

Lightsource Test Report

Product Information

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

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 100250

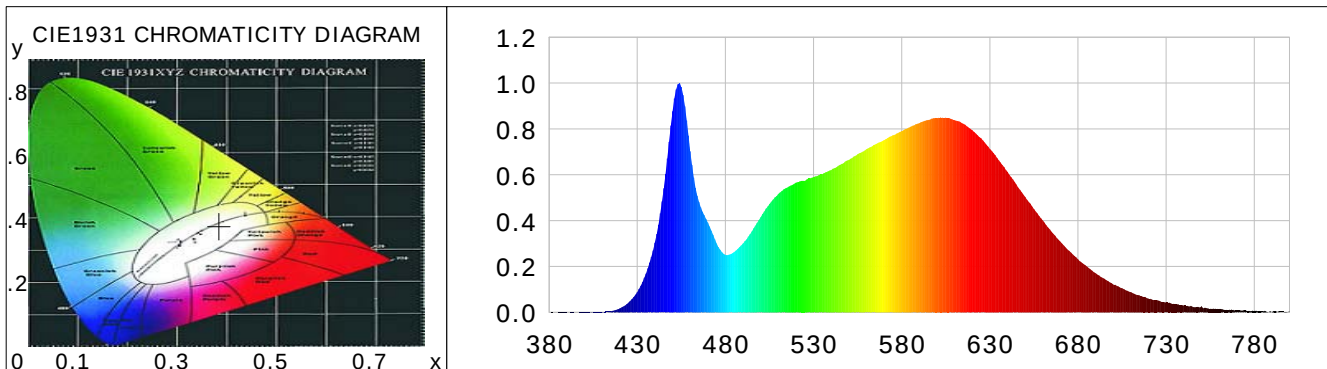
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3849$ $y=0.3761$ $u(u')=0.2283$ $v=0.3346$ $v'=0.5020$
 CCT: $T_c=3874K$ ($duv=-0.00159$) Color Ratio: $R=0.196$ $G=0.767$ $B=0.038$
 Peak Wavelength: 453.7nm Half Bandwidth: 20.1nm
 Dominant Wavelength: 580.4nm Color Purity: 0.284
 CRI: $R_a=87.2$, $avgR(1\sim14)=82.1$, $avgR(1\sim15)=82.1$ TM30: $R_f=86$, $R_g=97$
 GAI: $GAI_BB_8=96.7$, $GAI_BB_15=103.4$, $GAI_EES=74.2$

R1 =87	R2 =93	R3 =96	R4 =86	R5 =87	R6 =90	R7 =87	R8 =71
R9 =30	R10=83	R11=86	R12=66	R13=89	R14=98	R15=82	

Color Quality Scale: $Q_a=86.0$, $Q_f=86.0$, $Q_p=86.4$, $Q_g=95.0$

Q1 =85	Q2 =98	Q3 =82	Q4 =79	Q5 =84	Q6 =87	Q7 =89	Q8 =91
Q9 =98	Q10=91	Q11=88	Q12=87	Q13=87	Q14=79	Q15=81	



Photometric Parameters

Luminous Flux: 3465.8 lm	Efficiency: 127.47 lm/W	Radiant Power: 10.779 W
Total mains efficacy: 127.47 lm/W	Energy Efficiency Class: E (EU 2019/2015)	
Pupil Flux: 5249.95 Plm	Pupil Lumens Per Watt: 193.08 Plm/W	Pupil Factor (Kp): 1.515
Cirtpic Flux: 10733.74 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.1240A	Power: 27.19W
Power Factor: 0.9470	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: 46230 (2592)	CCD Integration Time: 105.37 ms

Condition: Tx:22.6'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 11:38:57
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0005	0.0386	525	0.5737	40.6431	670	0.3086	21.8593
385	0.0007	0.0523	530	0.5902	41.8072	675	0.2682	18.9980
390	0.0011	0.0747	535	0.6029	42.7129	680	0.2311	16.3702
395	0.0006	0.0404	540	0.6212	44.0089	685	0.2003	14.1859
400	0.0012	0.0866	545	0.6431	45.5587	690	0.1706	12.0857
405	0.0010	0.0700	550	0.6653	47.1282	695	0.1461	10.3472
410	0.0020	0.1431	555	0.6894	48.8353	700	0.1216	8.6154
415	0.0056	0.3936	560	0.7116	50.4104	705	0.1052	7.4545
420	0.0171	1.2108	565	0.7328	51.9099	710	0.0881	6.2404
425	0.0423	2.9999	570	0.7514	53.2299	715	0.0736	5.2165
430	0.0883	6.2557	575	0.7725	54.7241	720	0.0599	4.2434
435	0.1690	11.9728	580	0.7908	56.0180	725	0.0525	3.7194
440	0.3041	21.5409	585	0.8096	57.3541	730	0.0432	3.0628
445	0.5417	38.3745	590	0.8257	58.4899	735	0.0370	2.6204
450	0.8774	62.1585	595	0.8397	59.4887	740	0.0298	2.1103
455	0.9833	69.6568	600	0.8474	60.0317	745	0.0240	1.7013
460	0.7029	49.7932	605	0.8491	60.1475	750	0.0261	1.8506
465	0.4815	34.1115	610	0.8381	59.3723	755	0.0160	1.1357
470	0.3922	27.7806	615	0.8230	58.3000	760	0.0149	1.0540
475	0.3005	21.2896	620	0.7948	56.3017	765	0.0104	0.7343
480	0.2511	17.7879	625	0.7590	53.7689	770	0.0081	0.5731
485	0.2633	18.6523	630	0.7122	50.4550	775	0.0088	0.6238
490	0.3004	21.2796	635	0.6636	47.0082	780	0.0066	0.4666
495	0.3532	25.0216	640	0.6126	43.3964	785	0.0044	0.3143
500	0.4153	29.4213	645	0.5579	39.5216	790	0.0020	0.1405
505	0.4731	33.5183	650	0.5036	35.6765	795	0.0038	0.2696
510	0.5171	36.6328	655	0.4507	31.9275	800	0.0054	0.3851
515	0.5439	38.5281	660	0.4010	28.4099			
520	0.5655	40.0616	665	0.3515	24.8992			

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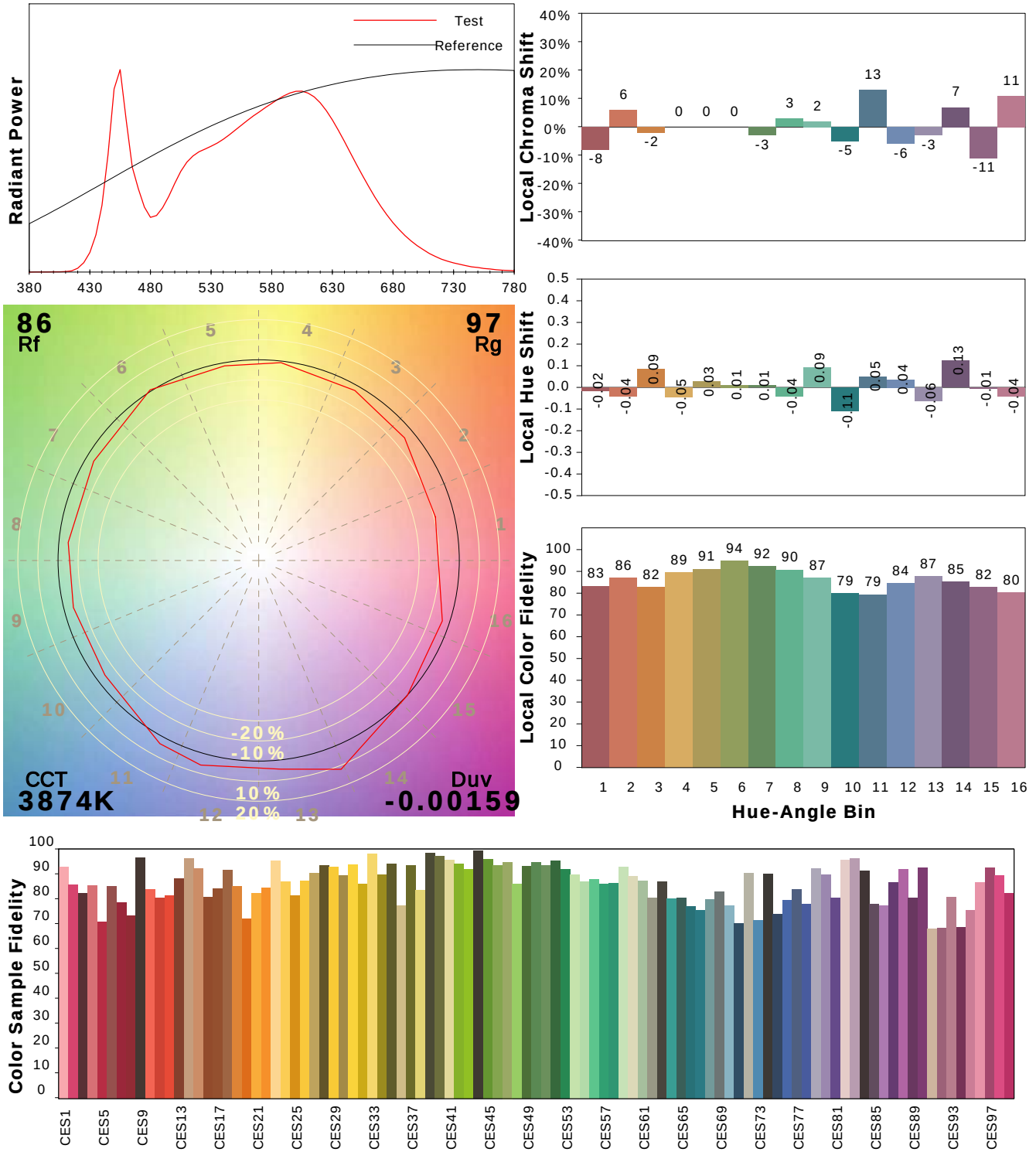
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IES TM-30-18 Color Rendition Report

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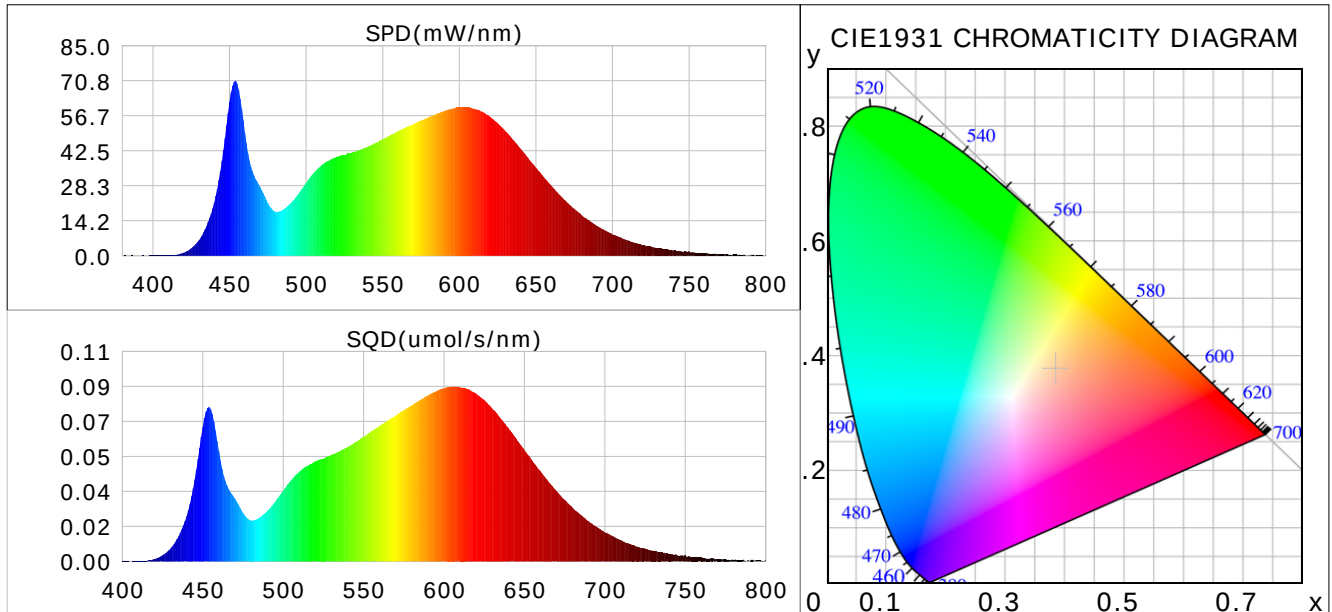
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Plant optical param data

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 CRI: Ra= 87.2



Plant Optical Param

$\mu_v(lm): 3465.80$	$Q_v(lm.s): 3465.80$
$\mu_e, \dot{E}(W/nm): 10.78$	$Q_e(J): 10.78$
$\mu_e(W): 10.55$	$\mu_{fr}(W): 0.24$
$\dot{Q}_e: 0.39$	$\dot{Q}_{fr}: 0.01$
$PPE(umol/s/w): 1.83$	$K_{fr}: 0.05$
$Erb_Ratio: 1.59$	$PPF(umol/s): 49.65$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 8.66$
$PPF(500-600)(umol/s): 22.04$	$PPF(600-700)(umol/s): 18.94$
$PF_{fr}(700-800)(umol/s): 1.42$	$PPF.t(umol): 49.65$
$\mu_{ch-A.t}(J): 0.84$	$\mu_{ch-A}(W): 0.84$
$\mu_{ch-B.t}(J): 0.49$	$\mu_{ch-B}(W): 0.49$
$\mu_b.t(J): 2.24$	$\mu_b(W): 2.24$
$\mu_y.t(J): 4.78$	$\mu_y(W): 4.78$
$\mu_r.t(J): 3.62$	$\mu_r(W): 3.62$

Electric Parameters

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