

Lightsource Test Report

Product Information

Product Category: LED-Röhre
 Product Spec: LEDtube-UVL-530-150-T8-25W
 Manufacturer: METOLIGHT
 Buyer: 8885

Product Type: LED-Röhre-UVL
 Product Number: 1
 Submitted Unit: 100273

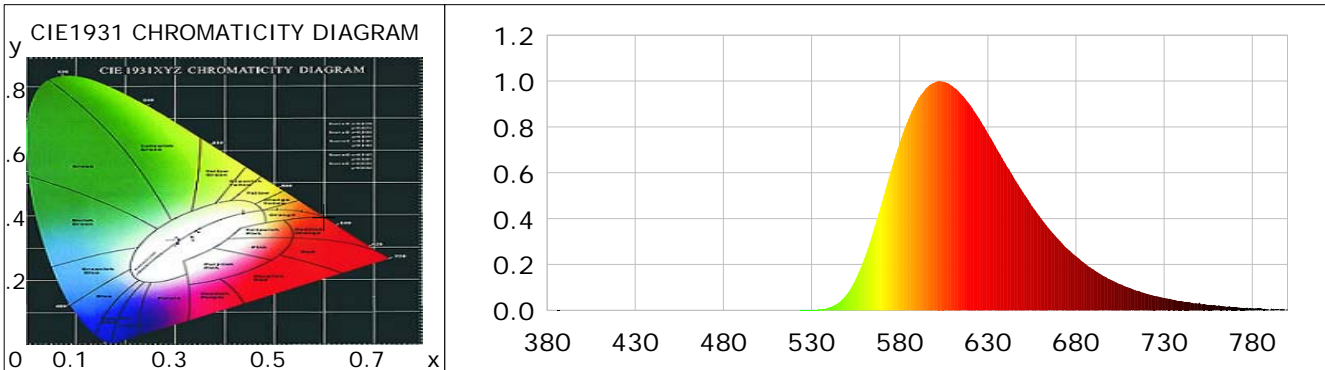
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.6010$ $y=0.3982$ $u(u')=0.3656$ $v=0.3633$ $v'=0.5449$
 CCT: $T_c=1446K$ ($duv=0.00319$) Color Ratio: $R=0.399$ $G=0.601$ $B=0.000$
 Peak Wavelength: 602.4nm Half Bandwidth: 80.3nm
 Dominant Wavelength: 594.7nm Color Purity: 0.999
 CRI: $R_a=33.6$, $avgR(1\sim14)=30.5$, $avgR(1\sim15)=29.7$ TM30: $R_f=16$, $R_g=3$
 GAI: $GAI_BB_8=0.7$, $GAI_BB_15=0.6$, $GAI_EES=0.0$

R1 =22	R2 =65	R3 =66	R4 =0	R5 =14	R6 =54	R7 =47	R8 =0
R9 =0	R10=42	R11=0	R12=13	R13=25	R14=80	R15=18	

Color Quality Scale: $Q_a=0.1$, $Q_f=0.2$, $Q_p=0.0$, $Q_g=0.9$

Q1 =38	Q2 =13	Q3 =0	Q4 =0	Q5 =0	Q6 =2	Q7 =21	Q8 =23
Q9 =0	Q10=0	Q11=0	Q12=0	Q13=0	Q14=0	Q15=3	



Photometric Parameters

Luminous Flux: 2422.2 lm	Efficiency: 98.30 lm/W	Radiant Power: 7.893 W
Total mains efficacy: 115.60 lm/W	Energy Efficiency Class: E (EU 2019/2015)	
Pupil Flux: 865.23 Plm	Pupil Lumens Per Watt: 35.11 Plm/W	Pupil Factor (Kp): 0.357
Cirtopic Flux: 516.90 lm		

Electric Parameters

Voltage: 230.40V	Current: 0.1110A	Power: 24.64W
Power Factor: 0.9590	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: 46401 (2626)	CCD Integration Time: 95.92 ms

Condition: $T_x=22.9^{\circ}C$, $T_i=0.0^{\circ}C$, R.H.: 60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-17 11:53:02
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0003	0.0309	525	0.0013	0.1207	670	0.3102	27.7616
385	0.0004	0.0328	530	0.0018	0.1625	675	0.2701	24.1716
390	0.0004	0.0376	535	0.0046	0.4143	680	0.2362	21.1398
395	0.0001	0.0053	540	0.0127	1.1351	685	0.2044	18.2973
400	0.0001	0.0083	545	0.0315	2.8193	690	0.1774	15.8771
405	0.0001	0.0113	550	0.0699	6.2527	695	0.1521	13.6178
410	0.0003	0.0238	555	0.1342	12.0106	700	0.1324	11.8527
415	0.0003	0.0236	560	0.2265	20.2731	705	0.1140	10.2051
420	0.0004	0.0396	565	0.3442	30.8089	710	0.0985	8.8139
425	0.0001	0.0088	570	0.4744	42.4625	715	0.0854	7.6399
430	0.0000	0.0024	575	0.6086	54.4755	720	0.0720	6.4418
435	0.0003	0.0261	580	0.7312	65.4418	725	0.0629	5.6316
440	0.0003	0.0227	585	0.8340	74.6478	730	0.0547	4.8995
445	0.0001	0.0049	590	0.9149	81.8876	735	0.0465	4.1589
450	0.0002	0.0187	595	0.9693	86.7534	740	0.0403	3.6066
455	0.0002	0.0200	600	0.9945	89.0171	745	0.0344	3.0832
460	0.0001	0.0099	605	0.9978	89.3085	750	0.0338	3.0278
465	0.0000	0.0000	610	0.9776	87.4958	755	0.0235	2.1032
470	0.0001	0.0108	615	0.9422	84.3294	760	0.0194	1.7396
475	0.0001	0.0075	620	0.8950	80.1051	765	0.0163	1.4609
480	0.0001	0.0051	625	0.8367	74.8902	770	0.0146	1.3062
485	0.0002	0.0213	630	0.7713	69.0364	775	0.0107	0.9573
490	0.0001	0.0064	635	0.7049	63.0938	780	0.0098	0.8812
495	0.0001	0.0116	640	0.6396	57.2444	785	0.0085	0.7611
500	0.0003	0.0309	645	0.5747	51.4357	790	0.0025	0.2282
505	0.0001	0.0106	650	0.5140	46.0068	795	0.0036	0.3245
510	0.0003	0.0245	655	0.4550	40.7241	800	0.0064	0.5754
515	0.0005	0.0407	660	0.4030	36.0717			
520	0.0004	0.0380	665	0.3532	31.6161			

Condition: Tx:22.9°C, Ti:0.0°C, R.H.:60%
 Test Lab:
 Operator: CRE

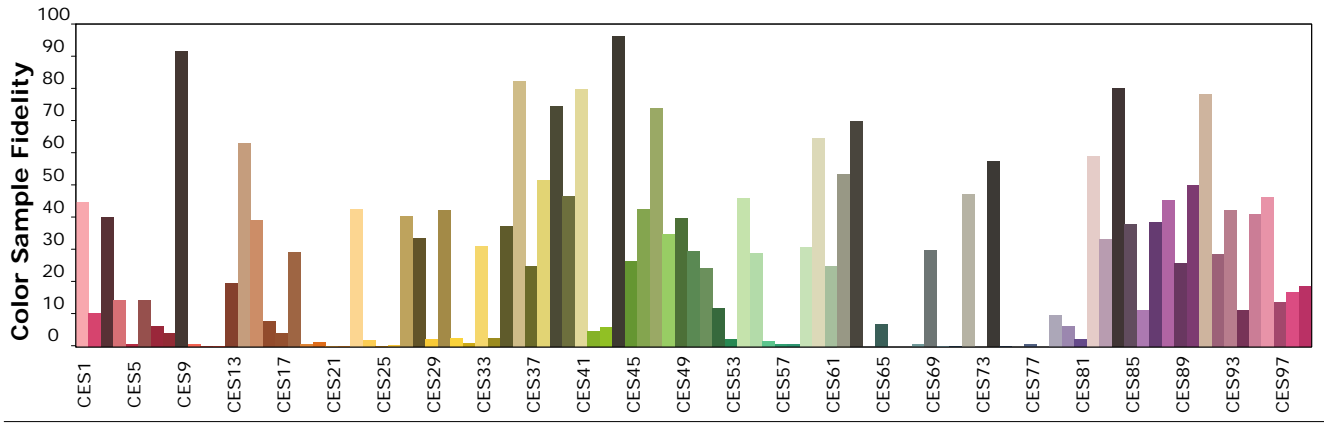
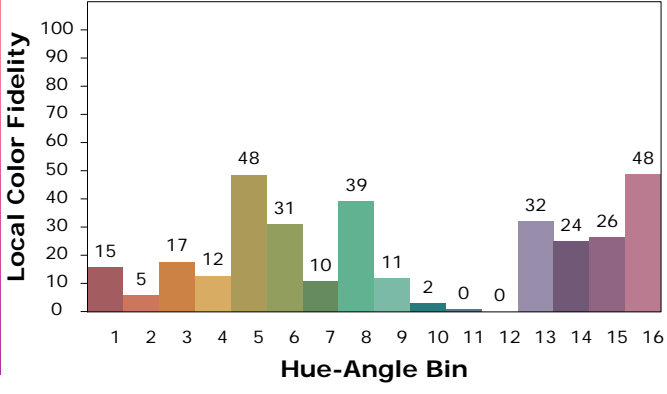
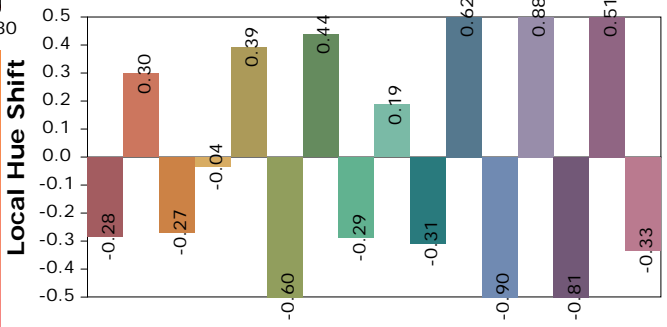
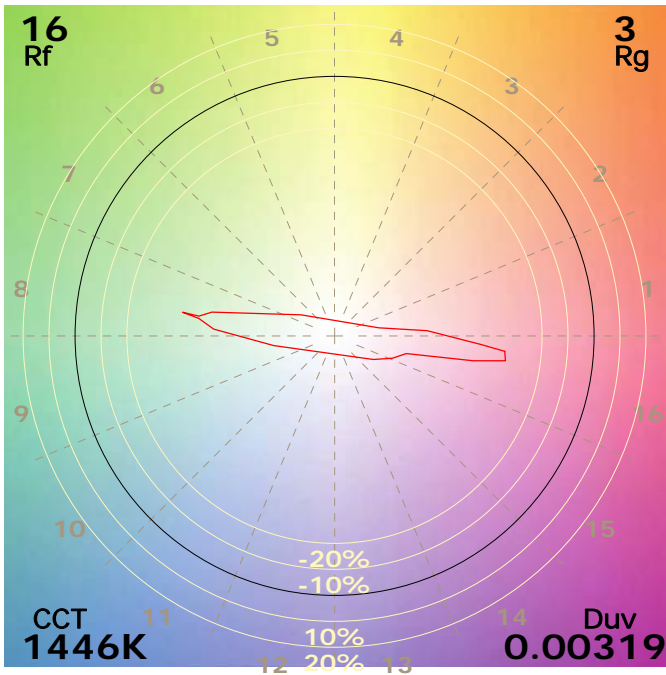
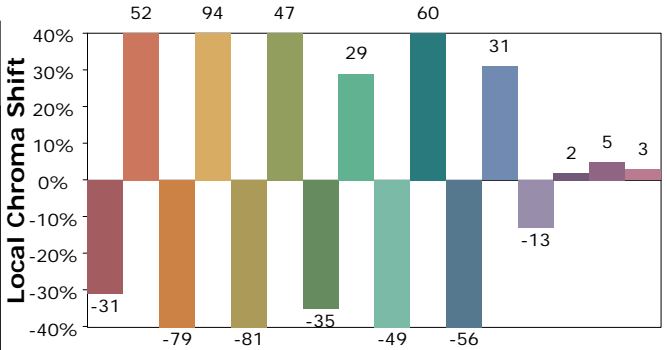
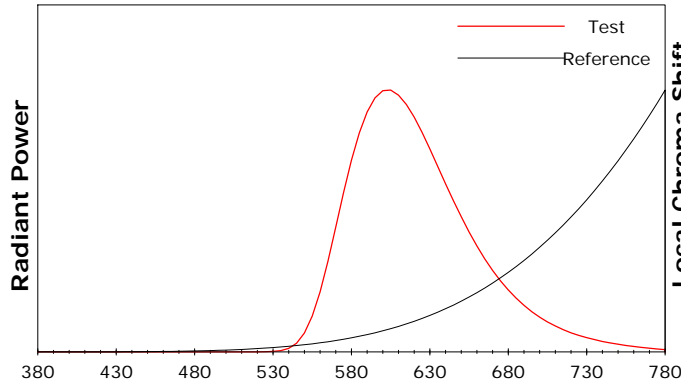
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IES TM-30-18 Color Rendition Report

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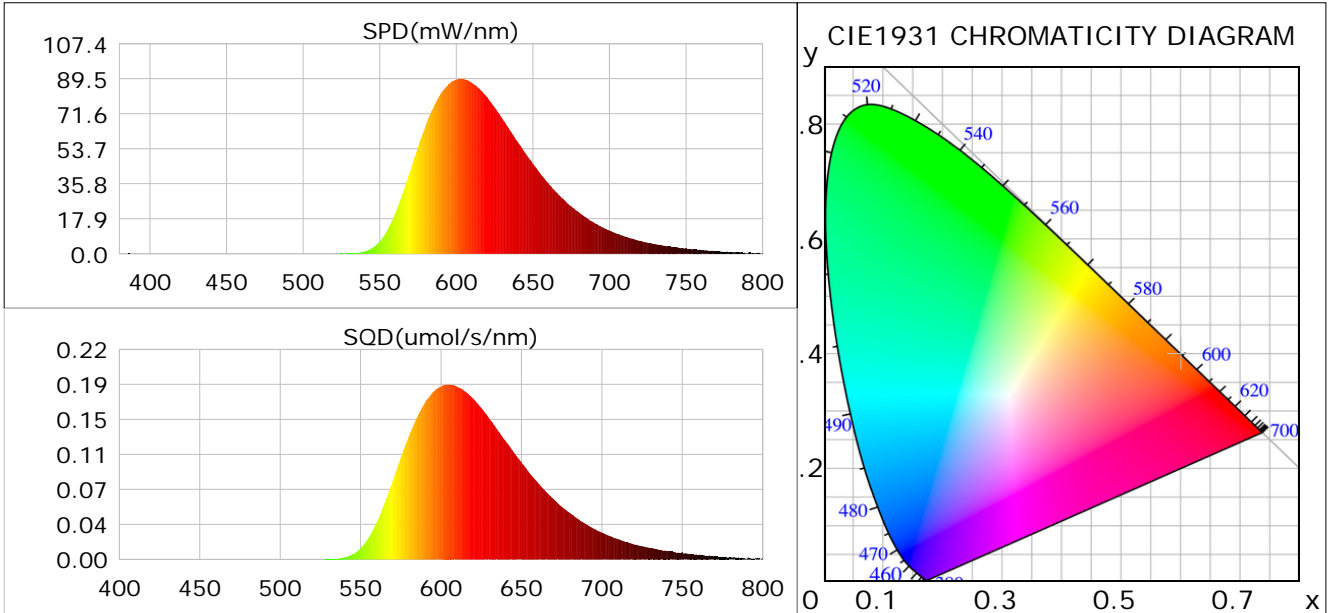
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Plant optical param data

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 CRI: $R_a=33.6$



Plant Optical Param

$ \mu_v(lm): 2422.16$	$Q_v(lm.s): 2422.16$
$ \mu_e, \dot{E}(W/nm): 7.89$	$Q_e(J): 7.89$
$ \mu_e(W): 7.54$	$ \mu_{fr}(W): 0.37$
$ \zeta_e: 0.31$	$ \zeta_{fr}: 0.02$
$PPE(umol/s/w): 1.58$	$K_{fr}: 0.09$
$Erb_Ratio: 3670.87$	$PPF(umol/s): 38.86$
$PF_{uv}(360-400)(umol/s): 0.00$	$PPF(400-500)(umol/s): 0.00$
$PPF(500-600)(umol/s): 12.97$	$PPF(600-700)(umol/s): 25.89$
$PPF_{fr}(700-800)(umol/s): 2.19$	$PPF.t(umol): 38.86$
$ \mu_{ch-A.t}(J): 0.66$	$ \mu_{ch-A}(W): 0.66$
$ \mu_{ch-B.t}(J): 0.23$	$ \mu_{ch-B}(W): 0.23$
$ \mu_b.t(J): 0.00$	$ \mu_b(W): 0.00$
$ \mu_y.t(J): 2.66$	$ \mu_y(W): 2.66$
$ \mu_r.t(J): 4.97$	$ \mu_r(W): 4.97$

Electric Parameters

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Power Factor: 0.9590	Frequency: 49.99Hz	

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