

Lightsource Test Report

Product Information

Product Category: LED-PL-Röhre
 Product Spec: LED-PL-2G7-08-NW
 Manufacturer: METOLIGHT
 Buyer: 2320

Product Type: LED-PL-Röhren-2G7
 Product Number: 1
 Submitted Unit: 102008

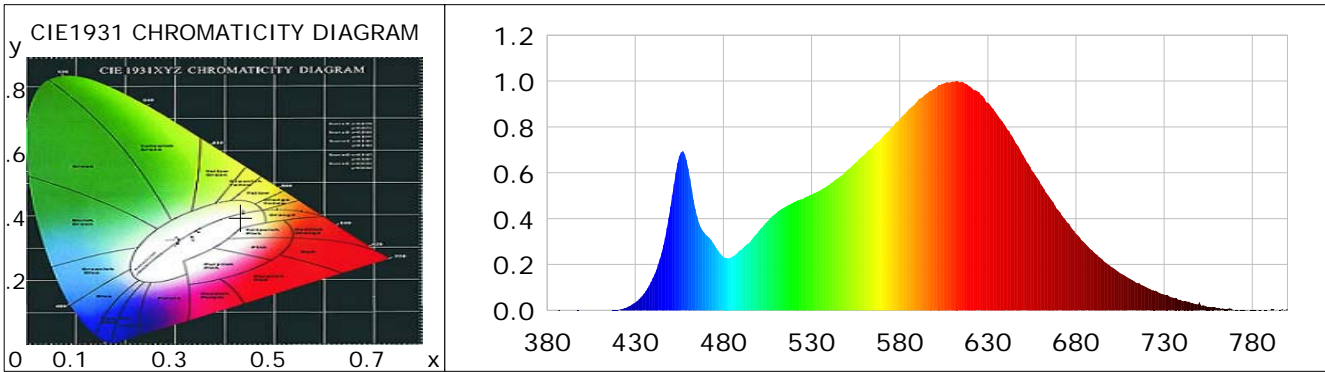
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4324$ $y=0.3962$ $u(u')=0.2510$ $v=0.3450$ $v'=0.5176$
 CCT: $T_c=3013K$ ($duv=-0.00254$) Color Ratio: $R=0.238$ $G=0.732$ $B=0.030$
 Peak Wavelength: 612.3nm Half Bandwidth: 135.9nm
 Dominant Wavelength: 583.7nm Color Purity: 0.487
 CRI: $R_a=87.4$, $avgR(1\sim14)=83.7$, $avgR(1\sim15)=83.6$ TM30: $R_f=87$, $R_g=96$
 GAI: $GAI_BB_8=101.0$, $GAI_BB_15=108.9$, $GAI_EES=58.3$

R1 =88	R2 =96	R3 =95	R4 =85	R5 =88	R6 =94	R7 =84	R8 =68
R9 =32	R10=90	R11=86	R12=76	R13=90	R14=98	R15=82	

Color Quality Scale: $Q_a=86.0$, $Q_f=87.3$, $Q_p=88.4$, $Q_g=93.9$

Q1 =83	Q2 =95	Q3 =86	Q4 =82	Q5 =85	Q6 =87	Q7 =88	Q8 =88
Q9 =96	Q10=93	Q11=89	Q12=87	Q13=86	Q14=80	Q15=81	



Photometric Parameters

Luminous Flux: 928.00 lm	Efficiency: 110.74 lm/W	Radiant Power: 2.952 W
Total mains efficacy: 130.23 lm/W	Energy Efficiency Class: E (EU 2019/2015)	
Pupil Flux: 1221.90 Plm	Pupil Lumens Per Watt: 145.81 Plm/W	Pupil Factor (Kp): 1.317
Cirtpic Flux: 2327.44 lm		

Electric Parameters

Voltage: 231.00V	Current: 0.0670A	Power: 8.38W
Power Factor: 0.5350	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: 46796 (2321)	CCD Integration Time: 355.95 ms

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0001	0.0017	525	0.4855	9.1572	670	0.4365	8.2331
385	0.0004	0.0081	530	0.5043	9.5107	675	0.3835	7.2322
390	0.0004	0.0073	535	0.5231	9.8652	680	0.3343	6.3053
395	0.0002	0.0036	540	0.5476	10.3267	685	0.2923	5.5119
400	0.0003	0.0052	545	0.5766	10.8735	690	0.2543	4.7952
405	0.0000	0.0007	550	0.6101	11.5059	695	0.2211	4.1693
410	0.0002	0.0045	555	0.6438	12.1425	700	0.1897	3.5767
415	0.0008	0.0144	560	0.6792	12.8098	705	0.1625	3.0638
420	0.0025	0.0466	565	0.7165	13.5136	710	0.1403	2.6452
425	0.0117	0.2210	570	0.7543	14.2260	715	0.1194	2.2520
430	0.0339	0.6402	575	0.7952	14.9977	720	0.0999	1.8841
435	0.0733	1.3820	580	0.8331	15.7116	725	0.0864	1.6289
440	0.1407	2.6530	585	0.8747	16.4969	730	0.0697	1.3136
445	0.2526	4.7644	590	0.9120	17.1990	735	0.0554	1.0440
450	0.4518	8.5206	595	0.9444	17.8115	740	0.0421	0.7935
455	0.6730	12.6916	600	0.9682	18.2603	745	0.0323	0.6093
460	0.6188	11.6695	605	0.9896	18.6636	750	0.0353	0.6654
465	0.4100	7.7328	610	0.9984	18.8301	755	0.0158	0.2981
470	0.3302	6.2266	615	0.9982	18.8254	760	0.0100	0.1889
475	0.2843	5.3616	620	0.9758	18.4026	765	0.0058	0.1089
480	0.2335	4.4031	625	0.9514	17.9425	770	0.0037	0.0689
485	0.2334	4.4023	630	0.9048	17.0647	775	0.0021	0.0395
490	0.2637	4.9737	635	0.8563	16.1497	780	0.0025	0.0477
495	0.2965	5.5926	640	0.8026	15.1372	785	0.0023	0.0426
500	0.3449	6.5044	645	0.7416	13.9865	790	0.0006	0.0119
505	0.3888	7.3324	650	0.6761	12.7506	795	0.0009	0.0170
510	0.4241	7.9984	655	0.6089	11.4845	800	0.0068	0.1278
515	0.4503	8.4930	660	0.5504	10.3799			
520	0.4718	8.8986	665	0.4925	9.2878			

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

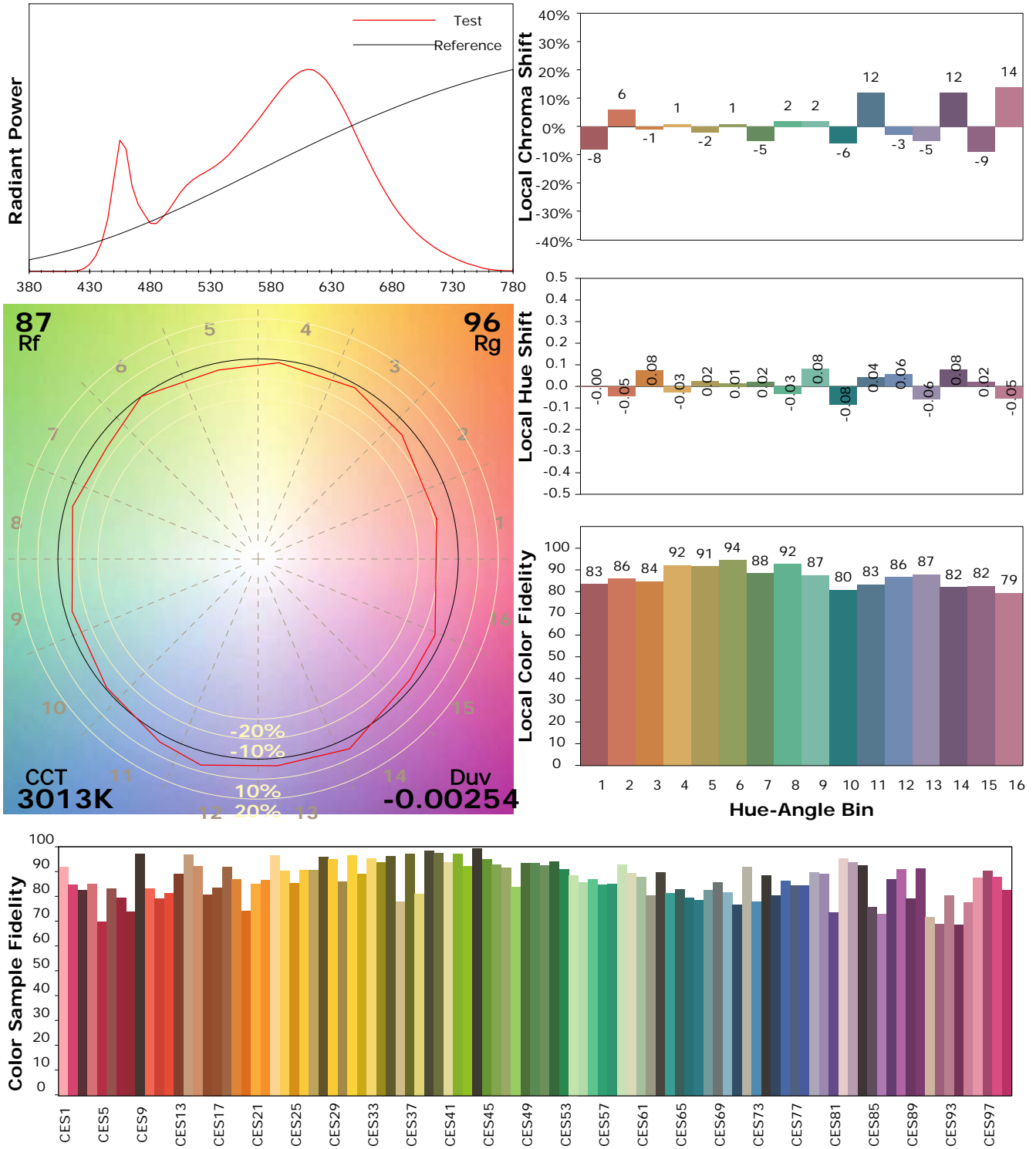
Test Device: Lisun LMS-9000B
 Test Time: 2021-03-05 09:29:40
 Inspector:

IES TM-30-18 Color Rendition Report

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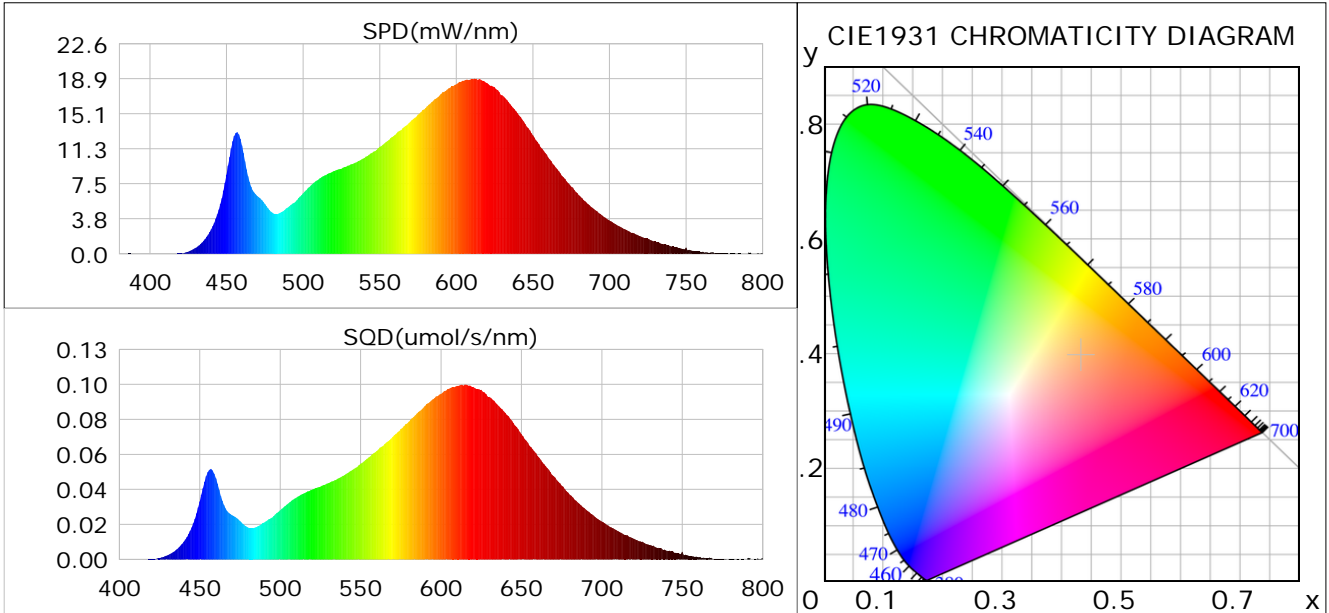
Condition: Tx:0.0°C, Ti:0.0°C, R.H.: 60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-03-05 09:29:40
 Inspector:

Plant optical param data

CIE Colorimetric Parameters

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 Dominant Wavelength: 583.7nm Color Purity: 0.487
 CRI: $R_a=87.4$



Plant Optical Param

$ \mu_v(lm)$: 928.00	$Q_v(lm.s)$: 928.00
$ \mu_e, \dot{E}(W/nm)$: 2.95	$Q_e(J)$: 2.95
$ \mu_e(W)$: 2.86	$ \mu_{fr}(W)$: 0.09
$ \zeta_e$: 0.34	$ \zeta_{fr}$: 0.01
PPE(umol/s/w): 1.65	Kfr: 0.07
Erb_Ratio: 2.87	PPF(umol/s): 13.85
PFuv(360-400)(umol/s): 0.00	PPF(400-500)(umol/s): 1.66
PPF(500-600)(umol/s): 5.66	PPF(600-700)(umol/s): 6.53
PPfr(700-800)(umol/s): 0.55	PPF.t(umol): 13.85
$ \mu_{ch-A.t}(J)$: 0.23	$ \mu_{ch-A}(W)$: 0.23
$ \mu_{ch-B.t}(J)$: 0.12	$ \mu_{ch-B}(W)$: 0.12
$ \mu_b.t(J)$: 0.43	$ \mu_b(W)$: 0.43
$ \mu_y.t(J)$: 1.22	$ \mu_y(W)$: 1.22
$ \mu_r.t(J)$: 1.24	$ \mu_r(W)$: 1.24

Electric Parameters

Voltage: 231.00V	Current: 0.0670A	Power: 8.38W
Power Factor: 0.5350	Frequency: 49.99Hz	

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: 2021-03-05 09:29:40
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