

Lightsource Test Report

Product Infomation

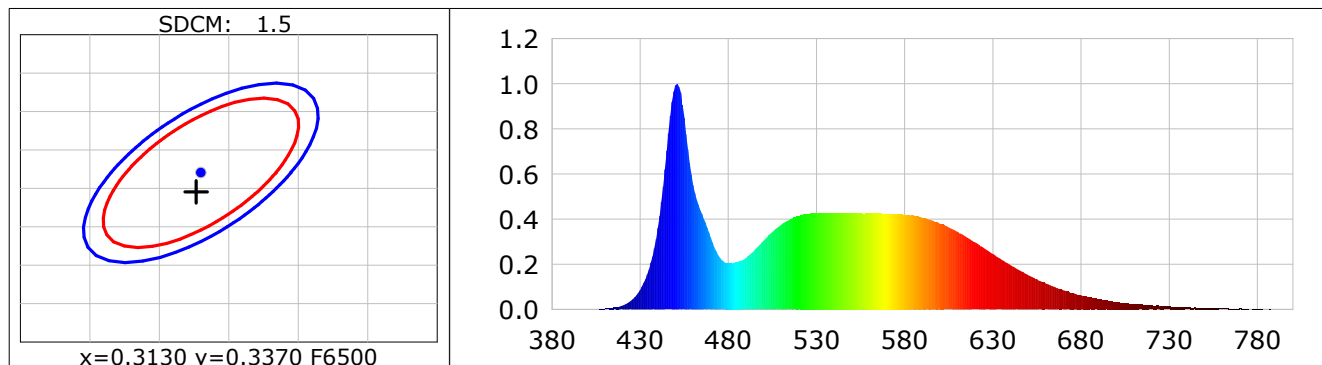
Product Type: HB-500W

Product Number: 10

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3127$ $y=0.3345$ $u(u')=0.1957$ $v=0.3142$ $v'=0.4712$
 CCT: $T_c=6468K$ ($duv=0.00602$) Color Ratio: $R=0.131$ $G=0.814$ $B=0.054$
 Peak Wavelength: 450.8nm Half Bandwidth: 19.3nm
 Dominant Wavelength: 492.5nm Color Purity: 0.069
 Central Wave: 452.0nm Gravity Wave: 451.6nm
 CRI: $R_a=82.0$, $avgR(1\sim14)=73.9$, $avgR(1\sim15)=73.9$ TM30: $R_f=82$, $R_g=94$
 GAI: $GAI_BB_8=88.4$, $GAI_BB_15=94.0$, $GAI_EES=86.1$

R1 =80	R2 =87	R3 =91	R4 =82	R5 =81	R6 =82	R7 =87	R8 =67
R9 =-3	R10=68	R11=81	R12=55	R13=82	R14=96	R15=74	TLCI=64
Color Quality Scale: $Q_a=80.8$, $Q_f=80.9$, $Q_p=80.8$, $Q_g=90.5$							
Q1 =82	Q2 =99	Q3 =78	Q4 =72	Q5 =79	Q6 =82	Q7 =85	Q8 =89
Q9 =97	Q10=87	Q11=83	Q12=82	Q13=82	Q14=68	Q15=74	



Photometric Parameters

Luminous Flux: 2373.7 lm Efficiency: 0.00 lm/W Radiant Power: 7.470 W
 Total mains efficacy: 0.00 lm/W Energy Efficiency Class: G (EU 2019/2015)
 Melanin Flux: 2.765 W M/R: 0.9692 MDER: 0.8820

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: 52667 (2323) CCD Integration Time: 36.56 ms

Condition: Tx:23.4'C, Ti:24.3'C, R.H.:60%
 Test Lab:
 Operator:

Test Device: CMS-2S (Plus)
 Test Time: 2025-12-23 09:19:13
 Auditor:

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Product Information

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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	0.1109	535	0.4275	36.0778	690	0.0455	3.8354
385	0.0007	0.0578	540	0.4267	36.0091	695	0.0387	3.2634
390	0.0010	0.0834	545	0.4261	35.9533	700	0.0329	2.7738
395	0.0005	0.0388	550	0.4248	35.8429	705	0.0283	2.3870
400	0.0009	0.0722	555	0.4248	35.8495	710	0.0238	2.0056
405	0.0011	0.0931	560	0.4253	35.8909	715	0.0203	1.7136
410	0.0029	0.2480	565	0.4251	35.8749	720	0.0161	1.3624
415	0.0072	0.6104	570	0.4240	35.7749	725	0.0138	1.1646
420	0.0178	1.5025	575	0.4224	35.6409	730	0.0114	0.9618
425	0.0401	3.3813	580	0.4193	35.3811	735	0.0098	0.8279
430	0.0875	7.3810	585	0.4147	34.9974	740	0.0081	0.6829
435	0.1800	15.1894	590	0.4069	34.3390	745	0.0074	0.6220
440	0.3604	30.4133	595	0.3959	33.4114	750	0.0056	0.4724
445	0.7047	59.4623	600	0.3801	32.0777	755	0.0043	0.3668
450	0.9939	83.8694	605	0.3643	30.7429	760	0.0030	0.2544
455	0.8503	71.7493	610	0.3438	29.0080	765	0.0028	0.2367
460	0.5529	46.6596	615	0.3217	27.1495	770	0.0032	0.2721
465	0.4254	35.9002	620	0.2968	25.0450	775	0.0019	0.1637
470	0.3198	26.9861	625	0.2716	22.9220	780	0.0018	0.1511
475	0.2314	19.5283	630	0.2463	20.7814	785	0.0011	0.0923
480	0.2043	17.2364	635	0.2210	18.6521	790	0.0008	0.0662
485	0.2099	17.7116	640	0.1961	16.5459	795	0.0005	0.0398
490	0.2297	19.3816	645	0.1736	14.6527	800	0.0006	0.0483
495	0.2639	22.2714	650	0.1519	12.8146			
500	0.3055	25.7835	655	0.1335	11.2613			
505	0.3443	29.0553	660	0.1155	9.7463			
510	0.3760	31.7281	665	0.0997	8.4138			
515	0.3989	33.6608	670	0.0860	7.2600			
520	0.4133	34.8746	675	0.0736	6.2077			
525	0.4222	35.6228	680	0.0628	5.2986			
530	0.4263	35.9751	685	0.0533	4.4993			

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