

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG28-Plus-E40-54-360-DWM
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampe
 Product Number: 1
 Submitted Unit: 104332

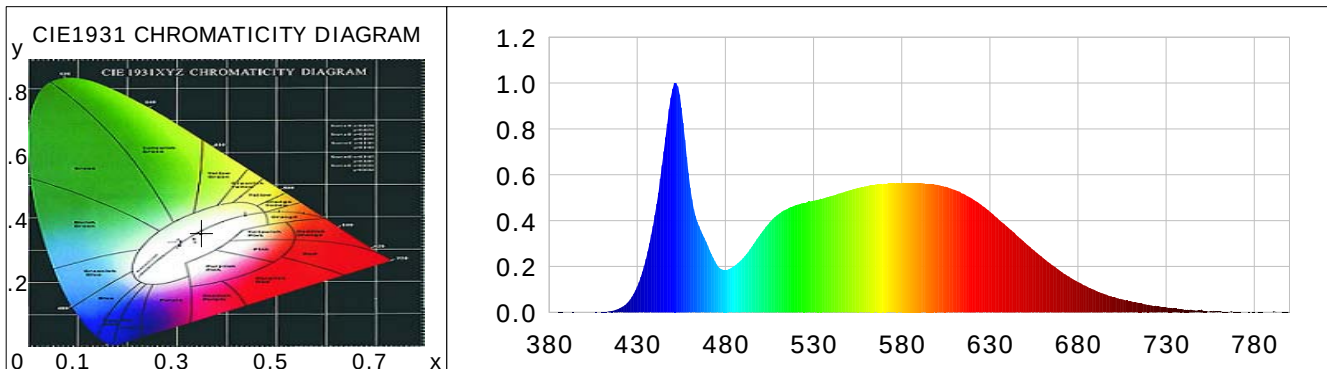
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3498$ $y=0.3546$ $u(u')=0.2134$ $v=0.3246$ $v'=0.4868$
 CCT: $T_c=4836K$ ($duv=-0.00035$) Color Ratio: $R=0.166$ $G=0.792$ $B=0.042$
 Peak Wavelength: 451.5nm Half Bandwidth: 19.3nm
 Dominant Wavelength: 574.9nm Color Purity: 0.114
 CRI: $R_a=84.9$, $avgR(1\sim14)=78.5$, $avgR(1\sim15)=78.6$ TM30: $R_f=84$, $R_g=97$
 GAI: $GAI_BB_8=94.2$, $GAI_BB_15=100.3$, $GAI_EES=84.4$

R1 =84	R2 =89	R3 =92	R4 =85	R5 =84	R6 =84	R7 =89	R8 =73
R9 =24	R10=73	R11=84	R12=58	R13=85	R14=95	R15=80	

Color Quality Scale: $Q_a=83.7$, $Q_f=83.4$, $Q_p=84.6$, $Q_g=94.4$

Q1 =86	Q2 =98	Q3 =77	Q4 =74	Q5 =82	Q6 =85	Q7 =87	Q8 =91
Q9 =96	Q10=88	Q11=85	Q12=85	Q13=85	Q14=77	Q15=80	



Photometric Parameters

Luminous Flux: 6010.7 lm	Efficiency: 110.55 lm/W	Radiant Power: 18.764 W
Total mains efficacy: 110.55 lm/W	Energy Efficiency Class: E (EU 2019/2015)	
Pupil Flux: 9977.96 Plm	Pupil Lumens Per Watt: 183.52 Plm/W	Pupil Factor (Kp): 1.660
Cirtpic Flux: 21298.08 lm		

Electric Parameters

Voltage: 231.10V	Current: 0.2450A	Power: 54.37W
Power Factor: 0.9560	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: 49226 (2481)	CCD Integration Time: 142.52 ms

Condition: Tx:21.1'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-16 09:42:00
 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	0.0217	525	0.4764	78.8442	670	0.1805	29.8680
385	0.0007	0.1218	530	0.4867	80.5397	675	0.1559	25.7992
390	0.0009	0.1445	535	0.4955	82.0004	680	0.1325	21.9240
395	0.0002	0.0404	540	0.5077	84.0167	685	0.1126	18.6353
400	0.0006	0.1021	545	0.5192	85.9307	690	0.0947	15.6772
405	0.0002	0.0320	550	0.5314	87.9359	695	0.0792	13.1133
410	0.0014	0.2375	555	0.5424	89.7655	700	0.0661	10.9431
415	0.0056	0.9306	560	0.5504	91.0819	705	0.0570	9.4309
420	0.0177	2.9287	565	0.5571	92.2014	710	0.0486	8.0481
425	0.0467	7.7346	570	0.5612	92.8728	715	0.0412	6.8137
430	0.1130	18.7087	575	0.5633	93.2194	720	0.0328	5.4304
435	0.2328	38.5252	580	0.5643	93.3916	725	0.0263	4.3445
440	0.4238	70.1407	585	0.5637	93.2818	730	0.0223	3.6924
445	0.7021	116.1881	590	0.5640	93.3303	735	0.0171	2.8305
450	0.9744	161.2581	595	0.5601	92.6948	740	0.0124	2.0592
455	0.8930	147.7911	600	0.5567	92.1260	745	0.0105	1.7322
460	0.5440	90.0308	605	0.5485	90.7690	750	0.0125	2.0703
465	0.3765	62.3067	610	0.5342	88.4018	755	0.0055	0.9124
470	0.2909	48.1361	615	0.5173	85.6154	760	0.0035	0.5831
475	0.2101	34.7642	620	0.4958	82.0449	765	0.0018	0.2972
480	0.1840	30.4488	625	0.4691	77.6403	770	0.0019	0.3141
485	0.2023	33.4738	630	0.4388	72.6111	775	0.0012	0.2029
490	0.2361	39.0696	635	0.4049	67.0028	780	0.0016	0.2710
495	0.2855	47.2514	640	0.3724	61.6242	785	0.0012	0.1997
500	0.3427	56.7141	645	0.3369	55.7509	790	0.0007	0.1219
505	0.3923	64.9255	650	0.3034	50.2074	795	0.0006	0.0972
510	0.4278	70.7967	655	0.2706	44.7756	800	0.0040	0.6618
515	0.4503	74.5191	660	0.2384	39.4533			
520	0.4684	77.5132	665	0.2080	34.4244			

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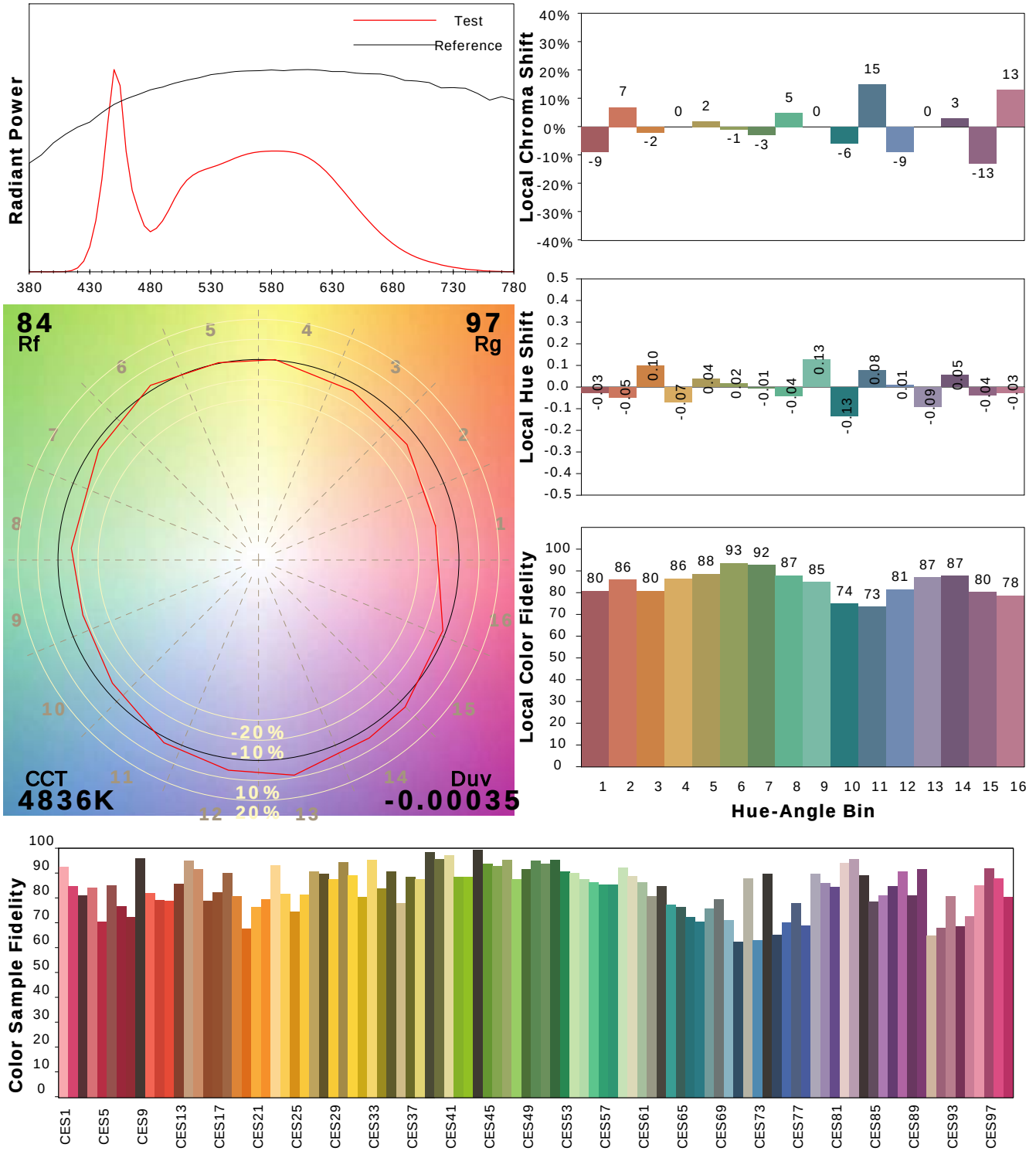
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IES TM-30-18 Color Rendition Report

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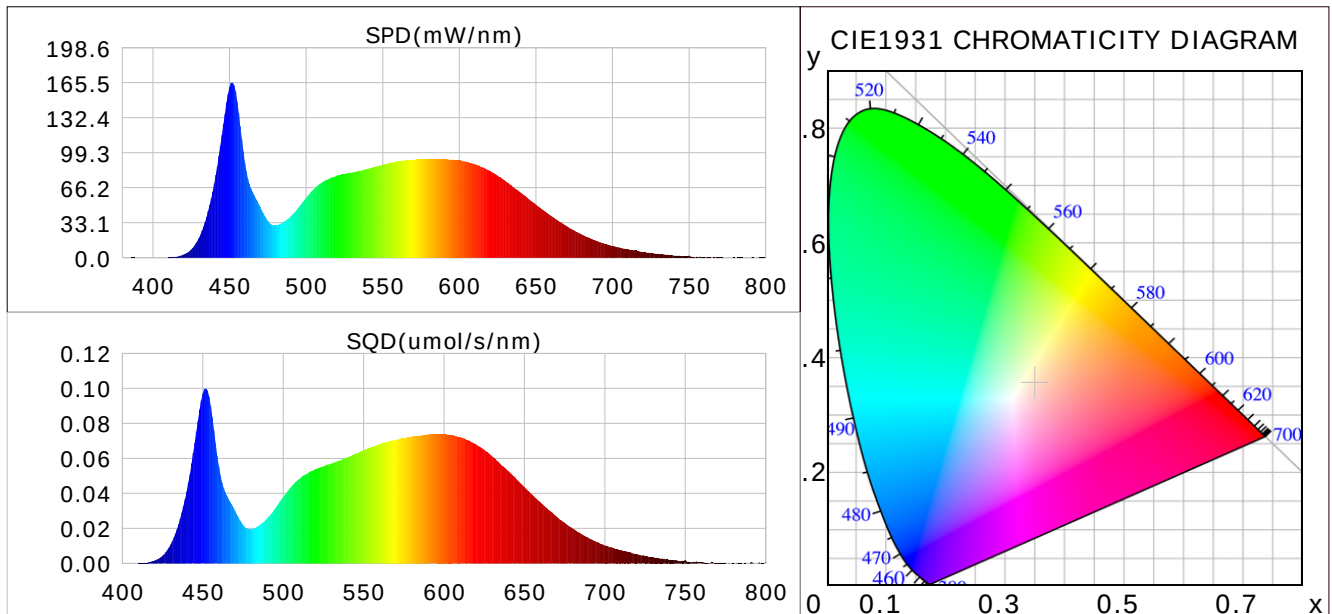
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Plant optical param data

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 CRI: Ra= 84.9



Plant Optical Param

$\mu_v(lm): 6010.70$	$Q_v(lm.s): 6010.70$
$\mu_e, \dot{E}(W/nm): 18.76$	$Q_e(J): 18.76$
$\mu_e(W): 18.50$	$\mu_{fr}(W): 0.28$
$\dot{C}_e: 0.34$	$\dot{C}_{fr}: 0.01$
$PPE(umol/s/w): 1.57$	$K_{fr}: 0.03$
$Erb_Ratio: 1.04$	$PPF(umol/s): 85.21$
$PF_{uv}(360-400)(umol/s): 0.01$	$PPF(400-500)(umol/s): 18.88$
$PPF(500-600)(umol/s): 39.27$	$PPF(600-700)(umol/s): 27.05$
$PF_{fr}(700-800)(umol/s): 1.60$	$PPF.t(umol): 85.21$
$\mu_{ch-A.t}(J): 1.54$	$\mu_{ch-A}(W): 1.54$
$\mu_{ch-B.t}(J): 0.94$	$\mu_{ch-B}(W): 0.94$
$\mu_b.t(J): 4.92$	$\mu_b(W): 4.92$
$\mu_y.t(J): 8.55$	$\mu_y(W): 8.55$
$\mu_r.t(J): 5.19$	$\mu_r(W): 5.19$

Electric Parameters

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