

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E27-G45-3W-DWC-3790
 Manufacturer: METOLIGHT
 Buyer: 3790
 Product Type: LED-Lampen-E27
 Product Number: 1
 Submitted Unit: 100333

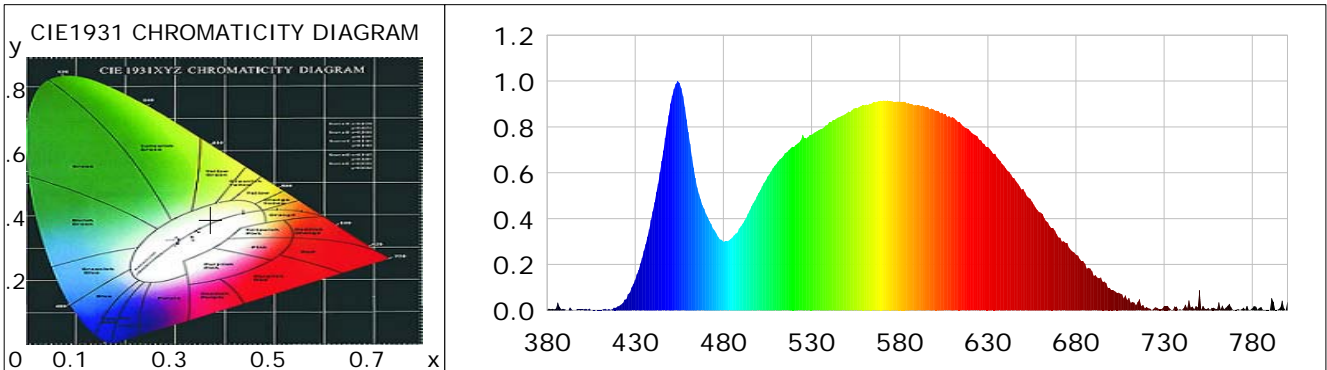
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3716$ $y=0.3895$ $u(u')=0.2145$ $v=0.3372$ $v'=0.5058$
 CCT: $T_c=4327K$ ($duv=0.00856$) Color Ratio: $R=0.167$ $G=0.796$ $B=0.037$
 Peak Wavelength: 454.1nm Half Bandwidth: 24.7nm
 Dominant Wavelength: 573.4nm Color Purity: 0.284
 CRI: $R_a=82.0$, $avgR(1\sim14)=74.5$, $avgR(1\sim15)=74.4$ TM30: $R_f=84$, $R_g=93$
 GAI: $GAI_BB_8=81.8$, $GAI_BB_15=89.4$, $GAI_EES=68.4$

R1 =79	R2 =86	R3 =93	R4 =80	R5 =78	R6 =81	R7 =89	R8 =68
R9 =11	R10=68	R11=78	R12=54	R13=80	R14=96	R15=73	

Color Quality Scale: $Q_a=83.8$, $Q_f=84.3$, $Q_p=81.7$, $Q_g=89.9$

Q1 =83	Q2 =97	Q3 =82	Q4 =77	Q5 =81	Q6 =81	Q7 =84	Q8 =90
Q9 =97	Q10=91	Q11=88	Q12=87	Q13=86	Q14=74	Q15=78	



Photometric Parameters

Luminous Flux: 214.89 lm Efficiency: 63.39 lm/W Radiant Power: 0.635 W
 Total mains efficacy: 63.39 lm/W Energy Efficiency Class: G (EU 2019/2015)
 Pupil Flux: 333.81 Plm Pupil Lumens Per Watt: 98.47 Plm/W Pupil Factor (Kp): 1.553
 Circopic Flux: 678.23 lm

Electric Parameters

Voltage: 230.80V Current: 0.0300A Power: 3.39W
 Power Factor: 0.4890 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: 24263 (3260) CCD Integration Time: 1000.00 ms

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

Test Device: Lisun LMS-9000B
 Test Time: 2021-04-28 13:55:47
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0026	0.0098	525	0.7657	2.8559	670	0.3189	1.1894
385	0.0080	0.0299	530	0.7653	2.8545	675	0.2932	1.0937
390	0.0042	0.0158	535	0.7898	2.9458	680	0.2422	0.9036
395	0.0007	0.0026	540	0.8192	3.0557	685	0.2035	0.7590
400	0.0042	0.0155	545	0.8410	3.1371	690	0.1507	0.5619
405	0.0006	0.0023	550	0.8605	3.2097	695	0.1253	0.4673
410	0.0026	0.0099	555	0.8820	3.2899	700	0.0881	0.3287
415	0.0058	0.0215	560	0.8946	3.3369	705	0.0735	0.2741
420	0.0171	0.0639	565	0.9077	3.3856	710	0.0541	0.2019
425	0.0493	0.1839	570	0.9135	3.4074	715	0.0359	0.1337
430	0.1328	0.4953	575	0.9124	3.4034	720	0.0145	0.0542
435	0.2599	0.9695	580	0.9108	3.3974	725	0.0139	0.0520
440	0.4319	1.6110	585	0.9046	3.3743	730	0.0178	0.0664
445	0.6516	2.4305	590	0.8938	3.3339	735	0.0015	0.0054
450	0.9013	3.3618	595	0.8847	3.2999	740	0.0019	0.0069
455	0.9925	3.7019	600	0.8714	3.2502	745	0.0132	0.0494
460	0.7781	2.9024	605	0.8540	3.1853	750	0.0883	0.3295
465	0.5364	2.0006	610	0.8433	3.1453	755	0.0102	0.0380
470	0.4211	1.5707	615	0.8116	3.0271	760	0.0057	0.0213
475	0.3483	1.2992	620	0.7817	2.9158	765	0.0115	0.0428
480	0.2992	1.1159	625	0.7444	2.7764	770	0.0028	0.0104
485	0.3163	1.1796	630	0.7127	2.6583	775	0.0112	0.0418
490	0.3671	1.3694	635	0.6684	2.4931	780	0.0084	0.0314
495	0.4361	1.6265	640	0.6204	2.3140	785	0.0145	0.0540
500	0.5117	1.9086	645	0.5754	2.1462	790	0.0001	0.0003
505	0.5836	2.1767	650	0.5297	1.9757	795	0.0056	0.0208
510	0.6387	2.3824	655	0.4744	1.7696	800	0.0406	0.1514
515	0.6858	2.5580	660	0.4259	1.5885			
520	0.7126	2.6579	665	0.3685	1.3744			

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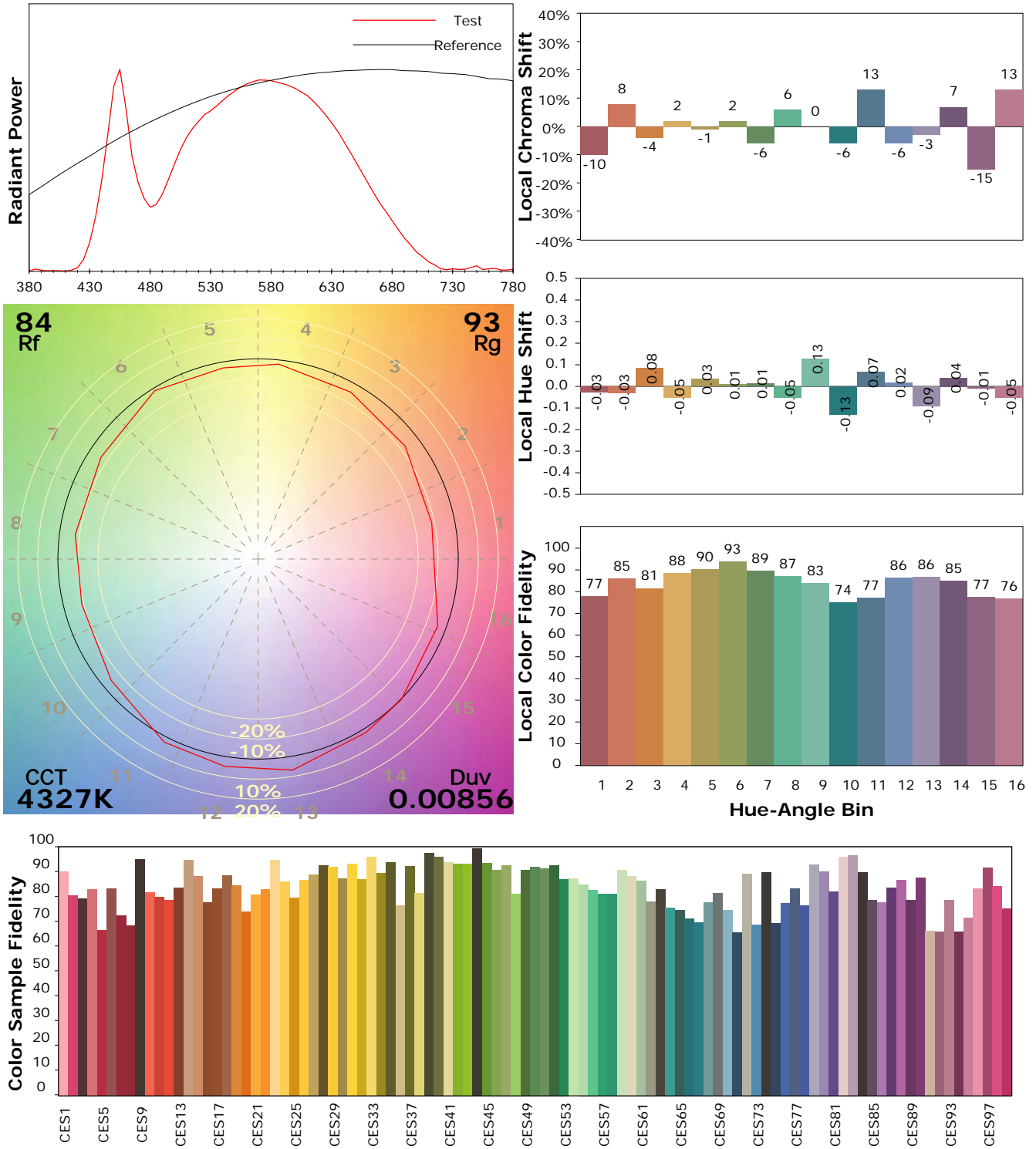
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IES TM-30-18 Color Rendition Report

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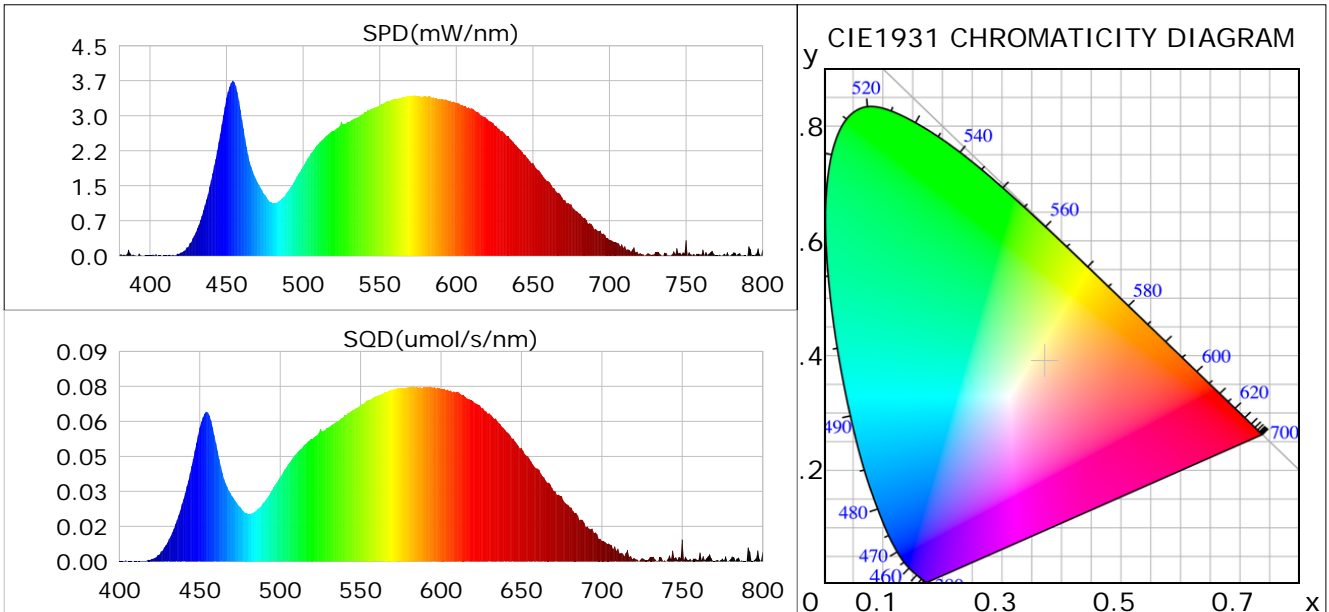
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Plant optical param data

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Plant Optical Param

$ \mu_v(lm)$: 214.89	$Q_v(lm.s)$: 214.89
$ \mu_e, \dot{E}(W/nm)$: 0.63	$Q_e(J)$: 0.63
$ \mu_e(W)$: 0.63	$ \mu_{fr}(W)$: 0.01
$ \dot{C}_e$: 0.19	$ \dot{C}_{fr}$: 0.00
$PPE(umol/s/w)$: 0.87	K_{fr} : 0.01
Erb_Ratio : 1.40	$PPF(umol/s)$: 2.93
$PF_{uv}(360-400)(umol/s)$: 0.00	$PPF(400-500)(umol/s)$: 0.52
$PPF(500-600)(umol/s)$: 1.41	$PPF(600-700)(umol/s)$: 1.01
$PPF_{fr}(700-800)(umol/s)$: 0.04	$PPF.t(umol)$: 2.93
$ \mu_{ch-A.t}(J)$: 0.05	$ \mu_{ch-A}(W)$: 0.05
$ \mu_{ch-B.t}(J)$: 0.03	$ \mu_{ch-B}(W)$: 0.03
$ \mu_b.t(J)$: 0.14	$ \mu_b(W)$: 0.14
$ \mu_y.t(J)$: 0.31	$ \mu_y(W)$: 0.31
$ \mu_r.t(J)$: 0.19	$ \mu_r(W)$: 0.19

Electric Parameters

Voltage: 230.80V	Current: 0.0300A	Power: 3.39W
Power Factor: 0.4890	Frequency: 49.99Hz	

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