

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG371-PLUS-E40-63-WW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 102933

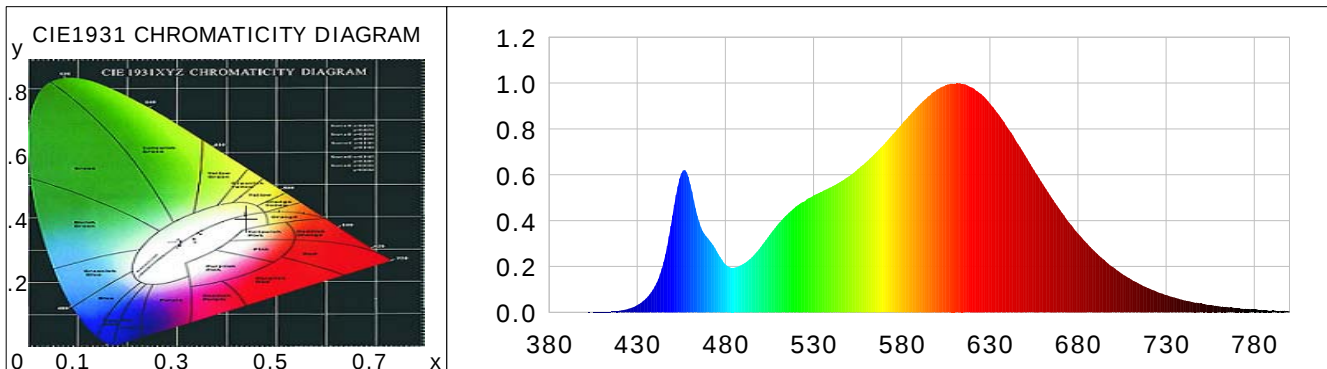
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4398$ $y=0.3999$ $u(u')=0.2543$ $v=0.3468$ $v'=0.5202$
 CCT: $T_c=2918K$ ($duv=-0.00204$) Color Ratio: $R=0.243$ $G=0.730$ $B=0.027$
 Peak Wavelength: 612.7nm Half Bandwidth: 137.2nm
 Dominant Wavelength: 583.9nm Color Purity: 0.521
 CRI: $R_a=87.0$, $avgR(1\sim14)=82.9$, $avgR(1\sim15)=82.8$ TM30: $R_f=86$, $R_g=96$
 GAI: $GAI_BB_8=100.6$, $GAI_BB_15=109.2$, $GAI_EES=55.5$

R1 =87	R2 =95	R3 =97	R4 =85	R5 =87	R6 =94	R7 =84	R8 =68
R9 =30	R10=87	R11=85	R12=74	R13=89	R14=99	R15=81	

Color Quality Scale: $Q_a=85.4$, $Q_f=86.6$, $Q_p=88.1$, $Q_g=94.0$

Q1 =83	Q2 =95	Q3 =84	Q4 =81	Q5 =84	Q6 =86	Q7 =86	Q8 =87
Q9 =96	Q10=91	Q11=88	Q12=86	Q13=86	Q14=79	Q15=80	



Photometric Parameters

Luminous Flux: 8990.5 lm	Efficiency: 142.57 lm/W	Radiant Power: 28.668 W
Total mains efficacy: 142.57 lm/W	Energy Efficiency Class: D (EU 2019/2015)	
Pupil Flux: 11424.89 Plm	Pupil Lumens Per Watt: 181.17 Plm/W	Pupil Factor (Kp): 1.271
Cirtpic Flux: 21231.70 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.2840A	Power: 63.06W
Power Factor: 0.9600	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: 51016 (2515)	CCD Integration Time: 52.63 ms

Condition: Tx:22.4'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 11:33:17
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0004	0.0751	525	0.4841	90.1324	670	0.4448	82.8124
385	0.0001	0.0165	530	0.5097	94.8855	675	0.3910	72.7882
390	0.0002	0.0371	535	0.5273	98.1708	680	0.3436	63.9623
395	0.0004	0.0704	540	0.5462	101.6882	685	0.3012	56.0721
400	0.0004	0.0811	545	0.5680	105.7474	690	0.2613	48.6498
405	0.0007	0.1365	550	0.5933	110.4597	695	0.2278	42.4032
410	0.0018	0.3367	555	0.6235	116.0716	700	0.1964	36.5676
415	0.0038	0.7058	560	0.6564	122.2080	705	0.1681	31.3001
420	0.0071	1.3260	565	0.6941	129.2128	710	0.1445	26.9014
425	0.0154	2.8745	570	0.7329	136.4391	715	0.1230	22.8956
430	0.0316	5.8806	575	0.7774	144.7294	720	0.1048	19.5015
435	0.0603	11.2177	580	0.8207	152.7858	725	0.0892	16.6093
440	0.1134	21.1066	585	0.8633	160.7212	730	0.0757	14.0899
445	0.2211	41.1710	590	0.9050	168.4895	735	0.0644	11.9886
450	0.4223	78.6108	595	0.9419	175.3557	740	0.0530	9.8605
455	0.6062	112.8582	600	0.9719	180.9329	745	0.0453	8.4414
460	0.5592	104.0975	605	0.9917	184.6248	750	0.0402	7.4761
465	0.3959	73.7036	610	0.9975	185.7052	755	0.0320	5.9492
470	0.3235	60.2309	615	0.9957	185.3712	760	0.0265	4.9293
475	0.2669	49.6942	620	0.9802	182.4868	765	0.0226	4.2152
480	0.2096	39.0249	625	0.9523	177.2881	770	0.0188	3.5086
485	0.1944	36.1856	630	0.9106	169.5238	775	0.0154	2.8697
490	0.2103	39.1552	635	0.8622	160.5106	780	0.0133	2.4818
495	0.2400	44.6798	640	0.8054	149.9365	785	0.0097	1.8055
500	0.2844	52.9434	645	0.7451	138.7191	790	0.0083	1.5455
505	0.3365	62.6451	650	0.6844	127.4214	795	0.0069	1.2886
510	0.3860	71.8697	655	0.6207	115.5639	800	0.0059	1.1019
515	0.4259	79.2966	660	0.5603	104.3187			
520	0.4615	85.9143	665	0.5001	93.0952			

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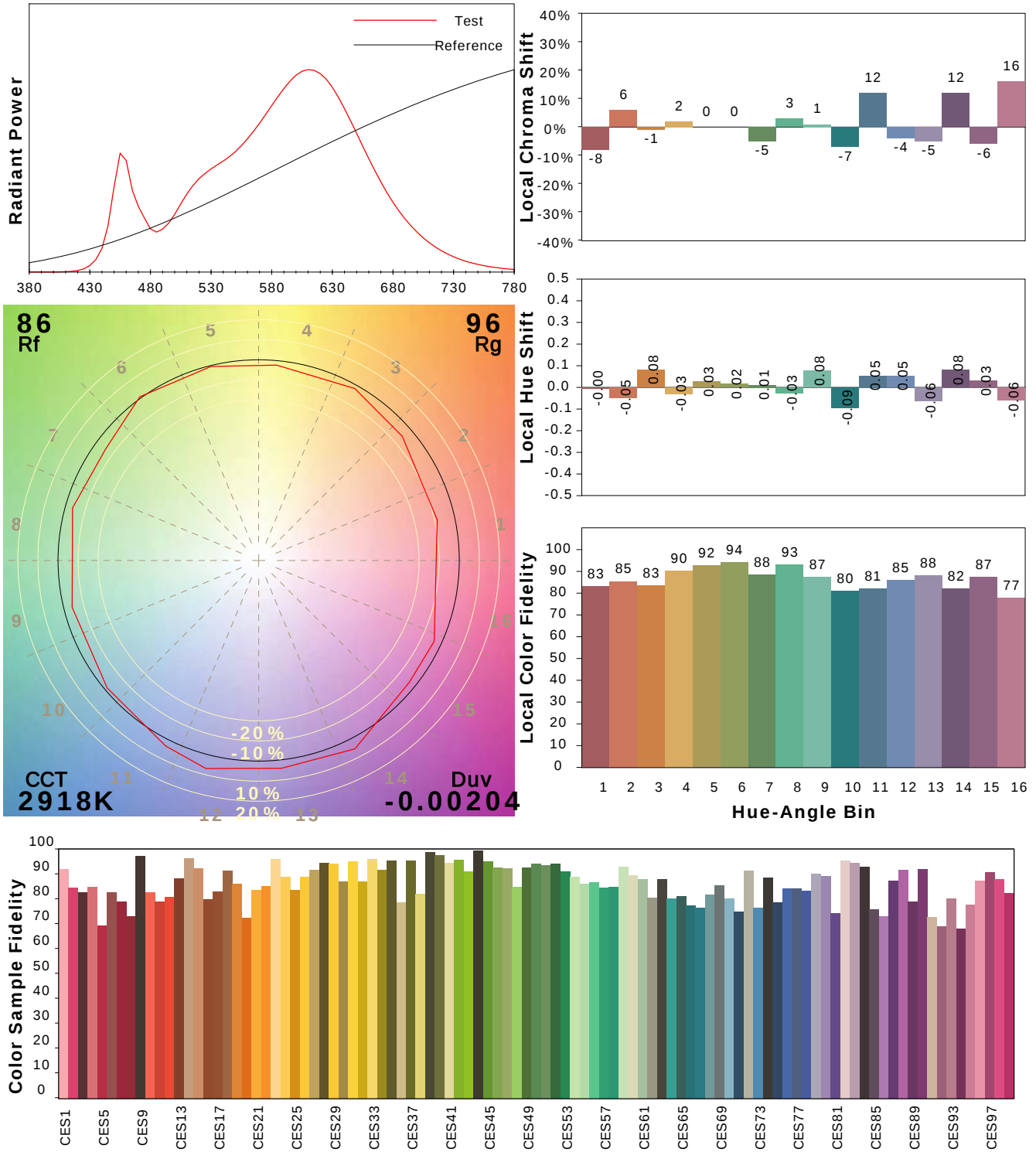
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IES TM-30-18 Color Rendition Report

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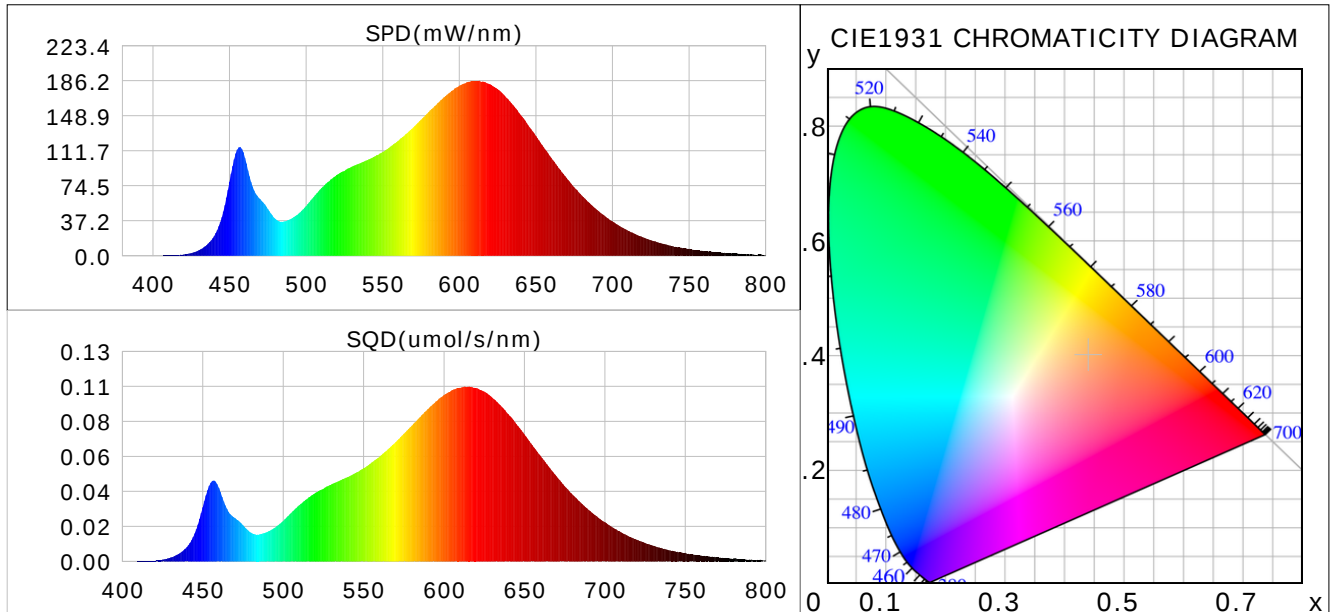
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Plant optical param data

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 CRI: Ra= 87.0



Plant Optical Param

$\mu_v(lm): 8990.50$	$Q_v(lm.s): 8990.50$
$\mu_e, \dot{E}(W/nm): 28.67$	$Q_e(J): 28.67$
$\mu_e(W): 27.64$	$\mu_{fr}(W): 1.10$
$\dot{C}_e: 0.44$	$\dot{C}_{fr}: 0.02$
$PPE(umol/s/w): 2.13$	$K_{fr}: 0.10$
$Erb_Ratio: 3.23$	$PPF(umol/s): 134.28$
$PF_{uv}(360-400)(umol/s): 0.01$	$PPF(400-500)(umol/s): 14.68$
$PPF(500-600)(umol/s): 54.61$	$PPF(600-700)(umol/s): 65.00$
$PF_{fr}(700-800)(umol/s): 6.43$	$PPF.t(umol): 134.28$
$\mu_{ch-A.t}(J): 2.21$	$\mu_{ch-A}(W): 2.21$
$\mu_{ch-B.t}(J): 1.14$	$\mu_{ch-B}(W): 1.14$
$\mu_b.t(J): 3.77$	$\mu_b(W): 3.77$
$\mu_y.t(J): 11.74$	$\mu_y(W): 11.74$
$\mu_r.t(J): 12.36$	$\mu_r(W): 12.36$

Electric Parameters

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