

Lightsource Test Report

Product Information

Product Category: LED-Lampen
 Product Spec: LED-E14-Spot-5W-DW-30-Cree
 Manufacturer: METOLIGHT
 Buyer: 2617

Product Type: LED-Lampen-E14
 Product Number: 1
 Submitted Unit: 101300

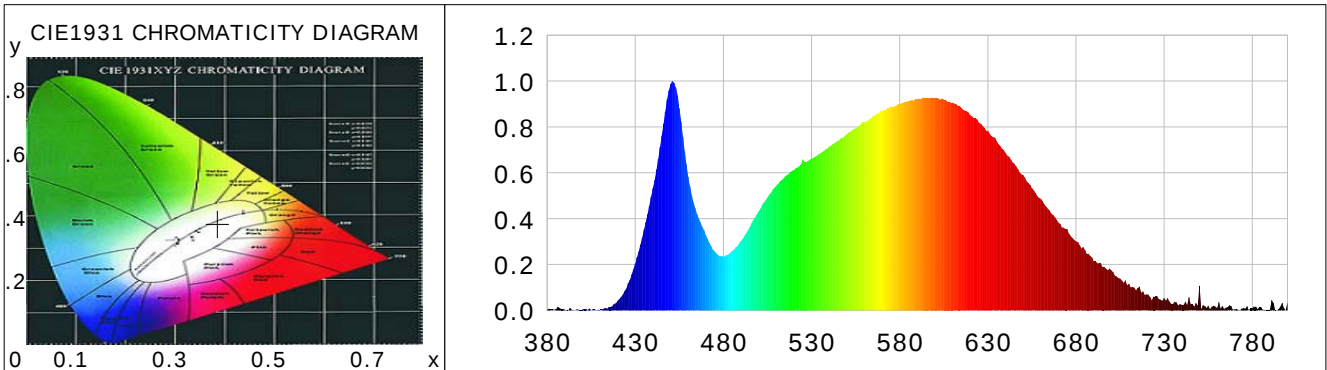
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3861$ $y=0.3772$ $u(u')=0.2286$ $v=0.3351$ $v'=0.5026$
 CCT: $T_c=3853K$ ($duv=-0.00138$) Color Ratio: $R=0.191$ $G=0.775$ $B=0.033$
 Peak Wavelength: 451.1nm Half Bandwidth: 22.9nm
 Dominant Wavelength: 580.3nm Color Purity: 0.291
 CRI: $R_a=84.6$, $avgR(1\sim14)=78.9$, $avgR(1\sim15)=78.9$ TM30: $R_f=85$, $R_g=98$
 GAI: $GAI_BB_8=97.2$, $GAI_BB_15=102.8$, $GAI_EES=74.3$

R1 =83	R2 =89	R3 =93	R4 =84	R5 =83	R6 =85	R7 =88	R8 =71
R9 =25	R10=74	R11=83	R12=65	R13=85	R14=96	R15=80	

Color Quality Scale: $Q_a=84.0$, $Q_f=83.6$, $Q_p=85.3$, $Q_g=95.6$

Q1 =85	Q2 =98	Q3 =78	Q4 =77	Q5 =83	Q6 =85	Q7 =86	Q8 =90
Q9 =97	Q10=88	Q11=85	Q12=84	Q13=85	Q14=77	Q15=80	



Photometric Parameters

Luminous Flux: 398.60 lm	Efficiency: 76.80 lm/W	Radiant Power: 1.245 W
Total mains efficacy: 83.64 lm/W	Energy Efficiency Class: G (EU 2019/2015)	
Pupil Flux: 585.60 Plm	Pupil Lumens Per Watt: 112.83 Plm/W	Pupil Factor (Kp): 1.469
Cirtpic Flux: 1164.33 lm		

Electric Parameters

Voltage: 231.10V	Current: 0.0450A	Power: 5.19W
Power Factor: 0.4920	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: 31707 (3331)	CCD Integration Time: 1000.00 ms

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

Test Device: Lisun LMS-9000B
 Test Time: 2021-08-17 09:48:32
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0027	0.0200	525	0.6579	4.7956	670	0.3836	2.7963
385	0.0051	0.0372	530	0.6621	4.8263	675	0.3545	2.5840
390	0.0035	0.0255	535	0.6854	4.9960	680	0.3010	2.1944
395	0.0010	0.0073	540	0.7144	5.2072	685	0.2641	1.9251
400	0.0037	0.0267	545	0.7396	5.3913	690	0.2138	1.5584
405	0.0007	0.0053	550	0.7681	5.5992	695	0.1892	1.3790
410	0.0040	0.0292	555	0.7937	5.7859	700	0.1750	1.2753
415	0.0142	0.1037	560	0.8200	5.9772	705	0.1383	1.0085
420	0.0418	0.3049	565	0.8480	6.1811	710	0.1161	0.8465
425	0.0959	0.6987	570	0.8680	6.3274	715	0.0972	0.7085
430	0.2030	1.4795	575	0.8893	6.4822	720	0.0703	0.5121
435	0.3519	2.5651	580	0.8979	6.5452	725	0.0605	0.4411
440	0.5324	3.8813	585	0.9123	6.6503	730	0.0534	0.3894
445	0.7625	5.5580	590	0.9212	6.7147	735	0.0285	0.2078
450	0.9864	7.1906	595	0.9267	6.7555	740	0.0243	0.1771
455	0.8814	6.4252	600	0.9262	6.7513	745	0.0267	0.1945
460	0.5835	4.2533	605	0.9191	6.6995	750	0.1069	0.7795
465	0.4193	3.0561	610	0.9059	6.6038	755	0.0200	0.1456
470	0.3280	2.3912	615	0.8833	6.4385	760	0.0101	0.0739
475	0.2576	1.8775	620	0.8513	6.2055	765	0.0116	0.0849
480	0.2337	1.7037	625	0.8170	5.9556	770	0.0048	0.0346
485	0.2585	1.8843	630	0.7822	5.7016	775	0.0101	0.0735
490	0.3030	2.2088	635	0.7379	5.3792	780	0.0100	0.0732
495	0.3636	2.6506	640	0.6864	5.0037	785	0.0131	0.0952
500	0.4308	3.1404	645	0.6400	4.6652	790	0.0028	0.0201
505	0.4935	3.5975	650	0.5904	4.3035	795	0.0061	0.0441
510	0.5441	3.9663	655	0.5327	3.8834	800	0.0371	0.2707
515	0.5849	4.2639	660	0.4864	3.5459			
520	0.6117	4.4593	665	0.4358	3.1765			

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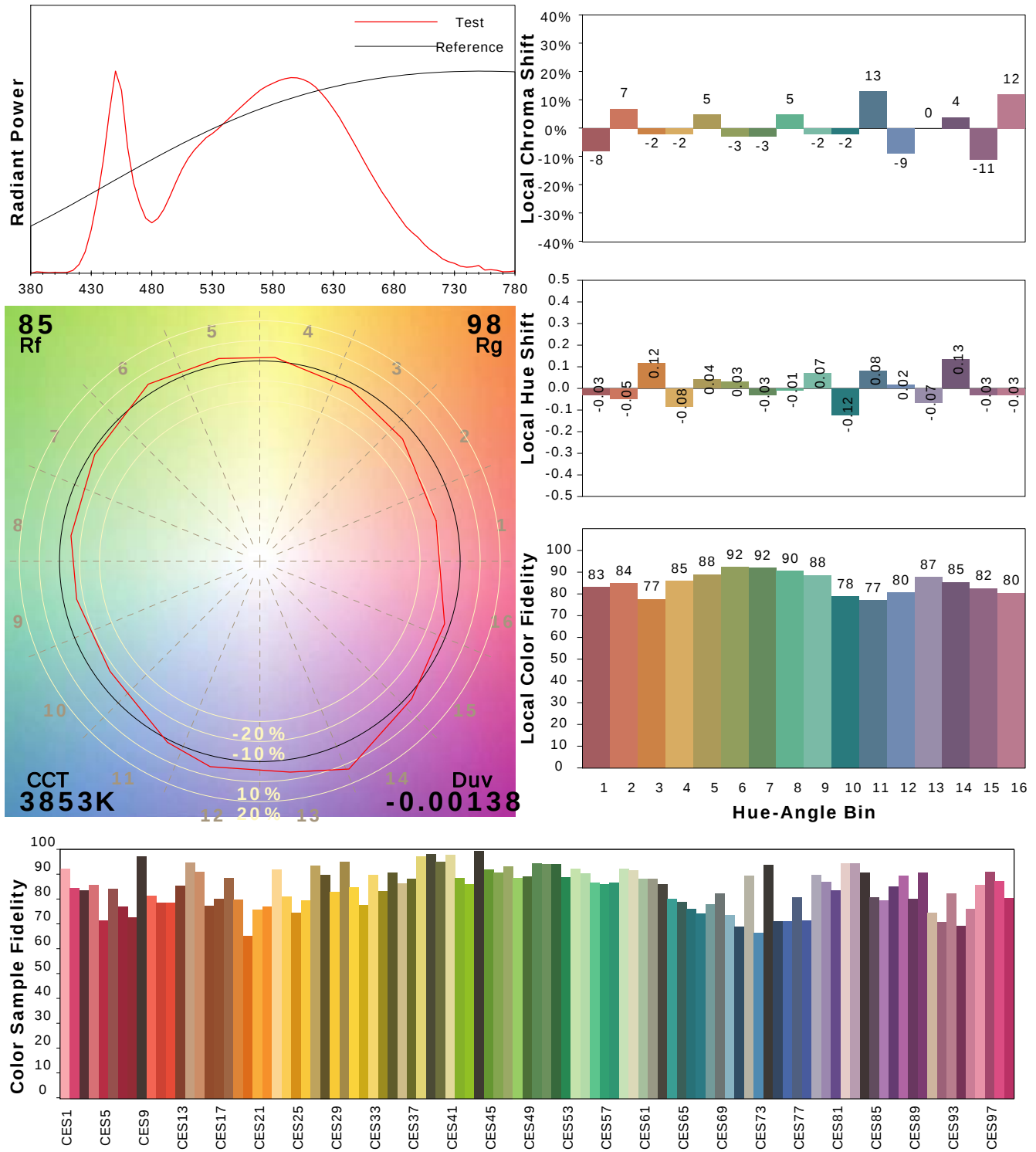
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IES TM-30-18 Color Rendition Report

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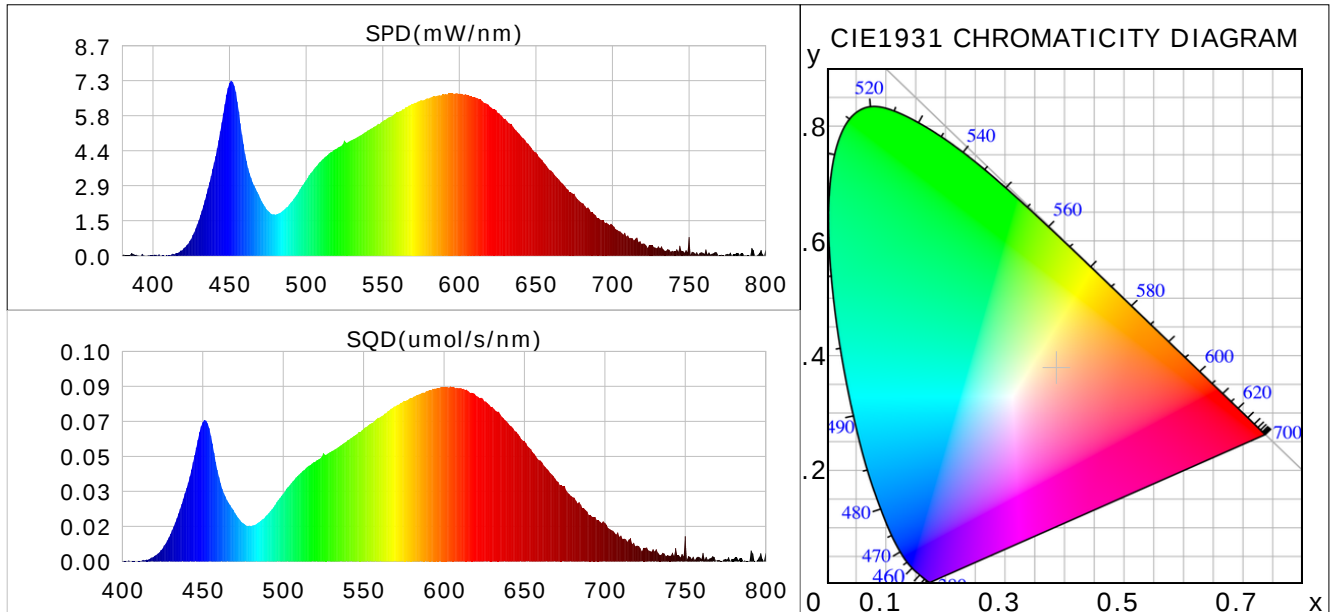
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 Operator: CRE

Test Device: Lisun LMS-9000B
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Plant optical param data

CIE Colorimetric Parameters

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 Peak Wavelength: 451.1nm Half Bandwidth: 22.9nm
 Dominant Wavelength: 580.3nm Color Purity: 0.291
 CRI: Ra= 84.6



Plant Optical Param

$\mu_v(lm): 398.60$	$Q_v(lm.s): 398.60$
$\mu_e, \dot{E}(W/nm): 1.25$	$Q_e(J): 1.25$
$\mu_e(W): 1.22$	$\mu_{fr}(W): 0.03$
$\dot{C}_e: 0.23$	$\dot{C}_{fr}: 0.01$
$PPE(umol/s/w): 1.11$	$K_{fr}: 0.04$
$Erb_Ratio: 1.66$	$PPF(umol/s): 5.74$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 0.96$
$PPF(500-600)(umol/s): 2.55$	$PPF(600-700)(umol/s): 2.22$
$PF_{fr}(700-800)(umol/s): 0.18$	$PPF.t(umol): 5.74$
$\mu_{ch-A.t}(J): 0.10$	$\mu_{ch-A}(W): 0.10$
$\mu_{ch-B.t}(J): 0.06$	$\mu_{ch-B}(W): 0.06$
$\mu_b.t(J): 0.25$	$\mu_b(W): 0.25$
$\mu_y.t(J): 0.55$	$\mu_y(W): 0.55$
$\mu_r.t(J): 0.42$	$\mu_r(W): 0.42$

Electric Parameters

Voltage: 231.10V	Current: 0.0450A	Power: 5.19W
Power Factor: 0.4920	Frequency: 49.99Hz	

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