0.7398	51.8163	795	0.0023	0.1598
510	0.1988	13.9210	655	0.6722	47.0823	800	0.0031	0.2155
515	0.2451	17.1696	660	0.6048	42.3581			
520	0.2873	20.1190	665	0.5375	37.6430			

Condition: Tx: 14.2'C, Ti: 0.0'C, R.H.: 60%
 Test Lab:
 Operator: CRE

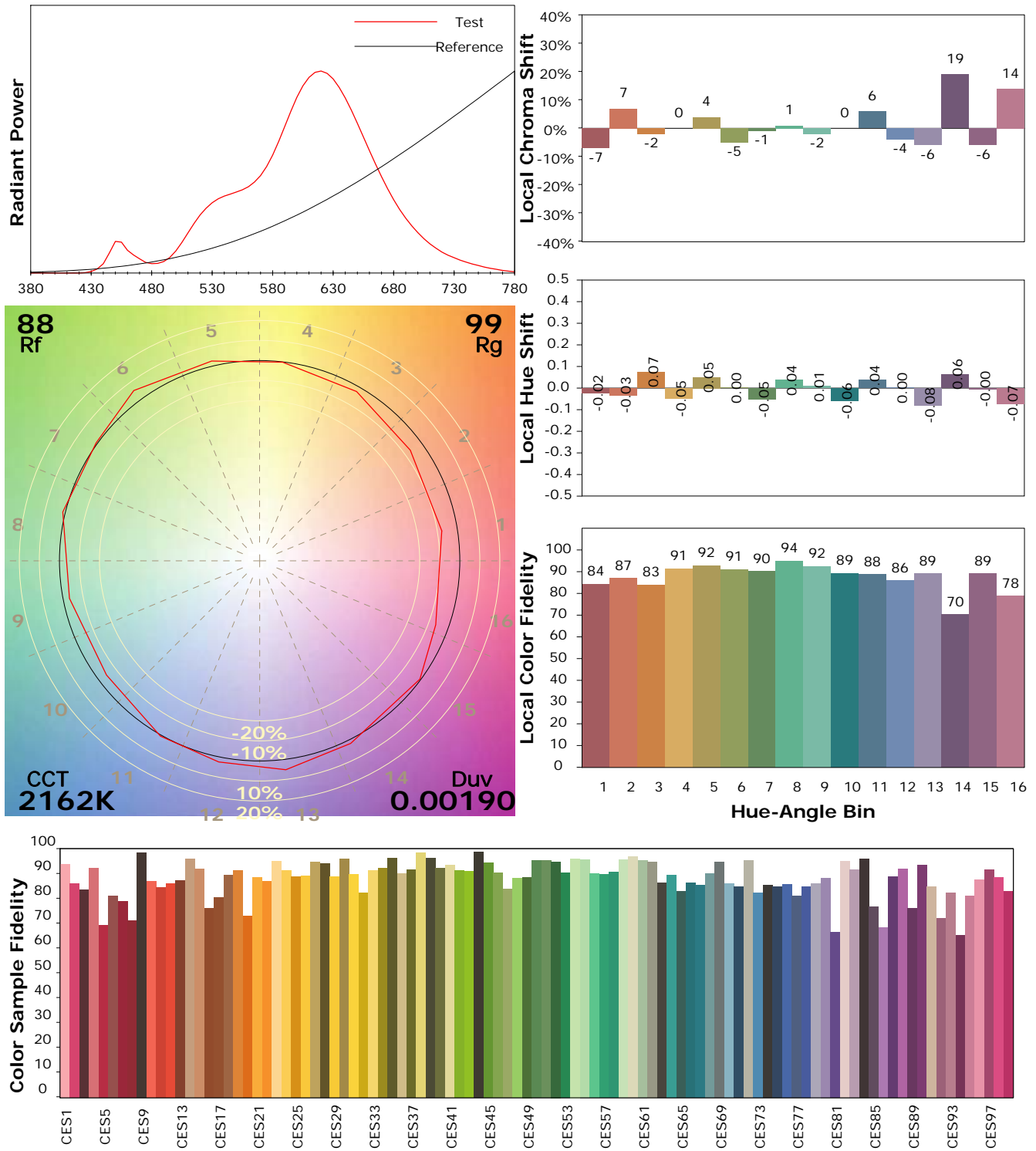
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IES TM-30-18 Color Rendition Report

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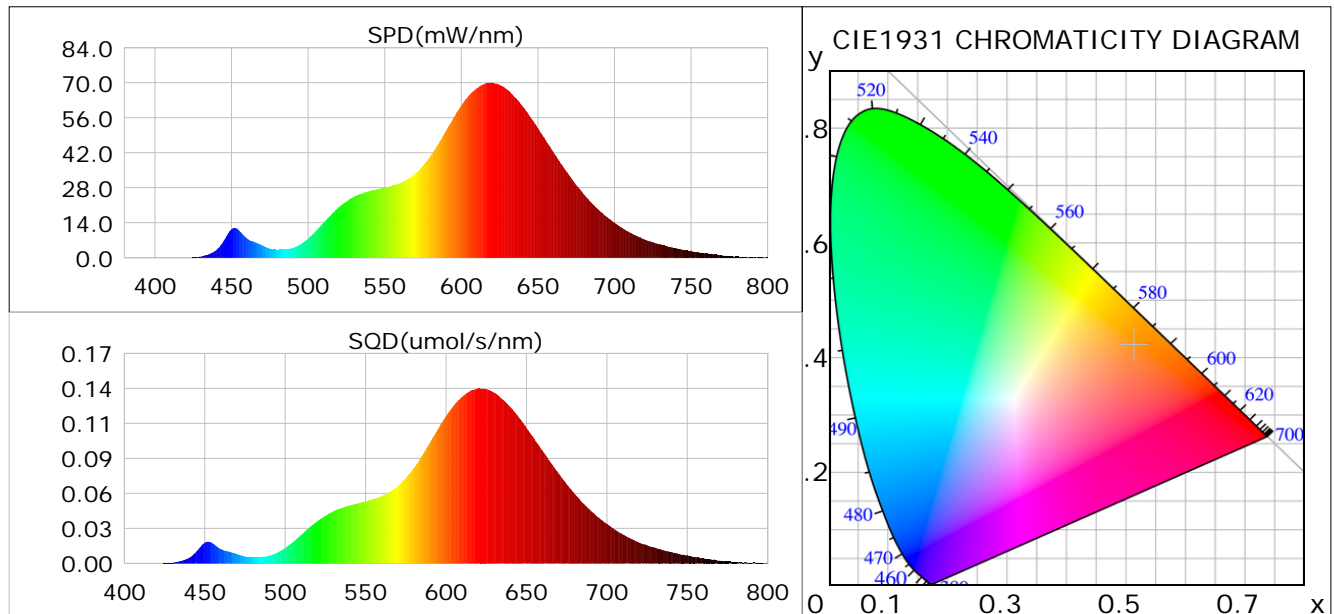
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 Test Lab:
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Plant optical param data

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 Peak Wavelength: 619.9nm Half Bandwidth: 95.6nm
 Dominant Wavelength: 587.0nm Color Purity: 0.806
 CRI: $R_a=87.9$



Plant Optical Param

$ \mu_v(lm): 2552.60$	$Q_v(lm.s): 2552.60$
$ \mu_e, \dot{E}(W/nm): 8.54$	$Q_e(J): 8.54$
$ \mu_e(W): 8.17$	$ \mu_{fr}(W): 0.40$
$ \dot{C}_e: 0.28$	$ \dot{C}_{fr}: 0.01$
$PPE(umol/s/w): 1.39$	$K_{fr}: 0.08$
$Erb_Ratio: 12.32$	$PPF(umol/s): 41.11$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 1.49$
$PPF(500-600)(umol/s): 14.31$	$PPF(600-700)(umol/s): 25.30$
$PF_{fr}(700-800)(umol/s): 2.32$	$PPF.t(umol): 41.11$
$ \mu_{ch-A.t}(J): 0.71$	$ \mu_{ch-A}(W): 0.71$
$ \mu_{ch-B.t}(J): 0.28$	$ \mu_{ch-B}(W): 0.28$
$ \mu_b.t(J): 0.38$	$ \mu_b(W): 0.38$
$ \mu_y.t(J): 3.05$	$ \mu_y(W): 3.05$
$ \mu_r.t(J): 4.80$	$ \mu_r(W): 4.80$

Electric Parameters

Voltage: 230.80V	Current: 0.1330A	Power: 29.62W
Power Factor: 0.9610	Frequency: 49.99Hz	

Condition: $T_x: 14.2^\circ C$, $T_i: 0.0^\circ C$, R.H.: 60%
 Test Lab:
 Operator: CRE

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