

## Lightsource Test Report (1/2)

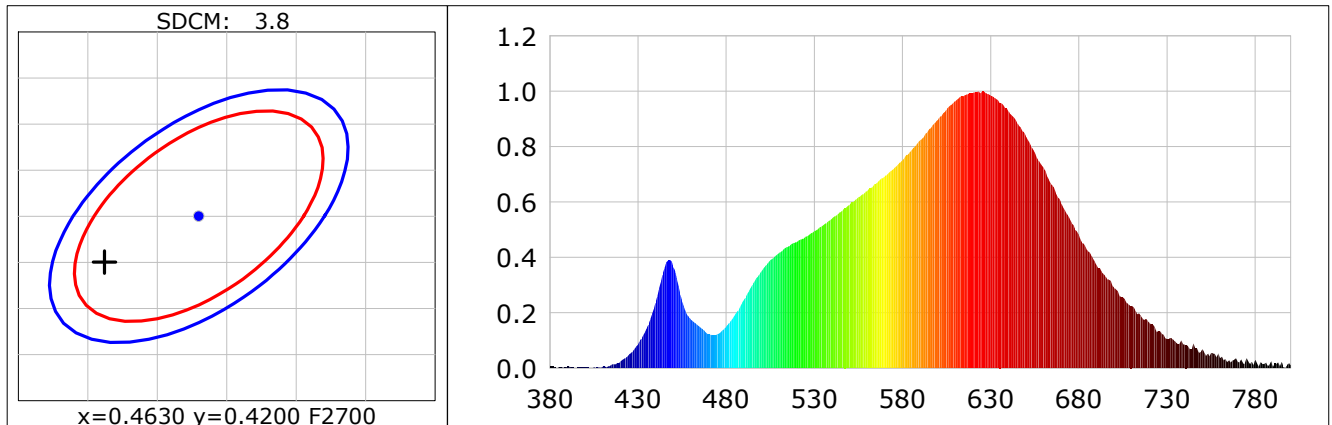
### Product Information

Product Category: LCBI 8W 180MA  
Product Spec: CITIZEN 1202 RA90 2700K

Product Type: TD3110  
Product Number: 2

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.4562$   $y=0.4150$   $u(u')=0.2582$   $v=0.3523$   $v'=0.5285$   
CCT:  $T_c=2786K$  ( $duv=0.00196$ ) Color Ratio:  $R=0.256$   $G=0.721$   $B=0.023$   
Peak Wavelength: 623nm Half Bandwidth: 146.5nm  
Dominant Wavelength: 583.2nm Color Purity: 0.615  
Color Render Index:  $R_a=91.8$ ,  $CRI=88.8$   
 $R1=91$   $R2=94$   $R3=97$   $R4=94$   $R5=92$   $R6=94$   $R7=92$   $R8=80$   
 $R9=55$   $R10=87$   $R11=95$   $R12=85$   $R13=92$   $R14=97$   $R15=87$



### Photometric Parameters

Luminous Flux: 611.17 lm  
Pupil Flux: 745.62 Plm  
Cirtopic Flux: 1313.92 lm

Efficiency: 78.76 lm/W  
Pupil Lumens Per Watt: 96.08 Plm/W  
Radiant Power: 2.074 W  
Pupil Factor ( $K_p$ ): 1.220

### Electric Parameters

Voltage: 220.80V  
Power Factor: 0.9420

Current: 0.0370A  
Frequency: 49.99Hz

Power: 7.76W

### Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer  
Stabilization Time: 10 Min Photometric Condition: Sphere diameter: 1.50m, 4T  
Max of Signal: 45295 (3866) CCD Integration Time: 2765.58 ms

Condition:  $T_x:17.4^{\circ}C$ ,  $T_i:16.2^{\circ}C$ , R.H.:60%  
Test Lab:  
Operator:

Test Device: Inventfine CMS-2S (Plus)  
Test Time: 2017-11-24 15:05:29  
Inspector:

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## Lightsource Test Report (2/2)

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0053	0.0690	525	0.4745	6.1627	670	0.5959	7.7398
385	0.0051	0.0669	530	0.4949	6.4285	675	0.5367	6.9710
390	0.0055	0.0715	535	0.5162	6.7054	680	0.4806	6.2424
395	0.0010	0.0131	540	0.5404	7.0200	685	0.4223	5.4856
400	0.0013	0.0174	545	0.5646	7.3338	690	0.3727	4.8408
405	0.0042	0.0551	550	0.5918	7.6875	695	0.3323	4.3159
410	0.0062	0.0800	555	0.6178	8.0247	700	0.2899	3.7659
415	0.0120	0.1563	560	0.6399	8.3117	705	0.2556	3.3197
420	0.0241	0.3125	565	0.6670	8.6639	710	0.2253	2.9263
425	0.0502	0.6525	570	0.6941	9.0152	715	0.1902	2.4710
430	0.0866	1.1249	575	0.7211	9.3667	720	0.1628	2.1143
435	0.1470	1.9089	580	0.7508	9.7517	725	0.1344	1.7459
440	0.2398	3.1142	585	0.7861	10.2105	730	0.1046	1.3581
445	0.3626	4.7102	590	0.8238	10.7009	735	0.0928	1.2048
450	0.3659	4.7523	595	0.8625	11.2036	740	0.0846	1.0993
455	0.2405	3.1238	600	0.8976	11.6586	745	0.0897	1.1656
460	0.1749	2.2718	605	0.9356	12.1521	750	0.0685	0.8904
465	0.1486	1.9300	610	0.9648	12.5316	755	0.0565	0.7334
470	0.1210	1.5720	615	0.9850	12.7939	760	0.0359	0.4665
475	0.1229	1.5959	620	0.9951	12.9249	765	0.0292	0.3790
480	0.1501	1.9500	625	0.9983	12.9665	770	0.0240	0.3120
485	0.1937	2.5166	630	0.9844	12.7870	775	0.0368	0.4776
490	0.2475	3.2155	635	0.9588	12.4546	780	0.0312	0.4053
495	0.3038	3.9460	640	0.9286	12.0617	785	0.0142	0.1851
500	0.3508	4.5572	645	0.8854	11.5006	790	0.0043	0.0564
505	0.3900	5.0659	650	0.8369	10.8703	795	0.0237	0.3084
510	0.4171	5.4184	655	0.7771	10.0942	800	0.0101	0.1307
515	0.4391	5.7030	660	0.7231	9.3929			
520	0.4561	5.9243	665	0.6584	8.5525			

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