

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG371-E40-63-NW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampe
 Product Number: 1
 Submitted Unit: 102932

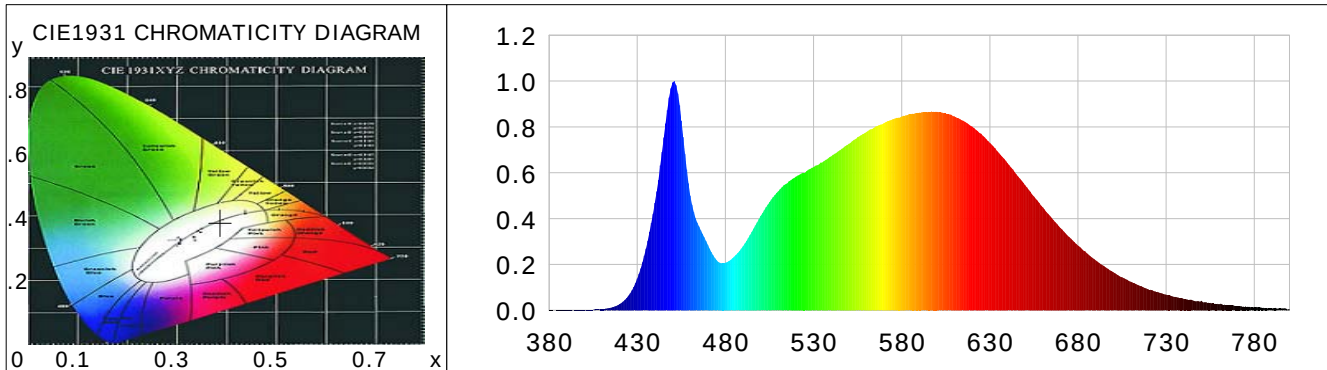
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3874$ $y=0.3808$ $u(u')=0.2280$ $v=0.3363$ $v'=0.5044$
 CCT: $T_c=3847K$ ($duv=-0.00007$) Color Ratio: $R=0.190$ $G=0.777$ $B=0.032$
 Peak Wavelength: 450.7nm Half Bandwidth: 19.4nm
 Dominant Wavelength: 579.7nm Color Purity: 0.305
 CRI: $R_a=84.1$, $avgR(1\sim14)=78.1$, $avgR(1\sim15)=78.2$ TM30: $R_f=84$, $R_g=98$
 GAI: $GAI_BB_8=95.1$, $GAI_BB_15=101.2$, $GAI_EES=72.6$

R1 =83	R2 =89	R3 =93	R4 =84	R5 =83	R6 =84	R7 =88	R8 =70
R9 =23	R10=73	R11=83	R12=62	R13=84	R14=96	R15=79	

Color Quality Scale: $Q_a=84.0$, $Q_f=83.8$, $Q_p=84.9$, $Q_g=95.1$

Q1 =85	Q2 =98	Q3 =78	Q4 =77	Q5 =83	Q6 =84	Q7 =85	Q8 =90
Q9 =97	Q10=88	Q11=85	Q12=85	Q13=85	Q14=77	Q15=80	



Photometric Parameters

Luminous Flux: 9116.2 lm	Efficiency: 142.24 lm/W	Radiant Power: 28.502 W
Total mains efficacy: 167.27 lm/W	Energy Efficiency Class: C (EU 2019/2015)	
Pupil Flux: 13333.73 Plm	Pupil Lumens Per Watt: 208.05 Plm/W	Pupil Factor (Kp): 1.463
Cirtpic Flux: 26361.18 lm		

Electric Parameters

Voltage: 230.70V	Current: 0.2778A	Power: 64.09W
Power Factor: 0.9390	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: 45987 (2698)	CCD Integration Time: 80.25 ms

Condition: Tx:24.3'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-16 10:58:15
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0013	0.2229	525	0.5995	106.2231	670	0.3597	63.7309
385	0.0014	0.2481	530	0.6247	110.6841	675	0.3202	56.7347
390	0.0012	0.2062	535	0.6456	114.3820	680	0.2832	50.1693
395	0.0012	0.2099	540	0.6722	119.0940	685	0.2486	44.0525
400	0.0018	0.3238	545	0.6987	123.7954	690	0.2180	38.6203
405	0.0029	0.5194	550	0.7261	128.6440	695	0.1919	33.9982
410	0.0055	0.9723	555	0.7548	133.7407	700	0.1665	29.4994
415	0.0118	2.0865	560	0.7781	137.8689	705	0.1441	25.5289
420	0.0273	4.8424	565	0.8011	141.9323	710	0.1248	22.1038
425	0.0637	11.2839	570	0.8169	144.7399	715	0.1072	18.9978
430	0.1386	24.5611	575	0.8339	147.7431	720	0.0914	16.1896
435	0.2689	47.6395	580	0.8456	149.8236	725	0.0806	14.2817
440	0.4687	83.0532	585	0.8555	151.5793	730	0.0690	12.2325
445	0.7545	133.6747	590	0.8624	152.7945	735	0.0587	10.4093
450	0.9940	176.1256	595	0.8651	153.2709	740	0.0500	8.8655
455	0.8273	146.5837	600	0.8658	153.4039	745	0.0438	7.7577
460	0.5012	88.7947	605	0.8591	152.2241	750	0.0417	7.3913
465	0.3661	64.8660	610	0.8457	149.8465	755	0.0322	5.7114
470	0.2862	50.7082	615	0.8267	146.4788	760	0.0266	4.7183
475	0.2186	38.7251	620	0.8020	142.0941	765	0.0225	3.9838
480	0.2075	36.7659	625	0.7702	136.4647	770	0.0184	3.2535
485	0.2344	41.5317	630	0.7308	129.4856	775	0.0174	3.0777
490	0.2793	49.4803	635	0.6871	121.7367	780	0.0146	2.5942
495	0.3424	60.6629	640	0.6417	113.6918	785	0.0113	1.9952
500	0.4123	73.0580	645	0.5934	105.1440	790	0.0080	1.4097
505	0.4723	83.6891	650	0.5455	96.6556	795	0.0095	1.6764
510	0.5196	92.0717	655	0.4970	88.0611	800	0.0076	1.3513
515	0.5542	98.1893	660	0.4497	79.6841			
520	0.5833	103.3475	665	0.4040	71.5816			

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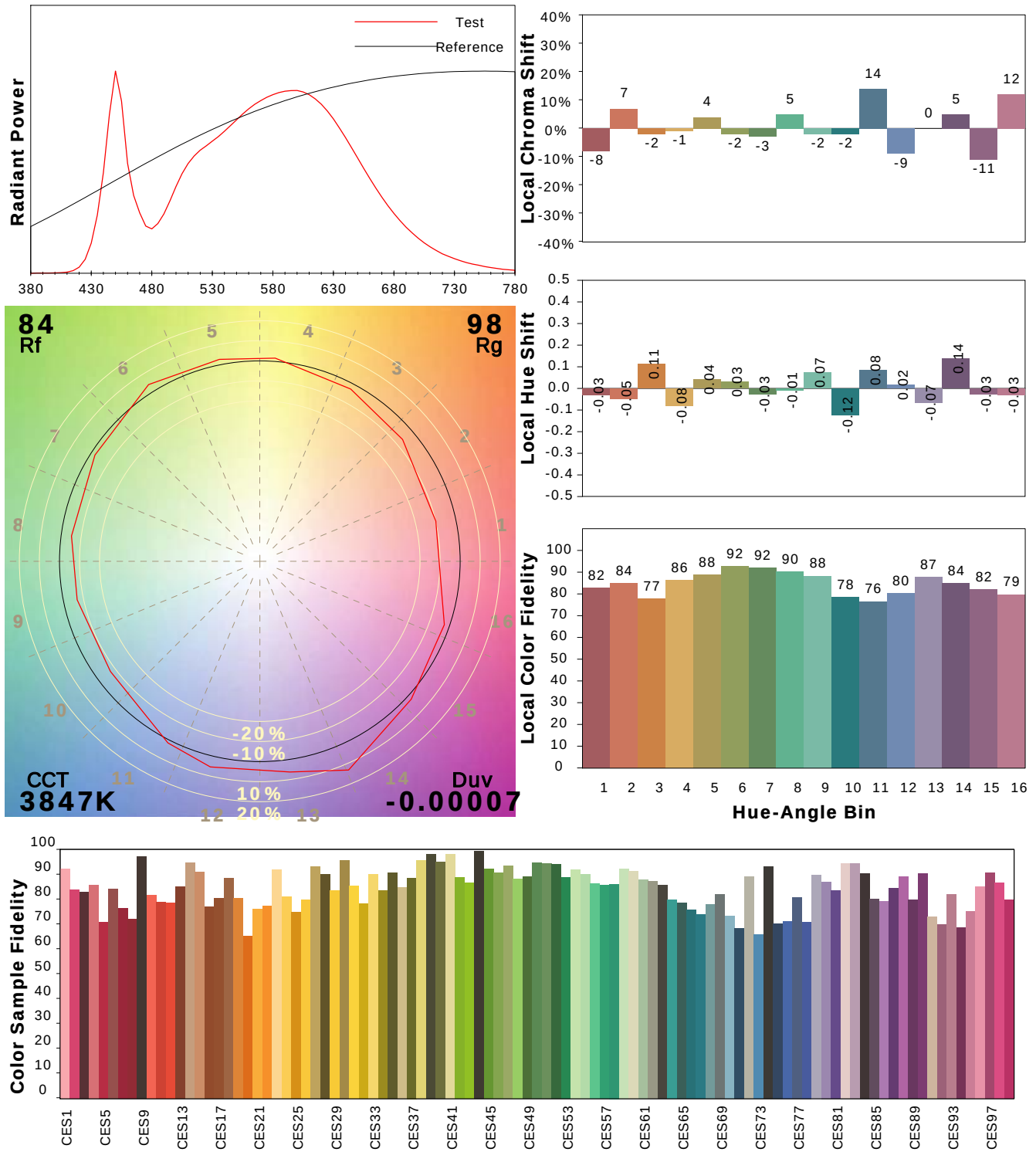
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IES TM-30-18 Color Rendition Report

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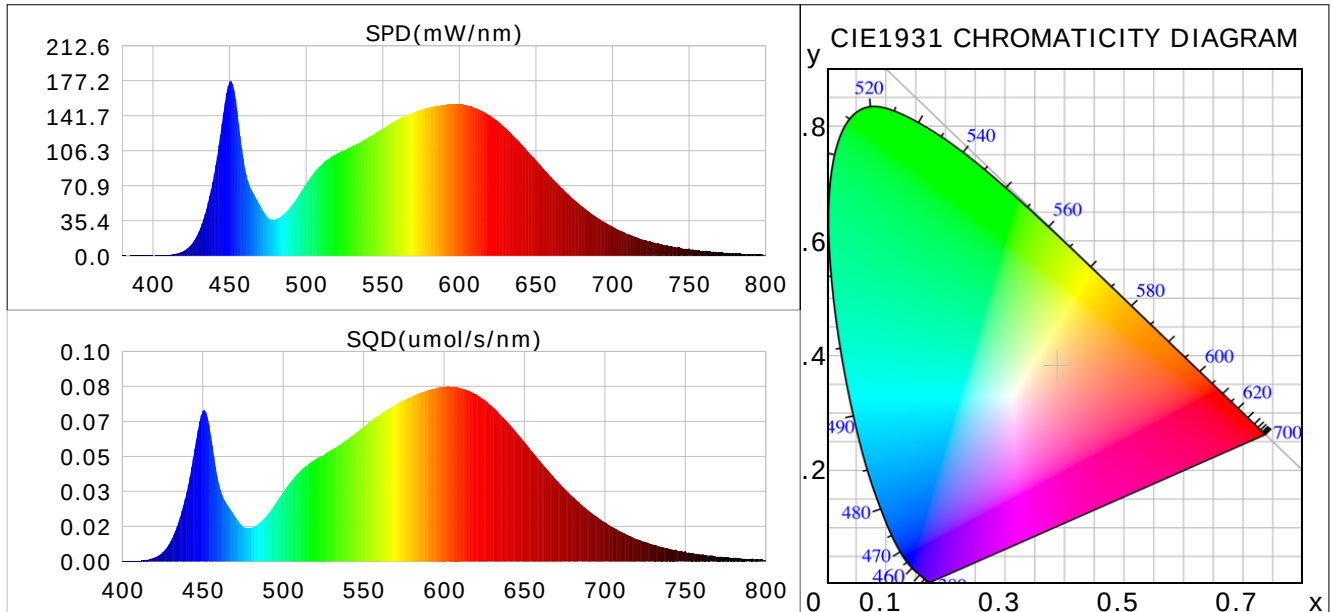
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Plant optical param data

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 CRI: Ra= 84.1



Plant Optical Param

$\mu_v(lm)$: 9116.20	$Q_v(lm.s)$: 9116.20
$\mu_e, \dot{E}(W/nm)$: 28.50	$Q_e(J)$: 28.50
$\mu_e(W)$: 27.61	$\mu_{fr}(W)$: 0.95
$\dot{C}_e$: 0.43	$\dot{C}_{fr}$: 0.01
$PPE(umol/s/w)$: 2.03	K_{fr} : 0.09
E_{rb_Ratio} : 1.72	$PPF(umol/s)$: 130.35
$PF_{uv}(360-400)(umol/s)$: 0.02	$PPF(400-500)(umol/s)$: 21.24
$PPF(500-600)(umol/s)$: 58.46	$PPF(600-700)(umol/s)$: 50.65
$PF_{fr}(700-800)(umol/s)$: 5.60	$PPF.t(umol)$: 130.35
$\mu_{ch-A.t}(J)$: 2.31	$\mu_{ch-A}(W)$: 2.31
$\mu_{ch-B.t}(J)$: 1.23	$\mu_{ch-B}(W)$: 1.23
$\mu_b.t(J)$: 5.53	$\mu_b(W)$: 5.53
$\mu_y.t(J)$: 12.66	$\mu_y(W)$: 12.66
$\mu_r.t(J)$: 9.65	$\mu_r(W)$: 9.65

Electric Parameters

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Power Factor: 0.9390	Frequency: 49.99Hz	

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