

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG371-E40-27-360-DW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 102926

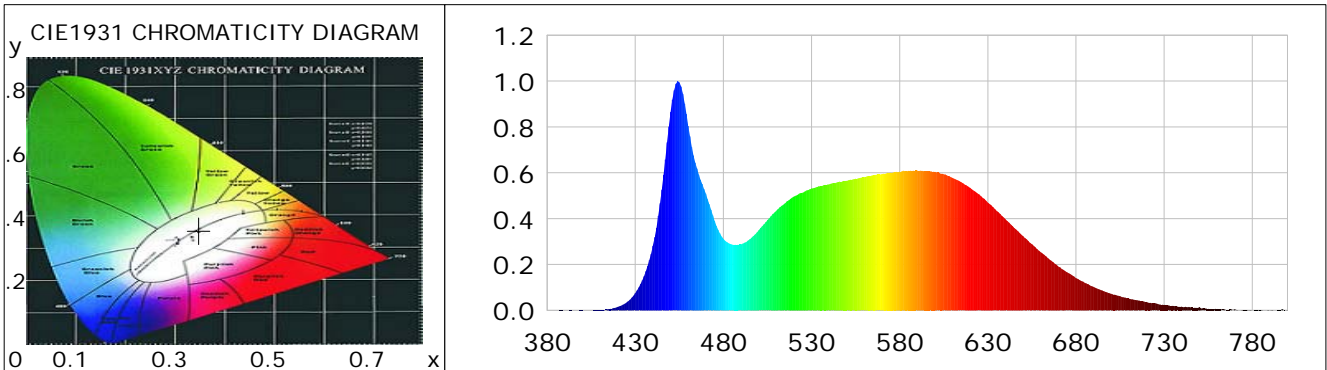
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3482$ $y=0.3554$ $u(u')=0.2121$ $v=0.3246$ $v'=0.4870$
 CCT: $T_c=4897K$ ($duv=0.00065$) Color Ratio: $R=0.166$ $G=0.785$ $B=0.049$
 Peak Wavelength: 454.2nm Half Bandwidth: 25.8nm
 Dominant Wavelength: 573.3nm Color Purity: 0.111
 CRI: $R_a = 86.2$, $avgR(1\sim14) = 80.2$, $avgR(1\sim15) = 80.3$ TM30: $R_f = 84$, $R_g = 94$
 GAI: $GAI_BB_8=91.3$, $GAI_BB_15=98.3$, $GAI_EES=82.4$

R1 =86	R2 =93	R3 =95	R4 =83	R5 =84	R6 =88	R7 =88	R8 =72
R9 =27	R10=81	R11=82	R12=58	R13=88	R14=98	R15=82	

Color Quality Scale: $Q_a = 84.2$, $Q_f = 84.3$, $Q_p = 83.5$, $Q_g = 92.3$

Q1 =83	Q2 =97	Q3 =81	Q4 =74	Q5 =79	Q6 =82	Q7 =87	Q8 =91
Q9 =98	Q10=92	Q11=88	Q12=87	Q13=87	Q14=78	Q15=81	



Photometric Parameters

Luminous Flux: 3967.1 lm	Efficiency: 145.90 lm/W	Radiant Power: 12.457 W
Total mains efficacy: 171.58 lm/W	Energy Efficiency Class: C (EU 2019/2015)	
Pupil Flux: 6778.13 Plm	Pupil Lumens Per Watt: 249.29 Plm/W	Pupil Factor (Kp): 1.709
Cirtopic Flux: 14894.34 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.1240A	Power: 27.19W
Power Factor: 0.9670	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: 48967 (2536)	CCD Integration Time: 123.09 ms

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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	0.0445	525	0.5133	52.0337	670	0.1918	19.4468
385	0.0004	0.0401	530	0.5317	53.8968	675	0.1657	16.7981
390	0.0005	0.0508	535	0.5418	54.9243	680	0.1407	14.2666
395	0.0006	0.0626	540	0.5498	55.7312	685	0.1197	12.1384
400	0.0008	0.0800	545	0.5592	56.6856	690	0.1022	10.3569
405	0.0005	0.0472	550	0.5652	57.2950	695	0.0862	8.7389
410	0.0020	0.2029	555	0.5745	58.2364	700	0.0723	7.3322
415	0.0060	0.6043	560	0.5814	58.9376	705	0.0617	6.2505
420	0.0151	1.5273	565	0.5904	59.8537	710	0.0520	5.2696
425	0.0336	3.4101	570	0.5954	60.3539	715	0.0433	4.3923
430	0.0748	7.5857	575	0.6006	60.8854	720	0.0364	3.6930
435	0.1494	15.1421	580	0.6049	61.3197	725	0.0309	3.1373
440	0.2813	28.5187	585	0.6085	61.6809	730	0.0240	2.4334
445	0.5267	53.3935	590	0.6094	61.7785	735	0.0200	2.0282
450	0.8650	87.6882	595	0.6076	61.5912	740	0.0161	1.6303
455	0.9943	100.7935	600	0.6043	61.2552	745	0.0127	1.2854
460	0.8044	81.5389	605	0.5934	60.1541	750	0.0143	1.4535
465	0.6188	62.7267	610	0.5775	58.5374	755	0.0068	0.6896
470	0.5093	51.6288	615	0.5587	56.6406	760	0.0056	0.5720
475	0.3901	39.5455	620	0.5344	54.1728	765	0.0027	0.2753
480	0.3121	31.6399	625	0.5058	51.2694	770	0.0049	0.4923
485	0.2870	29.0950	630	0.4696	47.6054	775	0.0041	0.4193
490	0.2877	29.1618	635	0.4340	43.9968	780	0.0006	0.0589
495	0.3105	31.4774	640	0.3971	40.2536	785	0.0040	0.4050
500	0.3491	35.3939	645	0.3595	36.4394	790	0.0004	0.0385
505	0.3940	39.9377	650	0.3236	32.8008	795	0.0008	0.0776
510	0.4343	44.0268	655	0.2888	29.2714	800	0.0025	0.2503
515	0.4676	47.3967	660	0.2540	25.7458			
520	0.4966	50.3422	665	0.2219	22.4984			

Condition: Tx:21.4'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

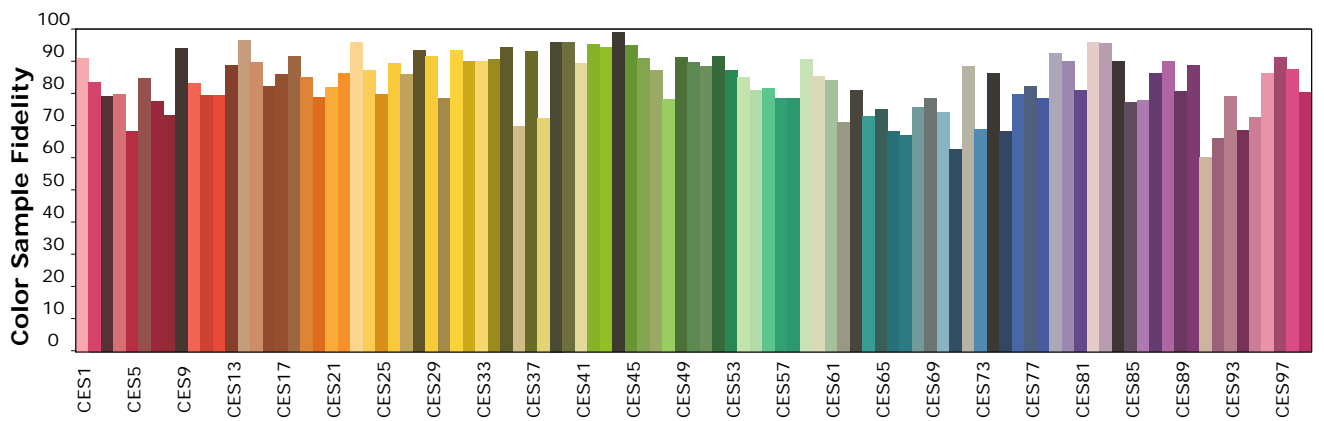
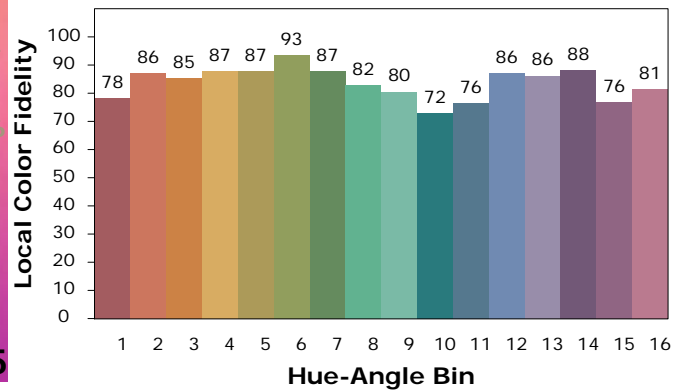
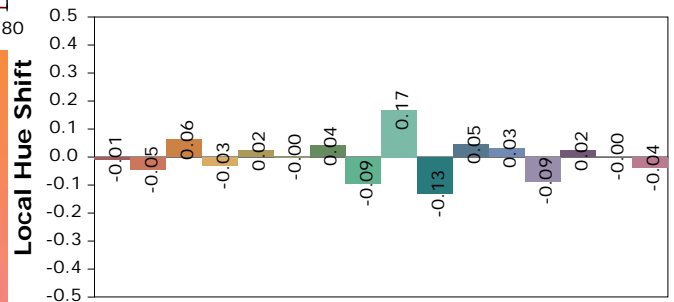
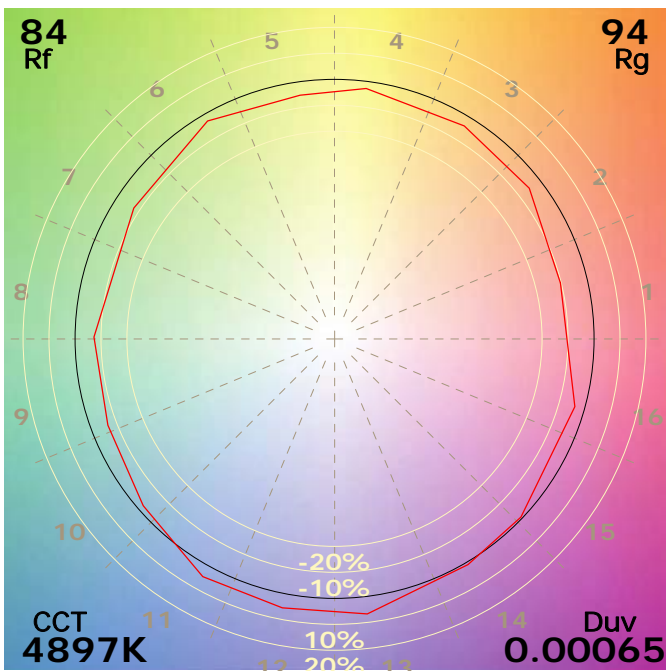
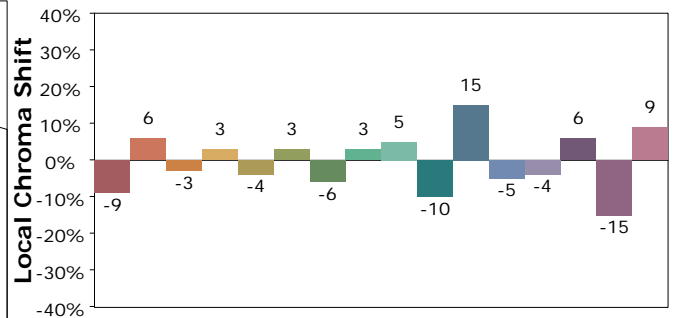
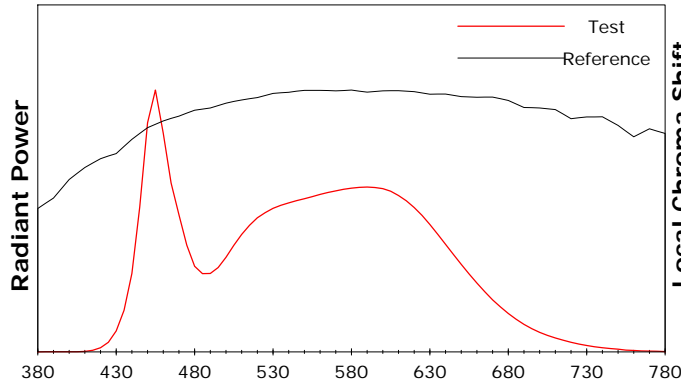
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 Test Time: 2021-02-12 12:39:47
 Inspector:

IES TM-30-18 Color Rendition Report

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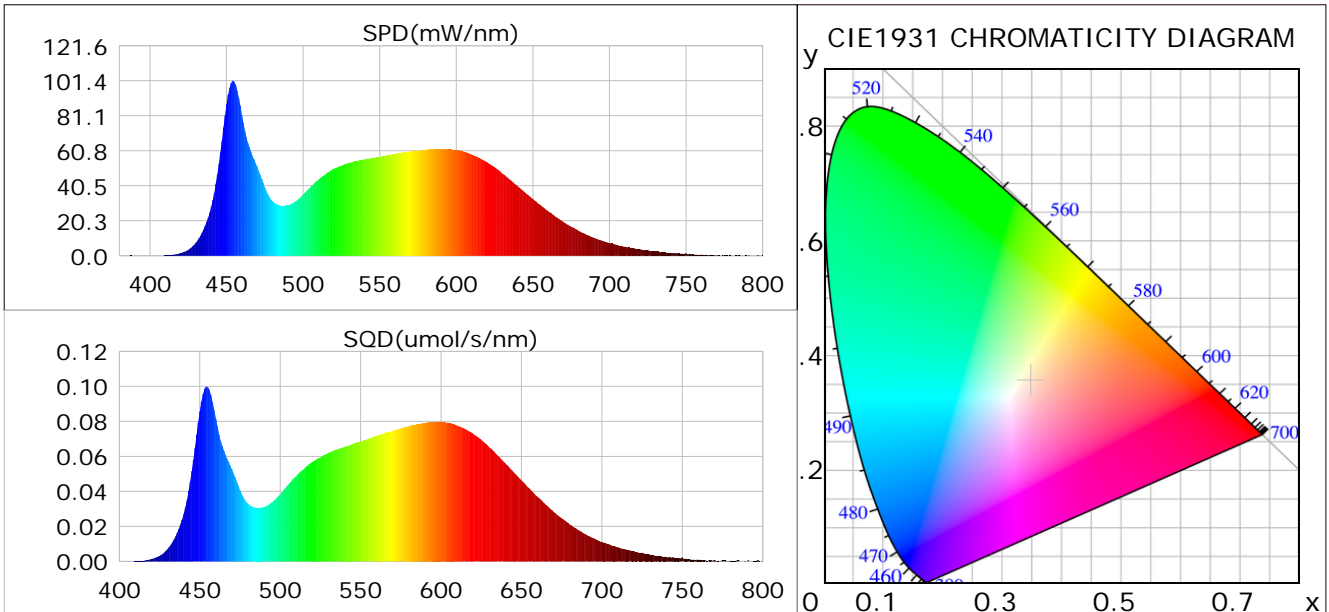
Condition: Tx:21.4°C, Ti:0.0°C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 12:39:47
 Inspector:

Plant optical param data

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3482$ $y=0.3554$ $u(u')=0.2121$ $v=0.3246$ $v'=0.4870$
 CCT: $T_c=4897K$ ($duv=0.00065$) Color Ratio: $R=0.166$ $G=0.785$ $B=0.049$
 Peak Wavelength: 454.2nm Half Bandwidth: 25.8nm
 Dominant Wavelength: 573.3nm Color Purity: 0.111
 CRI: $R_a=86.2$



Plant Optical Param

$ \mu_v(lm): 3967.10$	$Q_v(lm.s): 3967.10$
$ \mu_e, \dot{E}(W/nm): 12.46$	$Q_e(J): 12.46$
$ \mu_e(W): 12.28$	$ \mu_{fr}(W): 0.19$
$ \zeta_e: 0.45$	$ \zeta_{fr}: 0.01$
$PPE(umol/s/w): 2.08$	$K_{fr}: 0.04$
$Erb_Ratio: 0.99$	$PPF(umol/s): 56.54$
$PF_{uv}(360-400)(umol/s): 0.01$	$PPF(400-500)(umol/s): 13.09$
$PPF(500-600)(umol/s): 25.65$	$PPF(600-700)(umol/s): 17.80$
$PPF_r(700-800)(umol/s): 1.10$	$PPF.t(umol): 56.54$
$ \mu_{ch-A.t}(J): 0.96$	$ \mu_{ch-A}(W): 0.96$
$ \mu_{ch-B.t}(J): 0.66$	$ \mu_{ch-B}(W): 0.66$
$ \mu_b.t(J): 3.38$	$ \mu_b(W): 3.38$
$ \mu_y.t(J): 5.58$	$ \mu_y(W): 5.58$
$ \mu_r.t(J): 3.41$	$ \mu_r(W): 3.41$

Electric Parameters

Voltage: 230.90V	Current: 0.1240A	Power: 27.19W
Power Factor: 0.9670	Frequency: 49.99Hz	

Condition: $T_x: 21.4^\circ C$, $T_i: 0.0^\circ C$, R.H.: 60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 12:39:47
 Inspector: