

## Lightsource Test Report (1/2)

### Product Information

Product Category: D-LED-T8-120  
Manufacturer: DIANID LTD

Product Type: D-LED-T8-C

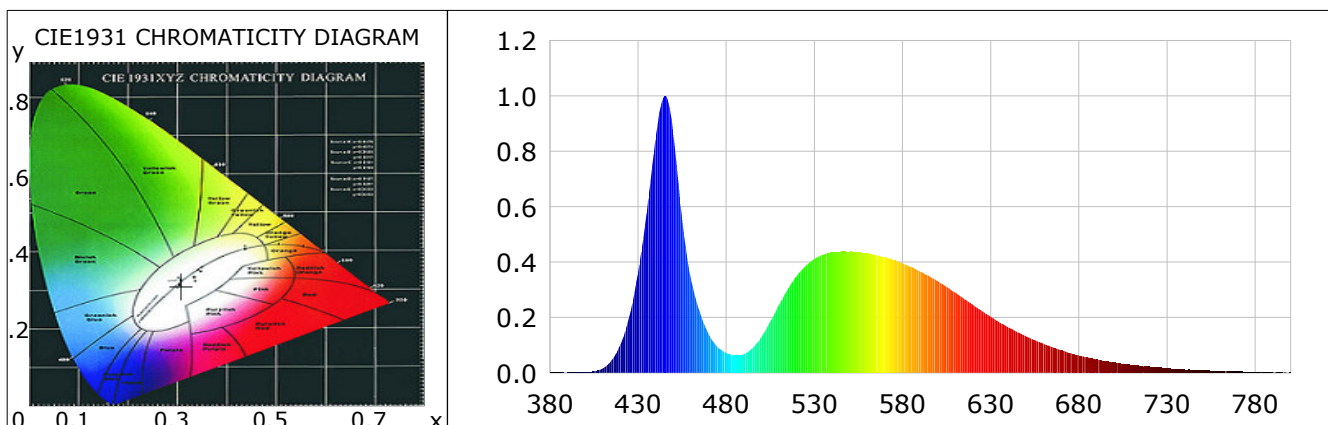
### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3075$   $y=0.3123$   $u(u')=0.2006$   $v=0.3055$   $v'=0.4583$   
 CCT:  $T_c=6982K$  ( $duv=-0.00291$ )      Color Ratio:  $R=0.122$   $G=0.844$   $B=0.034$   
 Peak Wavelength: 445.5nm      Half Bandwidth: 22.7nm  
 Dominant Wavelength: 480.2nm      Color Purity: 0.106  
 CRI:  $R_a$ :  $R_a=70.5$ ,  $avgR(1\sim14)=60.5$ ,  $avgR(1\sim15)=61.5$   

R1 =75	R2 =69	R3 =59	R4 =78	R5 =76	R6 =58	R7 =76	R8 =73
R9 =0	R10=22	R11=80	R12=35	R13=71	R14=76	R15=75	

Color Quality Scale:  $Q_a=69.1$ ,  $Q_f=66.2$ ,  $Q_p=76.4$ ,  $Q_g=92.2$   

Q1 =85	Q2 =90	Q3 =59	Q4 =50	Q5 =66	Q6 =74	Q7 =81	Q8 =90
Q9 =82	Q10=65	Q11=58	Q12=62	Q13=68	Q14=65	Q15=75	



### Photometric Parameters

Luminous Flux: 1736.78 lm	Efficiency: 100.39 lm/W	Radiant Power: 5.605 W
EEL: 0.14	Energy Efficiency Class: A+ (EU 874-2012)	
Pupil Flux: 2983.24 Plm	Pupil Lumens Per Watt: 172.44 Plm/W	Pupil Factor (Kp): 1.718
Cirtpic Flux: 6351.89 lm		
Mesopic Flux (CIE R.): 2274.32 lm ( $L_p=0.100$ cd/m <sup>2</sup> , $S/P=2.00$ )		
Mesopic Flux (USP): 2671.14 lm ( $L_p=0.100$ cd/m <sup>2</sup> , $S/P=2.00$ )		
Mesopic Flux (MOVE): 2365.05 lm ( $L_p=0.100$ cd/m <sup>2</sup> , $S/P=2.00$ )		

### Electric Parameters

Voltage: 230.00V	Current: 0.1410A	Power: 17.30W
Power Factor: 0.5280	Frequency: 50.00Hz	

#### Test Information

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 100 ms	Photometric Condition: Sphere diameter: 2.00m, 2PI
Max of Signal: 44035 (2929)	CCD Integration Time: 80.82 ms

Condition:  $T_x=23.4^\circ C$ ,  $T_i=18.5^\circ C$ , R.H.:60%  
 Test Lab:  
 Operator:

Test Device: Lisun LMS-9000A(Plus)  
 Test Time: 2017-04-11 13:13:18  
 Inspector:



## Lightsource Test Report (2/2)

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0018	0.1210	525	0.3865	26.2840	670	0.0818	5.5617
385	0.0024	0.1636	530	0.4115	27.9900	675	0.0719	4.8933
390	0.0013	0.0860	535	0.4273	29.0620	680	0.0632	4.2992
395	0.0024	0.1600	540	0.4356	29.6258	685	0.0556	3.7786
400	0.0027	0.1867	545	0.4390	29.8584	690	0.0479	3.2546
405	0.0057	0.3905	550	0.4383	29.8077	695	0.0424	2.8868
410	0.0165	1.1227	555	0.4364	29.6777	700	0.0374	2.5435
415	0.0451	3.0681	560	0.4309	29.3045	705	0.0326	2.2182
420	0.1029	6.9956	565	0.4266	29.0111	710	0.0288	1.9586
425	0.2017	13.7160	570	0.4171	28.3716	715	0.0247	1.6777
430	0.3608	24.5414	575	0.4069	27.6742	720	0.0220	1.4956
435	0.5870	39.9249	580	0.3960	26.9314	725	0.0188	1.2759
440	0.8523	57.9702	585	0.3834	26.0743	730	0.0167	1.1340
445	0.9997	67.9920	590	0.3662	24.9089	735	0.0145	0.9885
450	0.8605	58.5251	595	0.3497	23.7837	740	0.0127	0.8604
455	0.5536	37.6496	600	0.3312	22.5288	745	0.0104	0.7087
460	0.3378	22.9745	605	0.3109	21.1458	750	0.0092	0.6286
465	0.2188	14.8843	610	0.2896	19.6990	755	0.0078	0.5315
470	0.1405	9.5592	615	0.2668	18.1437	760	0.0073	0.4935
475	0.0942	6.4095	620	0.2451	16.6724	765	0.0059	0.4032
480	0.0719	4.8934	625	0.2243	15.2537	770	0.0047	0.3202
485	0.0632	4.3015	630	0.2020	13.7393	775	0.0049	0.3344
490	0.0679	4.6199	635	0.1823	12.3994	780	0.0036	0.2469
495	0.0903	6.1384	640	0.1647	11.2045	785	0.0039	0.2633
500	0.1311	8.9154	645	0.1475	10.0345	790	0.0035	0.2369
505	0.1852	12.5981	650	0.1318	8.9649	795	0.0034	0.2345
510	0.2475	16.8351	655	0.1181	8.0320	800	0.0029	0.1970
515	0.3031	20.6133	660	0.1046	7.1139			
520	0.3507	23.8555	665	0.0930	6.3262			

Condition: Tx:23.4'C, Ti:18.5'C, R.H.:60%  
Test Lab:  
Operator:

Test Device: Lisun LMS-9000A(Plus)  
Test Time: 2017-04-11 13:13:18  
Inspector: