

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG10-E40-24-360-DW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 100282

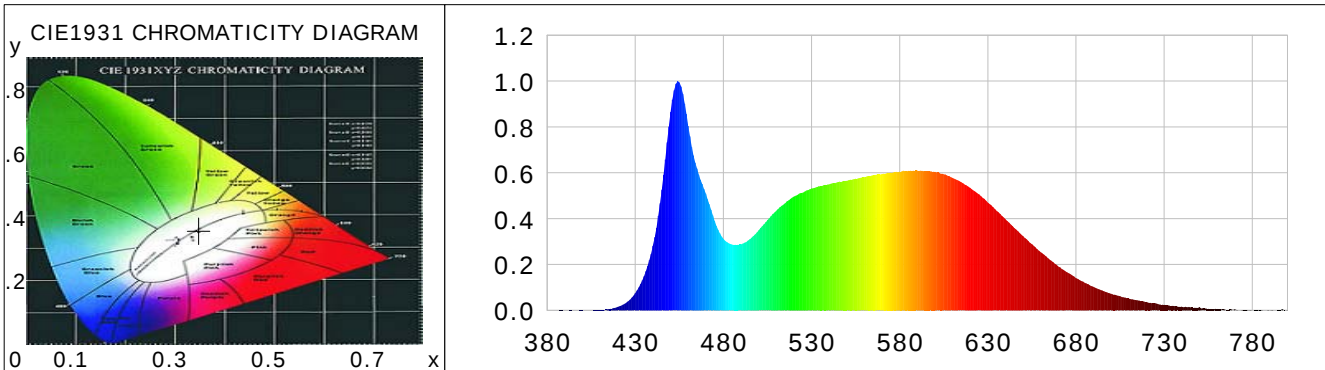
CIE Colorimetric Parameters

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: 2367.1 lm	Efficiency: 93.12 lm/W	Radiant Power: 7.433 W
Total mains efficacy: 93.12 lm/W	Energy Efficiency Class: F (EU 2019/2015)	
Pupil Flux: 4044.39 Plm	Pupil Lumens Per Watt: 159.10 Plm/W	Pupil Factor (Kp): 1.709
Cirtpic Flux: 8887.19 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.1130A	Power: 25.42W
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

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:

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG10-E40-24-360-DW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 100282

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0004	0.0266	525	0.5133	31.0476	670	0.1918	11.6036
385	0.0004	0.0239	530	0.5317	32.1593	675	0.1657	10.0232
390	0.0005	0.0303	535	0.5418	32.7724	680	0.1407	8.5127
395	0.0006	0.0373	540	0.5498	33.2539	685	0.1197	7.2428
400	0.0008	0.0477	545	0.5592	33.8233	690	0.1022	6.1798
405	0.0005	0.0282	550	0.5652	34.1869	695	0.0862	5.2144
410	0.0020	0.1211	555	0.5745	34.7486	700	0.0723	4.3750
415	0.0060	0.3606	560	0.5814	35.1671	705	0.0617	3.7296
420	0.0151	0.9113	565	0.5904	35.7137	710	0.0520	3.1443
425	0.0336	2.0347	570	0.5954	36.0122	715	0.0433	2.6208
430	0.0748	4.5263	575	0.6006	36.3293	720	0.0364	2.2036
435	0.1494	9.0350	580	0.6049	36.5884	725	0.0309	1.8720
440	0.2813	17.0166	585	0.6085	36.8039	730	0.0240	1.4520
445	0.5267	31.8590	590	0.6094	36.8622	735	0.0200	1.2102
450	0.8650	52.3220	595	0.6076	36.7504	740	0.0161	0.9728
455	0.9943	60.1418	600	0.6043	36.5499	745	0.0127	0.7670
460	0.8044	48.6528	605	0.5934	35.8929	750	0.0143	0.8673
465	0.6188	37.4279	610	0.5775	34.9282	755	0.0068	0.4115
470	0.5093	30.8060	615	0.5587	33.7965	760	0.0056	0.3413
475	0.3901	23.5961	620	0.5344	32.3240	765	0.0027	0.1643
480	0.3121	18.8790	625	0.5058	30.5915	770	0.0049	0.2937
485	0.2870	17.3605	630	0.4696	28.4053	775	0.0041	0.2502
490	0.2877	17.4003	635	0.4340	26.2521	780	0.0006	0.0352
495	0.3105	18.7820	640	0.3971	24.0186	785	0.0040	0.2417
500	0.3491	21.1189	645	0.3595	21.7428	790	0.0004	0.0230
505	0.3940	23.8301	650	0.3236	19.5717	795	0.0008	0.0463
510	0.4343	26.2700	655	0.2888	17.4657	800	0.0025	0.1494
515	0.4676	28.2808	660	0.2540	15.3621			
520	0.4966	30.0383	665	0.2219	13.4244			

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

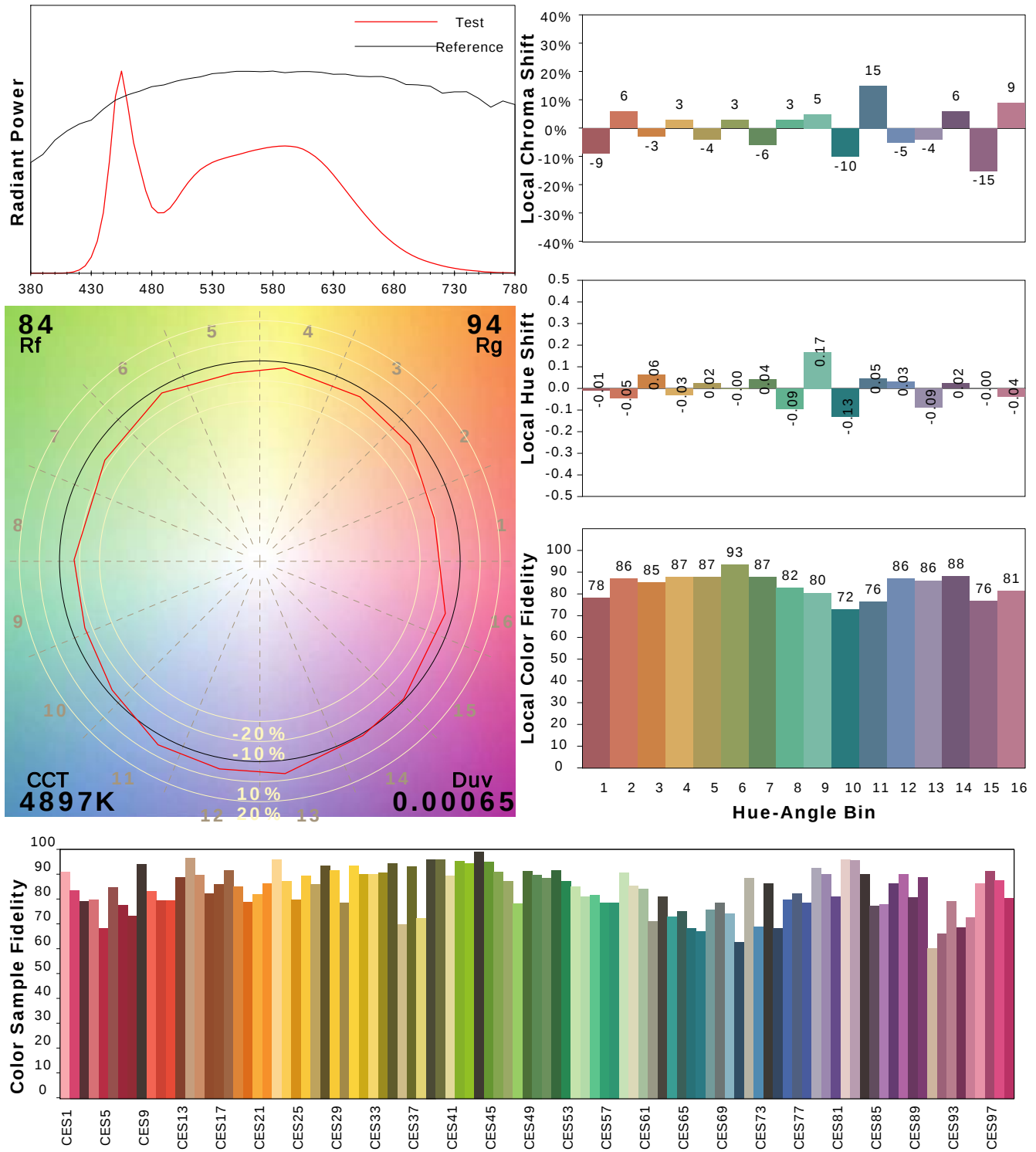
Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 12:39:47
 Inspector:

IES TM-30-18 Color Rendition Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG10-E40-24-360-DW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 100282



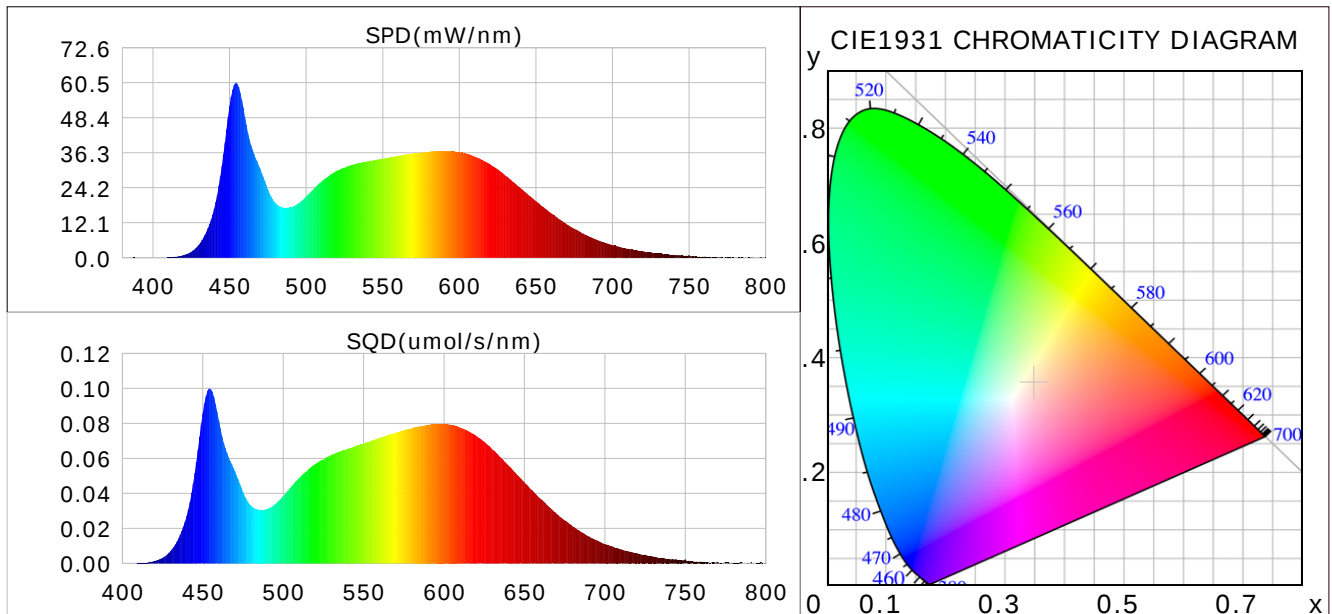
Condition: Tx:21.4°C, Ti:0.0°C, R.H.:60%
 Test Lab:
 Operator: CRE

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: Ra= 86.2



Plant Optical Param

$\mu_v(lm): 2367.10$	$Q_v(lm.s): 2367.10$
$\mu_e, \dot{E}(W/nm): 7.43$	$Q_e(J): 7.43$
$\mu_e(W): 7.32$	$\mu_{fr}(W): 0.11$
$\dot{C}_e: 0.29$	$\dot{C}_{fr}: 0.00$
$PPE(umol/s/w): 1.33$	$K_{fr}: 0.03$
$Erb_Ratio: 0.99$	$PPF(umol/s): 33.74$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 7.81$
$PPF(500-600)(umol/s): 15.30$	$PPF(600-700)(umol/s): 10.62$
$PF_{fr}(700-800)(umol/s): 0.66$	$PPF.t(umol): 33.74$
$\mu_{ch-A.t}(J): 0.57$	$\mu_{ch-A}(W): 0.57$
$\mu_{ch-B.t}(J): 0.39$	$\mu_{ch-B}(W): 0.39$
$\mu_b.t(J): 2.02$	$\mu_b(W): 2.02$
$\mu_y.t(J): 3.33$	$\mu_y(W): 3.33$
$\mu_r.t(J): 2.04$	$\mu_r(W): 2.04$

Electric Parameters

Voltage: 230.90V	Current: 0.1130A	Power: 25.42W
Power Factor: 0.9670	Frequency: 49.99Hz	

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: