

Lightsource Test Report

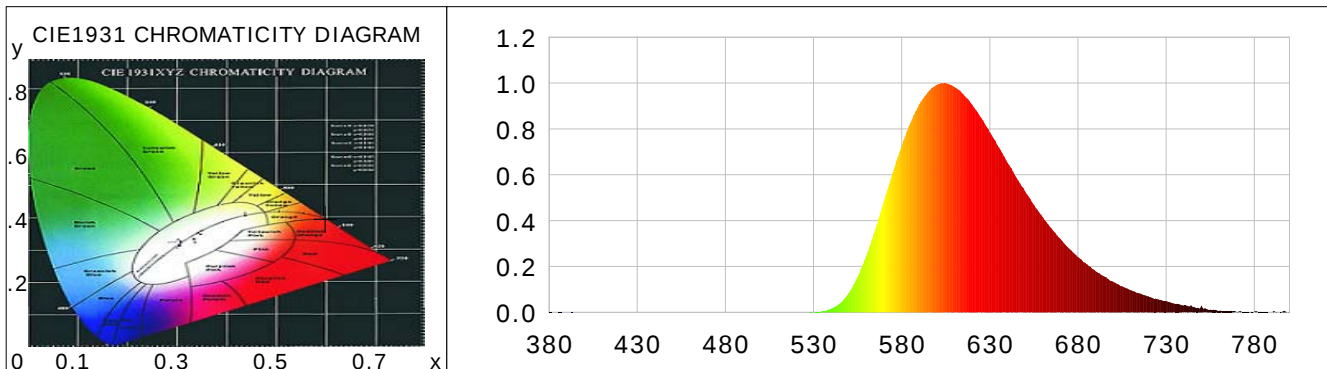
Product Information

Product Category: LED-Röhre
 Product Spec: LEDtube-UVL-530-055-T6-10W
 Manufacturer: METOLIGHT
 Buyer: 8885

Product Type: LED-Röhre-UVL
 Product Number: 1
 Submitted Unit: 101694

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.5998$ $y=0.3992$ $u(u')=0.3640$ $v=0.3634$ $v'=0.5451$
 CCT: $T_c=1457K$ ($duv=0.00327$) Color Ratio: $R=0.398$ $G=0.602$ $B=0.000$
 Peak Wavelength: 602.9nm Half Bandwidth: 81.9nm
 Dominant Wavelength: 594.5nm Color Purity: 0.998
 CRI: $R_a=34.7$, $avgR(1\sim14)=31.5$, $avgR(1\sim15)=30.7$ TM30: $R_f=18$, $R_g=7$
 GAI: $GAI_BB_8=1.3$, $GAI_BB_15=1.3$, $GAI_EES=0.1$
 R1 =24 R2 =66 R3 =69 R4 =1 R5 =16 R6 =54 R7 =48 R8 =0
 R9 =0 R10=42 R11=0 R12=13 R13=26 R14=81 R15=20
 Color Quality Scale: $Q_a=0.1$, $Q_f=0.2$, $Q_p=0.0$, $Q_g=1.8$
 Q1 =38 Q2 =15 Q3 =0 Q4 =0 Q5 =0 Q6 =2 Q7 =22 Q8 =24
 Q9 =0 Q10=0 Q11=0 Q12=0 Q13=0 Q14=0 Q15=4



Photometric Parameters

Luminous Flux: 1006.7 lm Efficiency: 102.00 lm/W Radiant Power: 3.262 W
 Total mains efficacy: 119.95 lm/W Energy Efficiency Class: E (EU 2019/2015)
 Pupil Flux: 366.91 Plm Pupil Lumens Per Watt: 37.17 Plm/W Pupil Factor (Kp): 0.364
 Cirtopic Flux: 223.10 lm

Electric Parameters

Voltage: 230.40V Current: 0.0450A Power: 9.87W
 Power Factor: 0.9330 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: 45868 (2517) CCD Integration Time: 216.92 ms

Condition: Tx:20.8'C, Ti:0.0'C, R.H.:60%
 Test Lab:
 Operator: CRE

Test Device: Lisun LMS-9000B
 Test Time: 2021-02-22 11:02:47
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0007	0.0267	525	0.0014	0.0502	670	0.3206	11.7705
385	0.0007	0.0265	530	0.0006	0.0237	675	0.2781	10.2078
390	0.0005	0.0189	535	0.0042	0.1545	680	0.2410	8.8480
395	0.0001	0.0054	540	0.0161	0.5913	685	0.2101	7.7129
400	0.0004	0.0147	545	0.0390	1.4334	690	0.1792	6.5790
405	0.0000	0.0018	550	0.0839	3.0782	695	0.1559	5.7249
410	0.0002	0.0070	555	0.1539	5.6515	700	0.1336	4.9029
415	0.0004	0.0142	560	0.2477	9.0922	705	0.1132	4.1550
420	0.0004	0.0155	565	0.3615	13.2716	710	0.0964	3.5404
425	0.0003	0.0119	570	0.4866	17.8650	715	0.0828	3.0414
430	0.0004	0.0149	575	0.6119	22.4620	720	0.0698	2.5621
435	0.0005	0.0175	580	0.7265	26.6683	725	0.0579	2.1248
440	0.0006	0.0216	585	0.8261	30.3258	730	0.0492	1.8057
445	0.0002	0.0055	590	0.9075	33.3160	735	0.0376	1.3789
450	0.0003	0.0111	595	0.9615	35.2979	740	0.0297	1.0906
455	0.0002	0.0078	600	0.9921	36.4214	745	0.0237	0.8716
460	0.0002	0.0068	605	0.9990	36.6746	750	0.0291	1.0667
465	0.0000	0.0001	610	0.9820	36.0489	755	0.0123	0.4511
470	0.0002	0.0072	615	0.9512	34.9192	760	0.0076	0.2796
475	0.0004	0.0147	620	0.9061	33.2626	765	0.0061	0.2245
480	0.0001	0.0036	625	0.8488	31.1598	770	0.0028	0.1019
485	0.0001	0.0030	630	0.7846	28.8034	775	0.0039	0.1449
490	0.0001	0.0032	635	0.7207	26.4579	780	0.0036	0.1308
495	0.0003	0.0101	640	0.6522	23.9429	785	0.0015	0.0548
500	0.0001	0.0038	645	0.5883	21.5977	790	0.0008	0.0301
505	0.0005	0.0176	650	0.5274	19.3604	795	0.0015	0.0540
510	0.0001	0.0024	655	0.4689	17.2151	800	0.0028	0.1035
515	0.0005	0.0168	660	0.4160	15.2716			
520	0.0003	0.0116	665	0.3652	13.4057			

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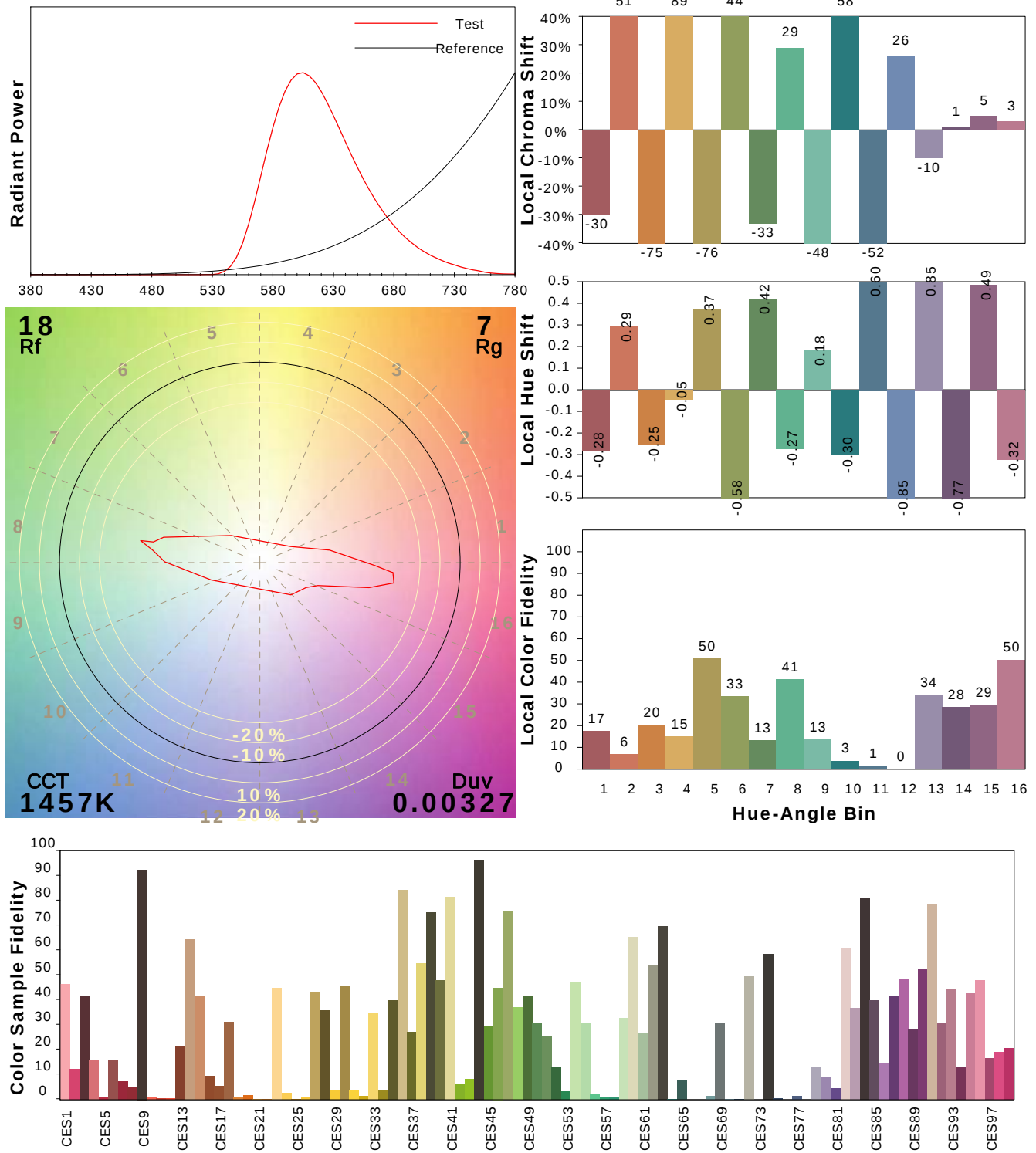
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IES TM-30-18 Color Rendition Report

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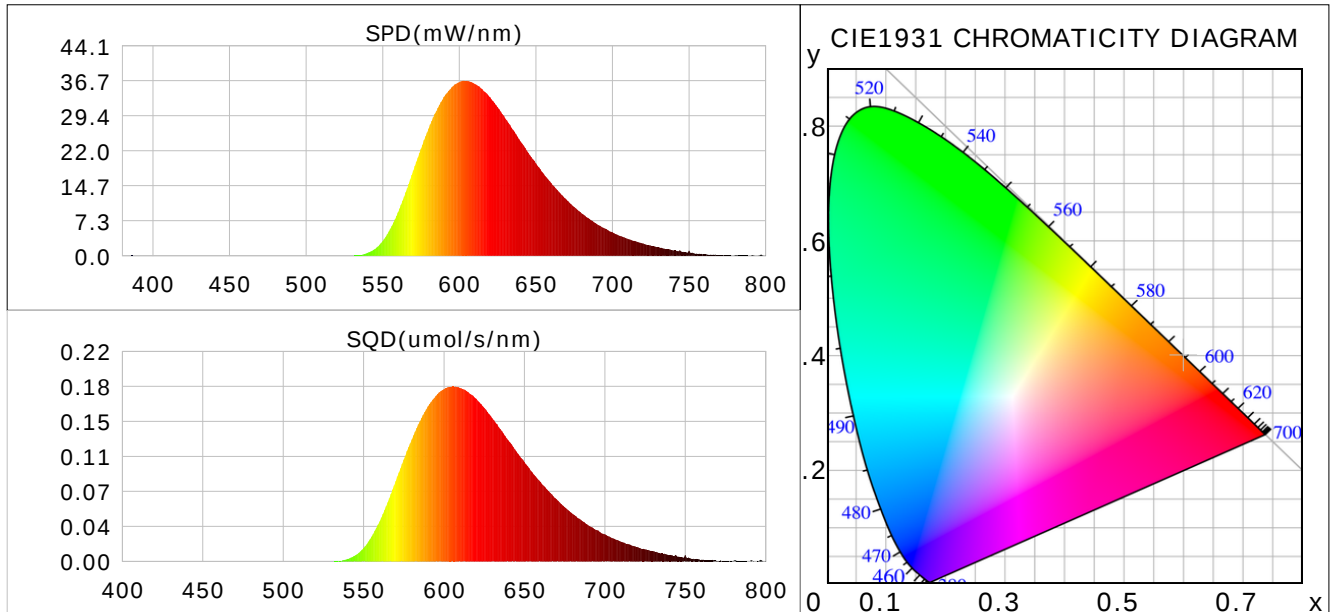
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Plant optical param data

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 CRI: Ra= 34.7



Plant Optical Param

$\mu_v(\text{lm})$: 1006.70	$Q_v(\text{lm.s})$: 1006.70
$\mu_e, \dot{E}(\text{W/nm})$: 3.26	$Q_e(\text{J})$: 3.26
$\mu_e(\text{W})$: 3.14	$\mu_{fr}(\text{W})$: 0.13
$\dot{C}_e$: 0.32	$\dot{C}_{fr}$: 0.01
$PPE(\mu\text{mol/s/w})$: 1.64	K_{fr} : 0.08
E_{rb_Ratio} : 1961.74	$PPF(\mu\text{mol/s})$: 16.18
$PF_{uv}(360-400)(\mu\text{mol/s})$: 0.00	$PPF(400-500)(\mu\text{mol/s})$: 0.00
$PPF(500-600)(\mu\text{mol/s})$: 5.38	$PPF(600-700)(\mu\text{mol/s})$: 10.80
$PF_{fr}(700-800)(\mu\text{mol/s})$: 0.75	$PPF.t(\mu\text{mol})$: 16.18
$\mu_{ch-A.t}(\text{J})$: 0.27	$\mu_{ch-A}(\text{W})$: 0.27
$\mu_{ch-B.t}(\text{J})$: 0.10	$\mu_{ch-B}(\text{W})$: 0.10
$\mu_{b.t}(\text{J})$: 0.00	$\mu_b(\text{W})$: 0.00
$\mu_{y.t}(\text{J})$: 1.11	$\mu_y(\text{W})$: 1.11
$\mu_{r.t}(\text{J})$: 2.07	$\mu_r(\text{W})$: 2.07

Electric Parameters

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