

## Lightsource Test Report

### Product Infomation

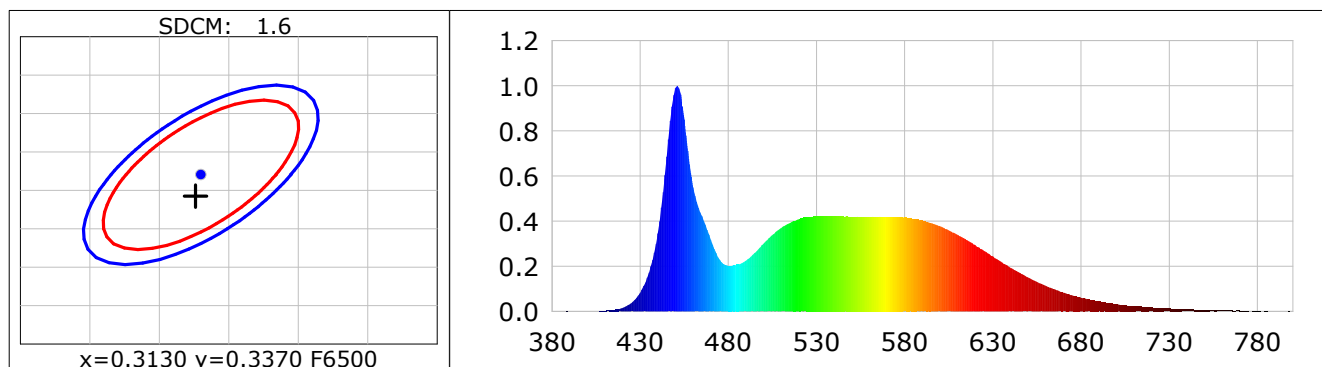
Product Type: HB-300W

Product Number: 8

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3126$   $y=0.3342$   $u(u')=0.1958$   $v=0.3141$   $v'=0.4711$   
 CCT:  $T_c=6472K$  ( $duv=0.00590$ ) Color Ratio:  $R=0.131$   $G=0.814$   $B=0.055$   
 Peak Wavelength: 451.0nm Half Bandwidth: 19.0nm  
 Dominant Wavelength: 492.3nm Color Purity: 0.069  
 Central Wave: 452.0nm Gravity Wave: 451.7nm  
 CRI:  $R_a=82.1$ ,  $avgR(1\sim14)=74.0$ ,  $avgR(1\sim15)=74.0$  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 =81	R6 =82	R7 =87	R8 =67
R9 =-3	R10=69	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 =81	Q7 =85	Q8 =89
Q9 =97	Q10=87	Q11=83	Q12=82	Q13=82	Q14=68	Q15=74	



### Photometric Parameters

Luminous Flux: 1312.0 lm Efficiency: 0.00 lm/W Radiant Power: 4.130 W  
 Total mains efficacy: 0.00 lm/W Energy Efficiency Class: G (EU 2019/2015)  
 Melanin Flux: 1.531 W M/R: 0.9708 MDER: 0.8834

### 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: 49665 (2341) CCD Integration Time: 61.60 ms

Condition:  $T_x:23.4^{\circ}C$ ,  $T_i:24.2^{\circ}C$ , R.H.:60%  
 Test Lab:  
 Operator:

Test Device: CMS-2S (Plus)  
 Test Time: 2025-12-23 09:16:44  
 Auditor:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0007	0.0314	535	0.4224	19.9409	690	0.0443	2.0905
385	0.0015	0.0729	540	0.4220	19.9243	695	0.0371	1.7539
390	0.0010	0.0455	545	0.4204	19.8451	700	0.0319	1.5066
395	0.0002	0.0112	550	0.4180	19.7330	705	0.0269	1.2721
400	0.0008	0.0386	555	0.4197	19.8157	710	0.0237	1.1197
405	0.0008	0.0367	560	0.4196	19.8097	715	0.0187	0.8816
410	0.0028	0.1330	565	0.4190	19.7833	720	0.0156	0.7380
415	0.0066	0.3126	570	0.4188	19.7737	725	0.0131	0.6187
420	0.0162	0.7627	575	0.4182	19.7454	730	0.0114	0.5388
425	0.0380	1.7947	580	0.4150	19.5941	735	0.0101	0.4787
430	0.0834	3.9377	585	0.4086	19.2898	740	0.0076	0.3611
435	0.1739	8.2079	590	0.4028	19.0176	745	0.0067	0.3173
440	0.3469	16.3766	595	0.3918	18.4967	750	0.0056	0.2644
445	0.6872	32.4434	600	0.3775	17.8222	755	0.0036	0.1711
450	0.9912	46.7963	605	0.3598	16.9865	760	0.0039	0.1837
455	0.8523	40.2354	610	0.3394	16.0236	765	0.0036	0.1710
460	0.5511	26.0188	615	0.3182	15.0244	770	0.0033	0.1556
465	0.4234	19.9905	620	0.2939	13.8738	775	0.0018	0.0851
470	0.3195	15.0845	625	0.2694	12.7205	780	0.0017	0.0812
475	0.2302	10.8694	630	0.2440	11.5206	785	0.0015	0.0725
480	0.2020	9.5356	635	0.2188	10.3319	790	0.0009	0.0442
485	0.2076	9.8008	640	0.1940	9.1594	795	0.0010	0.0469
490	0.2263	10.6815	645	0.1723	8.1339	800	0.0004	0.0189
495	0.2596	12.2577	650	0.1507	7.1149			
500	0.3016	14.2395	655	0.1313	6.1971			
505	0.3398	16.0400	660	0.1138	5.3707			
510	0.3702	17.4796	665	0.0983	4.6393			
515	0.3927	18.5405	670	0.0840	3.9649			
520	0.4089	19.3030	675	0.0723	3.4138			
525	0.4160	19.6394	680	0.0620	2.9265			
530	0.4207	19.8631	685	0.0521	2.4617			

Condition: Tx:23.4'C, Ti:24.2'C, R.H.:60%  
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