

Lightsource Test Report

Product Information

Product Category: LED-Lampne
 Product Spec: LED-SLG28-E40-24-360-WW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 100284

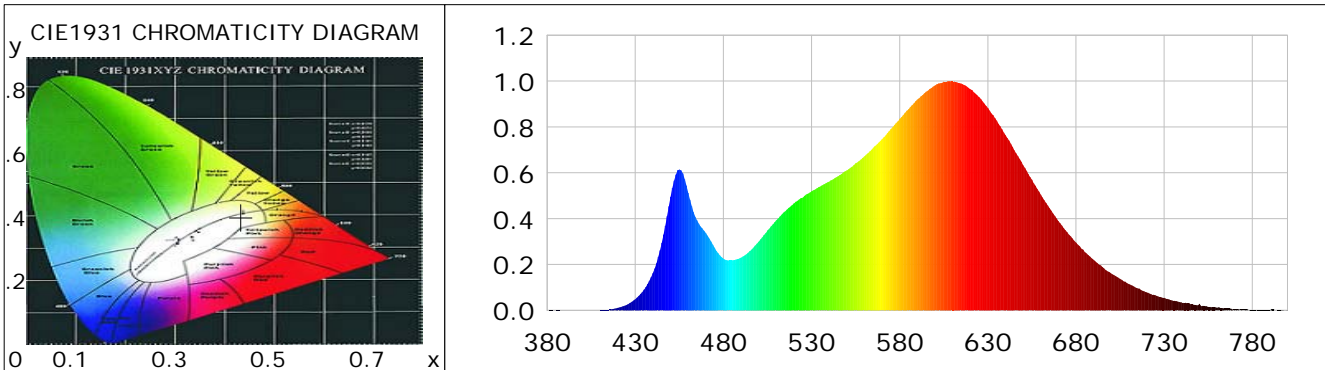
CIE Colorimetric Parameters

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: 2786.0 lm	Efficiency: 125.84 lm/W	Radiant Power: 8.648 W
Total mains efficacy: 147.98 lm/W	Energy Efficiency Class: D (EU 2019/2015)	
Pupil Flux: 3601.68 Plm	Pupil Lumens Per Watt: 162.68 Plm/W	Pupil Factor (Kp): 1.293
Cirtopic Flux: 6757.98 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: $T_x:21.3^{\circ}C$, $T_i:0.0^{\circ}C$, 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	0.0119	525	0.4920	28.0337	670	0.3898	22.2113
385	0.0007	0.0409	530	0.5187	29.5580	675	0.3411	19.4389
390	0.0006	0.0367	535	0.5403	30.7899	680	0.2962	16.8810
395	0.0002	0.0101	540	0.5613	31.9871	685	0.2539	14.4653
400	0.0004	0.0253	545	0.5849	33.3285	690	0.2202	12.5494
405	0.0001	0.0067	550	0.6105	34.7864	695	0.1889	10.7635
410	0.0010	0.0565	555	0.6411	36.5295	700	0.1607	9.1590
415	0.0041	0.2356	560	0.6720	38.2905	705	0.1375	7.8324
420	0.0109	0.6211	565	0.7094	40.4245	710	0.1151	6.5604
425	0.0235	1.3374	570	0.7475	42.5943	715	0.0961	5.4754
430	0.0488	2.7787	575	0.7913	45.0876	720	0.0787	4.4825
435	0.0905	5.1582	580	0.8358	47.6283	725	0.0658	3.7503
440	0.1621	9.2387	585	0.8769	49.9681	730	0.0546	3.1131
445	0.2950	16.8105	590	0.9200	52.4235	735	0.0421	2.3999
450	0.4952	28.2179	595	0.9538	54.3516	740	0.0347	1.9759
455	0.6147	35.0287	600	0.9809	55.8916	745	0.0269	1.5354
460	0.5127	29.2173	605	0.9969	56.8048	750	0.0281	1.6038
465	0.3929	22.3912	610	0.9985	56.8943	755	0.0150	0.8547
470	0.3378	19.2503	615	0.9897	56.3975	760	0.0117	0.6651
475	0.2735	15.5832	620	0.9650	54.9882	765	0.0086	0.4878
480	0.2258	12.8653	625	0.9304	53.0140	770	0.0045	0.2542
485	0.2178	12.4116	630	0.8826	50.2948	775	0.0039	0.2198
490	0.2302	13.1178	635	0.8277	47.1660	780	0.0032	0.1796
495	0.2583	14.7189	640	0.7644	43.5563	785	0.0023	0.1292
500	0.3001	17.0980	645	0.6987	39.8121	790	0.0007	0.0421
505	0.3487	19.8698	650	0.6330	36.0677	795	0.0010	0.0562
510	0.3931	22.4000	655	0.5700	32.4789	800	0.0024	0.1380
515	0.4314	24.5834	660	0.5048	28.7641			
520	0.4669	26.6036	665	0.4458	25.4031			

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

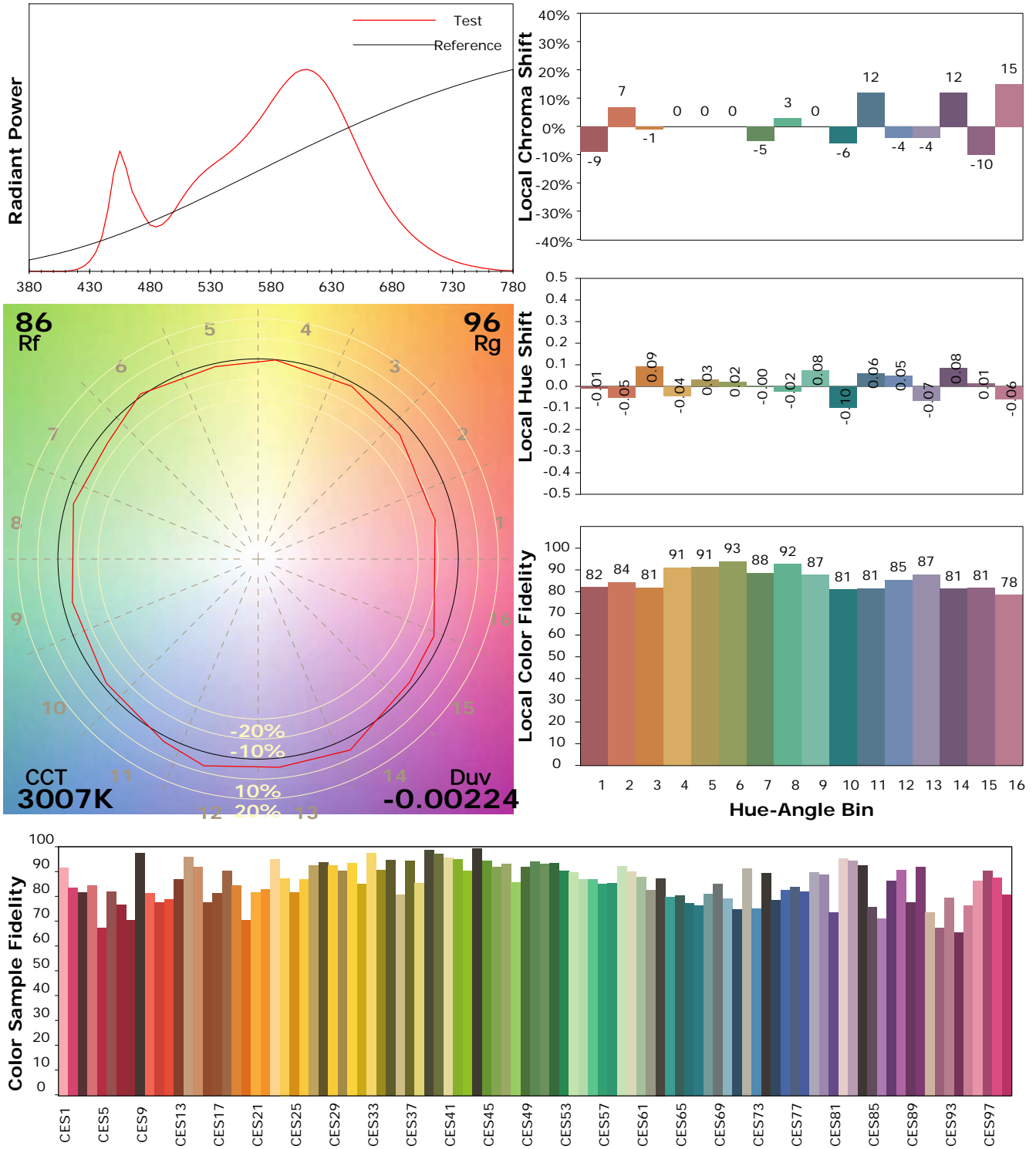
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IES TM-30-18 Color Rendition Report

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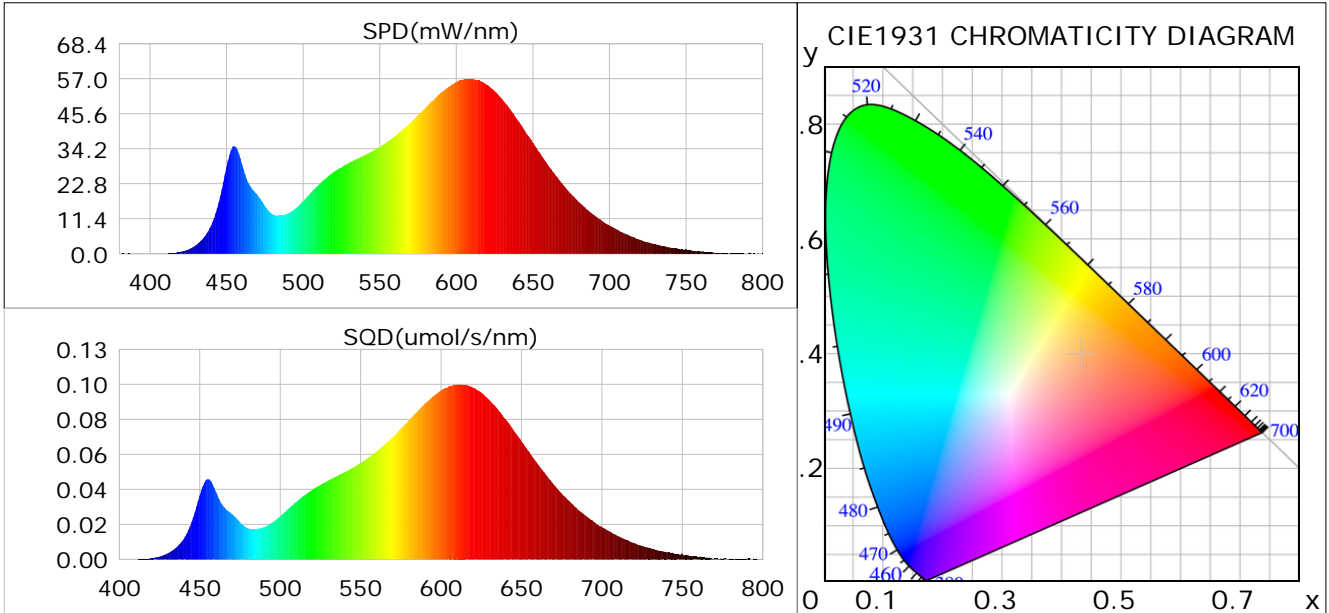
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Plant optical param data

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Plant Optical Param

$ \mu_v(lm): 2786.00$	$Q_v(lm.s): 2786.00$
$ \mu_e, \dot{E}(W/nm): 8.65$	$Q_e(J): 8.65$
$ \mu_e(W): 8.42$	$ \mu_{fr}(W): 0.24$
$ \zeta_e: 0.38$	$ \zeta_{fr}: 0.01$
$PPE(umol/s/w): 1.84$	$K_{fr}: 0.06$
$Erb_Ratio: 2.83$	$PPF(umol/s): 40.68$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 4.84$
$PPF(500-600)(umol/s): 17.04$	$PPF(600-700)(umol/s): 18.79$
$PPF_r(700-800)(umol/s): 1.36$	$PPF.t(umol): 40.68$
$ \mu_{ch-A.t}(J): 0.67$	$ \mu_{ch-A}(W): 0.67$
$ \mu_{ch-B.t}(J): 0.35$	$ \mu_{ch-B}(W): 0.35$
$ \mu_b.t(J): 1.25$	$ \mu_b(W): 1.25$
$ \mu_y.t(J): 3.67$	$ \mu_y(W): 3.67$
$ \mu_r.t(J): 3.59$	$ \mu_r(W): 3.59$

Electric Parameters

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

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