

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG12-E27-30-180-WW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampe
 Product Number: 1
 Submitted Unit: 100194

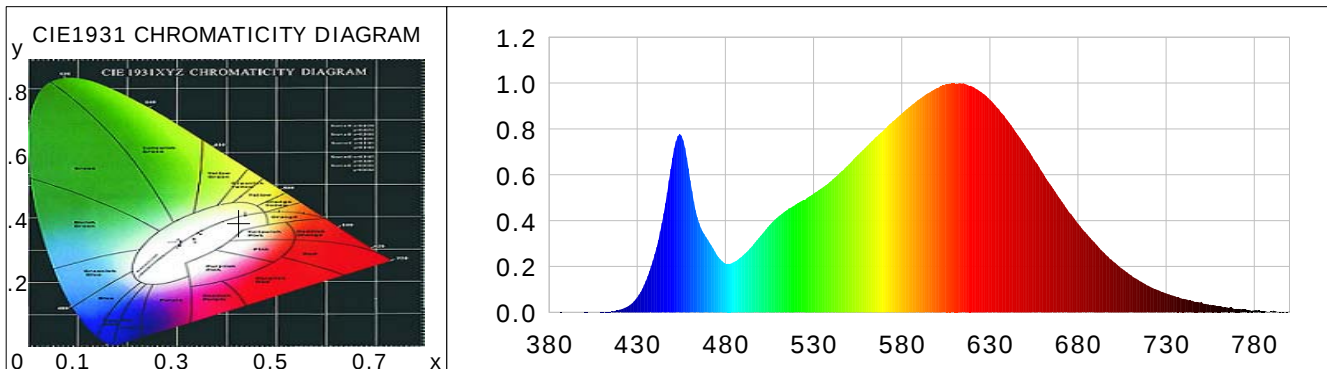
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4248$ $y=0.3858$ $u(u')=0.2506$ $v=0.3414$ $v'=0.5121$
 CCT: $T_c=3060K$ ($duv=-0.00576$) Color Ratio: $R=0.235$ $G=0.736$ $B=0.029$
 Peak Wavelength: 613.0nm Half Bandwidth: 142.8nm
 Dominant Wavelength: 585.0nm Color Purity: 0.433
 CRI: $R_a=87.1$, $avgR(1\sim14)=83.3$, $avgR(1\sim15)=83.3$ TM30: $R_f=86$, $R_g=99$
 GAI: $GAI_BB_8=110.8$, $GAI_BB_15=116.7$, $GAI_EES=65.4$

R1 =87	R2 =94	R3 =96	R4 =85	R5 =87	R6 =92	R7 =85	R8 =70
R9 =36	R10=86	R11=83	R12=75	R13=89	R14=99	R15=83	

Color Quality Scale: $Q_a=84.2$, $Q_f=84.1$, $Q_p=89.0$, $Q_g=97.1$

Q1 =84	Q2 =97	Q3 =81	Q4 =78	Q5 =84	Q6 =86	Q7 =84	Q8 =86
Q9 =97	Q10=89	Q11=85	Q12=83	Q13=84	Q14=80	Q15=81	



Photometric Parameters

Luminous Flux: 3106.5 lm	Efficiency: 102.97 lm/W	Radiant Power: 10.167 W
Total mains efficacy: 102.97 lm/W	Energy Efficiency Class: F (EU 2019/2015)	
Pupil Flux: 4097.74 Plm	Pupil Lumens Per Watt: 135.82 Plm/W	Pupil Factor (Kp): 1.319
Cirtpic Flux: 7813.56 lm		

Electric Parameters

Voltage: 230.20V	Current: 0.1350A	Power: 30.17W
Power Factor: 0.9690	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: 45956 (2539)	CCD Integration Time: 128.68 ms

Condition: Tx:21.9'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-11 14:04:46
 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	0.0292	525	0.4892	29.9471	670	0.4929	30.1737
385	0.0002	0.0118	530	0.5174	31.6790	675	0.4361	26.6984
390	0.0002	0.0153	535	0.5431	33.2514	680	0.3874	23.7190
395	0.0001	0.0047	540	0.5728	35.0672	685	0.3410	20.8774
400	0.0010	0.0612	545	0.6087	37.2679	690	0.2981	18.2498
405	0.0003	0.0207	550	0.6451	39.4934	695	0.2578	15.7833
410	0.0010	0.0635	555	0.6854	41.9605	700	0.2214	13.5524
415	0.0041	0.2530	560	0.7226	44.2415	705	0.1903	11.6530
420	0.0115	0.7037	565	0.7624	46.6756	710	0.1625	9.9482
425	0.0278	1.7004	570	0.7969	48.7890	715	0.1366	8.3620
430	0.0653	3.9991	575	0.8340	51.0612	720	0.1157	7.0838
435	0.1382	8.4592	580	0.8672	53.0898	725	0.0979	5.9929
440	0.2543	15.5697	585	0.8988	55.0274	730	0.0824	5.0476
445	0.4318	26.4381	590	0.9298	56.9222	735	0.0700	4.2874
450	0.6735	41.2312	595	0.9560	58.5267	740	0.0588	3.5982
455	0.7707	47.1831	600	0.9786	59.9099	745	0.0504	3.0860
460	0.5754	35.2251	605	0.9954	60.9420	750	0.0456	2.7940
465	0.3902	23.8875	610	0.9986	61.1363	755	0.0330	2.0185
470	0.3164	19.3733	615	0.9990	61.1634	760	0.0277	1.6988
475	0.2520	15.4281	620	0.9851	60.3076	765	0.0203	1.2431
480	0.2130	13.0419	625	0.9612	58.8457	770	0.0150	0.9161
485	0.2202	13.4814	630	0.9277	56.7973	775	0.0134	0.8210
490	0.2485	15.2138	635	0.8867	54.2878	780	0.0089	0.5458
495	0.2869	17.5634	640	0.8365	51.2117	785	0.0059	0.3591
500	0.3341	20.4535	645	0.7832	47.9466	790	0.0035	0.2171
505	0.3801	23.2678	650	0.7270	44.5091	795	0.0018	0.1090
510	0.4179	25.5869	655	0.6664	40.7991	800	0.0046	0.2806
515	0.4468	27.3516	660	0.6085	37.2548			
520	0.4705	28.8061	665	0.5497	33.6525			

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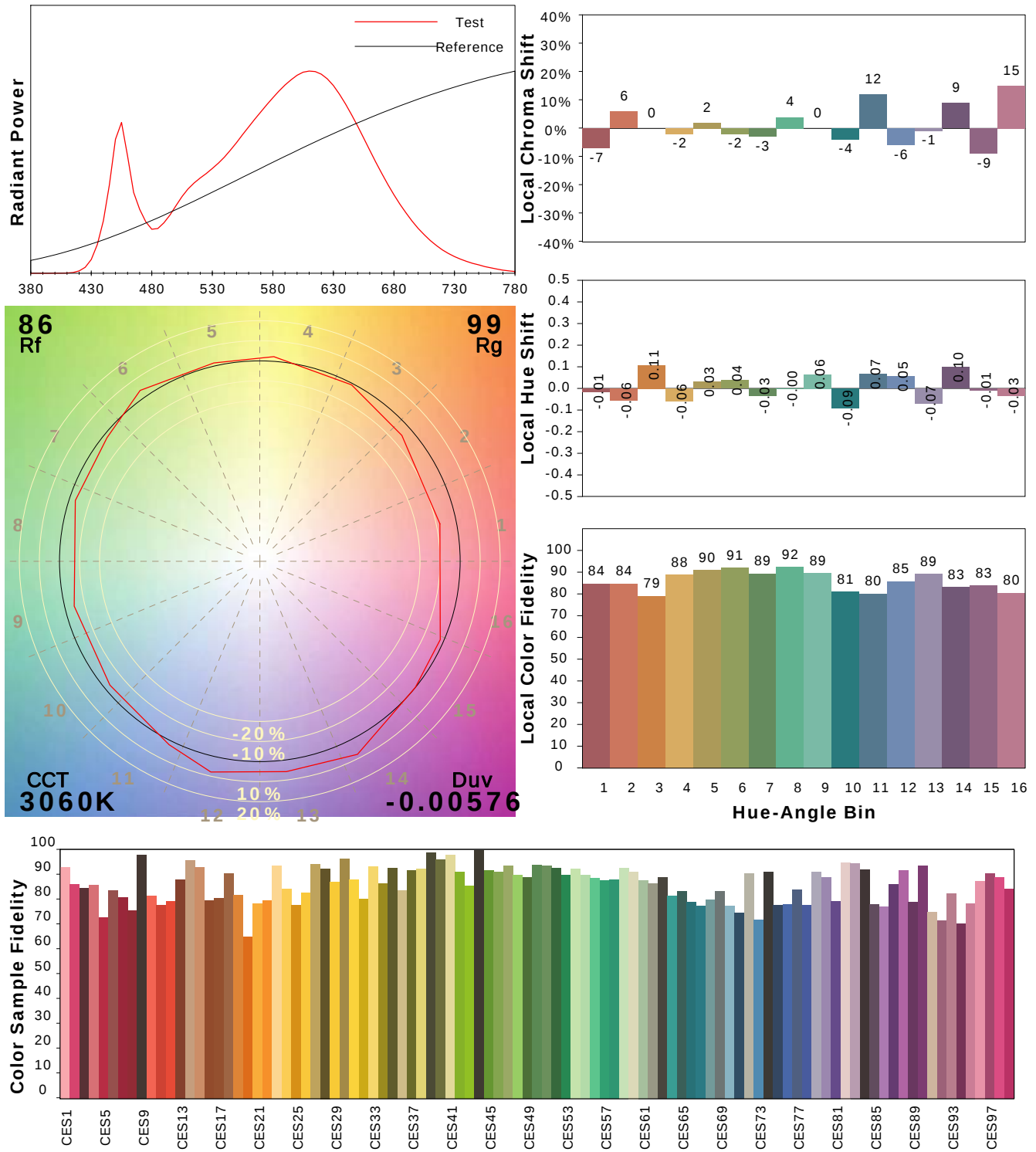
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IES TM-30-18 Color Rendition Report

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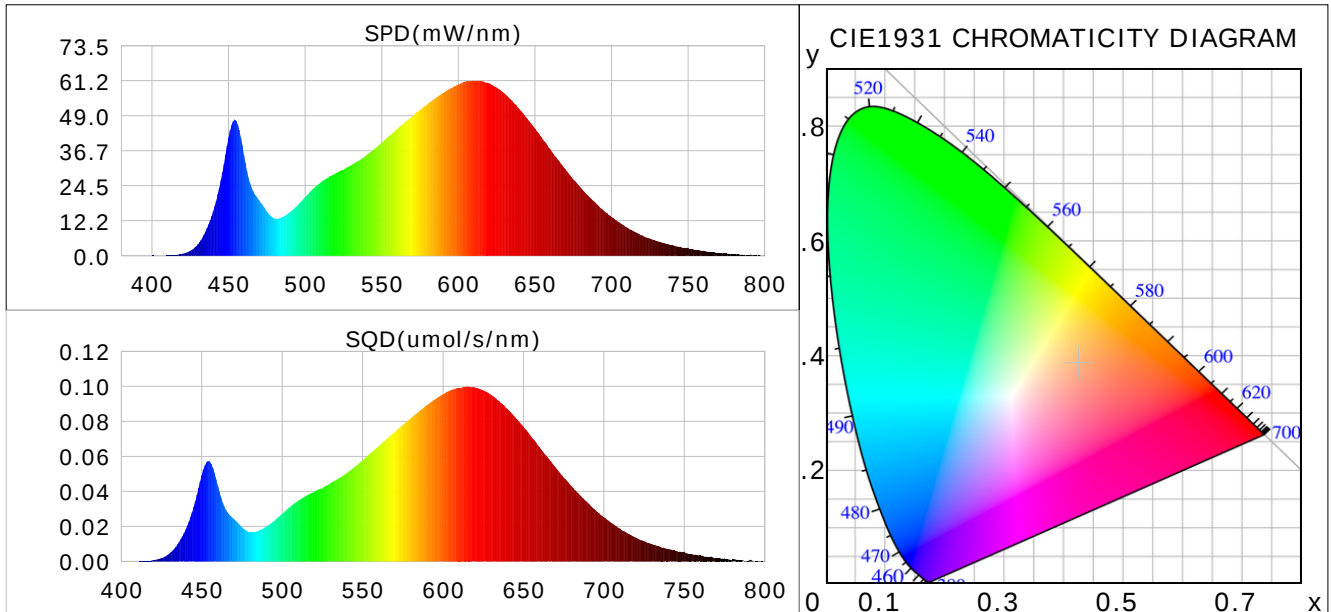
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Plant optical param data

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 Dominant Wavelength: 585.0nm Color Purity: 0.433
 CRI: Ra= 87.1



Plant Optical Param

$\mu_v(lm)$: 3106.50	$Q_v(lm.s)$: 3106.50
$\mu_e, \dot{E}(W/nm)$: 10.17	$Q_e(J)$: 10.17
$\mu_e(W)$: 9.80	$\mu_{fr}(W)$: 0.39
$\dot{C}_e$: 0.32	$\dot{C}_{fr}$: 0.01
$PPE(umol/s/w)$: 1.57	K_{fr} : 0.08
E_{rb_Ratio} : 2.69	$PPF(umol/s)$: 47.34
$PF_{uv}(360-400)(umol/s)$: 0.00	$PPF(400-500)(umol/s)$: 6.01
$PPF(500-600)(umol/s)$: 18.97	$PPF(600-700)(umol/s)$: 22.35
$PF_{fr}(700-800)(umol/s)$: 2.26	$PPF.t(umol)$: 47.34
$\mu_{ch-A.t}(J)$: 0.82	$\mu_{ch-A}(W)$: 0.82
$\mu_{ch-B.t}(J)$: 0.42	$\mu_{ch-B}(W)$: 0.42
$\mu_{b.t}(J)$: 1.55	$\mu_b(W)$: 1.55
$\mu_{y.t}(J)$: 4.08	$\mu_y(W)$: 4.08
$\mu_{r.t}(J)$: 4.24	$\mu_r(W)$: 4.24

Electric Parameters

Voltage: 230.20V	Current: 0.1350A	Power: 30.17W
Power Factor: 0.9690	Frequency: 49.99Hz	