

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-A60-8W-NW-dim-2250
 Manufacturer: METOLIGHT
 Buyer: 2250

Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 101228

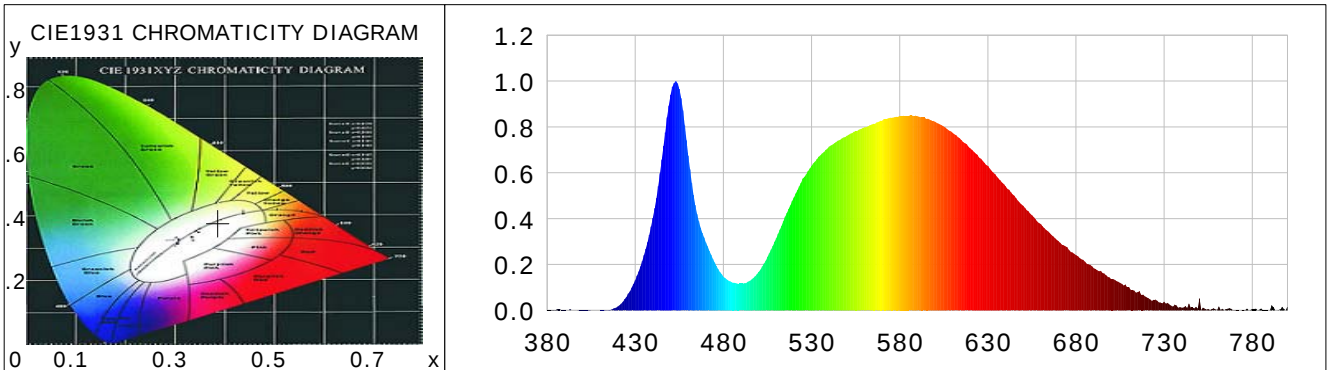
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3865$ $y=0.3790$ $u(u')=0.2282$ $v=0.3357$ $v'=0.5035$
 CCT: $T_c=3855K$ ($duv=-0.00067$) Color Ratio: $R=0.178$ $G=0.797$ $B=0.025$
 Peak Wavelength: 452.9nm Half Bandwidth: 20.9nm
 Dominant Wavelength: 580.0nm Color Purity: 0.298
 CRI: $R_a=74.9$, $avgR(1\sim14)=65.8$, $avgR(1\sim15)=66.1$ TM30: $R_f=75$, $R_g=95$
 GAI: $GAI_BB_8=92.5$, $GAI_BB_15=101.4$, $GAI_EES=70.7$

R1 = 73	R2 = 81	R3 = 85	R4 = 73	R5 = 71	R6 = 71	R7 = 84	R8 = 61
R9 = 0	R10 = 52	R11 = 66	R12 = 39	R13 = 74	R14 = 91	R15 = 70	

Color Quality Scale: $Q_a=73.7$, $Q_f=73.1$, $Q_p=75.9$, $Q_g=92.2$

Q1 = 81	Q2 = 97	Q3 = 65	Q4 = 59	Q5 = 68	Q6 = 71	Q7 = 75	Q8 = 83
Q9 = 92	Q10 = 78	Q11 = 73	Q12 = 75	Q13 = 77	Q14 = 68	Q15 = 72	



Photometric Parameters

Luminous Flux: 630.47 lm	Efficiency: 85.90 lm/W	Radiant Power: 1.867 W
Total mains efficacy: 85.90 lm/W	Energy Efficiency Class: F (EU 2019/2015)	
Pupil Flux: 862.73 Plm	Pupil Lumens Per Watt: 117.54 Plm/W	Pupil Factor (Kp): 1.368
Cirtpic Flux: 1635.76 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.0440A	Power: 7.34W
Power Factor: 0.7140	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: 46705 (3058)	CCD Integration Time: 767.51 ms

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

Test Device: Lisun LMS-9000B
 Test Time: 2021-04-28 14:18:38
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0016	0.0203	525	0.5749	7.3811	670	0.3026	3.8851
385	0.0028	0.0362	530	0.6297	8.0858	675	0.2754	3.5367
390	0.0021	0.0264	535	0.6760	8.6802	680	0.2414	3.0992
395	0.0002	0.0030	540	0.7146	9.1756	685	0.2128	2.7320
400	0.0021	0.0270	545	0.7405	9.5079	690	0.1836	2.3580
405	0.0003	0.0042	550	0.7611	9.7722	695	0.1630	2.0923
410	0.0010	0.0128	555	0.7824	10.0462	700	0.1356	1.7410
415	0.0040	0.0518	560	0.7984	10.2518	705	0.1197	1.5373
420	0.0167	0.2139	565	0.8137	10.4477	710	0.1006	1.2921
425	0.0586	0.7527	570	0.8279	10.6296	715	0.0799	1.0257
430	0.1308	1.6795	575	0.8408	10.7961	720	0.0568	0.7296
435	0.2410	3.0944	580	0.8480	10.8880	725	0.0469	0.6023
440	0.4034	5.1797	585	0.8479	10.8871	730	0.0373	0.4788
445	0.6582	8.4506	590	0.8469	10.8739	735	0.0164	0.2102
450	0.9402	12.0719	595	0.8353	10.7251	740	0.0114	0.1460
455	0.9655	12.3973	600	0.8228	10.5650	745	0.0125	0.1601
460	0.6756	8.6749	605	0.8015	10.2907	750	0.0523	0.6719
465	0.4199	5.3920	610	0.7745	9.9445	755	0.0057	0.0728
470	0.2966	3.8089	615	0.7429	9.5385	760	0.0024	0.0312
475	0.2088	2.6809	620	0.7066	9.0730	765	0.0051	0.0655
480	0.1469	1.8856	625	0.6667	8.5598	770	0.0028	0.0360
485	0.1220	1.5664	630	0.6300	8.0890	775	0.0034	0.0435
490	0.1169	1.5009	635	0.5836	7.4939	780	0.0058	0.0740
495	0.1285	1.6502	640	0.5412	6.9484	785	0.0079	0.1012
500	0.1678	2.1544	645	0.5003	6.4243	790	0.0001	0.0010
505	0.2334	2.9969	650	0.4565	5.8619	795	0.0031	0.0395
510	0.3151	4.0463	655	0.4148	5.3254	800	0.0183	0.2344
515	0.4085	5.2451	660	0.3766	4.8357			
520	0.4924	6.3225	665	0.3384	4.3454			

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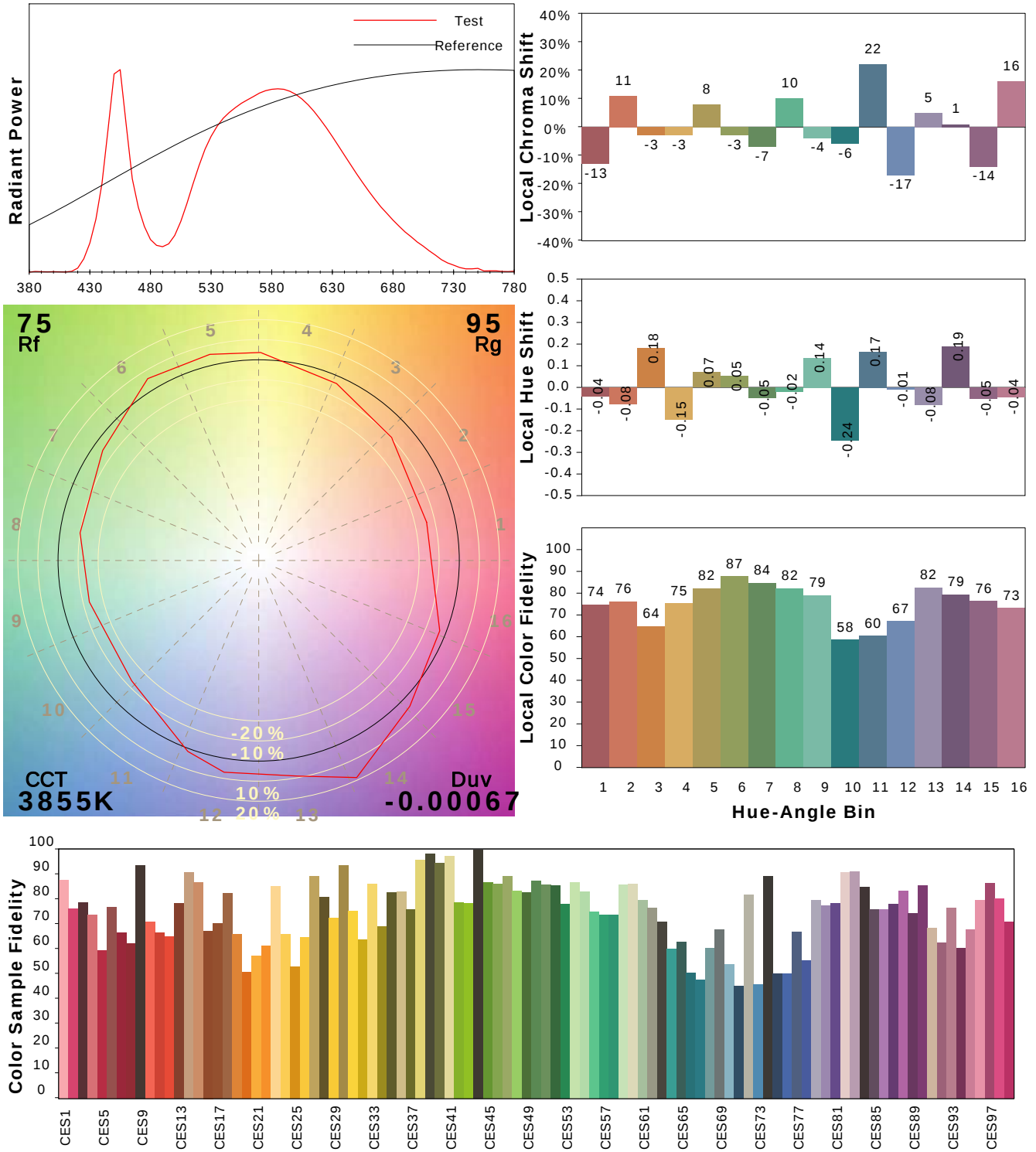
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IES TM-30-18 Color Rendition Report

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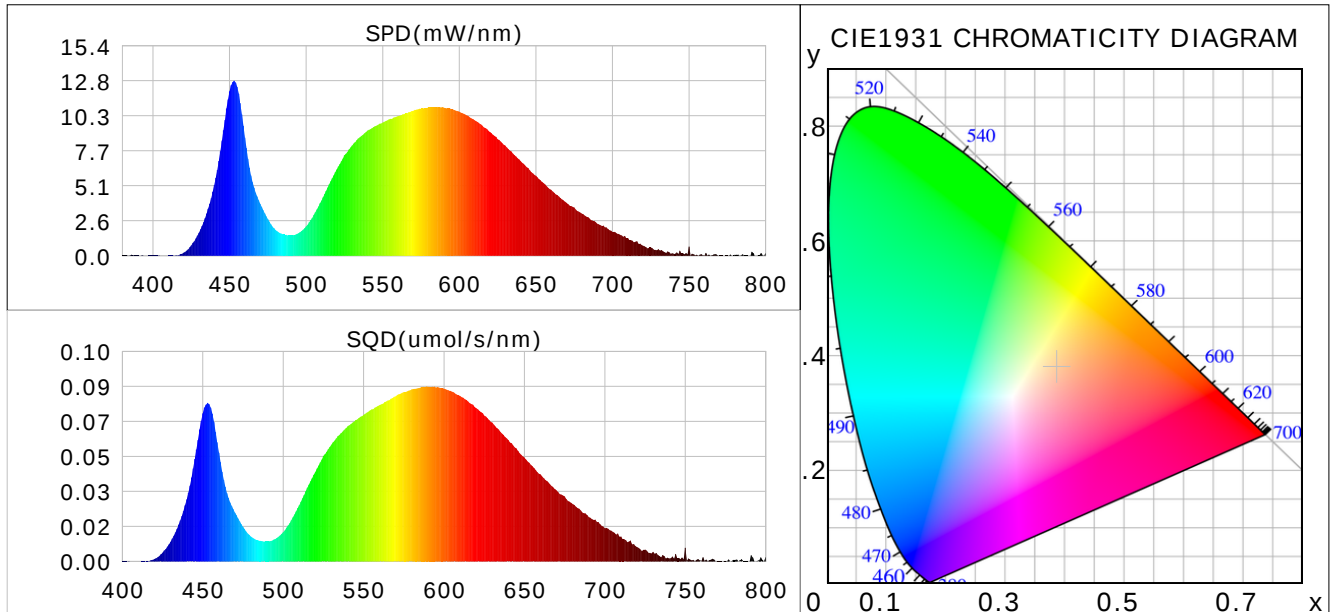
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Plant optical param data

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 CRI: Ra= 74.9



Plant Optical Param

$\mu_v(\text{lm})$: 630.47	$Q_v(\text{lm.s})$: 630.47
$\mu_e, \dot{E}(\text{W/nm})$: 1.87	$Q_e(\text{J})$: 1.87
$\mu_e(\text{W})$: 1.83	$\mu_{fr}(\text{W})$: 0.04
$\dot{Q}_e$: 0.25	$\dot{Q}_{fr}$: 0.01
$\text{PPE}(\mu\text{mol/s/w})$: 1.17	K_{fr} : 0.03
Erb_Ratio : 1.65	$\text{PPF}(\mu\text{mol/s})$: 8.62
$\text{PF}_{uv}(360-400)(\mu\text{mol/s})$: 0.00	$\text{PPF}(400-500)(\mu\text{mol/s})$: 1.38
$\text{PPF}(500-600)(\mu\text{mol/s})$: 4.06	$\text{PPF}(600-700)(\mu\text{mol/s})$: 3.19
$\text{PF}_{fr}(700-800)(\mu\text{mol/s})$: 0.23	$\text{PPF.t}(\mu\text{mol})$: 8.62
$\mu_{ch-A.t}(\text{J})$: 0.15	$\mu_{ch-A}(\text{W})$: 0.15
$\mu_{ch-B.t}(\text{J})$: 0.08	$\mu_{ch-B}(\text{W})$: 0.08
$\mu_b.t(\text{J})$: 0.36	$\mu_b(\text{W})$: 0.36
$\mu_y.t(\text{J})$: 0.87	$\mu_y(\text{W})$: 0.87
$\mu_r.t(\text{J})$: 0.61	$\mu_r(\text{W})$: 0.61

Electric Parameters

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