

## Lightsource Test Report

### Product Infomation

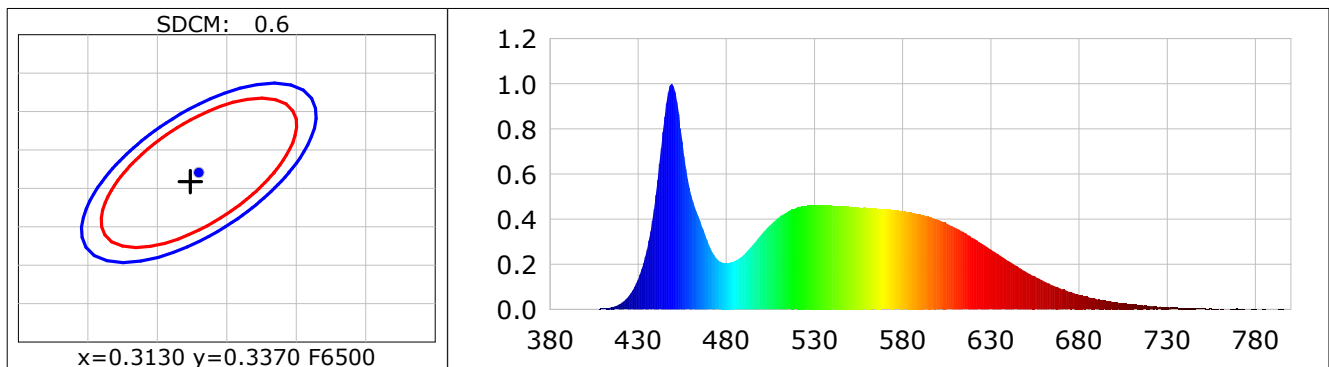
Product Type: HB-100W

Product Number: 6

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3124$   $y=0.3359$   $u(u')=0.1951$   $v=0.3146$   $v'=0.4719$   
 CCT:  $T_c=6474K$  ( $duv=0.00682$ ) Color Ratio:  $R=0.131$   $G=0.816$   $B=0.052$   
 Peak Wavelength: 449.0nm Half Bandwidth: 20.4nm  
 Dominant Wavelength: 493.3nm Color Purity: 0.069  
 Central Wave: 450.1nm Gravity Wave: 449.7nm  
 CRI:  $R_a=81.9$ ,  $avgR(1\sim14)=74.0$ ,  $avgR(1\sim15)=74.0$  TM30:  $R_f=83$ ,  $R_g=95$   
 GAI:  $GAI\_BB\_8=89.2$ ,  $GAI\_BB\_15=94.2$ ,  $GAI\_EES=87.0$   

R1 =80	R2 =85	R3 =90	R4 =83	R5 =81	R6 =81	R7 =88	R8 =69
R9 =-0	R10=65	R11=82	R12=57	R13=81	R14=95	R15=74	TLCI=66
Color Quality Scale: $Q_a=81.8$ , $Q_f=81.7$ , $Q_p=82.3$ , $Q_g=91.6$							
Q1 =84	Q2 =98	Q3 =78	Q4 =75	Q5 =81	Q6 =83	Q7 =86	Q8 =90
Q9 =96	Q10=86	Q11=83	Q12=83	Q13=83	Q14=69	Q15=75	



### Photometric Parameters

Luminous Flux: 611.14 lm Efficiency: 0.00 lm/W Radiant Power: 1.921 W  
 Total mains efficacy: 0.00 lm/W Energy Efficiency Class: G (EU 2019/2015)  
 Melanin Flux: 0.702 W M/R: 0.9553 MDER: 0.8694

### 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: 44732 (2393) CCD Integration Time: 128.81 ms

Condition:  $T_x:23.3^{\circ}C$ ,  $T_i:24.1^{\circ}C$ , R.H.:60%  
 Test Lab:  
 Operator:

Test Device: CMS-2S (Plus)  
 Test Time: 2025-12-23 09:13:54  
 Auditor:

## Lightsource Test Report

### Product Infomation

Product Type: HB-100W

Product Number: 6

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0017	0.0340	535	0.4615	9.4586	690	0.0458	0.9393
385	0.0021	0.0431	540	0.4614	9.4563	695	0.0395	0.8086
390	0.0016	0.0327	545	0.4569	9.3641	700	0.0321	0.6580
395	0.0003	0.0062	550	0.4546	9.3166	705	0.0270	0.5526
400	0.0006	0.0118	555	0.4526	9.2766	710	0.0227	0.4652
405	0.0005	0.0104	560	0.4492	9.2061	715	0.0172	0.3531
410	0.0036	0.0731	565	0.4468	9.1567	720	0.0140	0.2863
415	0.0100	0.2057	570	0.4425	9.0692	725	0.0107	0.2190
420	0.0264	0.5402	575	0.4393	9.0034	730	0.0091	0.1855
425	0.0625	1.2801	580	0.4342	8.8987	735	0.0074	0.1517
430	0.1342	2.7494	585	0.4285	8.7816	740	0.0063	0.1298
435	0.2678	5.4884	590	0.4201	8.6099	745	0.0057	0.1176
440	0.5076	10.4022	595	0.4110	8.4231	750	0.0030	0.0623
445	0.8551	17.5240	600	0.3974	8.1451	755	0.0033	0.0677
450	0.9908	20.3069	605	0.3804	7.7971	760	0.0013	0.0266
455	0.7434	15.2359	610	0.3609	7.3963	765	0.0009	0.0174
460	0.5075	10.4008	615	0.3405	6.9784	770	0.0037	0.0761
465	0.3931	8.0564	620	0.3157	6.4705	775	0.0008	0.0172
470	0.2886	5.9156	625	0.2916	5.9770	780	0.0038	0.0775
475	0.2215	4.5392	630	0.2659	5.4502	785	0.0029	0.0584
480	0.2064	4.2304	635	0.2405	4.9296	790	0.0002	0.0037
485	0.2159	4.4247	640	0.2150	4.4071	795	0.0034	0.0687
490	0.2439	4.9983	645	0.1920	3.9343	800	0.0007	0.0143
495	0.2861	5.8625	650	0.1668	3.4192			
500	0.3335	6.8347	655	0.1465	3.0021			
505	0.3751	7.6876	660	0.1252	2.5666			
510	0.4094	8.3912	665	0.1069	2.1909			
515	0.4342	8.8993	670	0.0921	1.8868			
520	0.4511	9.2451	675	0.0780	1.5988			
525	0.4581	9.3889	680	0.0648	1.3271			
530	0.4615	9.4582	685	0.0554	1.1357			

Condition: Tx:23.3'C, Ti:24.1'C, R.H.:60%  
 Test Lab:  
 Operator:

Test Device: CMS-2S (Plus)  
 Test Time: 2025-12-23 09:13:54  
 Auditor: