

Lightsource Test Report

Product Information

Product Category: LED-Lampne
 Product Spec: LED-SLG28-Plus-E40-360-WWM
 Manufacturer: METOLIGHT
 Buyer: 3811

Product Type: LED-Strassenlampen
 Product Number: 1
 Submitted Unit: 104261

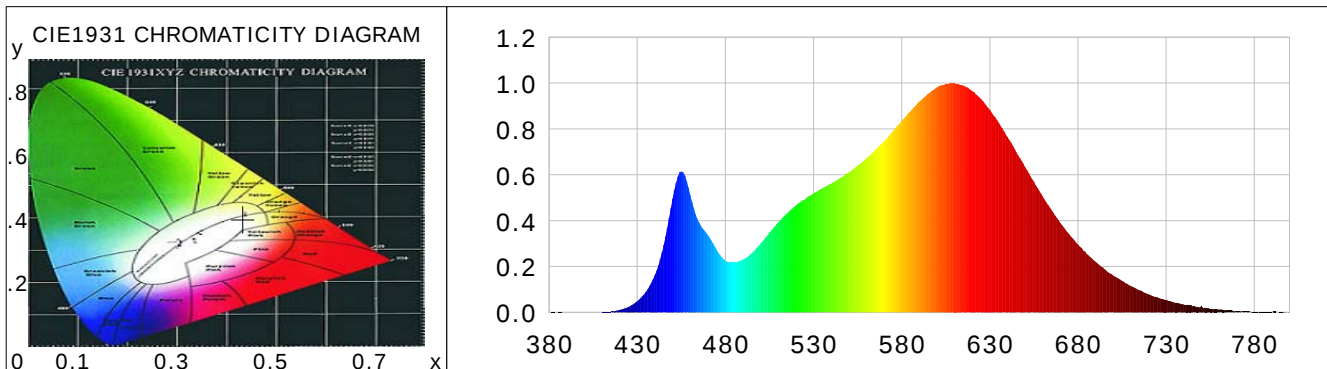
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4332$ $y=0.3972$ $u(u')=0.2511$ $v=0.3454$ $v'=0.5181$
 CCT: $T_c=3007K$ ($duv=-0.00224$) Color Ratio: $R=0.236$ $G=0.736$ $B=0.028$
 Peak Wavelength: 607.9nm Half Bandwidth: 134.3nm
 Dominant Wavelength: 583.6nm Color Purity: 0.493
 CRI: $R_a=85.9$, $avgR(1\sim14)=81.4$, $avgR(1\sim15)=81.3$ TM30: $R_f=86$, $R_g=96$
 GAI: $GAI_BB_8=100.2$, $GAI_BB_15=108.0$, $GAI_EES=57.7$

R1 =86	R2 =94	R3 =96	R4 =84	R5 =86	R6 =93	R7 =83	R8 =65
R9 =24	R10=85	R11=83	R12=74	R13=88	R14=99	R15=79	

Color Quality Scale: $Q_a=84.4$, $Q_f=85.6$, $Q_p=86.9$, $Q_g=93.6$

Q1 =82	Q2 =95	Q3 =83	Q4 =80	Q5 =84	Q6 =86	Q7 =86	Q8 =87
Q9 =96	Q10=91	Q11=87	Q12=85	Q13=85	Q14=77	Q15=78	



Photometric Parameters

Luminous Flux: 5986.0 lm Efficiency: 110.16 lm/W Radiant Power: 18.580 W
 Total mains efficacy: 110.16 lm/W Energy Efficiency Class: E (EU 2019/2015)
 Pupil Flux: 7738.57 Plm Pupil Lumens Per Watt: 142.41 Plm/W Pupil Factor (Kp): 1.293
 Cirtopic Flux: 14520.21 lm

Electric Parameters

Voltage: 230.10V Current: 0.9560A Power: 54.34W
 Power Factor: 0.9420 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: 46592 (2542) CCD Integration Time: 178.46 ms

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

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-11 13:50:18
 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	0.0256	525	0.4920	60.2331	670	0.3898	47.7232
385	0.0007	0.0878	530	0.5187	63.5083	675	0.3411	41.7665
390	0.0006	0.0788	535	0.5403	66.1552	680	0.2962	36.2705
395	0.0002	0.0217	540	0.5613	68.7276	685	0.2539	31.0801
400	0.0004	0.0545	545	0.5849	71.6096	690	0.2202	26.9637
405	0.0001	0.0143	550	0.6105	74.7422	695	0.1889	23.1266
410	0.0010	0.1214	555	0.6411	78.4872	700	0.1607	19.6791
415	0.0041	0.5062	560	0.6720	82.2711	705	0.1375	16.8288
420	0.0109	1.3344	565	0.7094	86.8562	710	0.1151	14.0956
425	0.0235	2.8735	570	0.7475	91.5181	715	0.0961	11.7644
430	0.0488	5.9704	575	0.7913	96.8753	720	0.0787	9.6312
435	0.0905	11.0828	580	0.8358	102.3342	725	0.0658	8.0580
440	0.1621	19.8502	585	0.8769	107.3615	730	0.0546	6.6887
445	0.2950	36.1190	590	0.9200	112.6372	735	0.0421	5.1564
450	0.4952	60.6289	595	0.9538	116.7800	740	0.0347	4.2453
455	0.6147	75.2628	600	0.9809	120.0886	745	0.0269	3.2989
460	0.5127	62.7764	605	0.9969	122.0507	750	0.0281	3.4460
465	0.3929	48.1097	610	0.9985	122.2431	755	0.0150	1.8364
470	0.3378	41.3612	615	0.9897	121.1757	760	0.0117	1.4291
475	0.2735	33.4821	620	0.9650	118.1476	765	0.0086	1.0480
480	0.2258	27.6424	625	0.9304	113.9058	770	0.0045	0.5461
485	0.2178	26.6676	630	0.8826	108.0633	775	0.0039	0.4722
490	0.2302	28.1848	635	0.8277	101.3409	780	0.0032	0.3859
495	0.2583	31.6251	640	0.7644	93.5851	785	0.0023	0.2777
500	0.3001	36.7368	645	0.6987	85.5402	790	0.0007	0.0904
505	0.3487	42.6922	650	0.6330	77.4951	795	0.0010	0.1207
510	0.3931	48.1286	655	0.5700	69.7841	800	0.0024	0.2964
515	0.4314	52.8199	660	0.5048	61.8026			
520	0.4669	57.1604	665	0.4458	54.5810			

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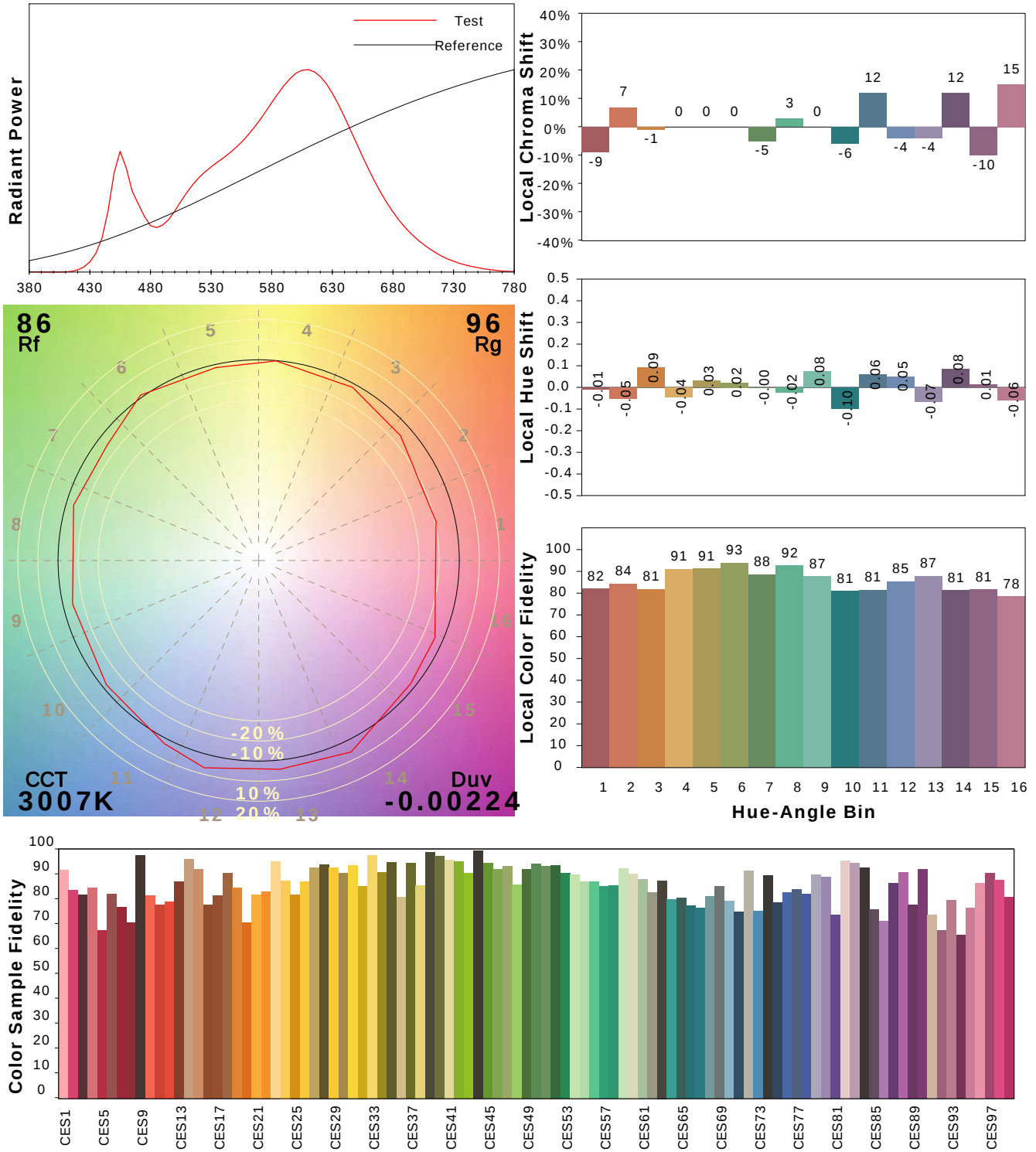
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IES TM-30-18 Color Rendition Report

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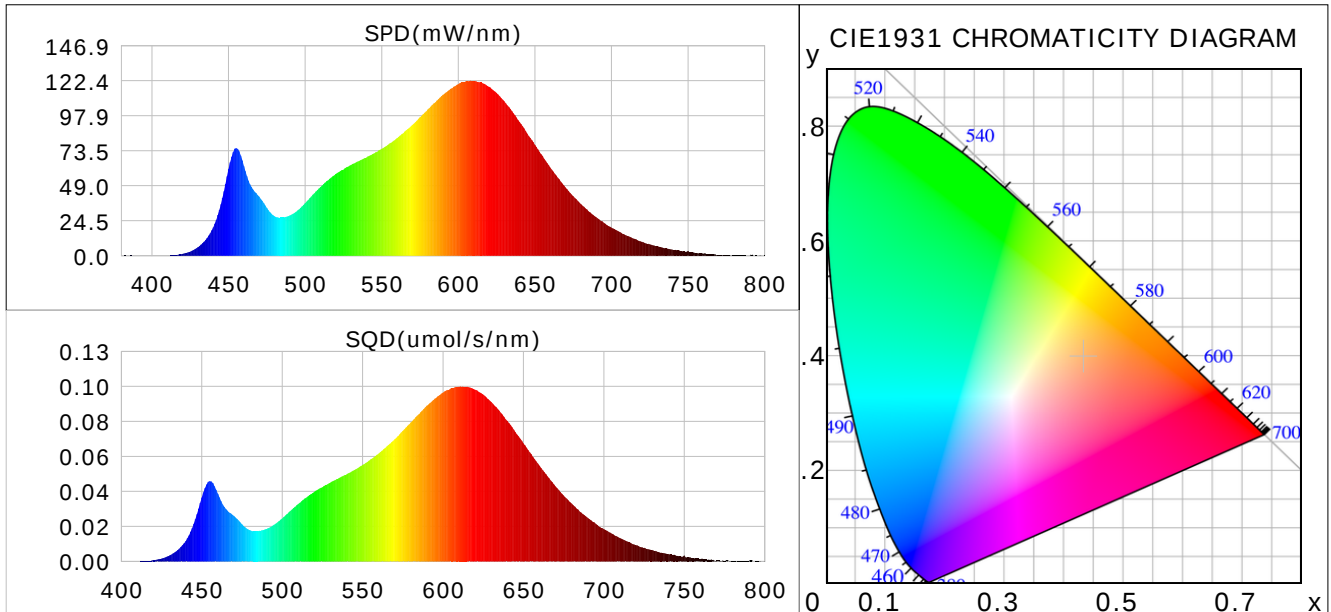
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Plant optical param data

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 CRI: Ra= 85.9



Plant Optical Param

$\mu_v(lm)$: 5986.00	$Q_v(lm.s)$: 5986.00
$\mu_e, \dot{E}(W/nm)$: 18.58	$Q_e(J)$: 18.58
$\mu_e(W)$: 18.10	$\mu_{fr}(W)$: 0.51
$\dot{C}_e$: 0.33	$\dot{C}_{fr}$: 0.01
$PPE(umol/s/w)$: 1.61	K_{fr} : 0.05
Erb_Ratio : 2.83	$PPF(umol/s)$: 87.40
$PF_{uv}(360-400)(umol/s)$: 0.00	$PPF(400-500)(umol/s)$: 10.40
$PPF(500-600)(umol/s)$: 36.62	$PPF(600-700)(umol/s)$: 40.38
$PF_{fr}(700-800)(umol/s)$: 2.93	$PPF.t(umol)$: 87.40
$\mu_{ch-A.t}(J)$: 1.44	$\mu_{ch-A}(W)$: 1.44
$\mu_{ch-B.t}(J)$: 0.75	$\mu_{ch-B}(W)$: 0.75
$\mu_b.t(J)$: 2.68	$\mu_b(W)$: 2.68
$\mu_y.t(J)$: 7.88	$\mu_y(W)$: 7.88
$\mu_r.t(J)$: 7.70	$\mu_r(W)$: 7.70

Electric Parameters

Voltage: 230.10V	Current: 0.9560A	Power: 54.34W
Power Factor: 0.9420	Frequency: 49.99Hz	