

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG35-E40-80-CW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 103786

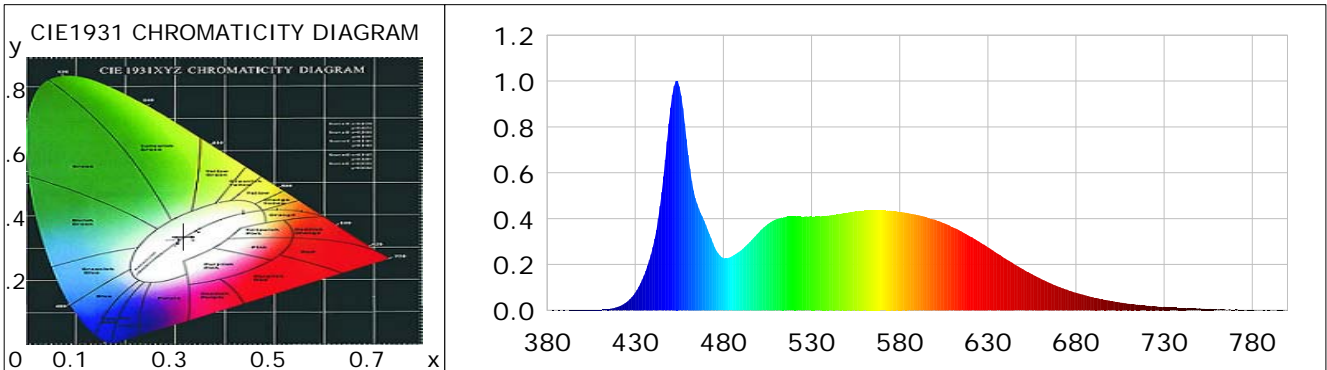
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3171$ $y=0.3372$ $u(u')=0.1978$ $v=0.3155$ $v'=0.4733$
 CCT: $T_c=6226K$ ($duv=0.00518$) Color Ratio: $R=0.138$ $G=0.804$ $B=0.058$
 Peak Wavelength: 453.5nm Half Bandwidth: 18.9nm
 Dominant Wavelength: 494.8nm Color Purity: 0.052
 CRI: $R_a=84.8$, $avgR(1\sim14)=78.1$, $avgR(1\sim15)=78.1$ TM30: $R_f=84$, $R_g=94$
 GAI: $GAI_BB_8=89.4$, $GAI_BB_15=95.1$, $GAI_EES=86.1$

R1 =83	R2 =91	R3 =94	R4 =83	R5 =83	R6 =86	R7 =88	R8 =70
R9 =12	R10=78	R11=83	R12=59	R13=86	R14=98	R15=78	

Color Quality Scale: $Q_a=83.2$, $Q_f=83.4$, $Q_p=82.5$, $Q_g=91.1$

Q1 =82	Q2 =98	Q3 =81	Q4 =75	Q5 =80	Q6 =83	Q7 =87	Q8 =90
Q9 =98	Q10=91	Q11=87	Q12=85	Q13=84	Q14=73	Q15=77	



Photometric Parameters

Luminous Flux: 10221 lm Efficiency: 124.30 lm/W Radiant Power: 32.629 W
 Total mains efficacy: 146.17 lm/W Energy Efficiency Class: D (EU 2019/2015)
 Pupil Flux: 19294.75 Plm Pupil Lumens Per Watt: 234.64 Plm/W Pupil Factor (Kp): 1.888
 Circopic Flux: 44456.05 lm

Electric Parameters

Voltage: 230.90V Current: 0.3561A Power: 82.23W
 Power Factor: 0.9460 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: 48607 (2481) CCD Integration Time: 32.95 ms

Condition: $T_x=21.3^{\circ}C$, $T_i=0.0^{\circ}C$, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-12 12:34:42
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0002	0.0831	525	0.4072	144.6876	670	0.1039	36.9257
385	0.0004	0.1549	530	0.4094	145.4596	675	0.0902	32.0387
390	0.0010	0.3426	535	0.4091	145.3731	680	0.0770	27.3571
395	0.0011	0.3816	540	0.4137	147.0030	685	0.0658	23.3931
400	0.0015	0.5228	545	0.4190	148.8938	690	0.0563	20.0210
405	0.0018	0.6419	550	0.4252	151.0646	695	0.0481	17.1069
410	0.0031	1.1185	555	0.4323	153.5926	700	0.0404	14.3592
415	0.0060	2.1477	560	0.4357	154.8304	705	0.0346	12.3034
420	0.0149	5.2770	565	0.4373	155.3722	710	0.0293	10.4047
425	0.0356	12.6496	570	0.4357	154.8143	715	0.0251	8.9220
430	0.0770	27.3577	575	0.4348	154.5088	720	0.0201	7.1565
435	0.1516	53.8581	580	0.4297	152.6765	725	0.0182	6.4706
440	0.2753	97.8035	585	0.4233	150.3900	730	0.0157	5.5824
445	0.5156	183.2179	590	0.4167	148.0598	735	0.0127	4.5128
450	0.8834	313.8879	595	0.4071	144.6435	740	0.0103	3.6691
455	0.9773	347.2500	600	0.3955	140.5293	745	0.0078	2.7878
460	0.6771	240.6027	605	0.3810	135.3613	750	0.0090	3.1874
465	0.4663	165.6705	610	0.3627	128.8589	755	0.0060	2.1403
470	0.3731	132.5556	615	0.3447	122.4772	760	0.0039	1.3852
475	0.2752	97.7706	620	0.3225	114.5761	765	0.0034	1.2099
480	0.2286	81.2395	625	0.2997	106.5047	770	0.0035	1.2447
485	0.2365	84.0459	630	0.2748	97.6459	775	0.0020	0.7188
490	0.2618	93.0126	635	0.2496	88.6777	780	0.0026	0.9135
495	0.2975	105.6951	640	0.2255	80.1082	785	0.0008	0.2989
500	0.3393	120.5468	645	0.2010	71.4111	790	0.0025	0.9049
505	0.3750	133.2426	650	0.1793	63.6940	795	0.0019	0.6824
510	0.3974	141.2100	655	0.1578	56.0601	800	0.0031	1.1077
515	0.4066	144.4712	660	0.1379	48.9903			
520	0.4112	146.0945	665	0.1197	42.5202			

Condition: Tx:21.3'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

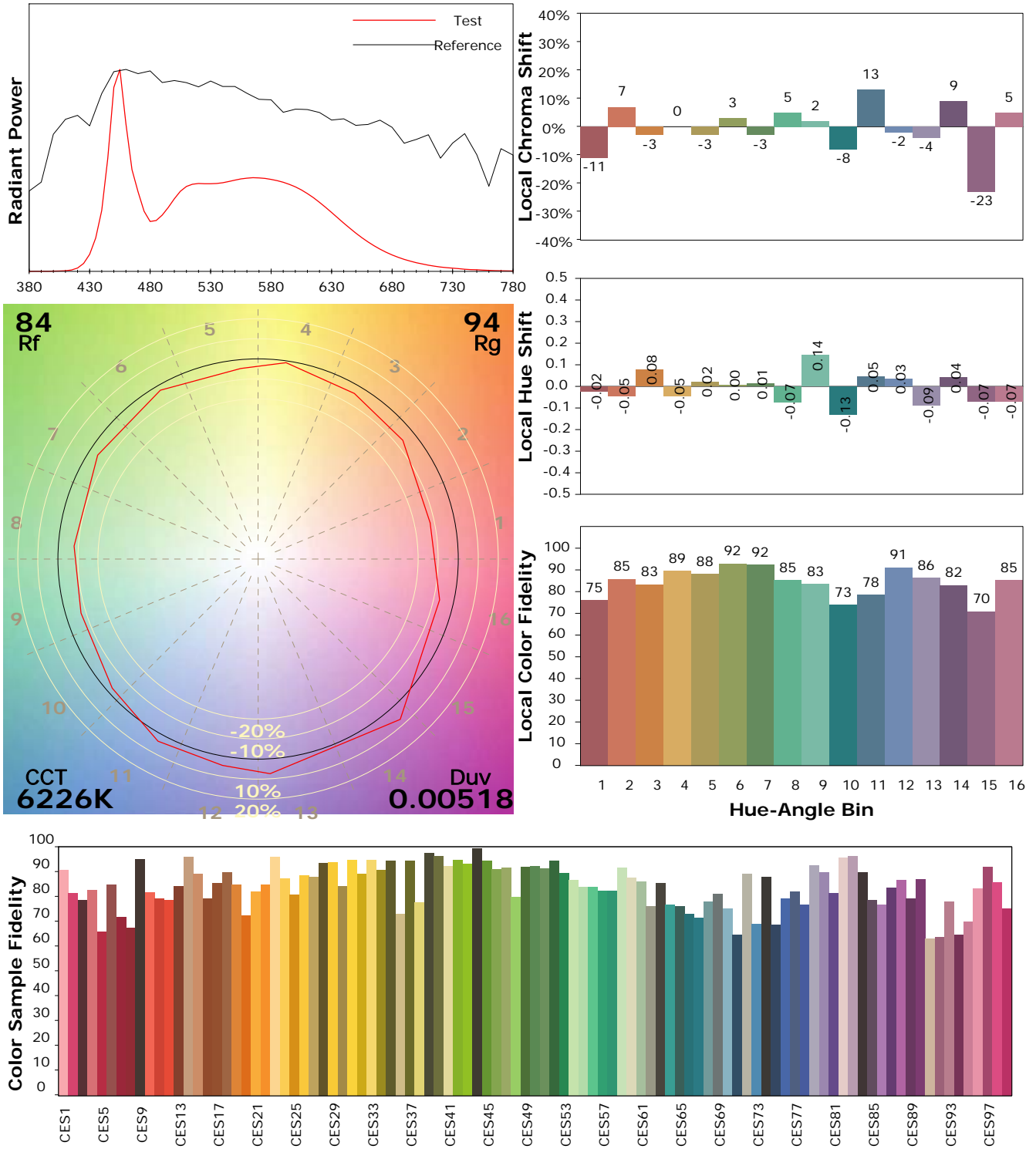
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IES TM-30-18 Color Rendition Report

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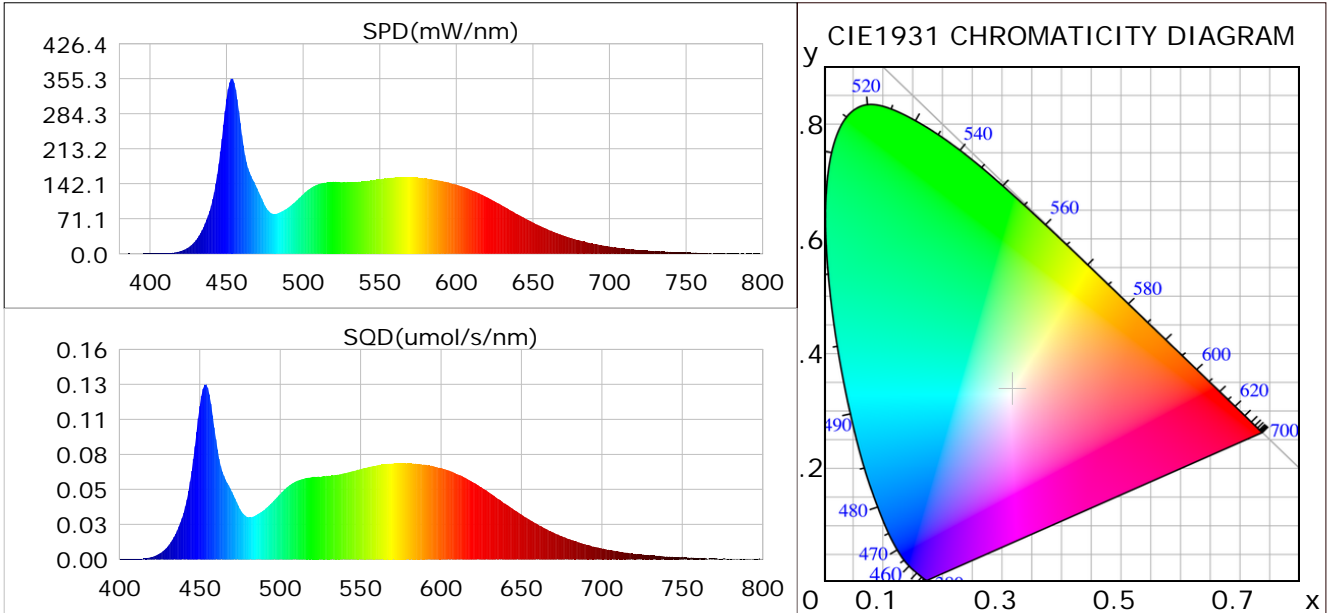
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Plant optical param data

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 Dominant Wavelength: 494.8nm Color Purity: 0.052
 CRI: $R_a=84.8$



Plant Optical Param

$ \mu_v(lm): 10221.00$	$Q_v(lm.s): 10221.00$
$ \mu_e, \dot{E}(W/nm): 32.63$	$Q_e(J): 32.63$
$ \mu_e(W): 32.24$	$ \mu_{fr}(W): 0.42$
$ \zeta_e: 0.39$	$ \zeta_{fr}: 0.01$
$PPE(umol/s/w): 1.77$	$K_{fr}: 0.03$
$Erb_Ratio: 0.65$	$PPF(umol/s): 145.39$
$PF_{uv}(360-400)(umol/s): 0.02$	$PPF(400-500)(umol/s): 40.89$
$PPF(500-600)(umol/s): 68.00$	$PPF(600-700)(umol/s): 36.51$
$PPF_{fr}(700-800)(umol/s): 2.43$	$PPF.t(umol): 145.39$
$ \mu_{ch-A.t}(J): 2.54$	$ \mu_{ch-A}(W): 2.54$
$ \mu_{ch-B.t}(J): 1.85$	$ \mu_{ch-B}(W): 1.85$
$ \mu_b.t(J): 10.59$	$ \mu_b(W): 10.59$
$ \mu_y.t(J): 14.88$	$ \mu_y(W): 14.88$
$ \mu_r.t(J): 7.03$	$ \mu_r(W): 7.03$

Electric Parameters

Voltage: 230.90V	Current: 0.3561A	Power: 82.23W
Power Factor: 0.9460	Frequency: 49.99Hz	

Condition: $T_x: 21.3^\circ C$, $T_i: 0.0^\circ C$, R.H.: 60%
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