



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
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Client:

LumCAT:LD8R-5CCT-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.04

LampCAT:

Current(A): 0.1570

Lamp flux(lm): -1.0

Power (W): 18.60

Number of Lamps: 1

PF: 0.9869

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1244.48, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 66.91

Central intensity(cd): 2061.771, Maximum intensity(cd): 2068.122

Angle of maximum intensity: C=90.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.1

[C90/270]Total=44.3

Field angle(10%Imax): [C0/180]Total=73.1

[C90/270]Total=72.9

Maximum s/h(1/2): C0\_180=0.71 C90\_270=0.74

Maximum s/h(1/4): C0\_180=0.76 C90\_270=0.77

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.11%

Down flux rate of LUM(%): 99.89%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.449%

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Equipment: GMS-3000  
Temperature(°C): 25

Date:  
Humidity(%): 59%

Operator: Tester

## Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2060.395	0.000	0	0.00%	0.00%
5.0	1950.786	47.953	47.953	0.00%	3.85%
10.0	1698.966	130.563	178.516	0.00%	14.34%
15.0	1411.526	184.512	363.028	0.00%	29.17%
20.0	1133.429	209.740	572.768	0.00%	46.02%
25.0	871.235	210.252	783.02	0.00%	62.92%
30.0	573.635	182.849	965.87	0.00%	77.61%
35.0	270.741	124.340	1090.21	0.00%	87.60%
40.0	98.098	61.538	1151.748	0.00%	92.55%
45.0	58.218	28.943	1180.691	0.00%	94.87%
50.0	41.441	20.138	1200.828	0.00%	96.49%
55.0	25.431	14.540	1215.369	0.00%	97.66%
60.0	17.016	9.811	1225.18	0.00%	98.45%
65.0	11.591	6.954	1232.134	0.00%	99.01%
70.0	7.648	4.871	1237.005	0.00%	99.40%
75.0	4.658	3.216	1240.222	0.00%	99.66%
80.0	2.461	1.905	1242.126	0.00%	99.81%
85.0	0.688	0.856	1242.982	0.00%	99.88%
90.0	0.000	0.188	1243.17	0.00%	99.89%
95.0	0.000	0.000	1243.17	0.00%	99.89%
100.0	0.027	0.007	1243.178	0.00%	99.90%
105.0	0.027	0.014	1243.192	0.00%	99.90%
110.0	0.027	0.014	1243.206	0.00%	99.90%
115.0	0.027	0.013	1243.219	0.00%	99.90%
120.0	0.027	0.013	1243.232	0.00%	99.90%
125.0	0.053	0.018	1243.25	0.00%	99.90%
130.0	0.106	0.035	1243.285	0.00%	99.90%
135.0	0.159	0.053	1243.338	0.00%	99.91%
140.0	0.185	0.064	1243.402	0.00%	99.91%
145.0	0.318	0.084	1243.486	0.00%	99.92%
150.0	0.609	0.136	1243.622	0.00%	99.93%
155.0	0.847	0.184	1243.807	0.00%	99.95%
160.0	1.112	0.205	1244.012	0.00%	99.96%
165.0	1.191	0.190	1244.202	0.00%	99.98%
170.0	1.350	0.151	1244.352	0.00%	99.99%
175.0	1.323	0.096	1244.448	0.00%	100.00%
180.0	1.588	0.035	1244.483	0.00%	100.00%

Equipment: GMS-3000  
Temperature( $^{\circ}\text{C}$ ): 25

Date:  
Humidity(%): 59%

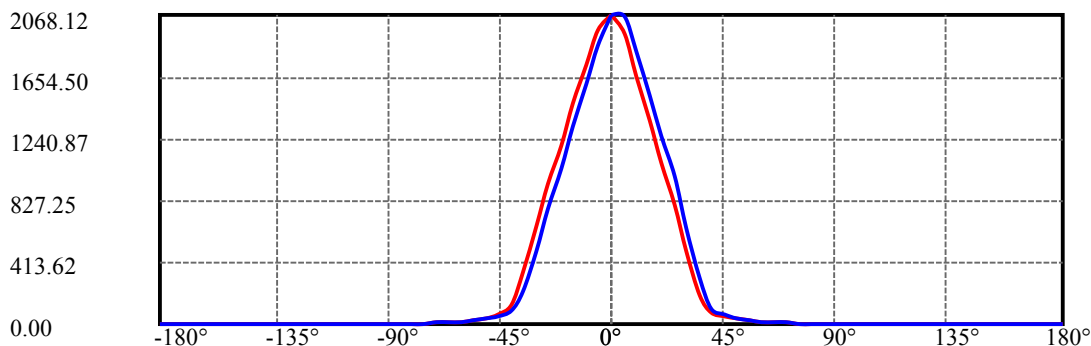
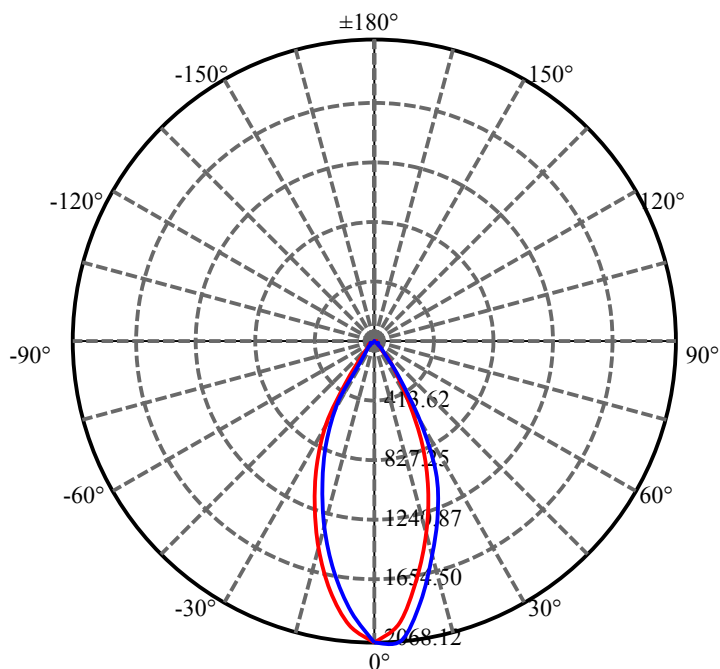
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	965.87	N.A.	77.61%
0-40	1151.75	N.A.	92.55%
0-60	1225.18	N.A.	98.45%
0-90	1243.17	N.A.	99.89%
0-120	1243.23	N.A.	99.90%
0-180	1244.48	N.A.	100.00%
60-90	17.99	N.A.	1.45%
90-120	0.06	N.A.	0.00%
90-130	0.11	N.A.	0.01%
90-150	0.45	N.A.	0.04%
90-180	1.28	N.A.	0.10%
0-31.19	995.59	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	178.52
10-20	394.25
20-30	393.10
30-40	185.88
40-50	49.08
50-60	24.35
60-70	11.83
70-80	5.12
80-90	1.04
90-100	0.01
100-110	0.03
110-120	0.03
120-130	0.05
130-140	0.12
140-150	0.22
150-160	0.39
160-170	0.34
170-180	0.10

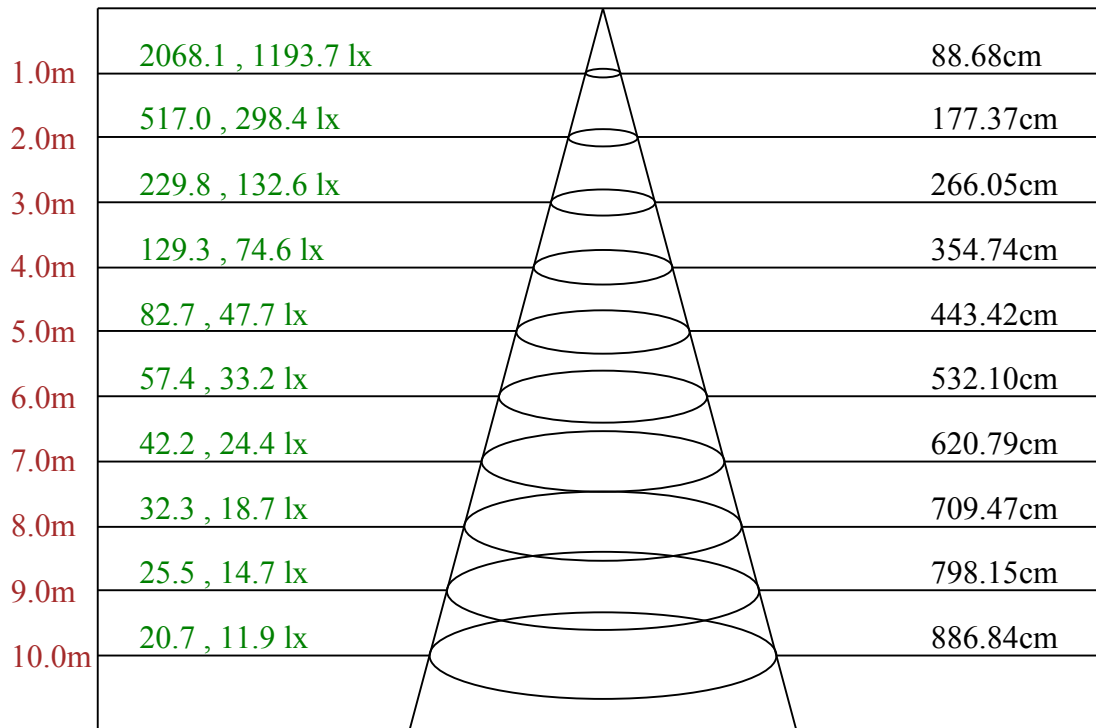


C0/C180: —

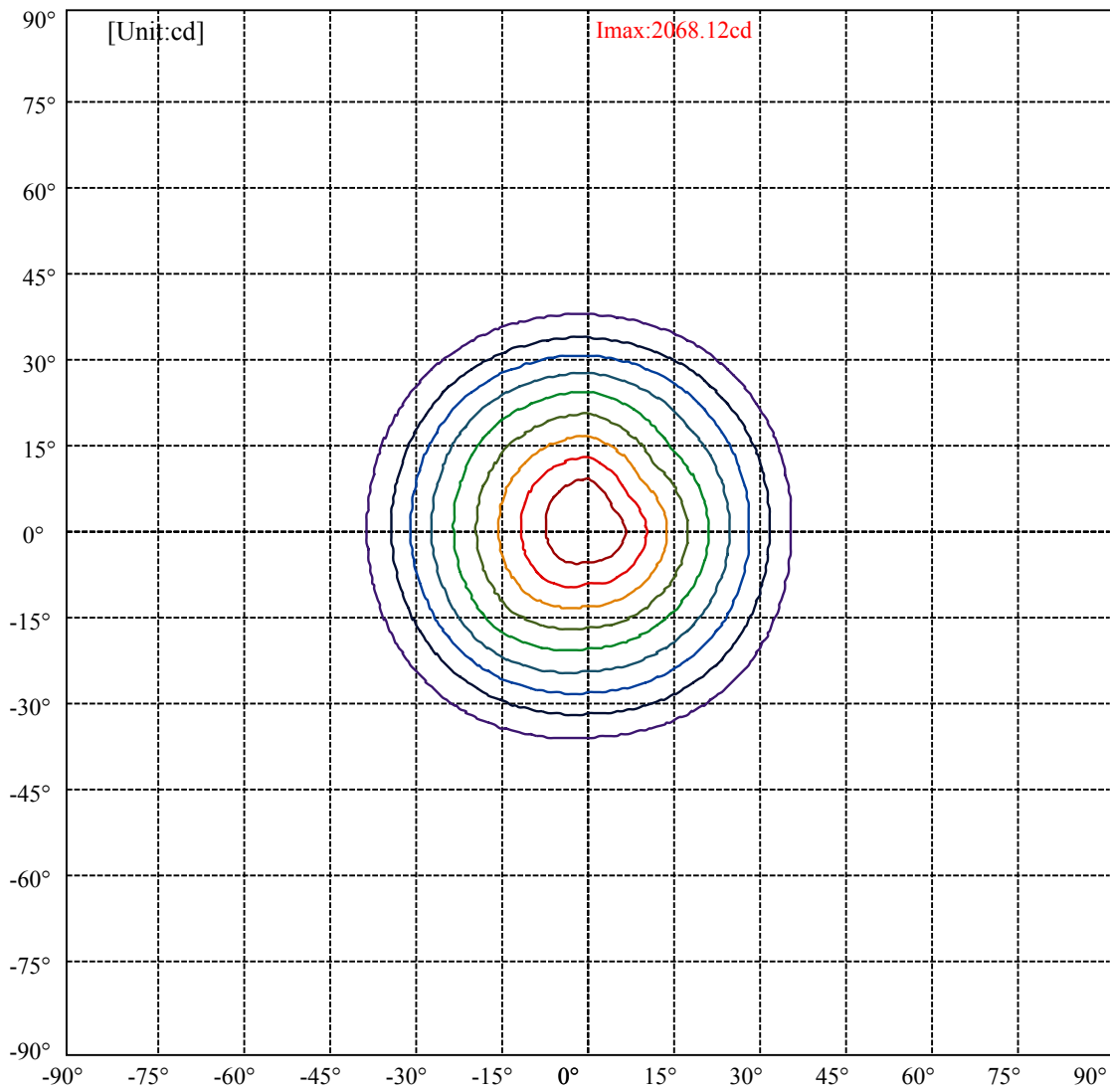
C90/C270: —

Field angle(10%Imax):C0/180Left:38.2 Right:34.9  
 :C90/270Left:35.4 Right:37.5

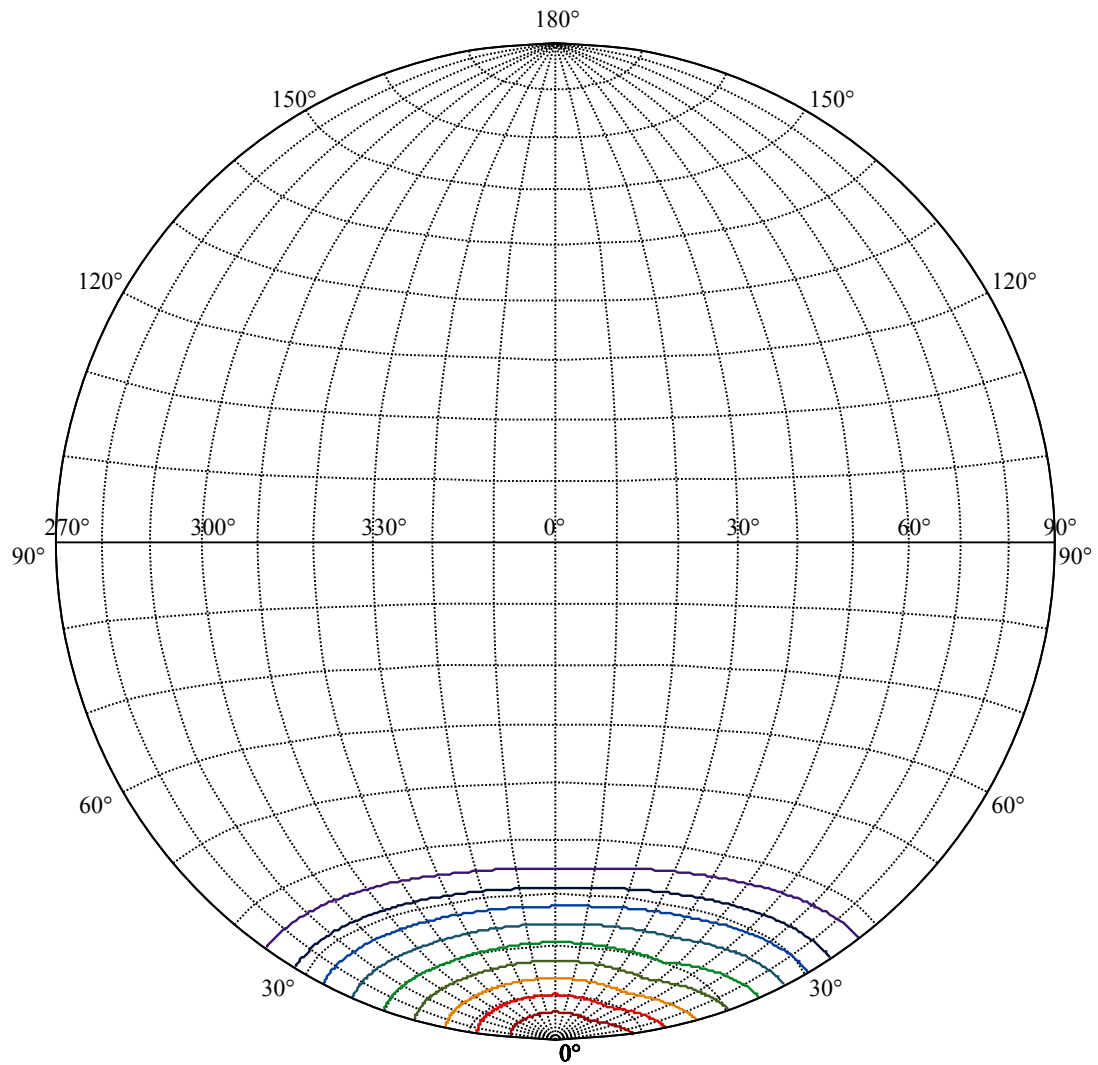
Beam Angle(50%Imax):C0/180Left:23.2 Right:20.9  
 :C90/270Left:20.2 Right:24.1



Max , Ave      Beam angle of C90 plane 47.83



(10%I <sub>max</sub> ) 206.812	—
(20%I <sub>max</sub> ) 413.624	—
(30%I <sub>max</sub> ) 620.437	—
(40%I <sub>max</sub> ) 827.249	—
(50%I <sub>max</sub> ) 1034.06	—
(60%I <sub>max</sub> ) 1240.87	—
(70%I <sub>max</sub> ) 1447.69	—
(80%I <sub>max</sub> ) 1654.5	—
(90%I <sub>max</sub> ) 1861.31	—



House

[Unit:cd]

Road

**Imax:2068.12**

(10%Imax) 206.812	—
(20%Imax) 413.624	—
(30%Imax) 620.437	—
(40%Imax) 827.249	—
(50%Imax) 1034.06	—
(60%Imax) 1240.87	—
(70%Imax) 1447.69	—
(80%Imax) 1654.5	—
(90%Imax) 1861.31	—

## Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2061.77	1941.31	1661.65	1366.75	1084.13	791.98	482.05	198.37	82.35
45.0	2050.97	1914.64	1617.41	1316.37	1033.96	811.46	550.22	244.73	81.51
90.0	2068.12	2059.23	1820.85	1531.24	1260.48	987.59	645.27	309.72	101.19
135.0	2060.71	2015.83	1793.97	1504.57	1239.73	983.57	684.86	351.00	113.90
180.0	2061.77	1962.69	1737.02	1470.91	1200.35	938.69	656.70	346.56	124.90
225.0	2050.97	1939.41	1726.43	1453.34	1180.45	912.44	591.50	282.20	112.41
270.0	2068.12	1868.06	1602.59	1323.35	1042.85	776.74	490.73	218.05	84.68
315.0	2060.71	1905.11	1631.80	1325.68	1025.49	767.42	487.76	215.30	83.83
360.0	2061.77	1941.31	1661.65	1366.75	1084.13	791.98	482.05	198.37	82.35

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	56.74	39.59	22.23	15.45	10.59	6.99	4.45	1.91	0.64
45.0	52.29	37.47	21.81	15.24	10.37	6.99	3.81	1.91	0.42
90.0	58.22	41.07	25.62	17.36	11.64	7.62	4.45	2.33	0.64
135.0	60.12	42.55	27.31	17.78	12.07	7.62	4.87	2.54	0.64
180.0	61.39	44.25	28.58	18.00	12.49	8.26	5.08	2.75	0.85
225.0	62.03	44.46	29.43	18.84	12.49	8.26	4.87	2.96	0.85
270.0	56.95	41.07	25.19	17.15	11.86	8.05	5.08	2.75	0.85
315.0	58.01	41.07	23.29	16.30	11.22	7.41	4.66	2.54	0.64
360.0	56.74	39.59	22.23	15.45	10.59	6.99	4.45	1.91	0.64

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.42	0.42
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.21	0.21	0.21	0.64	0.85	1.27	1.27	1.27	1.27
45.0	0.21	0.21	0.42	0.42	1.06	0.85	1.27	1.06	1.27
90.0	0.00	0.00	0.21	0.42	0.85	1.06	1.06	1.48	1.48
135.0	0.00	0.00	0.21	0.42	0.64	0.85	1.06	1.27	1.27
180.0	0.00	0.00	0.00	0.64	0.64	0.85	0.85	1.06	1.06
225.0	0.00	0.00	0.21	0.42	0.64	1.06	1.06	1.27	1.27
270.0	0.64	0.85	0.85	1.06	1.27	1.69	1.69	1.91	1.69
315.0	0.21	0.21	0.42	0.85	0.85	1.27	1.27	1.48	1.27
360.0	0.21	0.21	0.21	0.64	0.85	1.27	1.27	1.27	1.27

C/γ(°)	180.0
0.0	1.48
45.0	1.48
90.0	2.12
135.0	1.27
180.0	1.48
225.0	1.48
270.0	2.12
315.0	1.27
360.0	1.48