

Lightsource Test Report

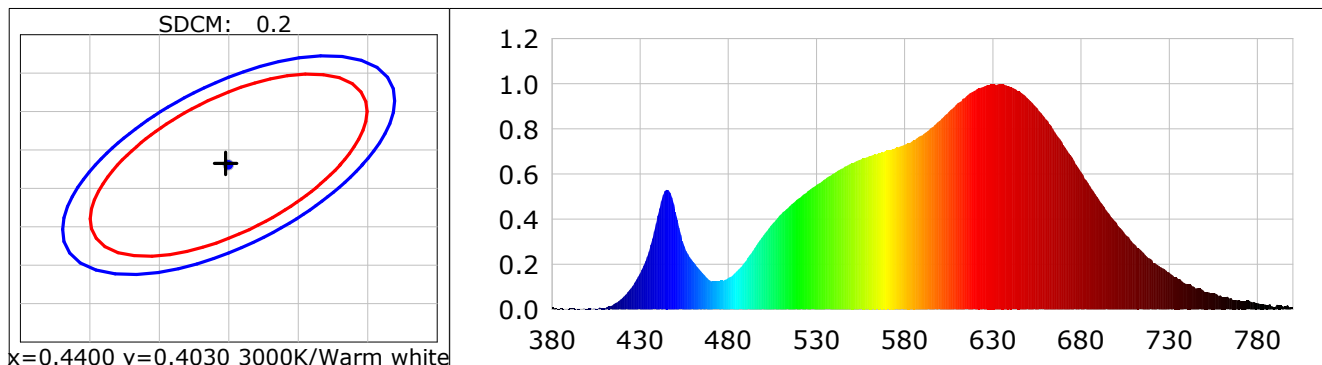
Product Information

Product Type: WA-ARDEN-1001-BRI3090-36D-BK Product Spec: WA-ARDEN-1001-BRI3090-36D-BK
Product Number: 50

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4398$ $y=0.4032$ $u(u')=0.2528$ $v=0.3477$ $v'=0.5215$
CCT: $T_c=2946K$ ($duv=-0.00071$) Color Ratio: $R=0.248$ $G=0.730$ $B=0.022$
Peak Wavelength: 633.9nm Half Bandwidth: 167.6nm
Dominant Wavelength: 583.3nm Color Purity: 0.530
Central Wave: 605.1nm Gravity Wave: 614.8nm
CRI: $R_a=92.4$, $avgR(1\sim14)=90.1$, $avgR(1\sim15)=90.3$ TM30: $R_f=89$, $R_g=105$
GAI: $GAI_BB_8=106.1$, $GAI_BB_15=106.5$, $GAI_EES=59.3$

R1 =95	R2 =94	R3 =90	R4 =93	R5 =93	R6 =91	R7 =93	R8 =91
R9 =77	R10=83	R11=93	R12=80	R13=94	R14=93	R15=93	TLCI=85
Color Quality Scale: $Q_a=89.6$, $Q_f=89.5$, $Q_p=94.3$, $Q_g=101.6$							
Q1 =88	Q2 =97	Q3 =86	Q4 =89	Q5 =88	Q6 =84	Q7 =85	Q8 =92
Q9 =95	Q10=90	Q11=92	Q12=93	Q13=95	Q14=92	Q15=90	



Photometric Parameters

Luminous Flux: 607.27 lm	Efficiency: 55.87 lm/W	Radiant Power: 2.198 W
Total mains efficacy: 55.87 lm/W	Energy Efficiency Class: G (EU 2019/2015)	
Pupil Flux: 766.04 Plm	Pupil Lumens Per Watt: 70.47 Plm/W	Pupil Factor (Kp): 1.261
Cirtpic Flux: 1368.18 lm	Melanin Flux: 0.365 W M/R: 0.5006	MDER: 0.4555

Electric Parameters

Voltage: 220.70V	Current: 0.0510A	Power: 10.87W
Power Factor: 0.9660	Frequency: 50.00Hz	

Test Information

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 Min ALC.: 1.0000	Photometric Condition: Sphere diameter: 1.50m, 4T
Max of Signal: 44467 (3885)	CCD Integration Time: 329.53 ms

Condition: $T_x:33.3^{\circ}C$, $T_i:30.5^{\circ}C$, R.H.:60%
Test Lab:
Operator:

Test Device: CMS-2S (Plus)
Test Time: 2024-07-08 09:03:14
Inspector:

Lightsource Test Report

Product Infomation

Product Type: WA-ARDEN-1001-BRI3090-36D-BK Product Spec: WA-ARDEN-1001-BRI3090-36D-BK
Product Number: 50

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0081	0.1030	535	0.5774	7.2983	690	0.4899	6.1926
385	0.0055	0.0692	540	0.6042	7.6364	695	0.4322	5.4630
390	0.0035	0.0436	545	0.6260	7.9124	700	0.3847	4.8626
395	0.0031	0.0389	550	0.6487	8.1998	705	0.3344	4.2266
400	0.0022	0.0272	555	0.6648	8.4034	710	0.2901	3.6667
405	0.0027	0.0336	560	0.6796	8.5895	715	0.2543	3.2142
410	0.0053	0.0668	565	0.6912	8.7367	720	0.2205	2.7869
415	0.0241	0.3043	570	0.7026	8.8808	725	0.1888	2.3863
420	0.0513	0.6490	575	0.7167	9.0586	730	0.1644	2.0785
425	0.0959	1.2122	580	0.7299	9.2257	735	0.1362	1.7216
430	0.1610	2.0350	585	0.7506	9.4872	740	0.1123	1.4191
435	0.2593	3.2770	590	0.7726	9.7652	745	0.0930	1.1756
440	0.4159	5.2568	595	0.8053	10.1790	750	0.0772	0.9763
445	0.5305	6.7054	600	0.8381	10.5934	755	0.0696	0.8801
450	0.4338	5.4829	605	0.8755	11.0665	760	0.0557	0.7045
455	0.2798	3.5364	610	0.9138	11.5495	765	0.0512	0.6477
460	0.2121	2.6809	615	0.9456	11.9521	770	0.0403	0.5098
465	0.1643	2.0769	620	0.9705	12.2670	775	0.0405	0.5120
470	0.1276	1.6127	625	0.9876	12.4828	780	0.0291	0.3673
475	0.1233	1.5580	630	0.9977	12.6108	785	0.0212	0.2679
480	0.1392	1.7593	635	0.9971	12.6035	790	0.0102	0.1284
485	0.1709	2.1603	640	0.9845	12.4443	795	0.0126	0.1598
490	0.2162	2.7323	645	0.9660	12.2103	800	0.0087	0.1101
495	0.2737	3.4592	650	0.9342	11.8074			
500	0.3298	4.1679	655	0.8936	11.2943			
505	0.3801	4.8039	660	0.8432	10.6582			
510	0.4237	5.3549	665	0.7869	9.9458			
515	0.4594	5.8070	670	0.7302	9.2297			
520	0.4928	6.2290	675	0.6725	8.4996			
525	0.5235	6.6164	680	0.6095	7.7035			
530	0.5518	6.9750	685	0.5467	6.9097			

Condition: Tx:33.3'C, Ti:30.5'C, R.H.:60%
Test Lab:
Operator:

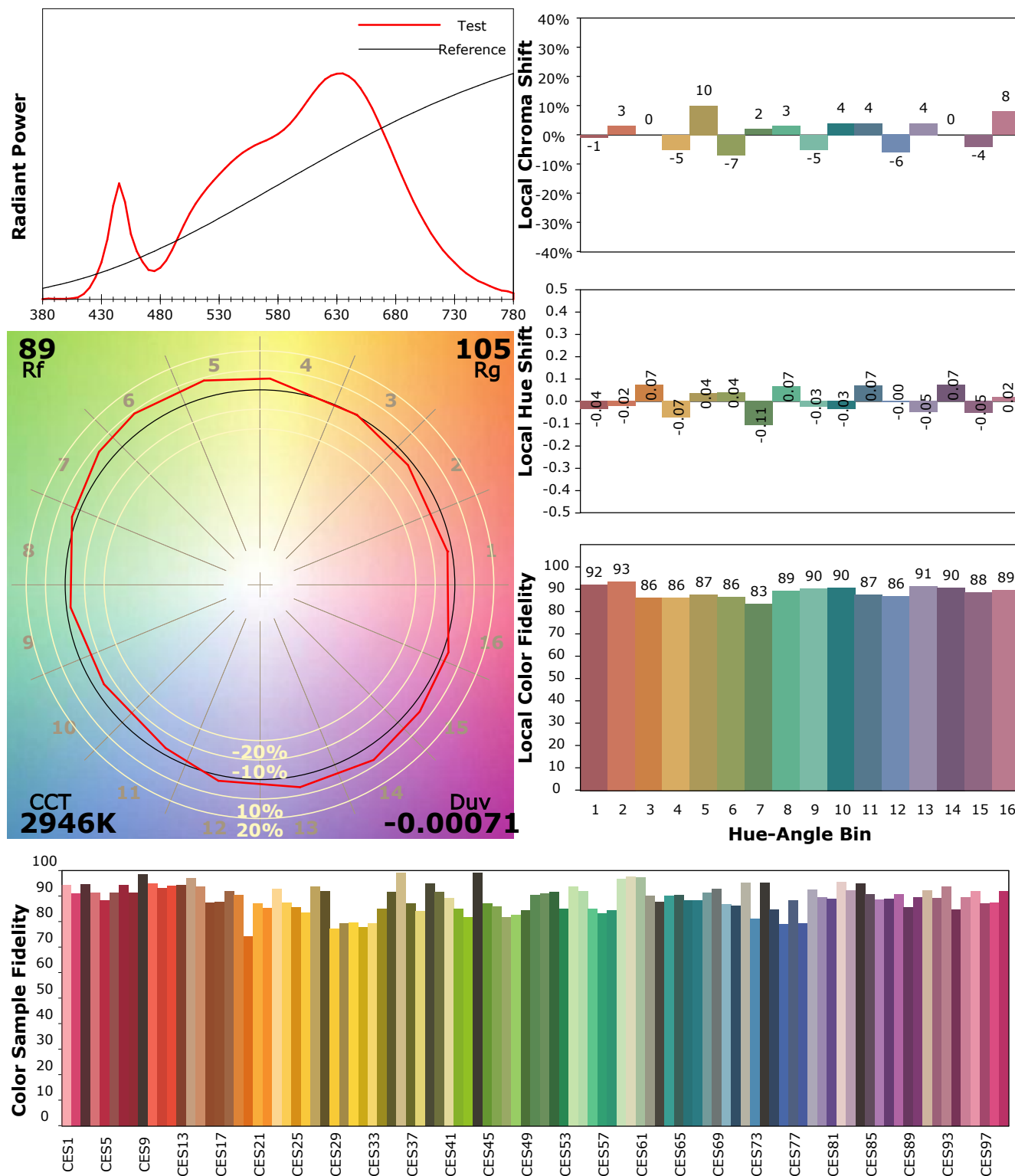
Test Device: CMS-2S (Plus)
Test Time: 2024-07-08 09:03:14
Inspector:

Product Information **IES TM-30-18 Color Rendition Report**

Product Type: WA-ARDEN-1001-BRI3090-36D-BK

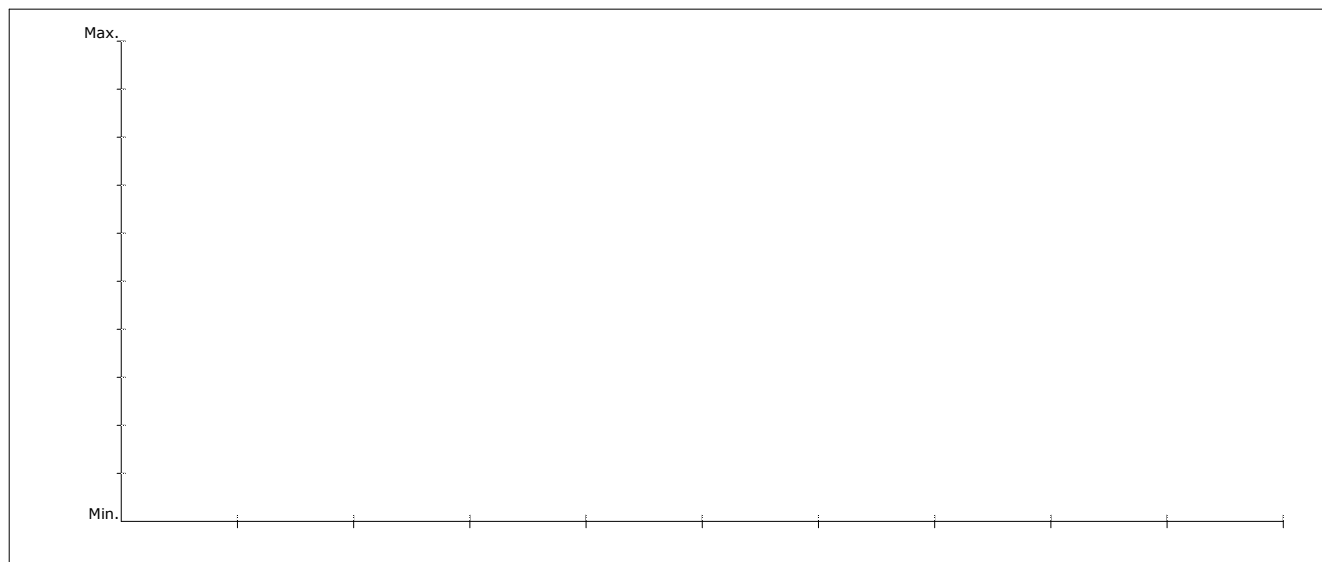
Product Spec: WA-ARDEN-1001-BRI3090-36D-BK

Product Number: 50

Condition: Tx:33.3'C, Ti:30.5'C, R.H.:60%
Test Lab:
Operator:Test Device: CMS-2S (Plus)
Test Time: 2024-07-08 09:03:14
Inspector:

Preheating curve

Preheating curve



Preheat time: 0 h Sample interval: 1 s Stable range: 0.00 % Stable time: 00:00:00

Condition: Tx:33.3'C, Ti:30.5'C, R.H.:60%
Test Lab:
Operator:

Test Device: CMS-2S (Plus)
Test Time: 2024-07-08 09:03:14
Inspector: