

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG381-E40-40-WW
 Manufacturer: METOLIGHT
 Buyer: 3811-20846

Product Type: LED-Strassenlampe
 Product Number: 1
 Submitted Unit: 102942

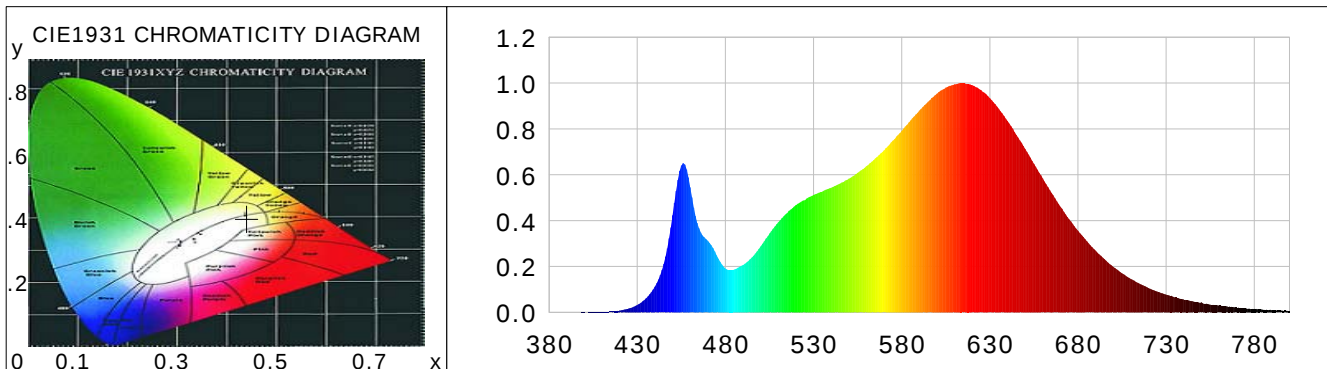
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4408$ $y=0.3992$ $u(u')=0.2552$ $v=0.3467$ $v'=0.5200$
 CCT: $T_c=2895K$ ($duv=-0.00245$) Color Ratio: $R=0.248$ $G=0.725$ $B=0.027$
 Peak Wavelength: 613.2nm Half Bandwidth: 140.0nm
 Dominant Wavelength: 584.2nm Color Purity: 0.521
 CRI: $R_a=89.0$, $avgR(1\sim14)=85.4$, $avgR(1\sim15)=85.3$ TM30: $R_f=88$, $R_g=98$
 GAI: $GAI_BB_8=103.5$, $GAI_BB_15=111.6$, $GAI_EES=56.4$

R1 =90	R2 =96	R3 =97	R4 =88	R5 =90	R6 =95	R7 =86	R8 =71
R9 =39	R10=89	R11=89	R12=76	R13=91	R14=99	R15=84	

Color Quality Scale: $Q_a=86.9$, $Q_f=87.9$, $Q_p=90.3$, $Q_g=95.5$

Q1 =84	Q2 =95	Q3 =85	Q4 =83	Q5 =87	Q6 =89	Q7 =88	Q8 =88
Q9 =96	Q10=92	Q11=90	Q12=88	Q13=88	Q14=81	Q15=82	



Photometric Parameters

Luminous Flux: 5923.0 lm	Efficiency: 147.63 lm/W	Radiant Power: 19.149 W
Total mains efficacy: 147.63 lm/W	Energy Efficiency Class: D (EU 2019/2015)	
Pupil Flux: 7547.39 Plm	Pupil Lumens Per Watt: 188.12 Plm/W	Pupil Factor (Kp): 1.274
Cirtpic Flux: 14030.04 lm		

Electric Parameters

Voltage: 230.20V	Current: 0.1830A	Power: 40.12W
Power Factor: 0.9470	Frequency: 50.00Hz	

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: 49458 (2551)	CCD Integration Time: 67.47 ms

Condition: Tx:22.0'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2020-11-16 15:29:39
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0006	0.0745	525	0.4888	60.6921	670	0.4619	57.3476
385	0.0004	0.0469	530	0.5119	63.5572	675	0.4062	50.4333
390	0.0005	0.0594	535	0.5265	65.3689	680	0.3563	44.2359
395	0.0006	0.0807	540	0.5435	67.4854	685	0.3103	38.5218
400	0.0009	0.1067	545	0.5618	69.7544	690	0.2689	33.3896
405	0.0011	0.1425	550	0.5830	72.3778	695	0.2318	28.7797
410	0.0026	0.3197	555	0.6084	75.5431	700	0.1983	24.6212
415	0.0042	0.5194	560	0.6376	79.1624	705	0.1698	21.0826
420	0.0083	1.0304	565	0.6717	83.3926	710	0.1457	18.0886
425	0.0164	2.0363	570	0.7071	87.7890	715	0.1244	15.4465
430	0.0326	4.0416	575	0.7494	93.0491	720	0.1060	13.1625
435	0.0613	7.6063	580	0.7918	98.3107	725	0.0908	11.2792
440	0.1122	13.9311	585	0.8368	103.8929	730	0.0778	9.6590
445	0.2119	26.3066	590	0.8797	109.2242	735	0.0656	8.1454
450	0.4234	52.5737	595	0.9192	114.1213	740	0.0564	6.9966
455	0.6401	79.4787	600	0.9541	118.4530	745	0.0486	6.0382
460	0.5455	67.7269	605	0.9803	121.7180	750	0.0436	5.4099
465	0.3667	45.5331	610	0.9947	123.5016	755	0.0341	4.2319
470	0.3125	38.7938	615	0.9985	123.9712	760	0.0293	3.6434
475	0.2491	30.9285	620	0.9910	123.0365	765	0.0250	3.1078
480	0.1918	23.8176	625	0.9692	120.3336	770	0.0216	2.6858
485	0.1867	23.1752	630	0.9334	115.8853	775	0.0182	2.2571
490	0.2066	25.6509	635	0.8884	110.3043	780	0.0149	1.8500
495	0.2388	29.6452	640	0.8348	103.6473	785	0.0118	1.4599
500	0.2877	35.7217	645	0.7746	96.1778	790	0.0091	1.1351
505	0.3439	42.6968	650	0.7130	88.5285	795	0.0085	1.0499
510	0.3933	48.8269	655	0.6480	80.4589	800	0.0073	0.9060
515	0.4330	53.7652	660	0.5844	72.5594			
520	0.4678	58.0818	665	0.5210	64.6814			

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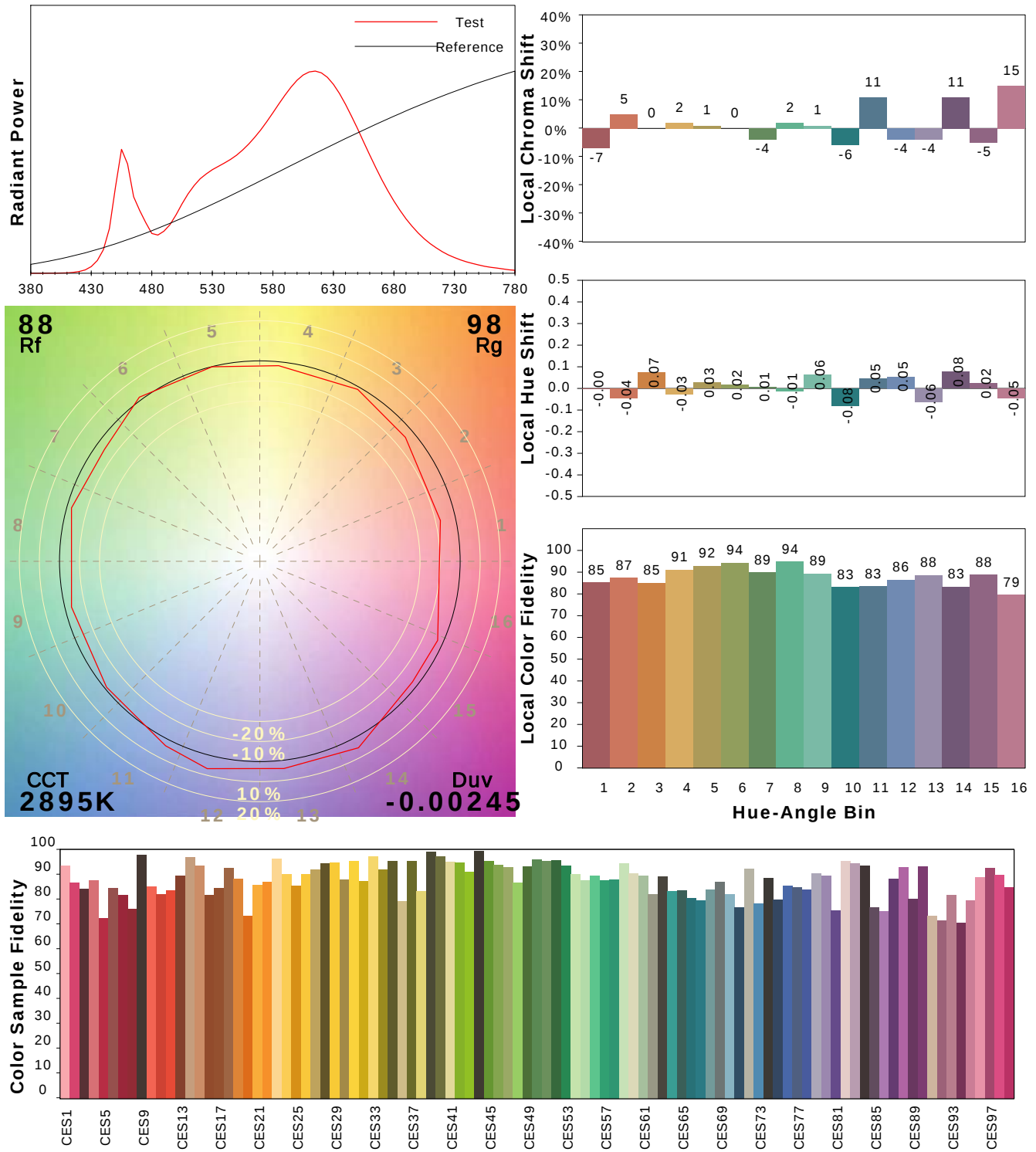
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IES TM-30-18 Color Rendition Report

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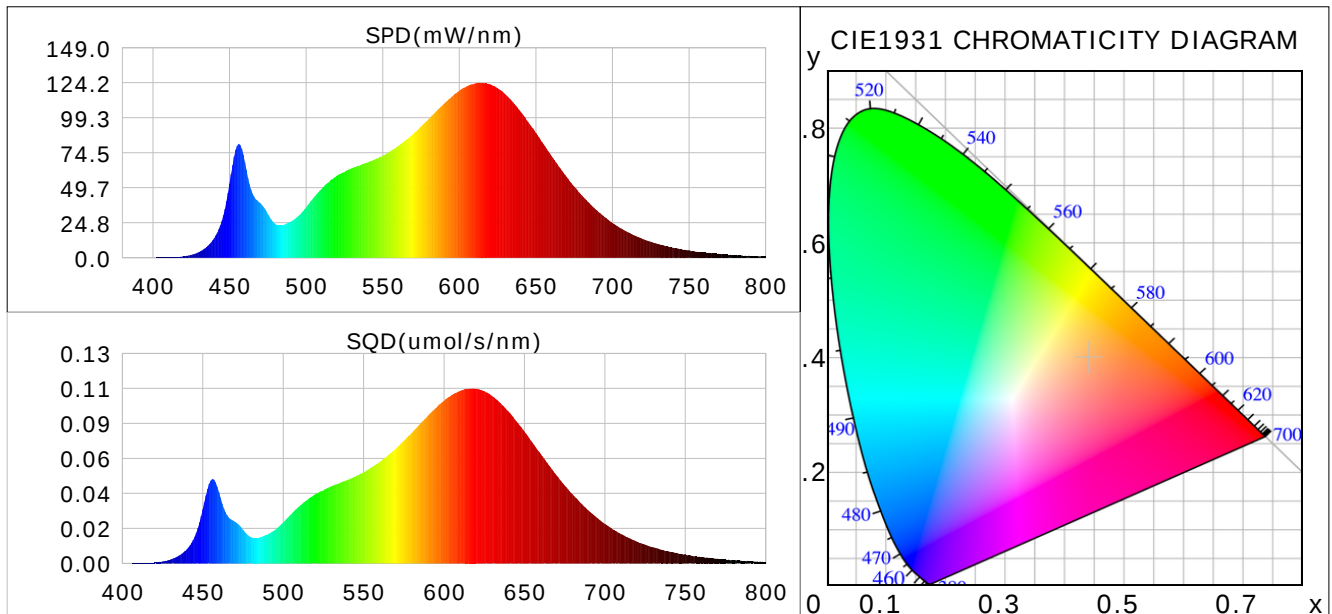
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Plant optical param data

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 CRI: Ra= 89.0



Plant Optical Param

$\mu_v(lm): 5923.00$	$Q_v(lm.s): 5923.00$
$\mu_e, \bar{E}(W/nm): 19.15$	$Q_e(J): 19.15$
$\mu_e(W): 18.44$	$\mu_{fr}(W): 0.76$
$\zeta_e: 0.46$	$\zeta_{fr}: 0.02$
$PPE(umol/s/w): 2.24$	$K_{fr}: 0.11$
$Erb_Ratio: 3.36$	$PPF(umol/s): 89.73$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 9.62$
$PPF(500-600)(umol/s): 35.79$	$PPF(600-700)(umol/s): 44.33$
$PF_{fr}(700-800)(umol/s): 4.46$	$PPF.t(umol): 89.73$
$\mu_{ch-A.t}(J): 1.50$	$\mu_{ch-A}(W): 1.50$
$\mu_{ch-B.t}(J): 0.76$	$\mu_{ch-B}(W): 0.76$
$\mu_b.t(J): 2.47$	$\mu_b(W): 2.47$
$\mu_y.t(J): 7.70$	$\mu_y(W): 7.70$
$\mu_r.t(J): 8.42$	$\mu_r(W): 8.42$

Electric Parameters

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