

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-SLG35-E40-110-WW
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 103790

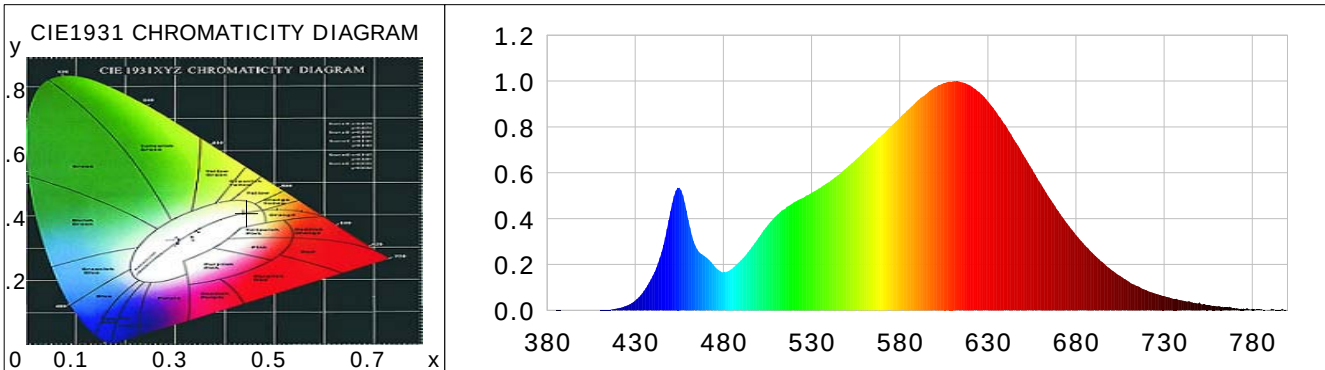
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4448$ $y=0.4106$ $u(u')=0.2528$ $v=0.3501$ $v'=0.5251$
 CCT: $T_c=2924K$ ($duv=0.00152$) Color Ratio: $R=0.238$ $G=0.738$ $B=0.024$
 Peak Wavelength: 611.1nm Half Bandwidth: 137.2nm
 Dominant Wavelength: 582.6nm Color Purity: 0.568
 CRI: $R_a=85.7$, $avgR(1\sim14)=80.7$, $avgR(1\sim15)=80.6$ TM30: $R_f=87$, $R_g=96$
 GAI: $GAI_BB_8=90.1$, $GAI_BB_15=98.4$, $GAI_EES=49.8$

R1 =84	R2 =92	R3 =98	R4 =85	R5 =84	R6 =91	R7 =86	R8 =67
R9 =24	R10=81	R11=84	R12=71	R13=86	R14=99	R15=78	

Color Quality Scale: $Q_a=85.4$, $Q_f=87.3$, $Q_p=86.0$, $Q_g=91.6$

Q1 =82	Q2 =95	Q3 =85	Q4 =82	Q5 =85	Q6 =86	Q7 =86	Q8 =89
Q9 =96	Q10=92	Q11=89	Q12=88	Q13=87	Q14=77	Q15=79	



Photometric Parameters

Luminous Flux: 13766 lm	Efficiency: 126.78 lm/W	Radiant Power: 42.534 W
Total mains efficacy: 149.10 lm/W	Energy Efficiency Class: D (EU 2019/2015)	
Pupil Flux: 17074.44 Plm	Pupil Lumens Per Watt: 157.25 Plm/W	Pupil Factor (Kp): 1.240
Cirtpic Flux: 30755.76 lm		

Electric Parameters

Voltage: 230.60V	Current: 0.4710A	Power: 108.58W
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: 44656 (2669)	CCD Integration Time: 121.44 ms

Condition: Tx:23.2'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-11 12:08:37
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0004	0.1073	525	0.4899	136.8915	670	0.4334	121.1162
385	0.0008	0.2247	530	0.5129	143.3331	675	0.3784	105.7416
390	0.0007	0.2017	535	0.5345	149.3692	680	0.3287	91.8642
395	0.0001	0.0241	540	0.5598	156.4320	685	0.2838	79.3117
400	0.0004	0.1226	545	0.5894	164.6958	690	0.2445	68.3128
405	0.0000	0.0122	550	0.6216	173.7071	695	0.2097	58.5941
410	0.0009	0.2418	555	0.6567	183.5215	700	0.1767	49.3728
415	0.0032	0.8822	560	0.6929	193.6371	705	0.1502	41.9778
420	0.0087	2.4385	565	0.7281	203.4636	710	0.1252	34.9899
425	0.0200	5.5896	570	0.7656	213.9509	715	0.1056	29.5136
430	0.0427	11.9401	575	0.8026	224.2897	720	0.0874	24.4298
435	0.0854	23.8588	580	0.8403	234.8249	725	0.0737	20.5932
440	0.1513	42.2672	585	0.8761	244.8180	730	0.0626	17.4915
445	0.2557	71.4479	590	0.9140	255.4069	735	0.0506	14.1541
450	0.4325	120.8595	595	0.9433	263.5971	740	0.0433	12.0962
455	0.5343	149.3167	600	0.9727	271.8189	745	0.0363	10.1490
460	0.3959	110.6292	605	0.9914	277.0592	750	0.0349	9.7464
465	0.2672	74.6759	610	0.9981	278.9189	755	0.0225	6.2977
470	0.2321	64.8499	615	0.9951	278.0829	760	0.0173	4.8212
475	0.1917	53.5697	620	0.9808	274.0929	765	0.0125	3.4998
480	0.1654	46.2327	625	0.9525	266.1880	770	0.0082	2.2944
485	0.1821	50.8879	630	0.9106	254.4809	775	0.0079	2.2099
490	0.2183	61.0181	635	0.8618	240.8294	780	0.0067	1.8697
495	0.2632	73.5600	640	0.8076	225.6743	785	0.0052	1.4621
500	0.3173	88.6788	645	0.7422	207.4056	790	0.0017	0.4791
505	0.3698	103.3297	650	0.6792	189.7951	795	0.0021	0.5788
510	0.4130	115.4209	655	0.6166	172.3093	800	0.0037	1.0472
515	0.4432	123.8410	660	0.5522	154.3230			
520	0.4708	131.5550	665	0.4899	136.8990			

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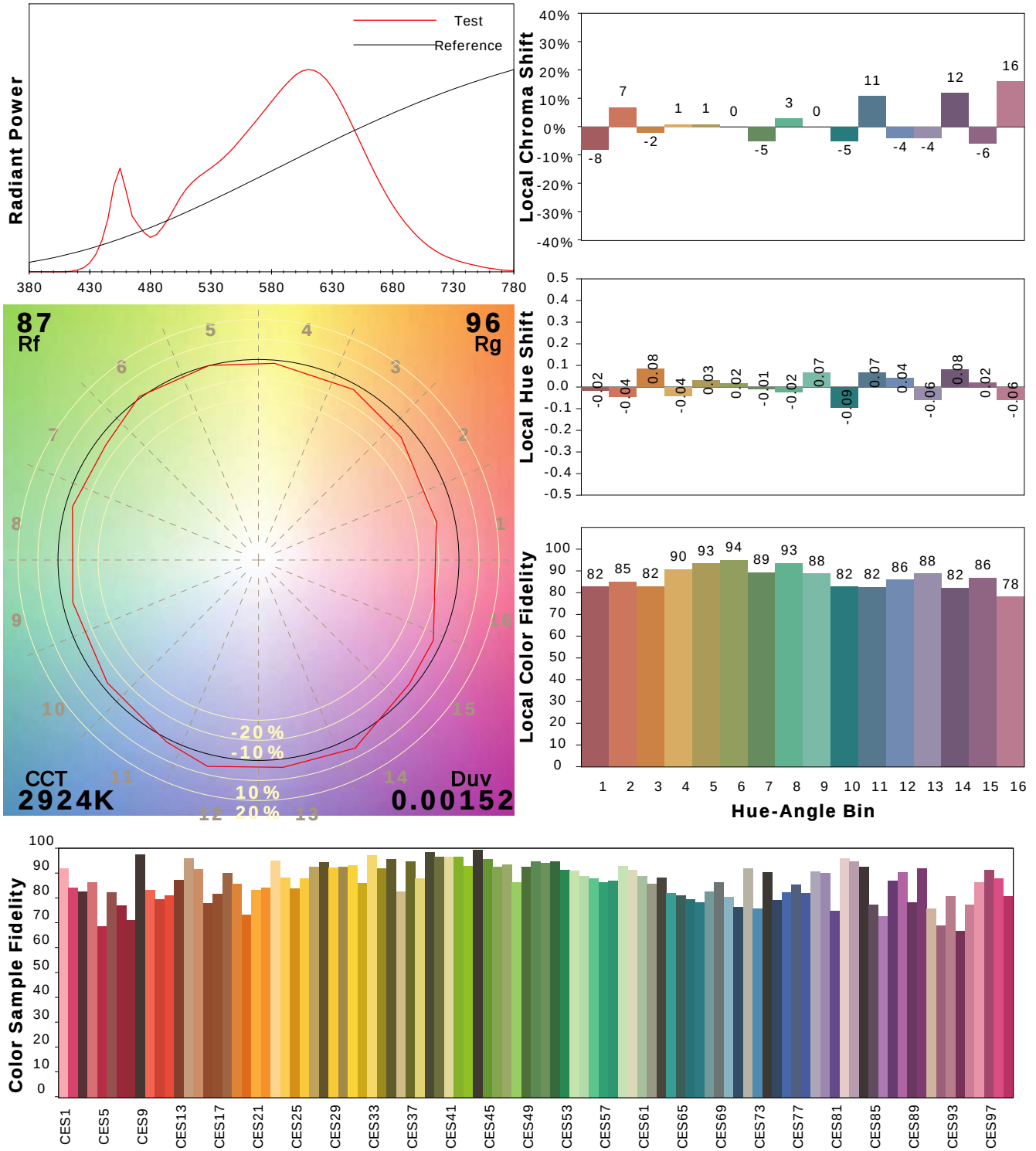
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IES TM-30-18 Color Rendition Report

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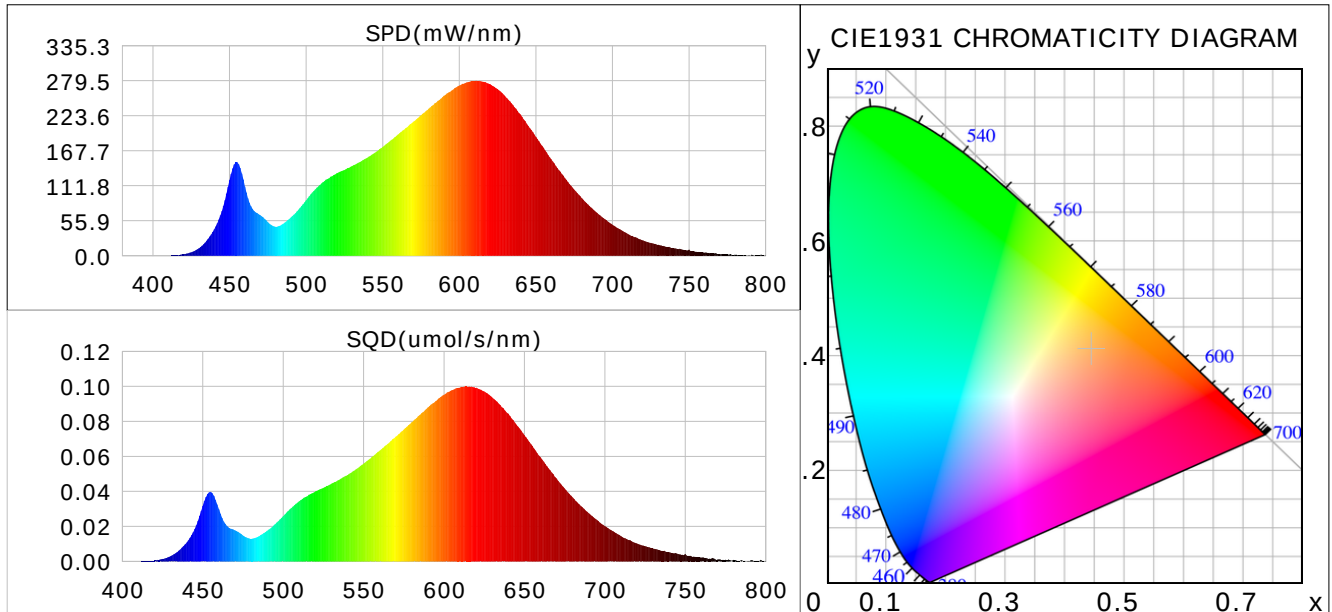
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Plant optical param data

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 CRI: Ra= 85.7



Plant Optical Param

$\mu_v(lm): 13766.00$	$Q_v(lm.s): 13766.00$
$\mu_e, \dot{E}(W/nm): 42.53$	$Q_e(J): 42.53$
$\mu_e(W): 41.26$	$\mu_{fr}(W): 1.33$
$\dot{C}_e: 0.38$	$\dot{C}_{fr}: 0.01$
$PPE(umol/s/w): 1.85$	$K_{fr}: 0.07$
$Erb_Ratio: 3.56$	$PPF(umol/s): 200.72$
$PF_{uv}(360-400)(umol/s): 0.01$	$PPF(400-500)(umol/s): 19.77$
$PPF(500-600)(umol/s): 84.44$	$PPF(600-700)(umol/s): 96.51$
$PF_{fr}(700-800)(umol/s): 7.77$	$PPF.t(umol): 200.72$
$\mu_{ch-A.t}(J): 3.30$	$\mu_{ch-A}(W): 3.30$
$\mu_{ch-B.t}(J): 1.60$	$\mu_{ch-B}(W): 1.60$
$\mu_b.t(J): 5.08$	$\mu_b(W): 5.08$
$\mu_y.t(J): 18.17$	$\mu_y(W): 18.17$
$\mu_r.t(J): 18.37$	$\mu_r(W): 18.37$

Electric Parameters

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