

Lightsource Test Report

Product Infomation

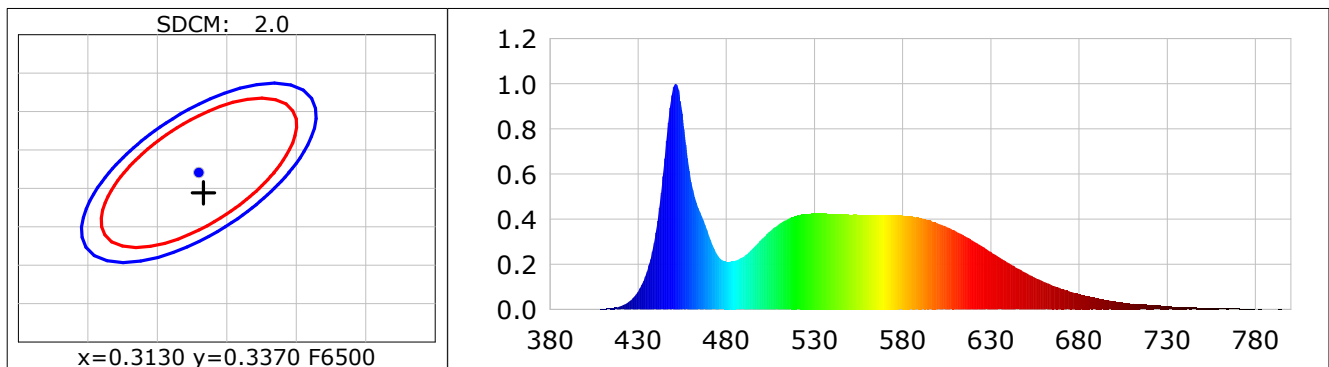
Product Type: HL01-500W

Product Number: 11

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3133$ $y=0.3344$ $u(u')=0.1963$ $v=0.3142$ $v'=0.4713$
 CCT: $T_c=6434K$ ($duv=0.00562$) Color Ratio: $R=0.134$ $G=0.810$ $B=0.056$
 Peak Wavelength: 451.3nm Half Bandwidth: 19.3nm
 Dominant Wavelength: 492.4nm Color Purity: 0.067
 Central Wave: 452.4nm Gravity Wave: 451.9nm
 CRI: $R_a=83.4$, $avgR(1\sim14)=75.9$, $avgR(1\sim15)=75.9$ TM30: $R_f=83$, $R_g=94$
 GAI: $GAI_BB_8=89.4$, $GAI_BB_15=94.9$, $GAI_EES=87.0$

R1 =81	R2 =88	R3 =92	R4 =83	R5 =82	R6 =83	R7 =88	R8 =69
R9 =5	R10=71	R11=83	R12=56	R13=84	R14=96	R15=76	TLCI=68
Color Quality Scale: $Q_a=82.1$, $Q_f=82.1$, $Q_p=82.1$, $Q_g=91.3$							
Q1 =83	Q2 =99	Q3 =79	Q4 =74	Q5 =80	Q6 =83	Q7 =86	Q8 =90
Q9 =97	Q10=88	Q11=85	Q12=84	Q13=83	Q14=71	Q15=76	



Photometric Parameters

Luminous Flux: 3450.7 lm Efficiency: 0.00 lm/W Radiant Power: 10.947 W
 Total mains efficacy: 0.00 lm/W Energy Efficiency Class: G (EU 2019/2015)
 Melanin Flux: 4.056 W M/R: 0.9779 MDER: 0.8899

Electric Parameters

Voltage: 0.00V Current: 0.0000A Power: 0.00W
 Power Factor: 0.0000 Frequency: 0.00Hz

Test Infomation

Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
 Stabilization Time: 0 ms ALC.: 1.0000 Photometric Condition: Sphere diameter: 1.50m, 4T
 Max of Signal: 46222 (2339) CCD Integration Time: 22.00 ms

Condition: $T_x:23.6^{\circ}C$, $T_i:23.5^{\circ}C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: CMS-2S (Plus)
 Test Time: 2025-12-05 10:21:21
 Auditor:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0013	0.1611	535	0.4248	52.2265	690	0.0494	6.0680
385	0.0006	0.0746	540	0.4245	52.1852	695	0.0422	5.1903
390	0.0012	0.1502	545	0.4219	51.8635	700	0.0365	4.4815
395	0.0005	0.0606	550	0.4187	51.4684	705	0.0299	3.6732
400	0.0010	0.1212	555	0.4191	51.5187	710	0.0255	3.1312
405	0.0007	0.0802	560	0.4188	51.4837	715	0.0213	2.6152
410	0.0018	0.2217	565	0.4197	51.6011	720	0.0182	2.2353
415	0.0056	0.6882	570	0.4172	51.2917	725	0.0166	2.0424
420	0.0147	1.8101	575	0.4187	51.4704	730	0.0138	1.7025
425	0.0359	4.4075	580	0.4147	50.9839	735	0.0104	1.2736
430	0.0802	9.8617	585	0.4099	50.3958	740	0.0088	1.0879
435	0.1698	20.8739	590	0.4050	49.7852	745	0.0077	0.9444
440	0.3416	41.9925	595	0.3951	48.5664	750	0.0053	0.6508
445	0.6706	82.4438	600	0.3811	46.8554	755	0.0048	0.5904
450	0.9858	121.1948	605	0.3658	44.9742	760	0.0039	0.4754
455	0.8693	106.8742	610	0.3474	42.7037	765	0.0050	0.6134
460	0.5669	69.6976	615	0.3273	40.2407	770	0.0029	0.3590
465	0.4325	53.1758	620	0.3029	37.2363	775	0.0024	0.2939
470	0.3297	40.5365	625	0.2804	34.4750	780	0.0017	0.2132
475	0.2409	29.6203	630	0.2558	31.4435	785	0.0009	0.1132
480	0.2114	25.9879	635	0.2301	28.2857	790	0.0016	0.1938
485	0.2162	26.5801	640	0.2064	25.3772	795	0.0022	0.2679
490	0.2354	28.9406	645	0.1827	22.4549	800	0.0022	0.2719
495	0.2699	33.1790	650	0.1622	19.9435			
500	0.3113	38.2680	655	0.1412	17.3620			
505	0.3480	42.7838	660	0.1233	15.1616			
510	0.3789	46.5761	665	0.1061	13.0423			
515	0.4006	49.2495	670	0.0920	11.3104			
520	0.4144	50.9465	675	0.0793	9.7457			
525	0.4220	51.8828	680	0.0680	8.3571			
530	0.4255	52.3120	685	0.0582	7.1588			

Condition: Tx:23.6'C, Ti:23.5'C, R.H.:60%
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