

Lightsource Test Report

Product Information

Product Category: LED-Röhre
 Product Spec: LEDtube-UVL-560-120-T8-18W
 Manufacturer: METOLIGHT
 Buyer: 4624 - 20852

Product Type: LED-Röhre UVL
 Product Number: 1
 Submitted Unit: 102476

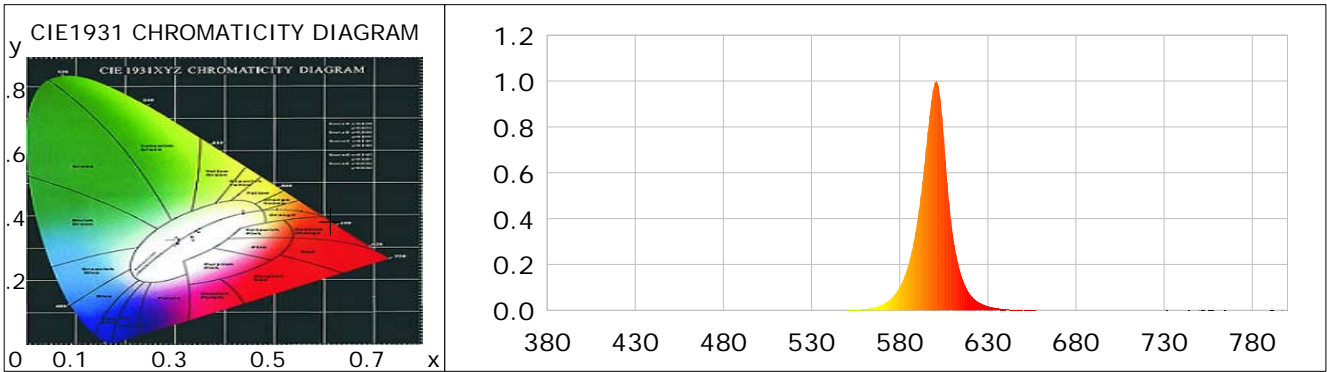
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.6145$ $y=0.3846$ $u(u')=0.3849$ $v=0.3613$ $v'=0.5420$
 CCT: $T_c=1320K$ ($duv=0.00208$) Color Ratio: $R=0.441$ $G=0.559$ $B=0.000$
 Peak Wavelength: 600.7nm Half Bandwidth: 15.7nm
 Dominant Wavelength: 597.4nm Color Purity: 0.999
 CRI: $R_a=17.0$, $avgR(1\sim14)=18.1$, $avgR(1\sim15)=16.9$ TM30: $R_f=3$, $R_g=4$
 GAI: $GAI_BB_8=0.9$, $GAI_BB_15=0.8$, $GAI_EES=0.0$

R1 =0	R2 =59	R3 =13	R4 =0	R5 =0	R6 =63	R7 =0	R8 =0
R9 =0	R10=44	R11=0	R12=28	R13=0	R14=45	R15=0	

Color Quality Scale: $Q_a=0.0$, $Q_f=0.2$, $Q_p=0.0$, $Q_g=0.8$

Q1 =12	Q2 =18	Q3 =0	Q4 =0	Q5 =0	Q6 =0	Q7 =5	Q8 =19
Q9 =1	Q10=0	Q11=0	Q12=0	Q13=0	Q14=0	Q15=0	



Photometric Parameters

Luminous Flux: 952.38 lm	Efficiency: 56.06 lm/W	Radiant Power: 2.199 W
Total mains efficacy: 65.92 lm/W	Energy Efficiency Class: G (EU 2019/2015)	
Pupil Flux: 240.15 Plm	Pupil Lumens Per Watt: 14.13 Plm/W	Pupil Factor (Kp): 0.252
Cirtopic Flux: 112.87 lm		

Electric Parameters

Voltage: 231.30V	Current: 0.0780A	Power: 16.99W
Power Factor: 0.9360	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: 46251 (2338)	CCD Integration Time: 95.76 ms

Condition: Tx:19.2'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-01-06 15:19:13
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0001	0.0072	525	0.0007	0.0842	670	0.0004	0.0440
385	0.0002	0.0174	530	0.0001	0.0130	675	0.0002	0.0179
390	0.0003	0.0283	535	0.0003	0.0317	680	0.0004	0.0483
395	0.0002	0.0275	540	0.0003	0.0366	685	0.0006	0.0692
400	0.0002	0.0241	545	0.0003	0.0382	690	0.0001	0.0155
405	0.0001	0.0086	550	0.0010	0.1094	695	0.0001	0.0137
410	0.0002	0.0178	555	0.0022	0.2477	700	0.0001	0.0087
415	0.0003	0.0354	560	0.0052	0.5892	705	0.0003	0.0330
420	0.0002	0.0190	565	0.0121	1.3654	710	0.0006	0.0727
425	0.0001	0.0093	570	0.0254	2.8713	715	0.0002	0.0254
430	0.0001	0.0144	575	0.0509	5.7597	720	0.0001	0.0059
435	0.0002	0.0253	580	0.1015	11.4747	725	0.0005	0.0614
440	0.0002	0.0272	585	0.1996	22.5694	730	0.0005	0.0581
445	0.0002	0.0264	590	0.3880	43.8661	735	0.0004	0.0505
450	0.0002	0.0181	595	0.7069	79.9167	740	0.0010	0.1093
455	0.0000	0.0047	600	0.9937	112.3482	745	0.0005	0.0567
460	0.0002	0.0231	605	0.7547	85.3251	750	0.0035	0.3983
465	0.0000	0.0002	610	0.3365	38.0439	755	0.0010	0.1164
470	0.0001	0.0138	615	0.1521	17.1918	760	0.0001	0.0166
475	0.0002	0.0232	620	0.0697	7.8828	765	0.0011	0.1260
480	0.0001	0.0120	625	0.0343	3.8797	770	0.0003	0.0377
485	0.0001	0.0123	630	0.0184	2.0786	775	0.0006	0.0663
490	0.0001	0.0058	635	0.0095	1.0779	780	0.0006	0.0674
495	0.0001	0.0151	640	0.0049	0.5531	785	0.0007	0.0830
500	0.0002	0.0216	645	0.0027	0.3063	790	0.0007	0.0792
505	0.0002	0.0232	650	0.0016	0.1824	795	0.0005	0.0558
510	0.0000	0.0056	655	0.0008	0.0877	800	0.0022	0.2437
515	0.0003	0.0291	660	0.0006	0.0722			
520	0.0000	0.0031	665	0.0004	0.0446			

Condition: Tx:19.2'C, Ti:0.0'C, R.H.:60%
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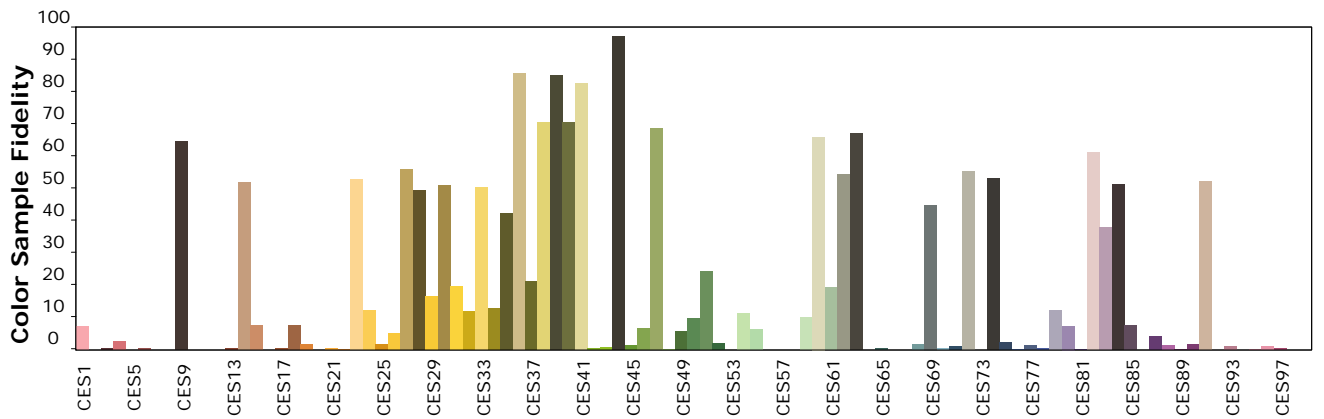
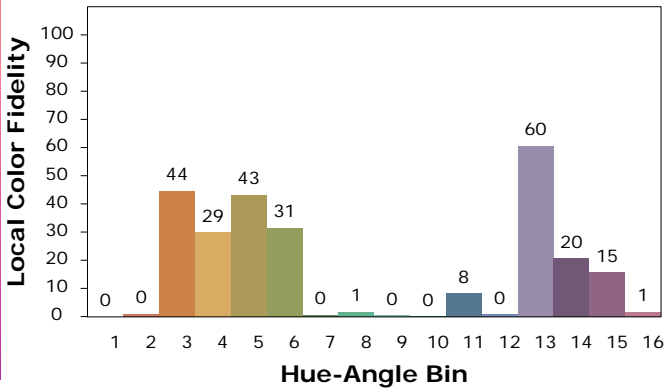
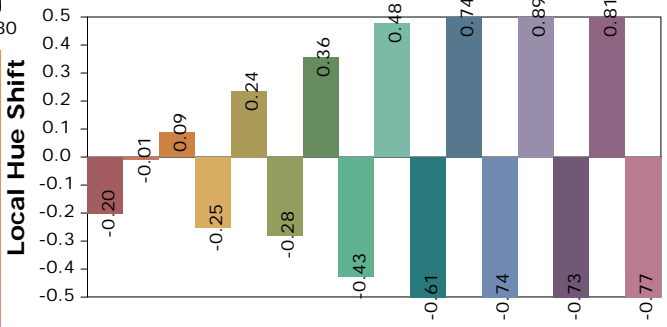
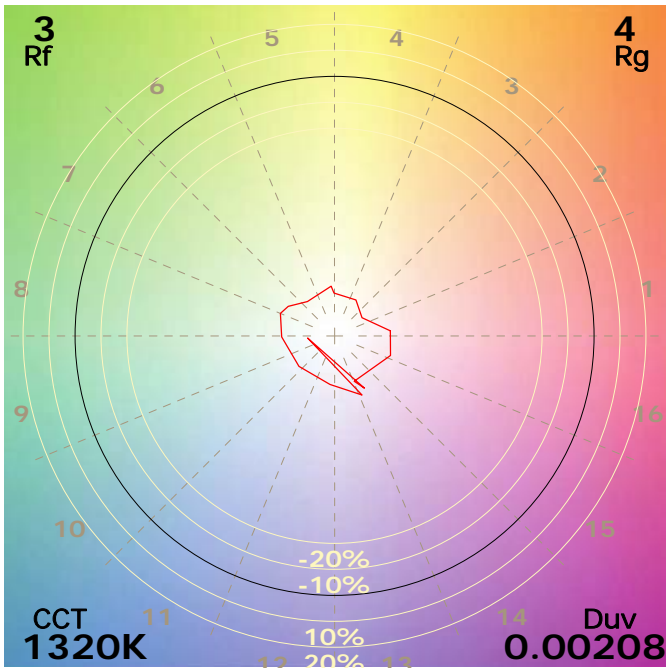
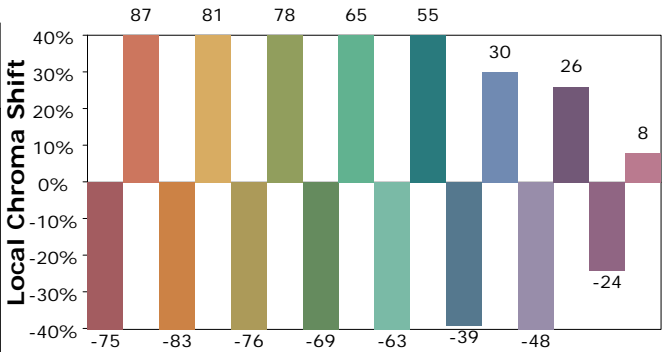
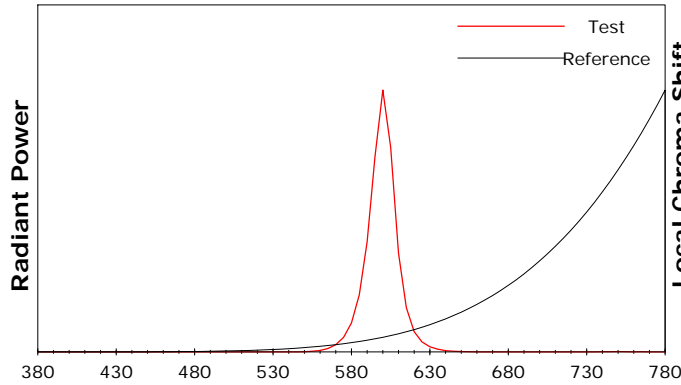
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IES TM-30-18 Color Rendition Report

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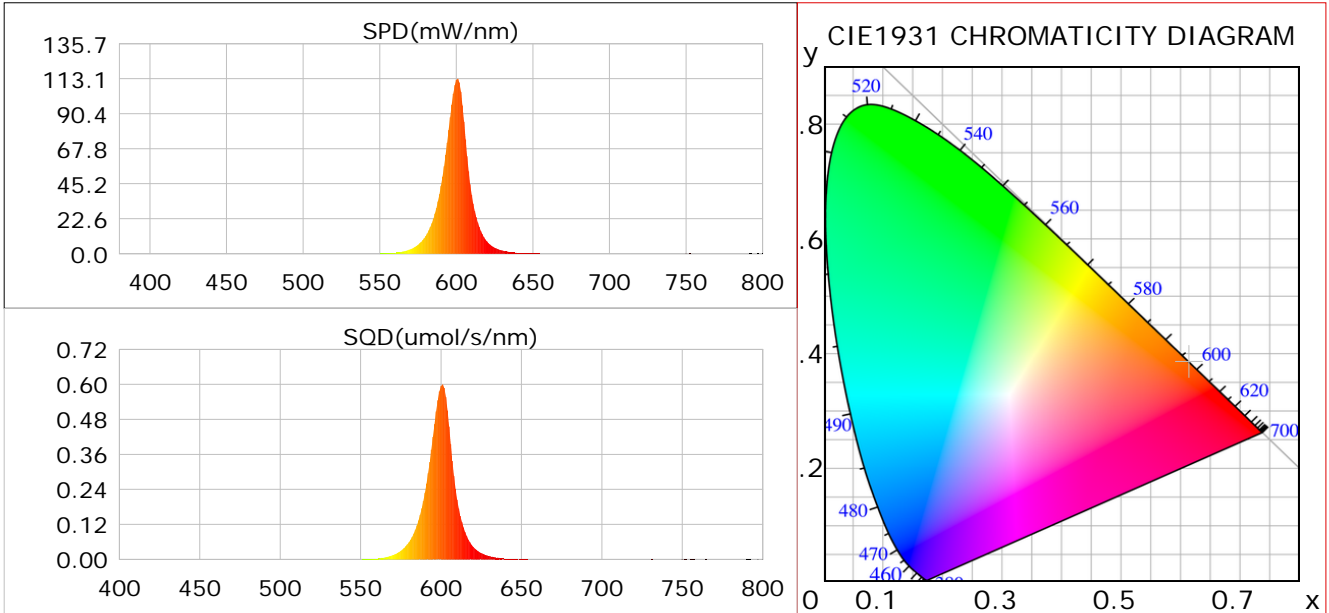
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Test Device: Lisun LMS-9000B
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Plant optical param data

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 Dominant Wavelength: 597.4nm Color Purity: 0.999
 CRI: $R_a=17.0$



Plant Optical Param

$ \mu_v(lm): 952.38$	$Q_v(lm.s): 952.38$
$ \mu_e, \dot{E}(W/nm): 2.20$	$Q_e(J): 2.20$
$ \mu_e(W): 2.19$	$ \mu_{fr}(W): 0.01$
$ \dot{C}_e: 0.13$	$ \dot{C}_{fr}: 0.00$
$PPE(\mu mol/s/w): 0.65$	$K_{fr}: 0.00$
$Erb_Ratio: 630.44$	$PPF(\mu mol/s): 10.99$
$PF_{uv}(360-400)(\mu mol/s): 0.00$	$PPF(400-500)(\mu mol/s): 0.01$
$PPF(500-600)(\mu mol/s): 5.83$	$PPF(600-700)(\mu mol/s): 5.15$
$PPF_{fr}(700-800)(\mu mol/s): 0.04$	$PPF.t(\mu mol): 10.99$
$ \mu_{ch-A.t}(J): 0.13$	$ \mu_{ch-A}(W): 0.13$
$ \mu_{ch-B.t}(J): 0.05$	$ \mu_{ch-B}(W): 0.05$
$ \mu_b.t(J): 0.00$	$ \mu_b(W): 0.00$
$ \mu_y.t(J): 1.18$	$ \mu_y(W): 1.18$
$ \mu_r.t(J): 1.13$	$ \mu_r(W): 1.13$

Electric Parameters

Voltage: 231.30V	Current: 0.0780A	Power: 16.99W
Power Factor: 0.9360	Frequency: 49.99Hz	

Condition: $T_x: 19.2^\circ C$, $T_i: 0.0^\circ C$, R.H.: 60%
 Test Lab:
 Operator: CRE

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