

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG28-E27-27-360-XWM
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampe
 Product Number: 1
 Submitted Unit: 104219

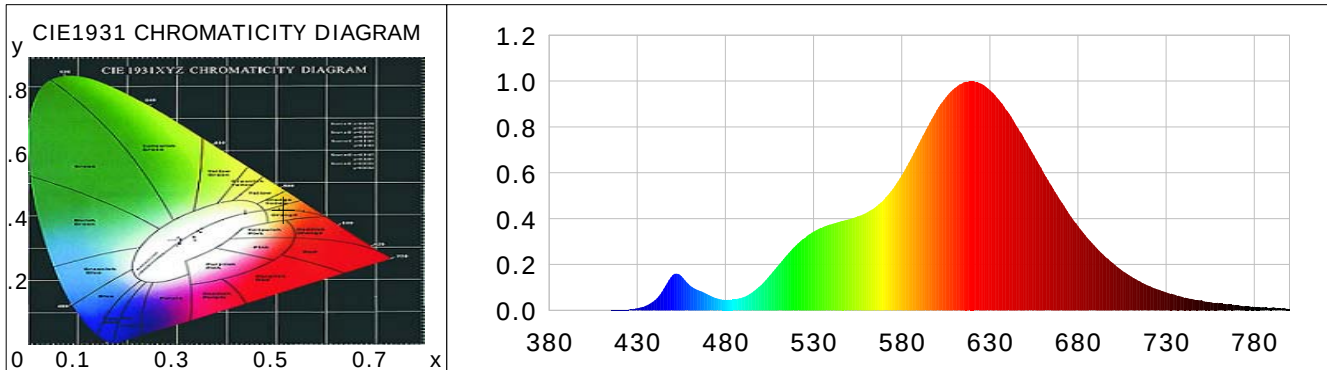
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.5150$ $y=0.4211$ $u(u')=0.2933$ $v=0.3598$ $v'=0.5396$
 CCT: $T_c=2151K$ ($duv=0.00195$) Color Ratio: $R=0.321$ $G=0.669$ $B=0.009$
 Peak Wavelength: 620.1nm Half Bandwidth: 96.6nm
 Dominant Wavelength: 587.1nm Color Purity: 0.810
 CRI: $R_a=87.5$, $avgR(1\sim14)=83.3$, $avgR(1\sim15)=82.9$ TM30: $R_f=88$, $R_g=98$
 GAI: $GAI_BB_8=84.2$, $GAI_BB_15=93.5$, $GAI_EES=25.3$

R1 =88	R2 =93	R3 =97	R4 =89	R5 =87	R6 =95	R7 =84	R8 =66
R9 =27	R10=83	R11=92	R12=78	R13=89	R14=96	R15=79	

Color Quality Scale: $Q_a=79.9$, $Q_f=88.2$, $Q_p=86.3$, $Q_g=84.3$

Q1 =75	Q2 =87	Q3 =83	Q4 =83	Q5 =82	Q6 =80	Q7 =81	Q8 =84
Q9 =89	Q10=84	Q11=79	Q12=81	Q13=82	Q14=71	Q15=73	



Photometric Parameters

Luminous Flux: 3568.3 lm	Efficiency: 131.24 lm/W	Radiant Power: 12.001 W
Total mains efficacy: 131.24 lm/W	Energy Efficiency Class: E (EU 2019/2015)	
Pupil Flux: 3352.18 Plm	Pupil Lumens Per Watt: 123.29 Plm/W	Pupil Factor (Kp): 0.939
Cirtpic Flux: 4971.65 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.9670A	Power: 27.19W
Power Factor: 0.9650	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: 48616 (2315)	CCD Integration Time: 115.94 ms

Condition: Tx:19.6'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 10:29:49
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0004	0.0379	525	0.3153	30.8412	670	0.4800	46.9501
385	0.0002	0.0244	530	0.3432	33.5729	675	0.4198	41.0640
390	0.0005	0.0442	535	0.3612	35.3331	680	0.3684	36.0405
395	0.0002	0.0168	540	0.3753	36.7150	685	0.3178	31.0857
400	0.0005	0.0463	545	0.3871	37.8619	690	0.2761	27.0048
405	0.0003	0.0340	550	0.3969	38.8261	695	0.2373	23.2083
410	0.0006	0.0540	555	0.4100	40.1077	700	0.2047	20.0286
415	0.0009	0.0879	560	0.4252	41.5972	705	0.1734	16.9574
420	0.0015	0.1481	565	0.4500	44.0234	710	0.1485	14.5285
425	0.0034	0.3283	570	0.4837	47.3112	715	0.1272	12.4390
430	0.0091	0.8892	575	0.5303	51.8726	720	0.1072	10.4908
435	0.0208	2.0332	580	0.5895	57.6611	725	0.0919	8.9908
440	0.0443	4.3321	585	0.6574	64.3104	730	0.0783	7.6619
445	0.0948	9.2773	590	0.7312	71.5245	735	0.0682	6.6753
450	0.1529	14.9573	595	0.8047	78.7174	740	0.0562	5.4963
455	0.1495	14.6218	600	0.8742	85.5170	745	0.0490	4.7913
460	0.1079	10.5527	605	0.9291	90.8892	750	0.0450	4.4054
465	0.0871	8.5250	610	0.9685	94.7395	755	0.0358	3.5045
470	0.0696	6.8041	615	0.9935	97.1844	760	0.0302	2.9532
475	0.0524	5.1281	620	1.0000	97.8205	765	0.0258	2.5279
480	0.0462	4.5165	625	0.9886	96.7033	770	0.0214	2.0954
485	0.0479	4.6817	630	0.9603	93.9330	775	0.0193	1.8905
490	0.0568	5.5558	635	0.9199	89.9874	780	0.0155	1.5127
495	0.0771	7.5462	640	0.8684	84.9474	785	0.0144	1.4095
500	0.1089	10.6480	645	0.8059	78.8335	790	0.0120	1.1701
505	0.1510	14.7690	650	0.7419	72.5763	795	0.0078	0.7604
510	0.1964	19.2154	655	0.6763	66.1586	800	0.0070	0.6822
515	0.2417	23.6426	660	0.6080	59.4759			
520	0.2834	27.7197	665	0.5438	53.1929			

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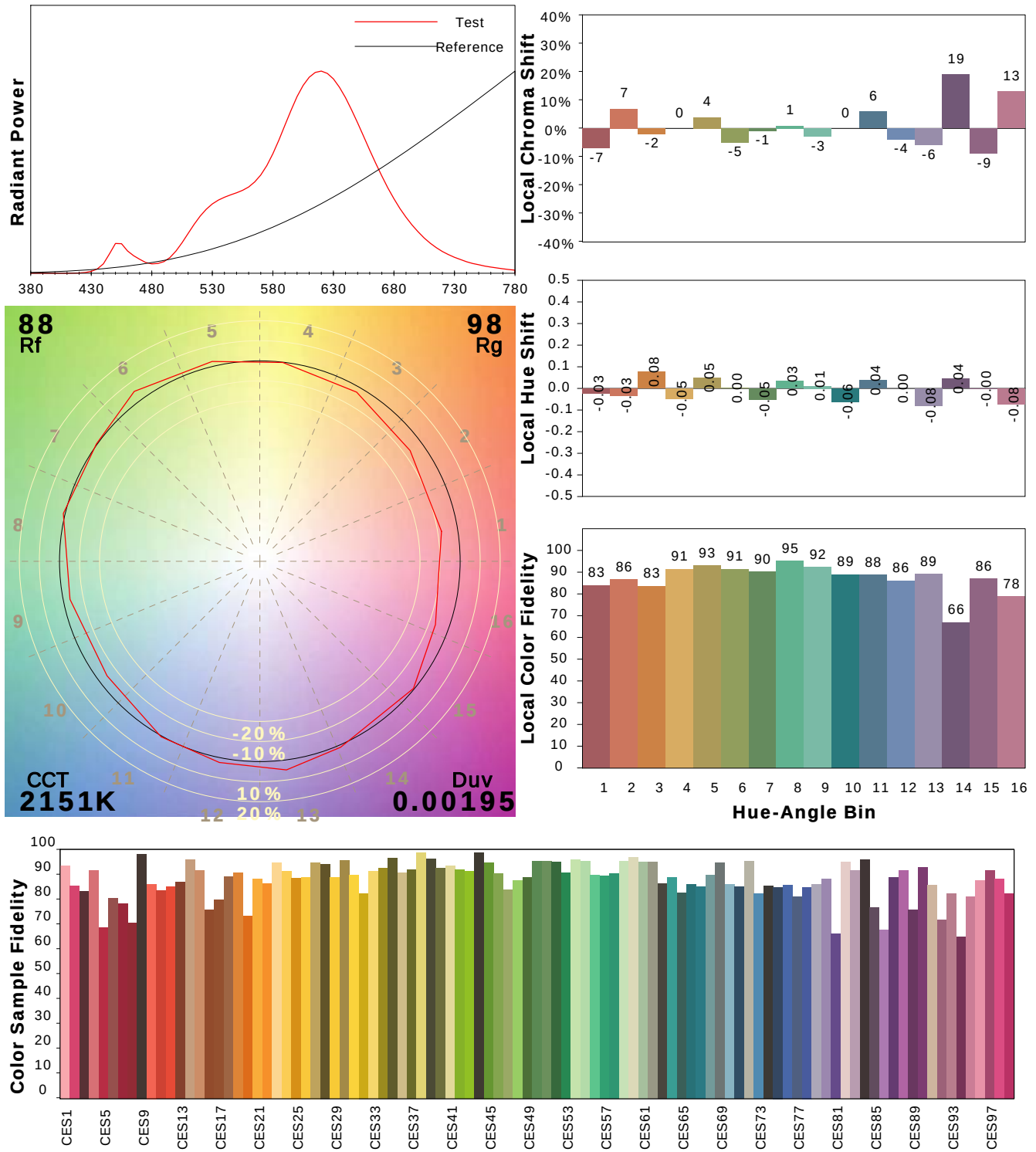
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IES TM-30-18 Color Rendition Report

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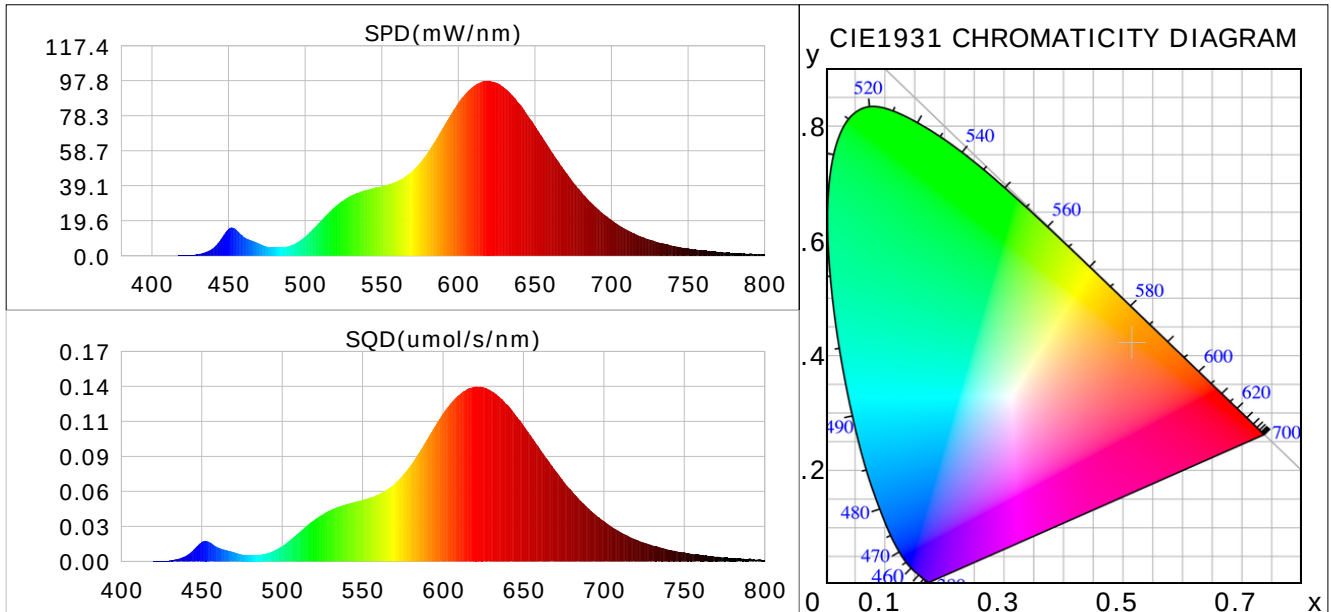
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Plant optical param data

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 CRI: Ra= 87.5



Plant Optical Param

$\mu_v(lm)$: 3568.30	$Q_v(lm.s)$: 3568.30
$\mu_e, \dot{E}(W/nm)$: 12.00	$Q_e(J)$: 12.00
$\mu_e(W)$: 11.43	$\mu_{fr}(W)$: 0.61
$\dot{C}_e$: 0.42	$\dot{C}_{fr}$: 0.02
$PPE(umol/s/w)$: 2.12	K_{fr} : 0.13
Erb_Ratio : 12.53	$PPF(umol/s)$: 57.58
$PF_{uv}(360-400)(umol/s)$: 0.00	$PPF(400-500)(umol/s)$: 2.06
$PPF(500-600)(umol/s)$: 20.01	$PPF(600-700)(umol/s)$: 35.50
$PF_{fr}(700-800)(umol/s)$: 3.60	$PPF.t(umol)$: 57.58
$\mu_{ch-A.t}(J)$: 0.99	$\mu_{ch-A}(W)$: 0.99
$\mu_{ch-B.t}(J)$: 0.39	$\mu_{ch-B}(W)$: 0.39
$\mu_b.t(J)$: 0.53	$\mu_b(W)$: 0.53
$\mu_y.t(J)$: 4.27	$\mu_y(W)$: 4.27
$\mu_r.t(J)$: 6.73	$\mu_r(W)$: 6.73

Electric Parameters

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Power Factor: 0.9650	Frequency: 49.99Hz	

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