

Lightsource Test Report

Product Infomation

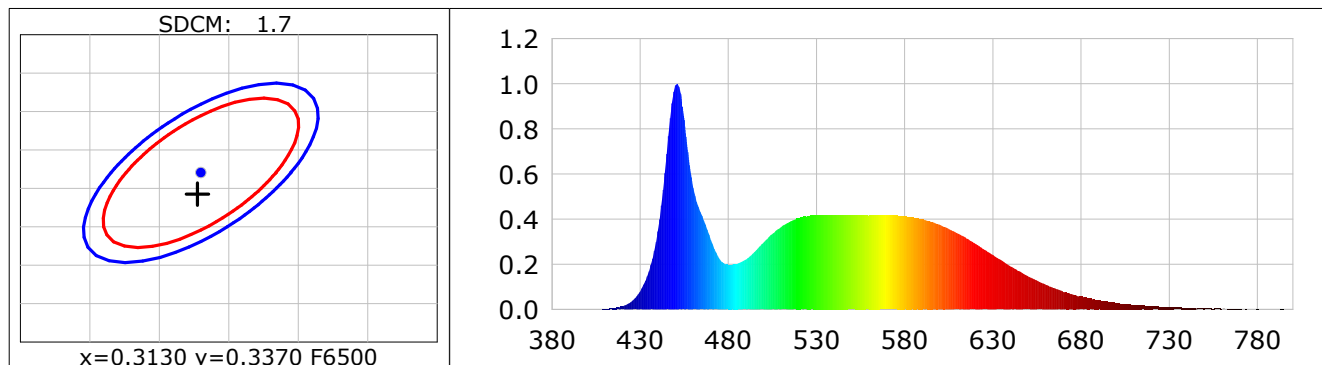
Product Type: HB-200W

Product Number: 7

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3127$ $y=0.3342$ $u(u')=0.1959$ $v=0.3141$ $v'=0.4711$
 CCT: $T_c=6464K$ ($duv=0.00584$) Color Ratio: $R=0.131$ $G=0.814$ $B=0.054$
 Peak Wavelength: 450.8nm Half Bandwidth: 18.7nm
 Dominant Wavelength: 492.3nm Color Purity: 0.069
 Central Wave: 451.9nm Gravity Wave: 451.6nm
 CRI: $R_a=81.9$, $avgR(1\sim14)=73.7$, $avgR(1\sim15)=73.7$ TM30: $R_f=82$, $R_g=94$
 GAI: $GAI_BB_8=88.5$, $GAI_BB_15=94.1$, $GAI_EES=86.2$

R1 =80	R2 =87	R3 =91	R4 =82	R5 =80	R6 =82	R7 =87	R8 =67
R9 =-4	R10=68	R11=81	R12=54	R13=82	R14=95	R15=74	TLCI=63
Color Quality Scale: $Q_a=80.6$, $Q_f=80.7$, $Q_p=80.6$, $Q_g=90.5$							
Q1 =82	Q2 =98	Q3 =77	Q4 =72	Q5 =79	Q6 =81	Q7 =85	Q8 =89
Q9 =97	Q10=87	Q11=83	Q12=82	Q13=82	Q14=68	Q15=74	



Photometric Parameters

Luminous Flux: 1038.5 lm Efficiency: 0.00 lm/W Radiant Power: 3.254 W
 Total mains efficacy: 0.00 lm/W Energy Efficiency Class: G (EU 2019/2015)
 Melanin Flux: 1.209 W M/R: 0.9683 MDER: 0.8812

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: 46681 (2345) CCD Integration Time: 72.48 ms

Condition: $T_x:23.3^{\circ}C$, $T_i:24.2^{\circ}C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: CMS-2S (Plus)
 Test Time: 2025-12-23 09:15:32
 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	0.0505	535	0.4166	15.7175	690	0.0408	1.5380
385	0.0013	0.0486	540	0.4173	15.7431	695	0.0341	1.2870
390	0.0008	0.0287	545	0.4177	15.7562	700	0.0286	1.0796
395	0.0005	0.0193	550	0.4152	15.6633	705	0.0239	0.9009
400	0.0008	0.0299	555	0.4162	15.7011	710	0.0206	0.7772
405	0.0005	0.0170	560	0.4170	15.7329	715	0.0162	0.6093
410	0.0019	0.0716	565	0.4156	15.6793	720	0.0135	0.5090
415	0.0055	0.2063	570	0.4153	15.6658	725	0.0106	0.4002
420	0.0140	0.5266	575	0.4155	15.6737	730	0.0088	0.3331
425	0.0344	1.2975	580	0.4114	15.5217	735	0.0078	0.2949
430	0.0805	3.0360	585	0.4058	15.3094	740	0.0053	0.2013
435	0.1708	6.4437	590	0.3994	15.0664	745	0.0061	0.2307
440	0.3463	13.0626	595	0.3883	14.6492	750	0.0046	0.1753
445	0.6896	26.0152	600	0.3745	14.1299	755	0.0026	0.0997
450	0.9936	37.4846	605	0.3572	13.4748	760	0.0027	0.1024
455	0.8406	31.7125	610	0.3372	12.7195	765	0.0020	0.0740
460	0.5411	20.4121	615	0.3157	11.9108	770	0.0022	0.0843
465	0.4156	15.6794	620	0.2911	10.9836	775	0.0006	0.0233
470	0.3106	11.7177	625	0.2654	10.0127	780	0.0032	0.1196
475	0.2240	8.4511	630	0.2420	9.1288	785	0.0009	0.0341
480	0.1978	7.4628	635	0.2173	8.1974	790	0.0002	0.0065
485	0.2026	7.6413	640	0.1911	7.2100	795	0.0021	0.0776
490	0.2218	8.3677	645	0.1692	6.3821	800	0.0004	0.0135
495	0.2561	9.6631	650	0.1474	5.5598			
500	0.2967	11.1932	655	0.1287	4.8548			
505	0.3356	12.6587	660	0.1096	4.1354			
510	0.3662	13.8149	665	0.0938	3.5404			
515	0.3891	14.6800	670	0.0793	2.9910			
520	0.4046	15.2643	675	0.0669	2.5234			
525	0.4129	15.5763	680	0.0565	2.1306			
530	0.4163	15.7044	685	0.0484	1.8255			

Condition: Tx:23.3'C, Ti:24.2'C, R.H.:60%
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