

Lightsource Test Report

Product Information

Product Category: LED-Röhre
 Product Spec: LED-PL-2G7-06W-CW
 Manufacturer: METOLIGHT
 Buyer: 2320

Product Type: LED-PL-Röhre-2G7
 Product Number: 1
 Submitted Unit: 101991

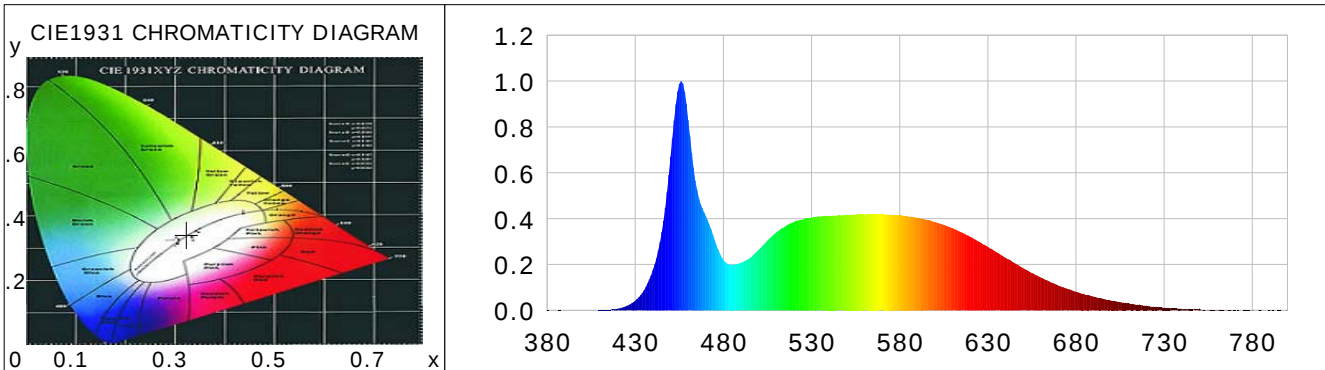
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3233$ $y=0.3425$ $u(u')=0.2001$ $v=0.3179$ $v'=0.4769$
 CCT: $T_c=5914K$ ($duv=0.00491$) Color Ratio: $R=0.143$ $G=0.802$ $B=0.055$
 Peak Wavelength: 456.0nm Half Bandwidth: 18.0nm
 Dominant Wavelength: 504.1nm Color Purity: 0.030
 CRI: $R_a=84.1$, $avgR(1\sim14)=77.2$, $avgR(1\sim15)=77.3$ TM30: $R_f=82$, $R_g=93$
 GAI: $GAI_BB_8=88.9$, $GAI_BB_15=95.6$, $GAI_EES=84.1$

R1 =83	R2 =91	R3 =94	R4 =81	R5 =82	R6 =86	R7 =87	R8 =70
R9 =15	R10=77	R11=80	R12=54	R13=86	R14=97	R15=78	

Color Quality Scale: $Q_a=81.8$, $Q_f=81.9$, $Q_p=81.0$, $Q_g=90.6$

Q1 =81	Q2 =97	Q3 =79	Q4 =71	Q5 =76	Q6 =79	Q7 =85	Q8 =89
Q9 =97	Q10=90	Q11=86	Q12=85	Q13=84	Q14=74	Q15=77	



Photometric Parameters

Luminous Flux: 620.40 lm	Efficiency: 98.48 lm/W	Radiant Power: 1.954 W
Total mains efficacy: 115.81 lm/W	Energy Efficiency Class: E (EU 2019/2015)	
Pupil Flux: 1143.00 Plm	Pupil Lumens Per Watt: 181.43 Plm/W	Pupil Factor (Kp): 1.842
Cirtpic Flux: 2611.92 lm		

Electric Parameters

Voltage: 230.90V	Current: 0.0270A	Power: 6.30W
Power Factor: 0.9380	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: 46848 (2287)	CCD Integration Time: 130.22 ms

Condition: Tx:18.6'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-01-06 15:00:34
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0014	0.0307	525	0.3961	8.8780	670	0.1086	2.4338
385	0.0005	0.0109	530	0.4044	9.0645	675	0.0949	2.1262
390	0.0004	0.0086	535	0.4084	9.1548	680	0.0816	1.8293
395	0.0007	0.0157	540	0.4120	9.2343	685	0.0698	1.5642
400	0.0003	0.0077	545	0.4142	9.2849	690	0.0594	1.3312
405	0.0003	0.0064	550	0.4160	9.3237	695	0.0512	1.1486
410	0.0007	0.0158	555	0.4184	9.3792	700	0.0421	0.9445
415	0.0026	0.0576	560	0.4181	9.3720	705	0.0361	0.8090
420	0.0071	0.1591	565	0.4202	9.4186	710	0.0302	0.6765
425	0.0191	0.4279	570	0.4187	9.3847	715	0.0249	0.5578
430	0.0421	0.9446	575	0.4182	9.3736	720	0.0206	0.4623
435	0.0879	1.9709	580	0.4146	9.2943	725	0.0151	0.3390
440	0.1754	3.9315	585	0.4088	9.1628	730	0.0114	0.2558
445	0.3427	7.6807	590	0.4047	9.0703	735	0.0086	0.1924
450	0.6695	15.0075	595	0.3956	8.8681	740	0.0067	0.1512
455	0.9882	22.1502	600	0.3859	8.6500	745	0.0058	0.1297
460	0.8298	18.6011	605	0.3727	8.3538	750	0.0083	0.1870
465	0.5266	11.8045	610	0.3584	8.0342	755	0.0035	0.0774
470	0.4118	9.2306	615	0.3404	7.6296	760	0.0028	0.0638
475	0.3080	6.9033	620	0.3209	7.1920	765	0.0012	0.0265
480	0.2200	4.9303	625	0.2993	6.7080	770	0.0019	0.0430
485	0.1984	4.4470	630	0.2768	6.2046	775	0.0009	0.0193
490	0.2074	4.6490	635	0.2533	5.6784	780	0.0022	0.0484
495	0.2282	5.1144	640	0.2294	5.1418	785	0.0026	0.0573
500	0.2640	5.9185	645	0.2071	4.6424	790	0.0008	0.0186
505	0.3050	6.8375	650	0.1840	4.1255	795	0.0019	0.0436
510	0.3405	7.6334	655	0.1620	3.6307	800	0.0035	0.0779
515	0.3652	8.1860	660	0.1433	3.2131			
520	0.3860	8.6529	665	0.1253	2.8092			

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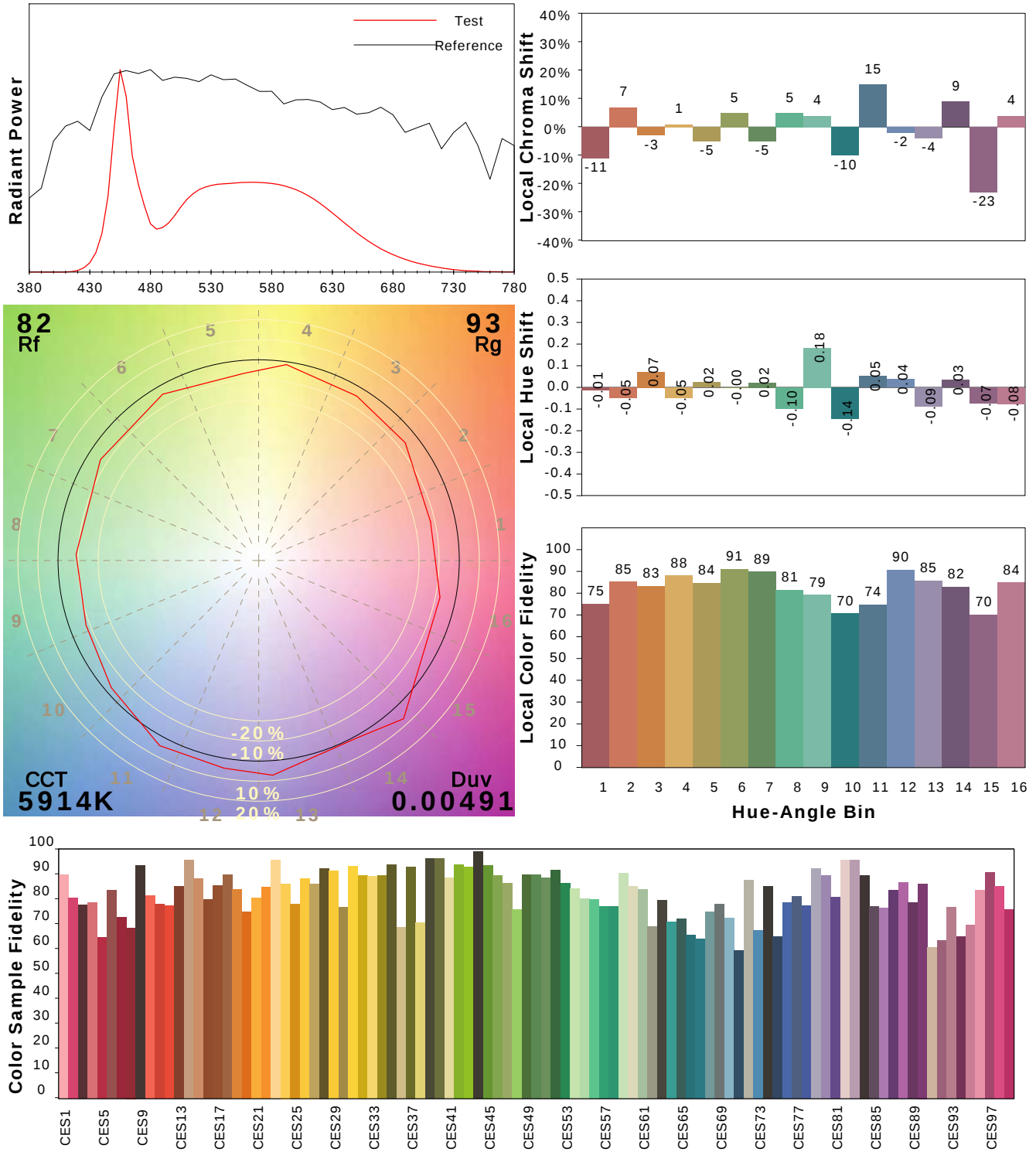
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IES TM-30-18 Color Rendition Report

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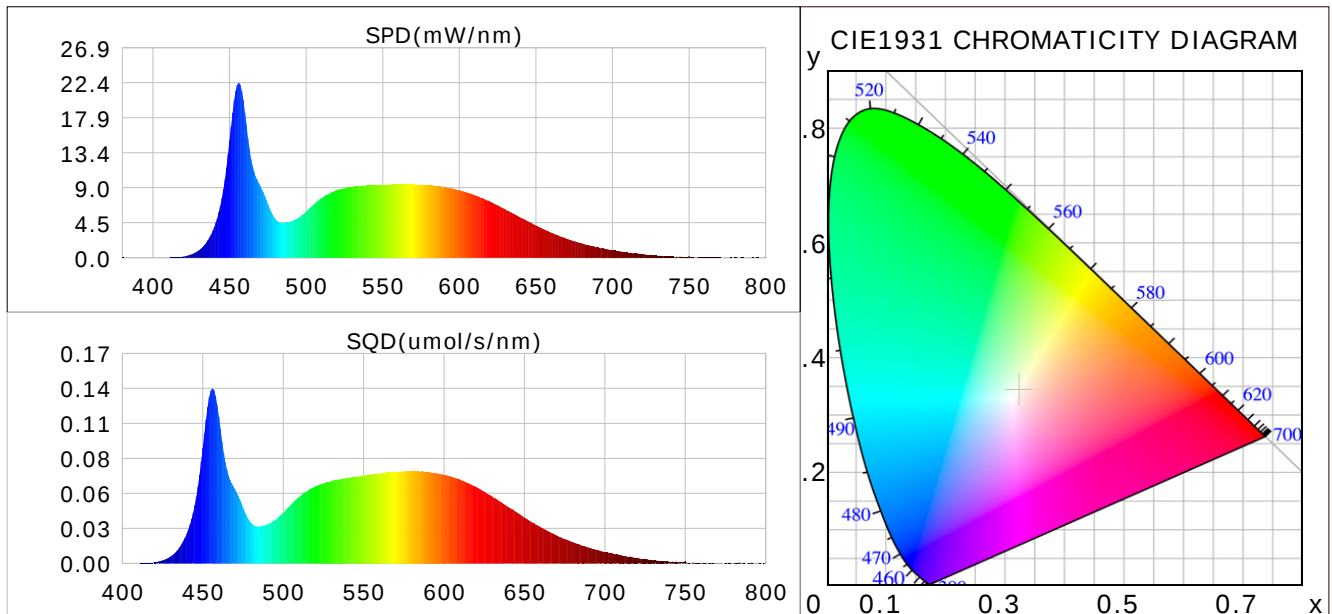
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Plant optical param data

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 CRI: Ra= 84.1



Plant Optical Param

$\mu_v(lm): 620.40$	$Q_v(lm.s): 620.40$
$\mu_e, \dot{E}(W/nm): 1.95$	$Q_e(J): 1.95$
$\mu_e(W): 1.93$	$\mu_{fr}(W): 0.02$
$\dot{C}_e: 0.31$	$\dot{C}_{fr}: 0.00$
$PPE(umol/s/w): 1.39$	$K_{fr}: 0.02$
$Erb_Ratio: 0.72$	$PPF(umol/s): 8.77$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 2.35$
$PPF(500-600)(umol/s): 4.09$	$PPF(600-700)(umol/s): 2.33$
$PF_{fr}(700-800)(umol/s): 0.13$	$PPF.t(umol): 8.77$
$\mu_{ch-A.t}(J): 0.15$	$\mu_{ch-A}(W): 0.15$
$\mu_{ch-B.t}(J): 0.11$	$\mu_{ch-B}(W): 0.11$
$\mu_b.t(J): 0.61$	$\mu_b(W): 0.61$
$\mu_y.t(J): 0.89$	$\mu_y(W): 0.89$
$\mu_r.t(J): 0.45$	$\mu_r(W): 0.45$

Electric Parameters

Voltage: 230.90V	Current: 0.0270A	Power: 6.30W
Power Factor: 0.9380	Frequency: 49.99Hz	

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