

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG12-E40-20-180-NW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampe
 Product Number: 1
 Submitted Unit: 100217

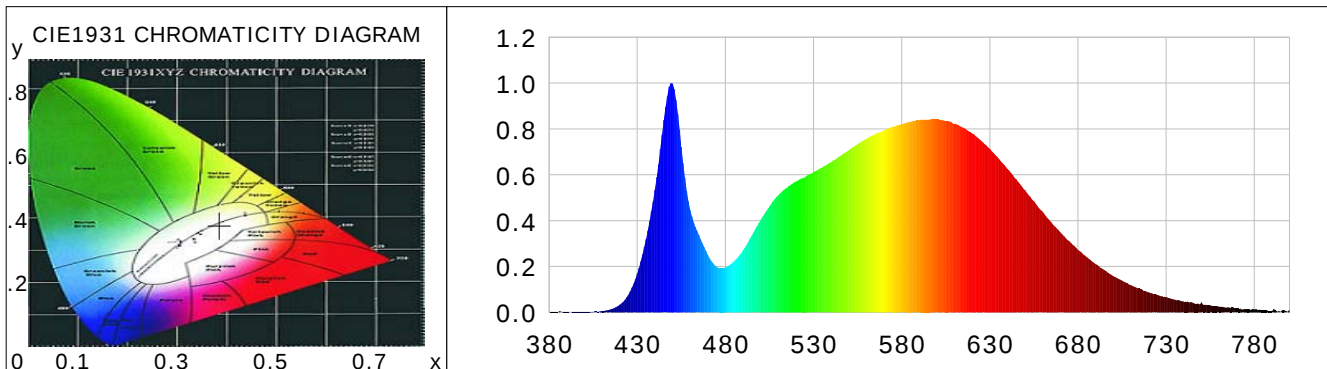
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3857$ $y=0.3781$ $u(u')=0.2281$ $v=0.3353$ $v'=0.5029$
 CCT: $T_c=3868K$ ($duv=-0.00089$) Color Ratio: $R=0.190$ $G=0.778$ $B=0.032$
 Peak Wavelength: 449.4nm Half Bandwidth: 19.3nm
 Dominant Wavelength: 580.0nm Color Purity: 0.292
 CRI: $R_a=84.1$, $avgR(1\sim14)=78.2$, $avgR(1\sim15)=78.3$ TM30: $R_f=84$, $R_g=99$
 GAI: $GAI_BB_8=97.0$, $GAI_BB_15=102.3$, $GAI_EES=74.4$

R1 =83	R2 =88	R3 =92	R4 =84	R5 =83	R6 =84	R7 =88	R8 =71
R9 =24	R10=72	R11=83	R12=64	R13=84	R14=95	R15=79	

Color Quality Scale: $Q_a=83.8$, $Q_f=83.4$, $Q_p=85.2$, $Q_g=95.9$

Q1 =85	Q2 =98	Q3 =78	Q4 =77	Q5 =83	Q6 =84	Q7 =85	Q8 =90
Q9 =97	Q10=87	Q11=84	Q12=84	Q13=85	Q14=77	Q15=80	



Photometric Parameters

Luminous Flux: 2063.8 lm	Efficiency: 97.95 lm/W	Radiant Power: 6.474 W
Total mains efficacy: 97.95 lm/W	Energy Efficiency Class: F (EU 2019/2015)	
Pupil Flux: 3021.04 Plm	Pupil Lumens Per Watt: 143.38 Plm/W	Pupil Factor (Kp): 1.464
Cirtpic Flux: 5964.28 lm		

Electric Parameters

Voltage: 230.50V	Current: 0.0990A	Power: 21.07W
Power Factor: 0.9210	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: 46183 (2534)	CCD Integration Time: 172.07 ms

Condition: Tx:21.4'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-16 09:49:22
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0012	0.0498	525	0.5881	24.2242	670	0.3497	14.4044
385	0.0014	0.0584	530	0.6112	25.1740	675	0.3107	12.7993
390	0.0016	0.0639	535	0.6323	26.0420	680	0.2729	11.2407
395	0.0014	0.0595	540	0.6555	26.9980	685	0.2405	9.9066
400	0.0019	0.0793	545	0.6808	28.0417	690	0.2099	8.6441
405	0.0024	0.1002	550	0.7078	29.1527	695	0.1838	7.5689
410	0.0060	0.2482	555	0.7337	30.2216	700	0.1581	6.5101
415	0.0133	0.5487	560	0.7573	31.1913	705	0.1385	5.7051
420	0.0333	1.3698	565	0.7775	32.0247	710	0.1192	4.9082
425	0.0774	3.1887	570	0.7932	32.6727	715	0.1040	4.2851
430	0.1692	6.9704	575	0.8102	33.3711	720	0.0876	3.6087
435	0.3193	13.1516	580	0.8206	33.8008	725	0.0767	3.1591
440	0.5341	21.9982	585	0.8311	34.2309	730	0.0669	2.7574
445	0.8398	34.5892	590	0.8392	34.5654	735	0.0555	2.2843
450	0.9981	41.1099	595	0.8409	34.6357	740	0.0469	1.9330
455	0.7212	29.7054	600	0.8415	34.6609	745	0.0421	1.7330
460	0.4467	18.3986	605	0.8354	34.4083	750	0.0438	1.8030
465	0.3366	13.8630	610	0.8223	33.8714	755	0.0309	1.2709
470	0.2508	10.3307	615	0.8050	33.1584	760	0.0245	1.0076
475	0.1985	8.1746	620	0.7801	32.1300	765	0.0218	0.8959
480	0.1961	8.0791	625	0.7488	30.8418	770	0.0172	0.7095
485	0.2230	9.1855	630	0.7134	29.3829	775	0.0148	0.6084
490	0.2706	11.1449	635	0.6704	27.6137	780	0.0131	0.5383
495	0.3351	13.8038	640	0.6252	25.7505	785	0.0099	0.4062
500	0.4036	16.6246	645	0.5801	23.8947	790	0.0050	0.2053
505	0.4623	19.0434	650	0.5321	21.9182	795	0.0038	0.1575
510	0.5107	21.0370	655	0.4848	19.9683	800	0.0118	0.4853
515	0.5439	22.4012	660	0.4386	18.0641			
520	0.5707	23.5066	665	0.3915	16.1255			

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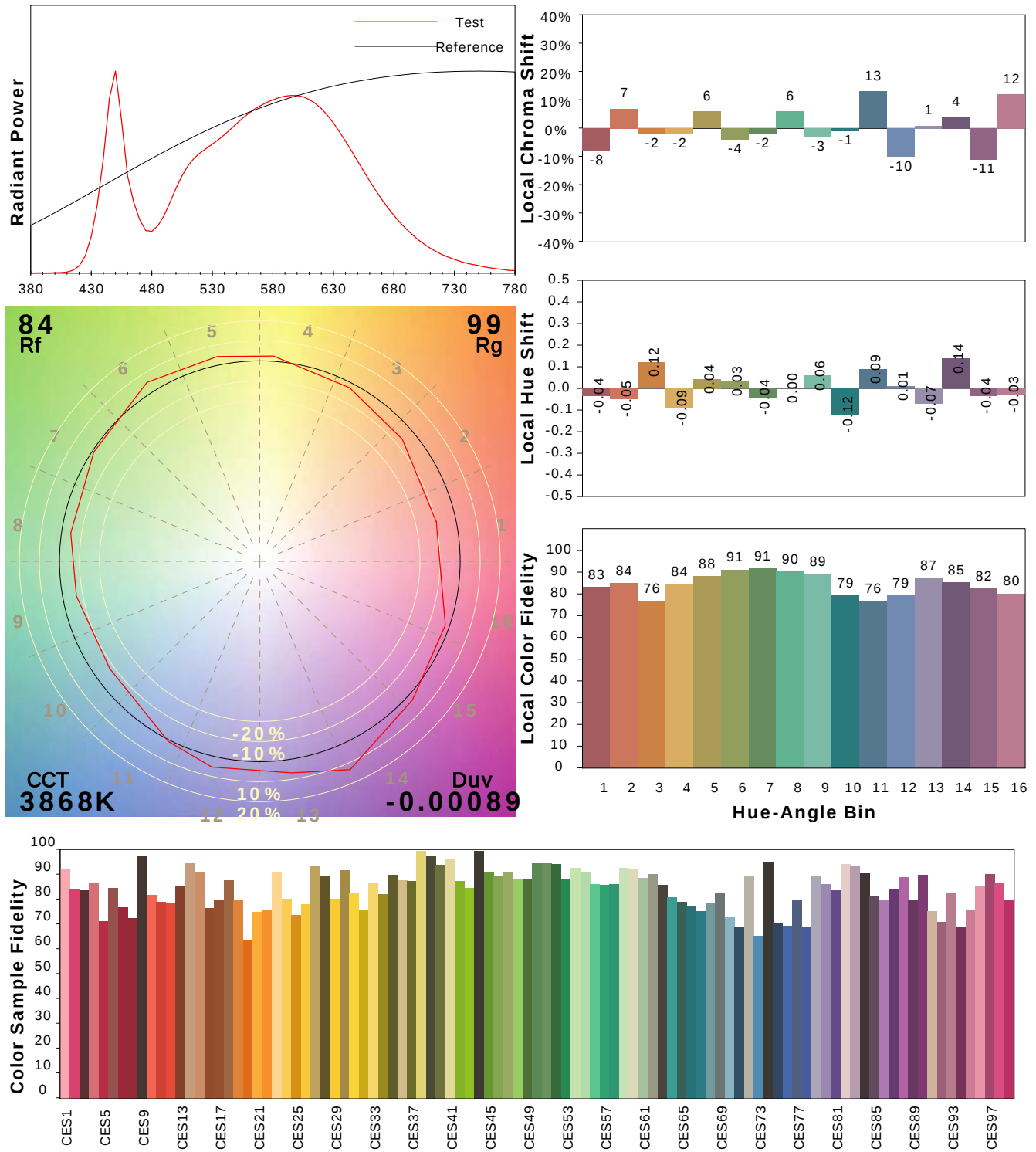
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IES TM-30-18 Color Rendition Report

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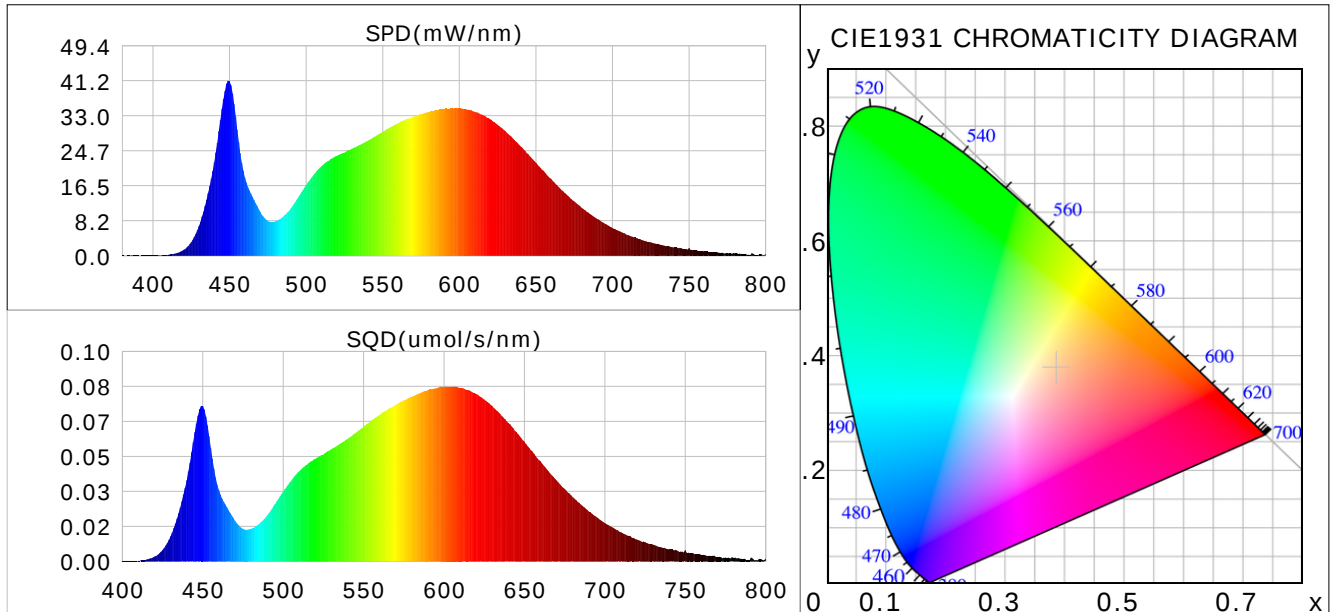
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Plant optical param data

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 Dominant Wavelength: 580.0nm Color Purity: 0.292
 CRI: Ra= 84.1



Plant Optical Param

$\mu_v(\text{lm})$: 2063.80	$Q_v(\text{lm.s})$: 2063.80
$\mu_e, \dot{E}(\text{W/nm})$: 6.47	$Q_e(\text{J})$: 6.47
$\mu_e(\text{W})$: 6.28	$\mu_{fr}(\text{W})$: 0.21
$\dot{C}_e$: 0.30	$\dot{C}_{fr}$: 0.01
$PPE(\mu\text{mol/s/w})$: 1.40	K_{fr} : 0.06
E_{rb_Ratio} : 1.68	$PPF(\mu\text{mol/s})$: 29.59
$PF_{uv}(360-400)(\mu\text{mol/s})$: 0.00	$PPF(400-500)(\mu\text{mol/s})$: 4.90
$PPF(500-600)(\mu\text{mol/s})$: 13.24	$PPF(600-700)(\mu\text{mol/s})$: 11.45
$PF_{fr}(700-800)(\mu\text{mol/s})$: 1.23	$PPF.t(\mu\text{mol})$: 29.59
$\mu_{ch-A.t}(\text{J})$: 0.54	$\mu_{ch-A}(W)$: 0.54
$\mu_{ch-B.t}(\text{J})$: 0.28	$\mu_{ch-B}(W)$: 0.28
$\mu_b.t(\text{J})$: 1.28	$\mu_b(W)$: 1.28
$\mu_y.t(\text{J})$: 2.87	$\mu_y(W)$: 2.87
$\mu_r.t(\text{J})$: 2.18	$\mu_r(W)$: 2.18

Electric Parameters

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