

Lightsource Test Report

Product Information

Product Category: LED-Lampne
 Product Spec: LED-SLG10-E27-24-360-WW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 100281

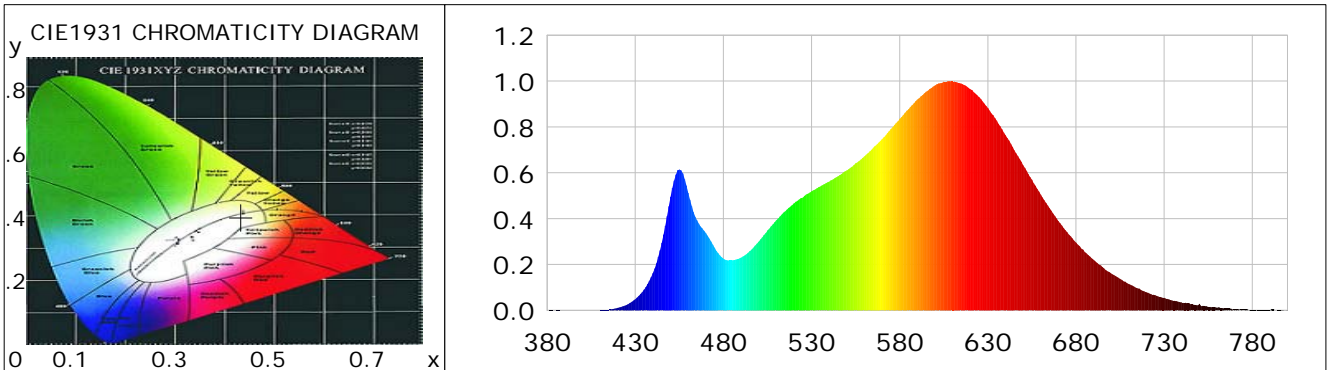
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4332$ $y=0.3972$ $u(u')=0.2511$ $v=0.3454$ $v'=0.5181$
 CCT: $T_c=3007K$ ($duv=-0.00224$) Color Ratio: $R=0.236$ $G=0.736$ $B=0.028$
 Peak Wavelength: 607.9nm Half Bandwidth: 134.3nm
 Dominant Wavelength: 583.6nm Color Purity: 0.493
 CRI: $R_a=85.9$, $avgR(1\sim14)=81.4$, $avgR(1\sim15)=81.3$ TM30: $R_f=86$, $R_g=96$
 GAI: $GAI_BB_8=100.2$, $GAI_BB_15=108.0$, $GAI_EES=57.7$

R1 =86	R2 =94	R3 =96	R4 =84	R5 =86	R6 =93	R7 =83	R8 =65
R9 =24	R10=85	R11=83	R12=74	R13=88	R14=99	R15=79	

Color Quality Scale: $Q_a=84.4$, $Q_f=85.6$, $Q_p=86.9$, $Q_g=93.6$

Q1 =82	Q2 =95	Q3 =83	Q4 =80	Q5 =84	Q6 =86	Q7 =86	Q8 =87
Q9 =96	Q10=91	Q11=87	Q12=85	Q13=85	Q14=77	Q15=78	



Photometric Parameters

Luminous Flux: 2400.1 lm	Efficiency: 108.41 lm/W	Radiant Power: 7.450 W
Total mains efficacy: 108.41 lm/W	Energy Efficiency Class: F (EU 2019/2015)	
Pupil Flux: 3102.82 Plm	Pupil Lumens Per Watt: 140.15 Plm/W	Pupil Factor (Kp): 1.293
Cirtopic Flux: 5821.96 lm		

Electric Parameters

Voltage: 230.10V	Current: 0.1020A	Power: 22.14W
Power Factor: 0.9420	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: 46592 (2542)	CCD Integration Time: 178.46 ms

Condition: Tx:21.3'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-11 13:50:18
 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	0.0103	525	0.4920	24.1508	670	0.3898	19.1349
385	0.0007	0.0352	530	0.5187	25.4640	675	0.3411	16.7465
390	0.0006	0.0316	535	0.5403	26.5253	680	0.2962	14.5429
395	0.0002	0.0087	540	0.5613	27.5567	685	0.2539	12.4617
400	0.0004	0.0218	545	0.5849	28.7123	690	0.2202	10.8113
405	0.0001	0.0057	550	0.6105	29.9683	695	0.1889	9.2727
410	0.0010	0.0487	555	0.6411	31.4699	700	0.1607	7.8904
415	0.0041	0.2029	560	0.6720	32.9871	705	0.1375	6.7476
420	0.0109	0.5350	565	0.7094	34.8255	710	0.1151	5.6517
425	0.0235	1.1521	570	0.7475	36.6947	715	0.0961	4.7170
430	0.0488	2.3939	575	0.7913	38.8427	720	0.0787	3.8617
435	0.0905	4.4437	580	0.8358	41.0315	725	0.0658	3.2309
440	0.1621	7.9590	585	0.8769	43.0472	730	0.0546	2.6819
445	0.2950	14.4821	590	0.9200	45.1625	735	0.0421	2.0675
450	0.4952	24.3095	595	0.9538	46.8236	740	0.0347	1.7022
455	0.6147	30.1770	600	0.9809	48.1502	745	0.0269	1.3227
460	0.5127	25.1705	605	0.9969	48.9369	750	0.0281	1.3817
465	0.3929	19.2898	610	0.9985	49.0141	755	0.0150	0.7363
470	0.3378	16.5840	615	0.9897	48.5861	760	0.0117	0.5730
475	0.2735	13.4248	620	0.9650	47.3719	765	0.0086	0.4202
480	0.2258	11.0834	625	0.9304	45.6712	770	0.0045	0.2190
485	0.2178	10.6925	630	0.8826	43.3286	775	0.0039	0.1893
490	0.2302	11.3009	635	0.8277	40.6332	780	0.0032	0.1547
495	0.2583	12.6803	640	0.7644	37.5235	785	0.0023	0.1113
500	0.3001	14.7298	645	0.6987	34.2978	790	0.0007	0.0363
505	0.3487	17.1177	650	0.6330	31.0721	795	0.0010	0.0484
510	0.3931	19.2974	655	0.5700	27.9803	800	0.0024	0.1189
515	0.4314	21.1785	660	0.5048	24.7801			
520	0.4669	22.9188	665	0.4458	21.8846			

Condition: Tx:21.3'C, Ti:0.0'C, R.H.:60%
 Test Lab:
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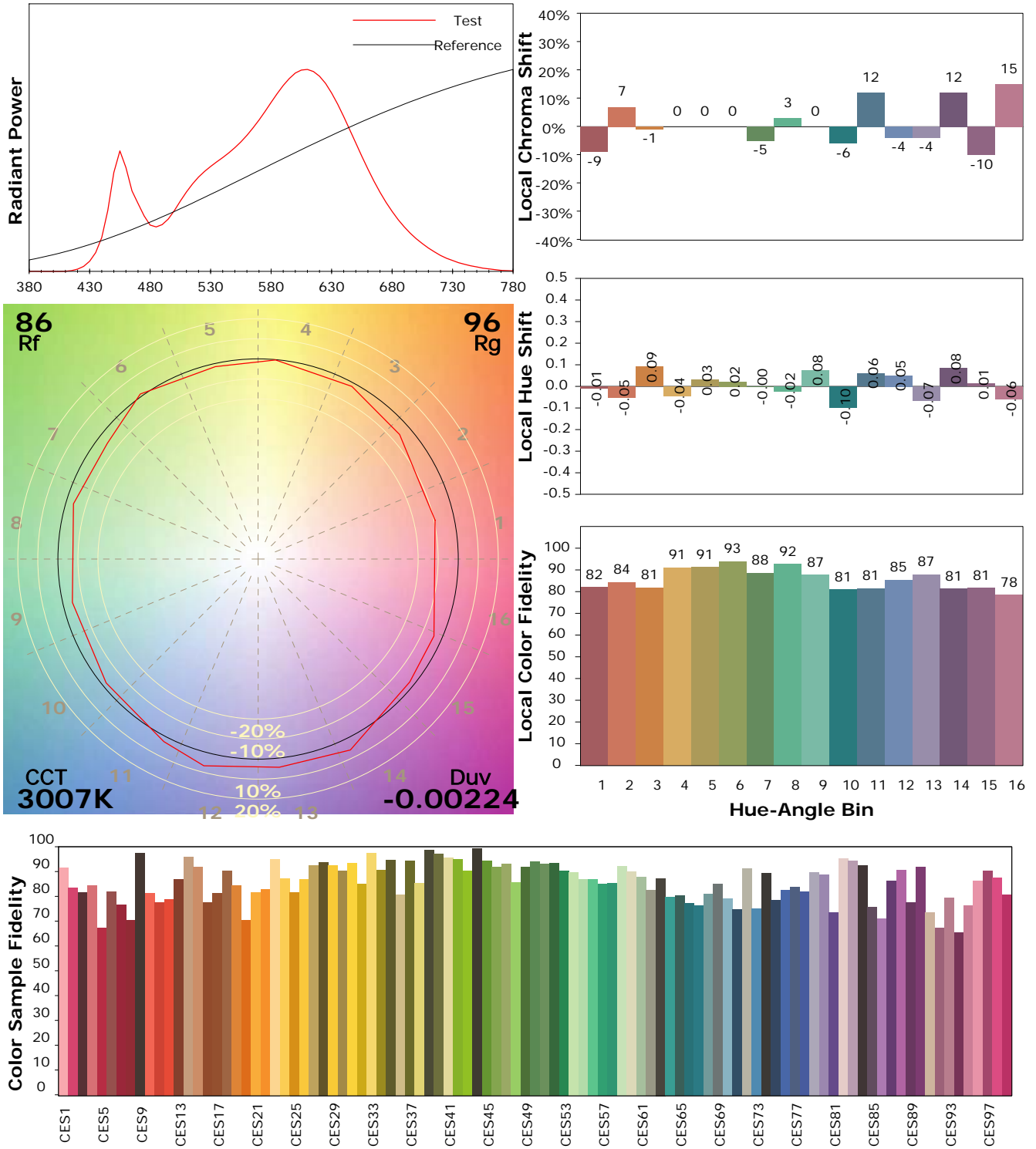
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IES TM-30-18 Color Rendition Report

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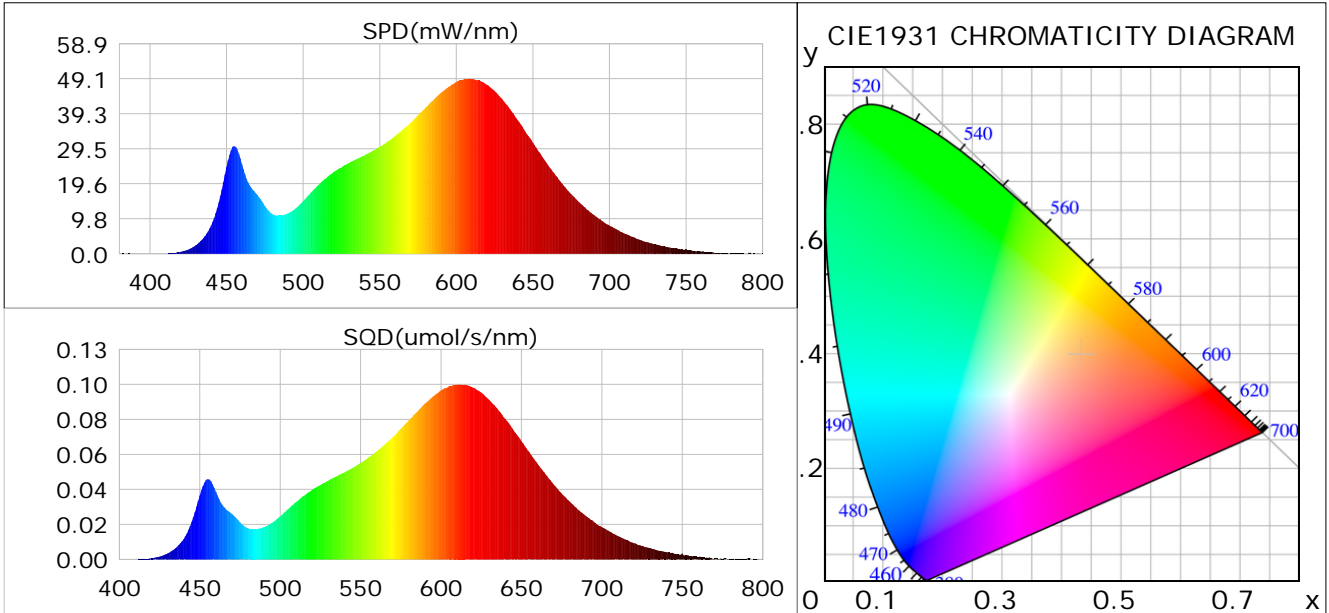
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Plant optical param data

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 Peak Wavelength: 607.9nm Half Bandwidth: 134.3nm
 Dominant Wavelength: 583.6nm Color Purity: 0.493
 CRI: $R_a=85.9$



Plant Optical Param

$ \mu_v(lm): 2400.12$	$Q_v(lm.s): 2400.12$
$ \mu_e, \dot{E}(W/nm): 7.45$	$Q_e(J): 7.45$
$ \mu_e(W): 7.26$	$ \mu_{fr}(W): 0.20$
$ \zeta_e: 0.33$	$ \zeta_{fr}: 0.01$
$PPE(\mu mol/s/w): 1.58$	$K_{fr}: 0.05$
$Erb_Ratio: 2.83$	$PPF(\mu mol/s): 35.04$
$PF_{uv}(360-400)(\mu mol/s): 0.00$	$PPF(400-500)(\mu mol/s): 4.17$
$PPF(500-600)(\mu mol/s): 14.68$	$PPF(600-700)(\mu mol/s): 16.19$
$PPF_{fr}(700-800)(\mu mol/s): 1.17$	$PPF.t(\mu mol): 35.04$
$ \mu_{ch-A.t}(J): 0.58$	$ \mu_{ch-A}(W): 0.58$
$ \mu_{ch-B.t}(J): 0.30$	$ \mu_{ch-B}(W): 0.30$
$ \mu_b.t(J): 1.07$	$ \mu_b(W): 1.07$
$ \mu_y.t(J): 3.16$	$ \mu_y(W): 3.16$
$ \mu_r.t(J): 3.09$	$ \mu_r(W): 3.09$

Electric Parameters

Voltage: 230.10V	Current: 0.1020A	Power: 22.14W
Power Factor: 0.9420	Frequency: 49.99Hz	

Condition: $T_x: 21.3^\circ C$, $T_i: 0.0^\circ C$, R.H.: 60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
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