



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

LumCAT:LD8R-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.13

LampCAT:

Current(A): 0.1560

Lamp flux(lm): -1.0

Power (W): 18.50

Number of Lamps: 1

PF: 0.9872

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1314.16, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 71.04

Central intensity(cd): 2149.204, Maximum intensity(cd): 2188.581

Angle of maximum intensity: C=45.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.8

[C90/270]Total=44.3

Field angle(10%Imax): [C0/180]Total=73.8

[C90/270]Total=73.2

Maximum s/h(1/2): C0\_180=0.72 C90\_270=0.69

Maximum s/h(1/4): C0\_180=0.76 C90\_270=0.75

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 : 98.423%

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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	2150.104	0.000	0	0.00%	0.00%
5.0	2035.493	50.038	50.038	0.00%	3.81%
10.0	1775.919	136.346	186.384	0.00%	14.18%
15.0	1481.706	193.240	379.624	0.00%	28.89%
20.0	1197.284	220.786	600.41	0.00%	45.69%
25.0	915.269	221.568	821.978	0.00%	62.55%
30.0	609.253	192.930	1014.908	0.00%	77.23%
35.0	295.722	133.264	1148.172	0.00%	87.37%
40.0	103.840	66.664	1214.836	0.00%	92.44%
45.0	62.188	30.741	1245.577	0.00%	94.78%
50.0	44.907	21.640	1267.217	0.00%	96.43%
55.0	27.336	15.708	1282.925	0.00%	97.62%
60.0	18.154	10.515	1293.44	0.00%	98.42%
65.0	12.385	7.424	1300.864	0.00%	98.99%
70.0	8.230	5.220	1306.084	0.00%	99.39%
75.0	5.054	3.472	1309.556	0.00%	99.65%
80.0	2.673	2.067	1311.623	0.00%	99.81%
85.0	0.767	0.935	1312.558	0.00%	99.88%
90.0	0.027	0.217	1312.775	0.00%	99.89%
95.0	0.000	0.007	1312.783	0.00%	99.90%
100.0	0.027	0.007	1312.79	0.00%	99.90%
105.0	0.027	0.014	1312.804	0.00%	99.90%
110.0	0.000	0.007	1312.811	0.00%	99.90%
115.0	0.027	0.007	1312.818	0.00%	99.90%
120.0	0.053	0.019	1312.837	0.00%	99.90%
125.0	0.027	0.018	1312.855	0.00%	99.90%
130.0	0.079	0.023	1312.878	0.00%	99.90%
135.0	0.106	0.037	1312.916	0.00%	99.91%
140.0	0.212	0.059	1312.975	0.00%	99.91%
145.0	0.423	0.106	1313.081	0.00%	99.92%
150.0	0.609	0.152	1313.233	0.00%	99.93%
155.0	0.900	0.191	1313.424	0.00%	99.94%
160.0	1.217	0.222	1313.646	0.00%	99.96%
165.0	1.323	0.209	1313.855	0.00%	99.98%
170.0	1.403	0.162	1314.017	0.00%	99.99%
175.0	1.561	0.106	1314.123	0.00%	100.00%
180.0	1.641	0.038	1314.161	0.00%	100.00%

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

Date:  
Humidity(%): 59%

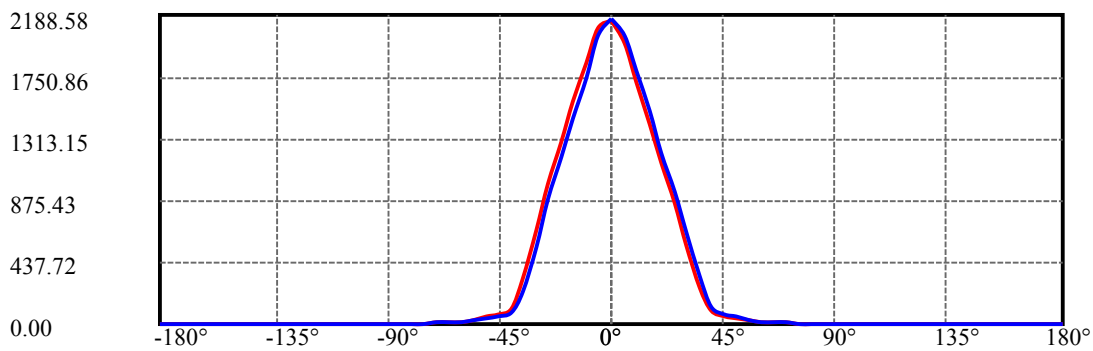
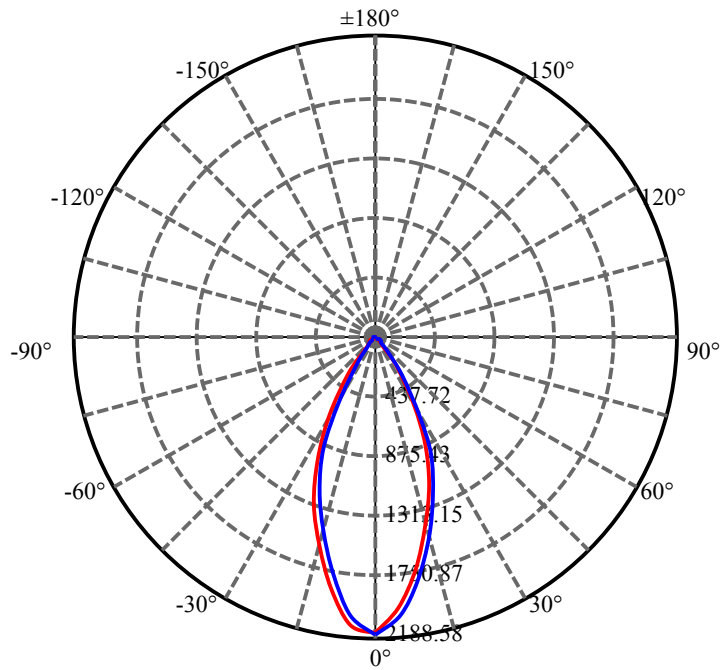
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1014.91	N.A.	77.23%
0-40	1214.84	N.A.	92.44%
0-60	1293.44	N.A.	98.42%
0-90	1312.78	N.A.	99.89%
0-120	1312.84	N.A.	99.90%
0-180	1314.16	N.A.	100.00%
60-90	19.34	N.A.	1.47%
90-120	0.06	N.A.	0.00%
90-130	0.10	N.A.	0.01%
90-150	0.46	N.A.	0.03%
90-180	1.35	N.A.	0.10%
0-31.37	1051.33	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	186.38
10-20	414.03
20-30	414.50
30-40	199.93
40-50	52.38
50-60	26.22
60-70	12.64
70-80	5.54
80-90	1.15
90-100	0.01
100-110	0.02
110-120	0.03
120-130	0.04
130-140	0.10
140-150	0.26
150-160	0.41
160-170	0.37
170-180	0.11

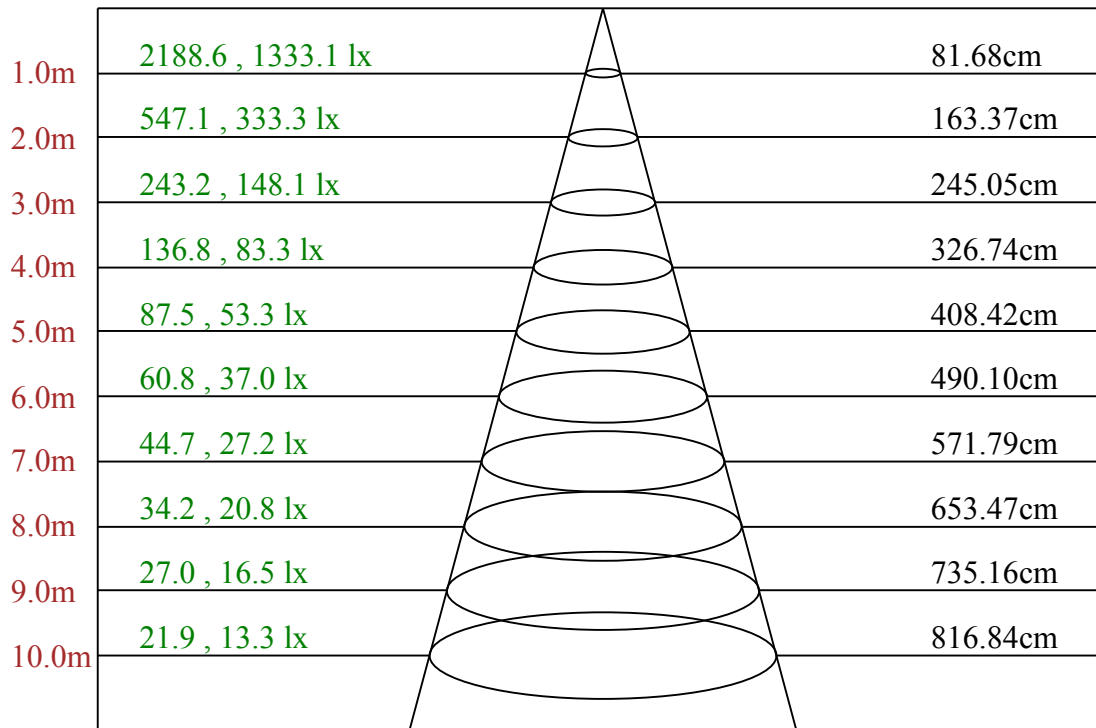


C0/C180: —

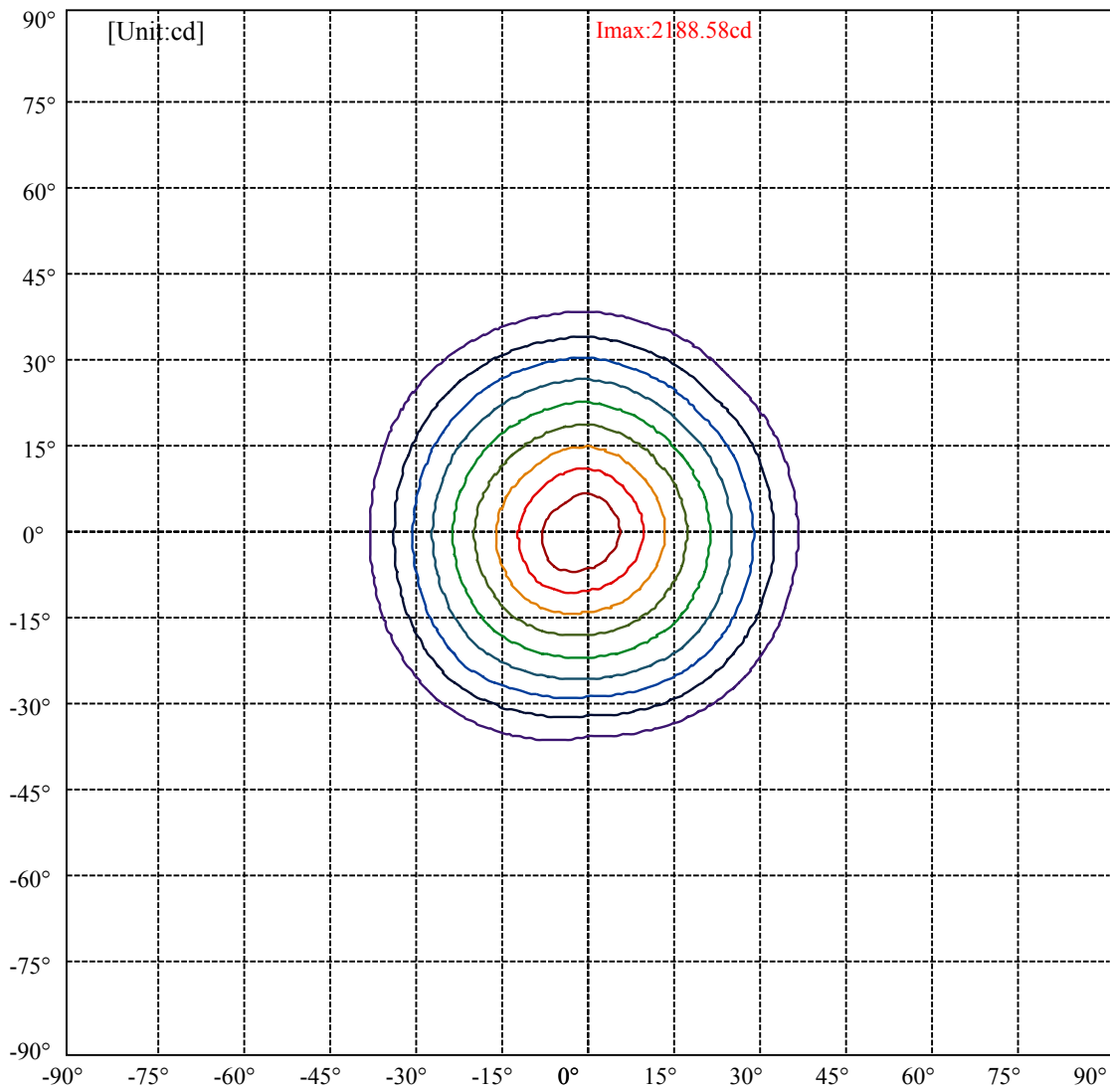
C90/C270: —

Field angle(10%Imax):C0/180Left:37.6 Right:36.2  
:C90/270Left:35.3 Right:37.9

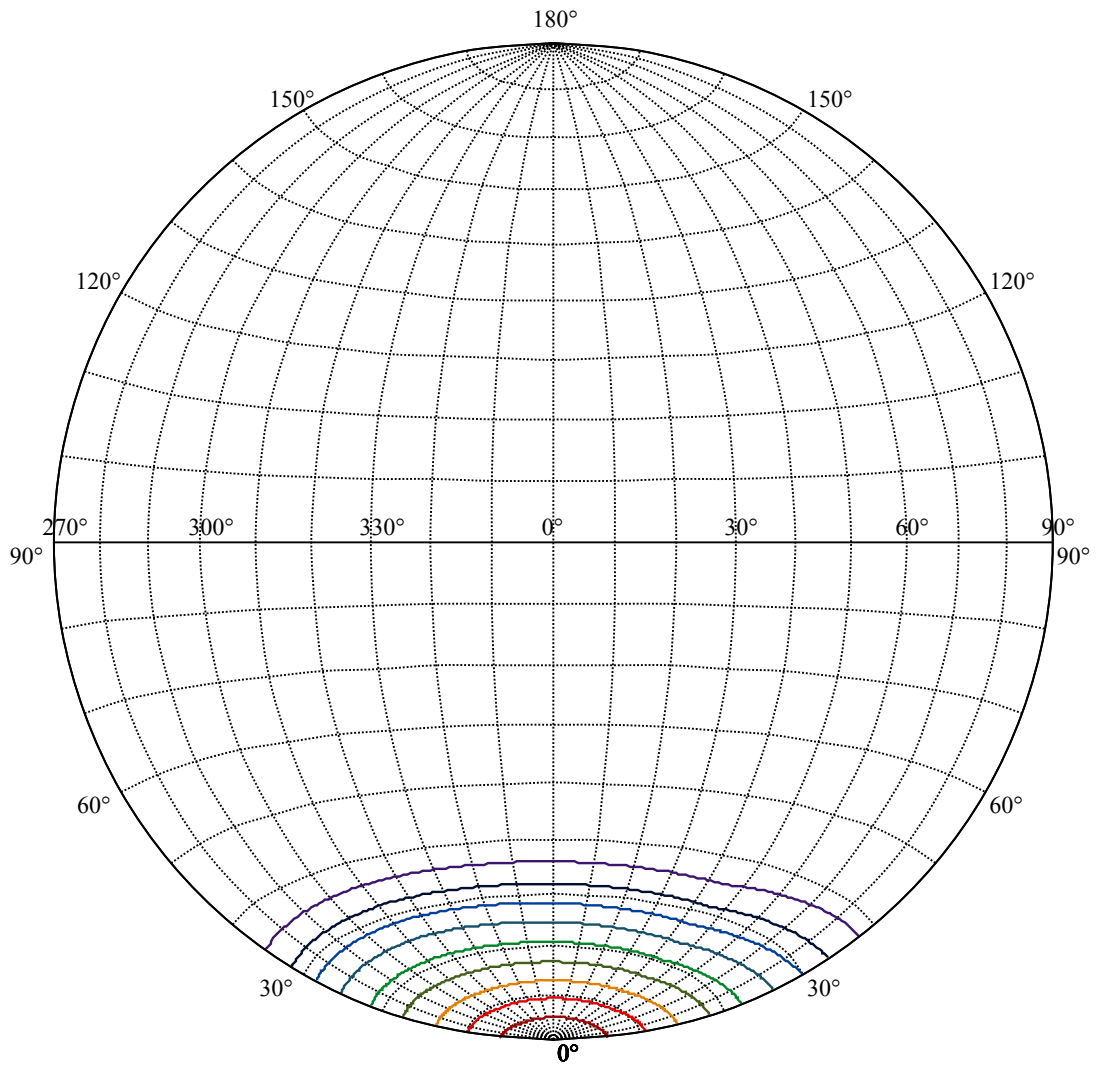
Beam Angle(50%Imax):C0/180Left:23.6 Right:21.2  
:C90/270Left:21.8 Right:22.5



Max , Ave      Beam angle of C45 plane 44.43



(10%Imax) 217.427	—
(20%Imax) 434.853	—
(30%Imax) 652.28	—
(40%Imax) 869.707	—
(50%Imax) 1087.13	—
(60%Imax) 1304.56	—
(70%Imax) 1521.99	—
(80%Imax) 1739.41	—
(90%Imax) 1956.84	—



House

[Unit:cd]

Road

**Imax:2188.58**

(10%Imax) 218.858	—
(20%Imax) 437.716	—
(30%Imax) 656.574	—
(40%Imax) 875.432	—
(50%Imax) 1094.29	—
(60%Imax) 1313.15	—
(70%Imax) 1532.01	—
(80%Imax) 1750.86	—
(90%Imax) 1969.72	—

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2149.20	1979.84	1714.79	1416.08	1142.56	859.51	562.71	255.74	91.67
45.0	2188.58	1996.36	1717.33	1417.56	1122.24	819.71	504.49	227.37	88.92
90.0	2154.92	2032.77	1791.00	1503.51	1212.63	941.23	653.95	343.38	126.18
135.0	2107.71	2022.61	1794.60	1494.62	1210.94	937.21	649.50	342.11	123.63
180.0	2149.20	2096.91	1853.03	1576.34	1285.46	991.62	663.69	328.14	114.32
225.0	2188.58	2137.98	1882.04	1576.34	1267.68	988.02	714.28	390.59	114.32
270.0	2154.92	2035.31	1744.43	1452.91	1179.40	890.21	542.81	224.41	83.41
315.0	2107.71	1982.17	1710.13	1416.29	1157.38	894.66	582.61	254.04	88.28
360.0	2149.20	1979.84	1714.79	1416.08	1142.56	859.51	562.71	255.74	91.67
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	59.91	43.40	25.62	17.57	12.28	7.83	4.87	2.54	0.64
45.0	60.34	43.82	26.89	18.00	12.28	8.26	5.08	2.75	0.85
90.0	67.53	48.27	31.97	19.90	13.76	9.32	5.72	3.18	1.27
135.0	67.96	48.69	29.85	19.27	12.91	8.68	5.29	2.75	0.85
180.0	66.26	48.06	28.58	18.63	12.49	8.47	5.29	2.54	0.64
225.0	62.24	44.25	27.10	18.00	12.28	8.26	4.66	2.54	0.42
270.0	55.68	40.44	24.13	16.72	11.43	7.41	4.87	2.54	0.85
315.0	57.58	42.34	24.56	17.15	11.64	7.62	4.66	2.54	0.64
360.0	59.91	43.40	25.62	17.57	12.28	7.83	4.87	2.54	0.64
C/ $\gamma$ (°)	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	0.00
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	0.21	0.00	0.21	0.00	0.00	0.21	0.42	0.21	0.42
315.0	0.00	0.00	0.00	0.21	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	0.00
C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.21	0.21	0.64	0.85	0.85	1.27	1.27	1.48	1.48
45.0	0.00	0.21	0.64	0.64	0.85	1.27	1.27	1.27	1.69
90.0	0.00	0.21	0.42	0.64	1.06	1.06	1.27	1.48	1.48
135.0	0.00	0.00	0.21	0.42	0.64	1.27	1.27	1.27	1.48
180.0	0.00	0.00	0.21	0.42	0.85	1.06	1.06	1.27	1.48
225.0	0.00	0.21	0.00	0.21	0.64	0.85	1.27	1.06	1.48
270.0	0.42	0.64	0.85	1.06	1.27	1.69	1.91	1.91	1.91
315.0	0.21	0.21	0.42	0.64	1.06	1.27	1.27	1.48	1.48
360.0	0.21	0.21	0.64	0.85	0.85	1.27	1.27	1.48	1.48
C/ $\gamma$ (°)	180.0								
0.0	1.48								
45.0	1.48								
90.0	2.12								
135.0	1.48								
180.0	1.48								
225.0	1.48								
270.0	2.12								
315.0	1.48								
360.0	1.48								