

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG28-E27-19-360-NWM
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 100721

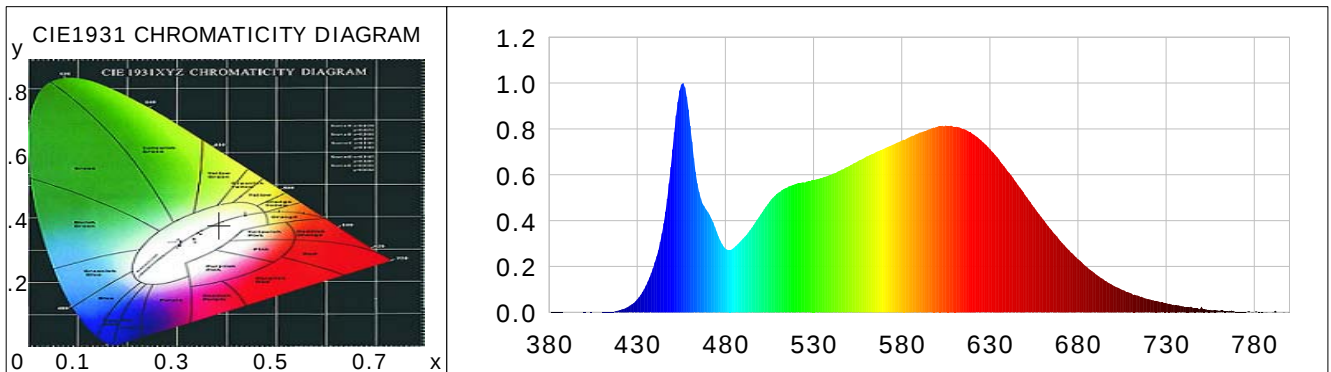
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3849$ $y=0.3787$ $u(u')=0.2272$ $v=0.3354$ $v'=0.5031$
 CCT: $T_c=3896K$ ($duv=-0.00036$) Color Ratio: $R=0.198$ $G=0.762$ $B=0.040$
 Peak Wavelength: 455.8nm Half Bandwidth: 18.8nm
 Dominant Wavelength: 579.6nm Color Purity: 0.292
 CRI: $R_a=89.3$, $avgR(1\sim14)=84.9$, $avgR(1\sim15)=84.9$ TM30: $R_f=87$, $R_g=96$
 GAI: $GAI_BB_8=94.8$, $GAI_BB_15=102.0$, $GAI_EES=73.1$

R1 =89	R2 =95	R3 =97	R4 =88	R5 =89	R6 =93	R7 =88	R8 =75
R9 =39	R10=88	R11=89	R12=67	R13=91	R14=99	R15=85	

Color Quality Scale: $Q_a=88.2$, $Q_f=88.3$, $Q_p=87.8$, $Q_g=94.6$

Q1 =85	Q2 =97	Q3 =86	Q4 =82	Q5 =86	Q6 =88	Q7 =91	Q8 =93
Q9 =98	Q10=95	Q11=92	Q12=91	Q13=90	Q14=82	Q15=84	



Photometric Parameters

Luminous Flux: 2465.1 lm	Efficiency: 129.47 lm/W	Radiant Power: 7.708 W
Total mains efficacy: 129.47 lm/W	Energy Efficiency Class: E (EU 2019/2015)	
Pupil Flux: 3808.82 Plm	Pupil Lumens Per Watt: 200.04 Plm/W	Pupil Factor (Kp): 1.545
Cirtpic Flux: 7899.68 lm		

Electric Parameters

Voltage: 231.00V	Current: 0.0850A	Power: 19.04W
Power Factor: 0.9610	Frequency: 50.00Hz	

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: 44418 (2569)	CCD Integration Time: 131.96 ms

Condition: Tx:22.1'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-11 14:37:55
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0001	0.0065	525	0.5659	29.4484	670	0.3119	16.2322
385	0.0012	0.0622	530	0.5773	30.0450	675	0.2705	14.0753
390	0.0002	0.0104	535	0.5869	30.5426	680	0.2324	12.0947
395	0.0005	0.0238	540	0.5997	31.2119	685	0.1979	10.2965
400	0.0008	0.0436	545	0.6180	32.1615	690	0.1667	8.6727
405	0.0002	0.0085	550	0.6372	33.1598	695	0.1394	7.2536
410	0.0009	0.0449	555	0.6581	34.2503	700	0.1167	6.0738
415	0.0028	0.1442	560	0.6792	35.3490	705	0.0980	5.0980
420	0.0096	0.4988	565	0.6968	36.2623	710	0.0831	4.3261
425	0.0251	1.3056	570	0.7139	37.1546	715	0.0697	3.6257
430	0.0568	2.9582	575	0.7311	38.0470	720	0.0579	3.0127
435	0.1166	6.0699	580	0.7496	39.0097	725	0.0493	2.5665
440	0.2178	11.3356	585	0.7662	39.8727	730	0.0403	2.0959
445	0.3885	20.2204	590	0.7839	40.7975	735	0.0308	1.6016
450	0.7100	36.9513	595	0.7967	41.4631	740	0.0252	1.3104
455	0.9935	51.7059	600	0.8086	42.0813	745	0.0201	1.0446
460	0.8137	42.3445	605	0.8147	42.3973	750	0.0242	1.2569
465	0.5252	27.3328	610	0.8090	42.1034	755	0.0108	0.5608
470	0.4377	22.7786	615	0.8001	41.6392	760	0.0067	0.3488
475	0.3519	18.3132	620	0.7791	40.5482	765	0.0048	0.2515
480	0.2782	14.4789	625	0.7502	39.0391	770	0.0030	0.1586
485	0.2822	14.6852	630	0.7125	37.0805	775	0.0023	0.1182
490	0.3214	16.7281	635	0.6686	34.7967	780	0.0014	0.0723
495	0.3689	19.1964	640	0.6154	32.0266	785	0.0022	0.1127
500	0.4270	22.2232	645	0.5664	29.4758	790	0.0009	0.0468
505	0.4818	25.0723	650	0.5110	26.5908	795	0.0002	0.0112
510	0.5217	27.1510	655	0.4585	23.8628	800	0.0038	0.1986
515	0.5438	28.3006	660	0.4076	21.2103			
520	0.5604	29.1665	665	0.3582	18.6424			

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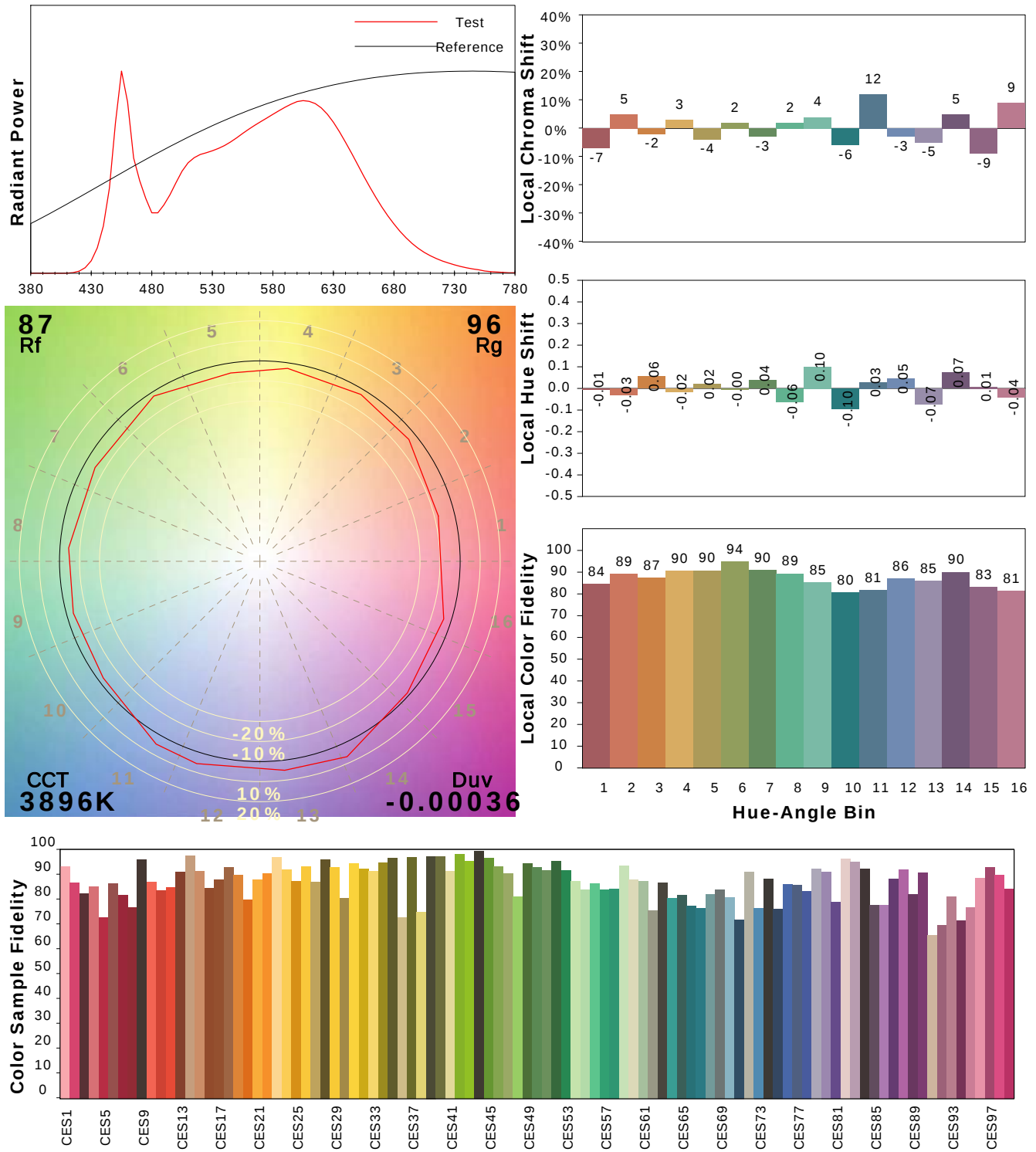
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IES TM-30-18 Color Rendition Report

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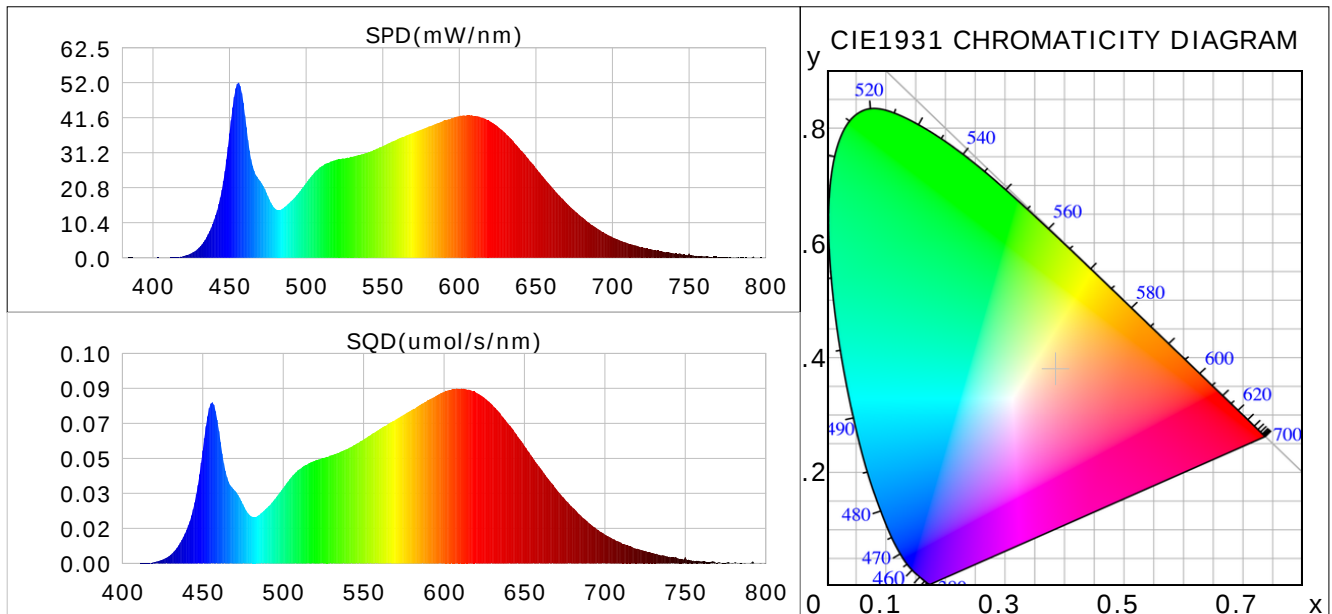
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Plant optical param data

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 CRI: Ra= 89.3



Plant Optical Param

$\mu_v(lm): 2465.10$	$Q_v(lm.s): 2465.10$
$\mu_e, \dot{E}(W/nm): 7.71$	$Q_e(J): 7.71$
$\mu_e(W): 7.56$	$\mu_{fr}(W): 0.16$
$\dot{C}_e: 0.40$	$\dot{C}_{fr}: 0.01$
$PPE(umol/s/w): 1.87$	$K_{fr}: 0.05$
$Erb_Ratio: 1.62$	$PPF(umol/s): 35.63$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 6.22$
$PPF(500-600)(umol/s): 15.61$	$PPF(600-700)(umol/s): 13.80$
$PF_{fr}(700-800)(umol/s): 0.91$	$PPF.t(umol): 35.63$
$\mu_{ch-A.t}(J): 0.59$	$\mu_{ch-A}(W): 0.59$
$\mu_{ch-B.t}(J): 0.36$	$\mu_{ch-B}(W): 0.36$
$\mu_b.t(J): 1.60$	$\mu_b(W): 1.60$
$\mu_y.t(J): 3.39$	$\mu_y(W): 3.39$
$\mu_r.t(J): 2.64$	$\mu_r(W): 2.64$

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