

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG371-E40-27-360-NW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 102927

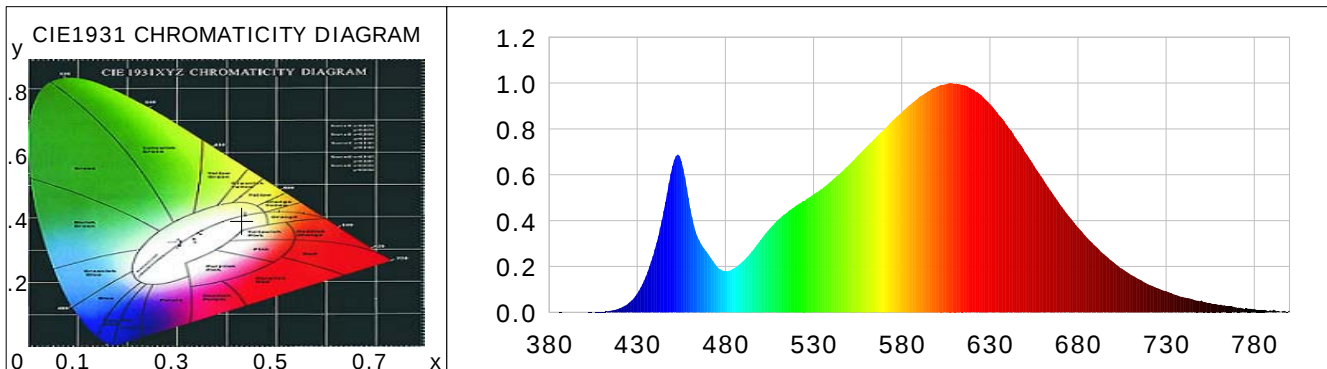
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4309$ $y=0.3925$ $u(u')=0.2517$ $v=0.3439$ $v'=0.5158$
 CCT: $T_c=3007K$ ($duv=-0.00387$) Color Ratio: $R=0.234$ $G=0.740$ $B=0.026$
 Peak Wavelength: 607.5nm Half Bandwidth: 140.0nm
 Dominant Wavelength: 584.3nm Color Purity: 0.471
 CRI: $R_a=85.1$, $avgR(1\sim14)=80.6$, $avgR(1\sim15)=80.5$ TM30: $R_f=85$, $R_g=99$
 GAI: $GAI_BB_8=106.3$, $GAI_BB_15=112.3$, $GAI_EES=61.2$

R1 =84	R2 =92	R3 =96	R4 =83	R5 =84	R6 =90	R7 =84	R8 =67
R9 =27	R10=81	R11=82	R12=73	R13=86	R14=98	R15=80	

Color Quality Scale: $Q_a=83.0$, $Q_f=83.3$, $Q_p=87.3$, $Q_g=96.0$

Q1 =82	Q2 =97	Q3 =80	Q4 =78	Q5 =83	Q6 =84	Q7 =82	Q8 =85
Q9 =96	Q10=88	Q11=84	Q12=82	Q13=83	Q14=78	Q15=79	



Photometric Parameters

Luminous Flux: 3929.8 lm	Efficiency: 144.53 lm/W	Radiant Power: 12.664 W
Total mains efficacy: 169.97 lm/W	Energy Efficiency Class: C (EU 2019/2015)	
Pupil Flux: 5014.27 Plm	Pupil Lumens Per Watt: 184.42 Plm/W	Pupil Factor (Kp): 1.276
Cirtpic Flux: 9287.43 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.1240A	Power: 27.19W
Power Factor: 0.9400	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: 45695 (2597)	CCD Integration Time: 106.61 ms

Condition: Tx:22.7'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 11:57:48
 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	0.0371	525	0.4864	37.9417	670	0.4682	36.5213
385	0.0007	0.0535	530	0.5139	40.0804	675	0.4180	32.6015
390	0.0006	0.0476	535	0.5403	42.1438	680	0.3704	28.8940
395	0.0003	0.0215	540	0.5713	44.5596	685	0.3259	25.4230
400	0.0007	0.0513	545	0.6059	47.2565	690	0.2877	22.4436
405	0.0006	0.0459	550	0.6419	50.0651	695	0.2516	19.6225
410	0.0023	0.1822	555	0.6833	53.2952	700	0.2187	17.0610
415	0.0072	0.5591	560	0.7220	56.3178	705	0.1901	14.8272
420	0.0175	1.3670	565	0.7599	59.2742	710	0.1637	12.7693
425	0.0395	3.0796	570	0.7983	62.2668	715	0.1427	11.1283
430	0.0823	6.4222	575	0.8378	65.3486	720	0.1208	9.4218
435	0.1576	12.2898	580	0.8724	68.0442	725	0.1060	8.2708
440	0.2750	21.4523	585	0.9055	70.6308	730	0.0924	7.2048
445	0.4427	34.5337	590	0.9400	73.3226	735	0.0773	6.0281
450	0.6385	49.8013	595	0.9642	75.2103	740	0.0650	5.0708
455	0.6598	51.4651	600	0.9843	76.7760	745	0.0565	4.4108
460	0.4536	35.3833	605	0.9952	77.6231	750	0.0519	4.0485
465	0.3152	24.5820	610	0.9971	77.7741	755	0.0409	3.1895
470	0.2565	20.0097	615	0.9908	77.2807	760	0.0331	2.5856
475	0.2018	15.7394	620	0.9738	75.9559	765	0.0279	2.1746
480	0.1789	13.9516	625	0.9481	73.9507	770	0.0206	1.6096
485	0.1921	14.9837	630	0.9082	70.8373	775	0.0170	1.3288
490	0.2222	17.3319	635	0.8614	67.1863	780	0.0153	1.1937
495	0.2656	20.7172	640	0.8122	63.3515	785	0.0099	0.7749
500	0.3160	24.6480	645	0.7573	59.0704	790	0.0068	0.5298
505	0.3639	28.3853	650	0.6976	54.4147	795	0.0026	0.2061
510	0.4043	31.5365	655	0.6398	49.9022	800	0.0086	0.6747
515	0.4354	33.9599	660	0.5829	45.4668			
520	0.4651	36.2801	665	0.5245	40.9125			

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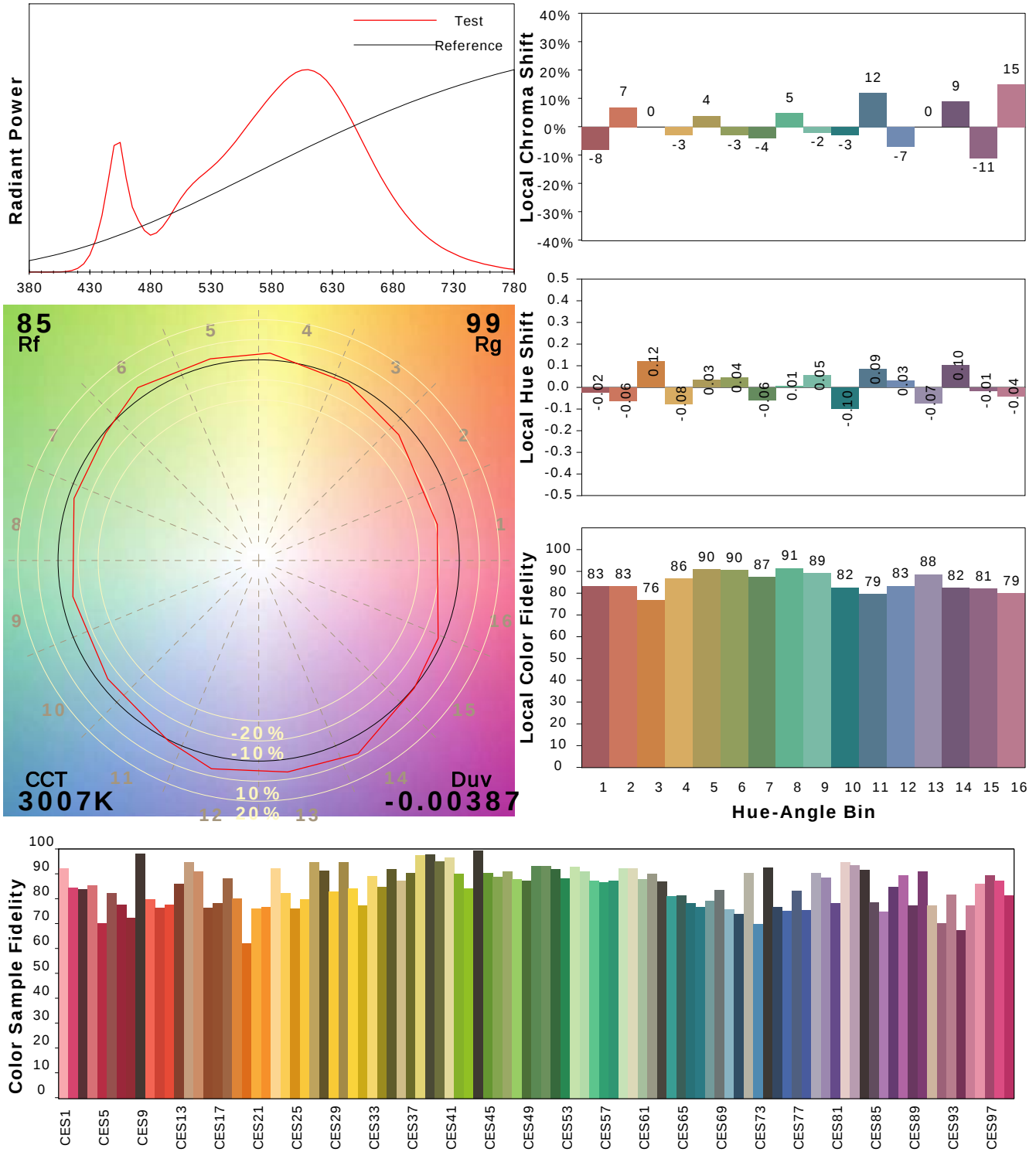
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IES TM-30-18 Color Rendition Report

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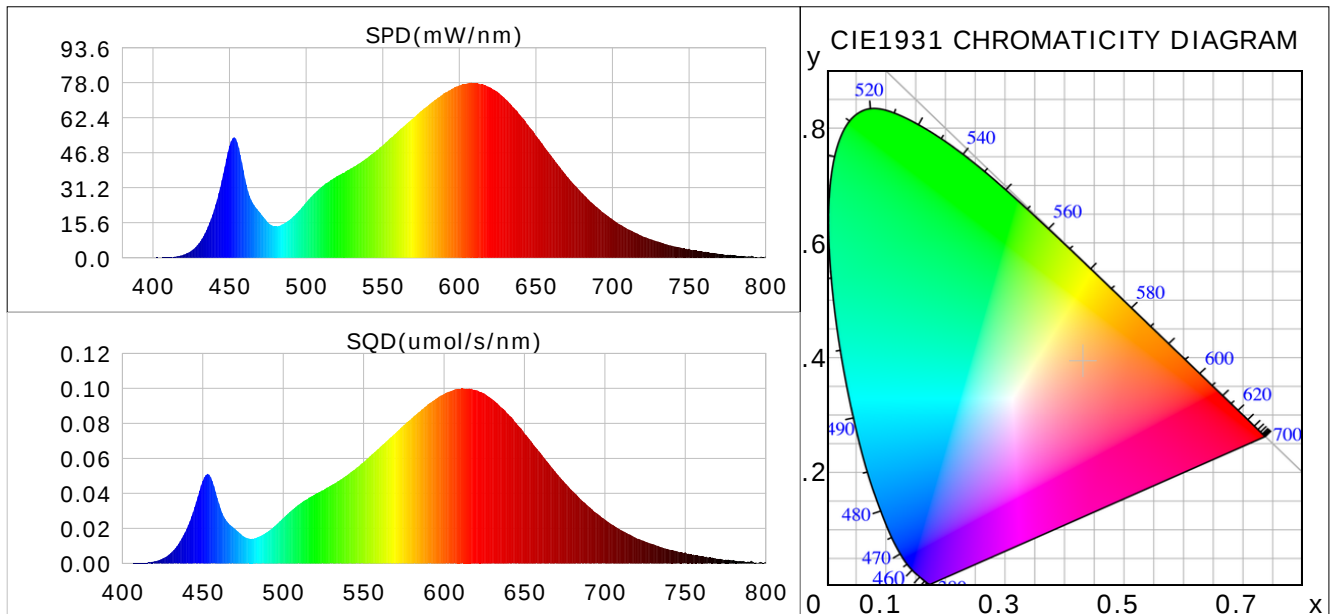
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Plant optical param data

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 CRI: Ra= 85.1



Plant Optical Param

$\mu_v(lm)$: 3929.80	$Q_v(lm.s)$: 3929.80
$\mu_e, \dot{E}(W/nm)$: 12.66	$Q_e(J)$: 12.66
$\mu_e(W)$: 12.16	$\mu_{fr}(W)$: 0.53
$\dot{C}_e$: 0.45	$\dot{C}_{fr}$: 0.02
$PPE(umol/s/w)$: 2.16	K_{fr} : 0.12
Erb_Ratio : 2.90	$PPF(umol/s)$: 58.84
$PF_{uv}(360-400)(umol/s)$: 0.00	$PPF(400-500)(umol/s)$: 6.92
$PPF(500-600)(umol/s)$: 24.12	$PPF(600-700)(umol/s)$: 27.80
$PF_{fr}(700-800)(umol/s)$: 3.14	$PPF.t(umol)$: 58.84
$\mu_{ch-A.t}(J)$: 1.02	$\mu_{ch-A}(W)$: 1.02
$\mu_{ch-B.t}(J)$: 0.50	$\mu_{ch-B}(W)$: 0.50
$\mu_{b.t}(J)$: 1.79	$\mu_b(W)$: 1.79
$\mu_{y.t}(J)$: 5.19	$\mu_y(W)$: 5.19
$\mu_{r.t}(J)$: 5.28	$\mu_r(W)$: 5.28

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