ASMETEC GmbH - Carl-Benz-Str. 4 - 67292 Kirchheimbolanden
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Lightsource Test Report

Product Infomation

Product Category: LED-Röhre
Product Type: LED-Röhre Spezial
Product Spec: LEDtube-060-8DWM-10W-CRI95
Product Number: 1
Manufacturer: METOLIGHT
Submitted Unit: 101109
Buyer: 4624

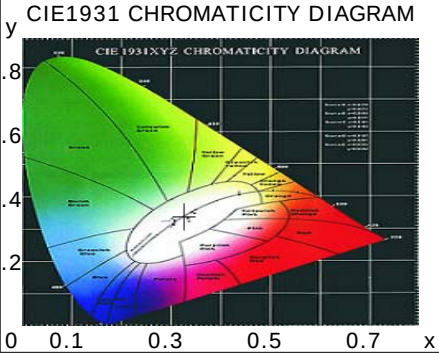
CIE Colorimetric Parameters

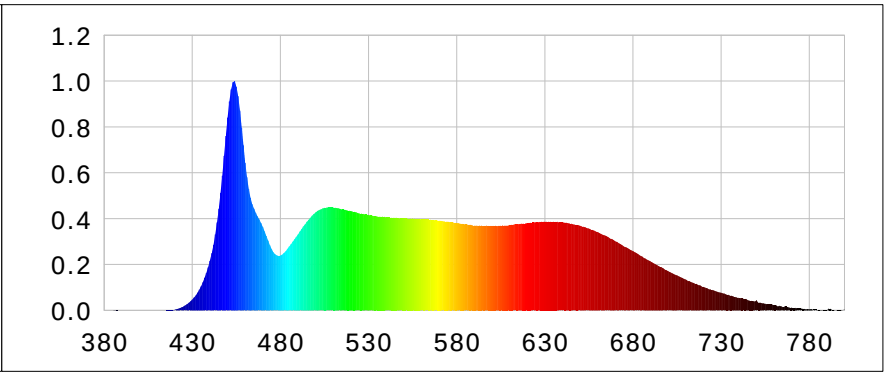
Chromaticity coordinates: x=0.3268 y=0.3410 u(u')=0.2030 v=0.3178 v'=0.4767
CCT: Tc=5756K (duv=0.00254)
Color Ratio: R=0.166 G=0.770 B=0.063
Peak Wavelength: 453.7nm
Half Bandwidth: 17.0nm
Dominant Wavelength: 519.8nm
Color Purity: 0.020
CRI: Ra= 97.7, avgR(1~14)= 95.6, avgR(1~15)= 95.6
TM30: Rf= 92, Rg= 100
GAI: GAI_BB_8=100.9, GAI_BB_15=105.0, GAI_EES=94.5

R1 =97	R2 =99	R3 =99	R4 =99	R5 =97	R6 =96	R7 =97	R8 =96
R9 =93	R10=98	R11=96	R12=72	R13=98	R14=99	R15=95	

Color Quality Scale: Qa= 95.9, Qf= 95.1, Qp= 97.0, Qg=100.8

Q1 =93	Q2 =99	Q3 =91	Q4 =91	Q5 =95	Q6 =99	Q7 =99	Q8 =100
Q9 =100	Q10=99	Q11=99	Q12=99	Q13=100	Q14=98	Q15=96	





Photometric Parameters

Luminous Flux: 1138.3 lm
Efficiency: 110.95 lm/W
Radiant Power: 4.250 W
Total mains efficacy: 130.47 lm/W
Energy Efficiency Class: E (EU 2019/2015)
Pupil Flux: 2198.91 Plm
Pupil Lumens Per Watt: 214.32 Plm/W
Pupil Factor (Kp): 1.932
Cirtopic Flux: 5127.88 lm

Electric Parameters

Voltage: 230.90V
Current: 0.0480A
Power: 10.26W
Power Factor: 0.9250
Frequency: 49.99Hz

Test Infomation
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: 47045 (2211)
CCD Integration Time: 181.15 ms

Condition: Tx:16.8'C, Ti:0.0'C, R.H.:60%
Test Device: Lisun LMS-9000B
Test Lab:
Test Time: 2021-01-06 14:16:15
Operator: CRE
Inspector:

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Product Number: 1
Manufacturer: METOLIGHT
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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0005	0.0194	525	0.4217	16.6518	670	0.3010	11.8864
385	0.0008	0.0298	530	0.4161	16.4324	675	0.2785	10.9991
390	0.0005	0.0178	535	0.4093	16.1652	680	0.2587	10.2171
395	0.0002	0.0087	540	0.4061	16.0374	685	0.2354	9.2944
400	0.0005	0.0186	545	0.4039	15.9522	690	0.2131	8.4141
405	0.0004	0.0140	550	0.4017	15.8654	695	0.1910	7.5434
410	0.0004	0.0173	555	0.4013	15.8460	700	0.1706	6.7363
415	0.0012	0.0457	560	0.3971	15.6811	705	0.1523	6.0127
420	0.0038	0.1499	565	0.3956	15.6243	710	0.1344	5.3073
425	0.0171	0.6770	570	0.3915	15.4601	715	0.1171	4.6238
430	0.0468	1.8491	575	0.3870	15.2844	720	0.1023	4.0407
435	0.1050	4.1447	580	0.3815	15.0650	725	0.0887	3.5046
440	0.2161	8.5327	585	0.3742	14.7769	730	0.0773	3.0508
445	0.4435	17.5131	590	0.3699	14.6080	735	0.0648	2.5601
450	0.8410	33.2127	595	0.3677	14.5209	740	0.0545	2.1518
455	0.9766	38.5666	600	0.3683	14.5438	745	0.0450	1.7774
460	0.6442	25.4392	605	0.3688	14.5628	750	0.0435	1.7184
465	0.4434	17.5103	610	0.3726	14.7139	755	0.0289	1.1394
470	0.3644	14.3889	615	0.3758	14.8405	760	0.0226	0.8932
475	0.2674	10.5586	620	0.3812	15.0521	765	0.0145	0.5713
480	0.2388	9.4324	625	0.3850	15.2045	770	0.0120	0.4743
485	0.2789	11.0137	630	0.3869	15.2806	775	0.0086	0.3400
490	0.3314	13.0889	635	0.3863	15.2557	780	0.0048	0.1891
495	0.3863	15.2544	640	0.3842	15.1742	785	0.0023	0.0908
500	0.4278	16.8941	645	0.3779	14.9243	790	0.0014	0.0542
505	0.4474	17.6665	650	0.3692	14.5821	795	0.0011	0.0438
510	0.4486	17.7142	655	0.3572	14.1050	800	0.0046	0.1825
515	0.4399	17.3714	660	0.3416	13.4886			
520	0.4332	17.1076	665	0.3239	12.7894			

Condition: Tx:16.8'C, Ti:0.0'C, R.H.:60%
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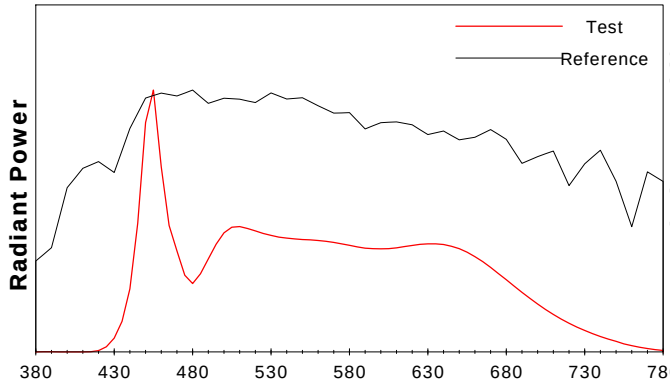
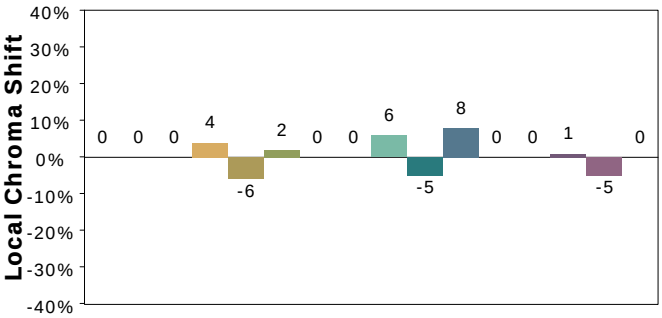
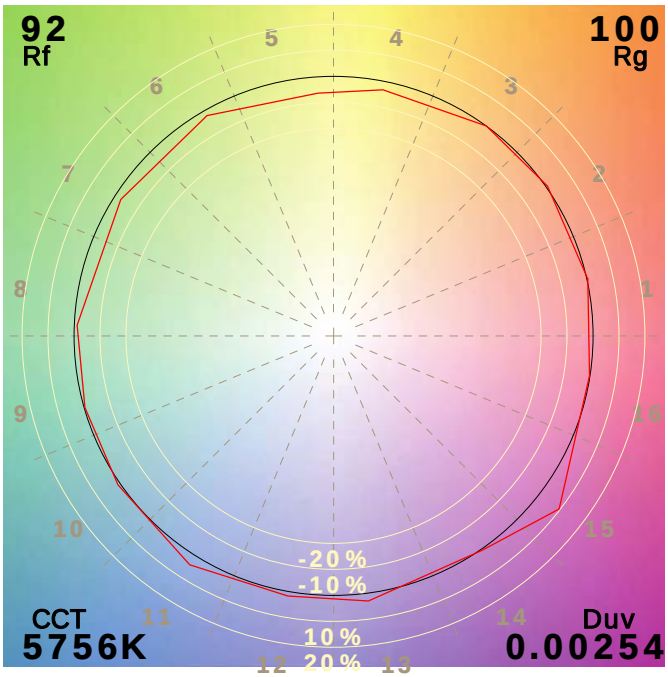
IES TM-30-18 Color Rendition Report

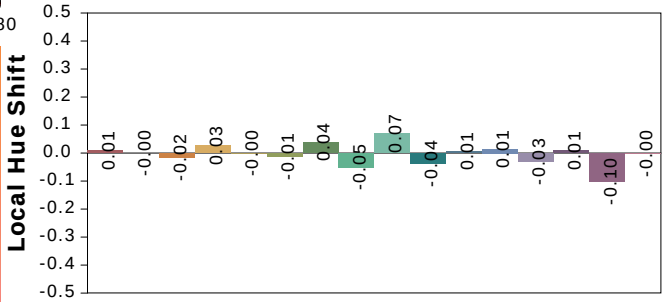
Product Infomation

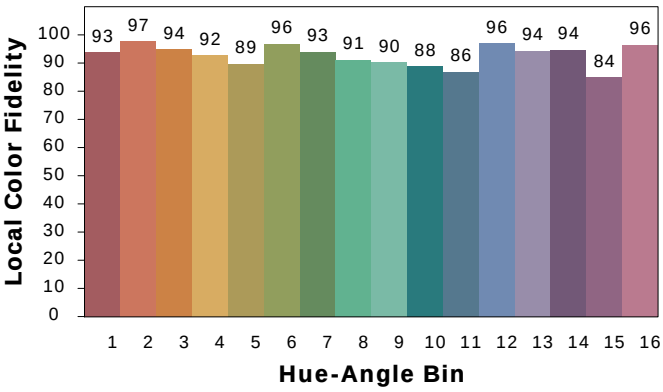
Product Category: LED-Röhre
Product Type: LED-Röhre Spezial
Product Spec: LEDtube-060-8DWM-10W-CRI95
Product Number: 1
Manufacturer: METOLIGHT
Submitted Unit: 101109
Buyer: 4624

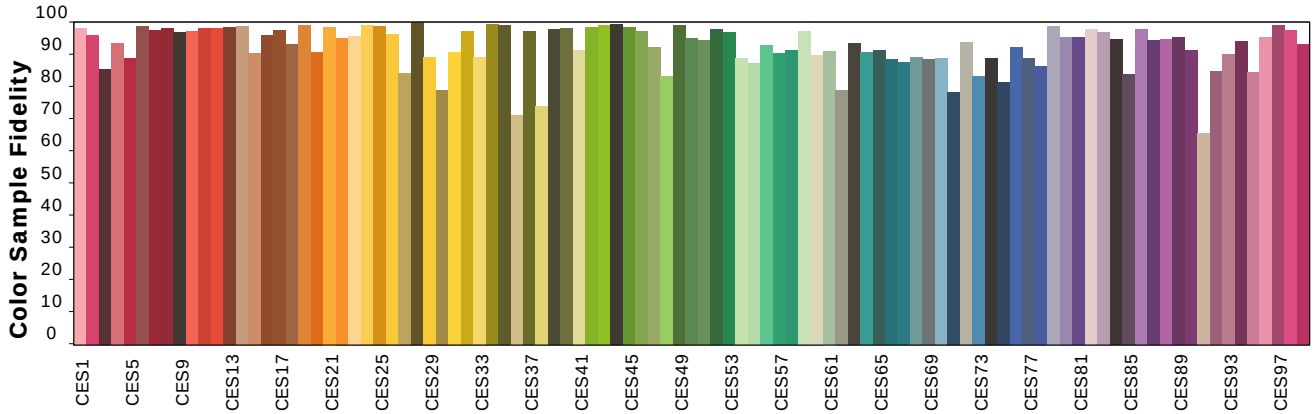












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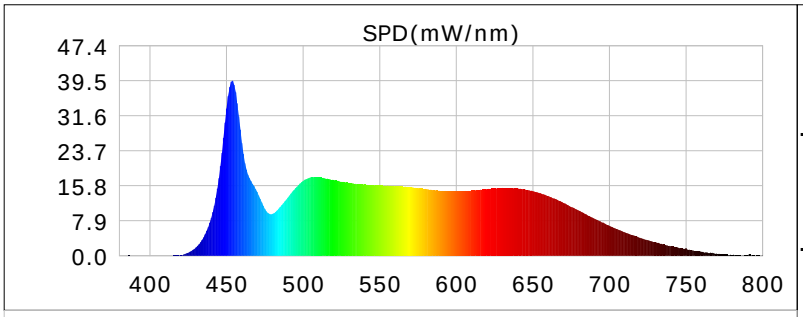
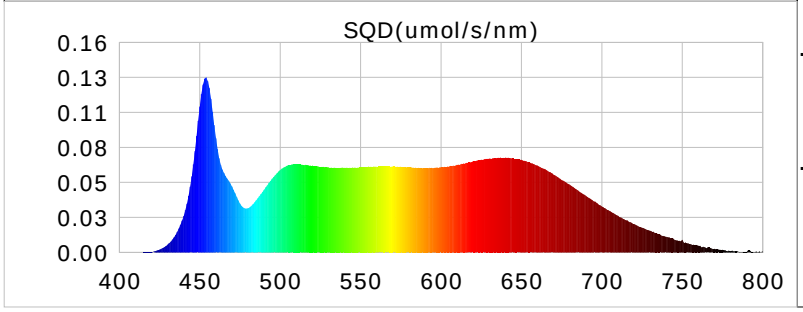
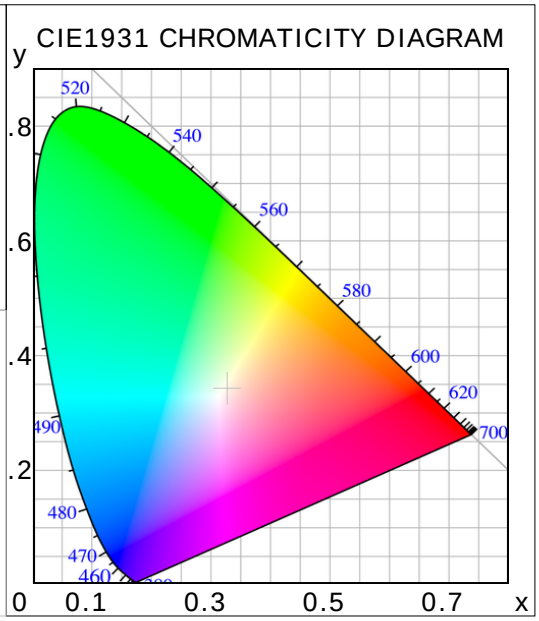
Plant optical param data

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.3268 y=0.3410 u(u')=0.2030 v=0.3178 v'=0.4767
CCT: Tc=5756K (duv=0.00254) Color Ratio: R=0.166 G=0.770 B=0.063
Peak Wavelength: 453.7nm Half Bandwidth: 17.0nm
Dominant Wavelength: 519.8nm Color Purity: 0.020
CRI: Ra= 97.7







Plant Optical Param

¦µv(lm): 1138.31 Qv(lm.s): 1138.31
¦µe,¦Ë(W/nm): 4.25 Qe(J): 4.25
¦µe(W): 4.05 ¦µfr(W): 0.21
¦Çe: 0.39 ¦Çfr: 0.02
PPE(umol/s/w): 1.83 Kfr: 0.12
Erb_Ratio: 1.11 PPF(umol/s): 18.78
PFuv(360-400)(umol/s): 0.00 PPF(400-500)(umol/s): 4.49
PPF(500-600)(umol/s): 7.33 PPF(600-700)(umol/s): 6.96
PFfr(700-800)(umol/s): 1.25 PPF.t(umol): 18.78
¦µch-A.t(J): 0.34 ¦µch-A(W): 0.34
¦µch-B.t(J): 0.22 ¦µch-B(W): 0.22
¦µb.t(J): 1.16 ¦µb(W): 1.16
¦µy.t(J): 1.61 ¦µy(W): 1.61
¦µr.t(J): 1.30 ¦µr(W): 1.30

Electric Parameters

Voltage: 230.90V Current: 0.0480A Power: 10.26W
Power Factor: 0.9250 Frequency: 49.99Hz

Condition: Tx:16.8'C, Ti:0.0'C, R.H.:60% Test Device: Lisun LMS-9000B
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