



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

LumCAT:LD8R-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.1540

Lamp flux(lm): -1.0

Power (W): 18.20

Number of Lamps: 1

PF: 0.9867

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1454.08, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 79.89

Central intensity(cd): 2395.625, Maximum intensity(cd): 2398.378

Angle of maximum intensity: C=135.0 $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=43.9

[C90/270]Total=44.8

Field angle(10%Imax): [C0/180]Total=73.5

[C90/270]Total=73.7

Maximum s/h(1/2): C0_180=0.72 C90_270=0.73

Maximum s/h(1/4): C0_180=0.76 C90_270=0.76

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 π solid angle : 98.408%

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	2393.985	0.000	0	0.00%	0.00%
5.0	2267.678	55.729	55.729	0.00%	3.83%
10.0	1973.411	151.717	207.446	0.00%	14.27%
15.0	1637.148	214.176	421.622	0.00%	29.00%
20.0	1321.950	243.871	665.493	0.00%	45.77%
25.0	1014.399	245.040	910.533	0.00%	62.62%
30.0	670.436	213.217	1123.75	0.00%	77.28%
35.0	327.927	147.016	1270.766	0.00%	87.39%
40.0	113.049	73.574	1344.34	0.00%	92.45%
45.0	69.200	33.745	1378.085	0.00%	94.77%
50.0	49.512	23.988	1402.072	0.00%	96.42%
55.0	29.956	17.279	1419.351	0.00%	97.61%
60.0	20.165	11.585	1430.936	0.00%	98.41%
65.0	13.867	8.273	1439.21	0.00%	98.98%
70.0	9.077	5.809	1445.019	0.00%	99.38%
75.0	5.557	3.825	1448.844	0.00%	99.64%
80.0	3.043	2.301	1451.145	0.00%	99.80%
85.0	0.900	1.072	1452.217	0.00%	99.87%
90.0	0.000	0.246	1452.463	0.00%	99.89%
95.0	0.027	0.007	1452.471	0.00%	99.89%
100.0	0.027	0.014	1452.485	0.00%	99.89%
105.0	0.000	0.007	1452.492	0.00%	99.89%
110.0	0.027	0.007	1452.499	0.00%	99.89%
115.0	0.053	0.020	1452.519	0.00%	99.89%
120.0	0.027	0.019	1452.538	0.00%	99.89%
125.0	0.053	0.018	1452.557	0.00%	99.90%
130.0	0.079	0.029	1452.585	0.00%	99.90%
135.0	0.212	0.059	1452.644	0.00%	99.90%
140.0	0.265	0.088	1452.733	0.00%	99.91%
145.0	0.476	0.124	1452.856	0.00%	99.92%
150.0	0.794	0.187	1453.043	0.00%	99.93%
155.0	0.979	0.224	1453.268	0.00%	99.94%
160.0	1.270	0.236	1453.504	0.00%	99.96%
165.0	1.482	0.227	1453.73	0.00%	99.98%
170.0	1.694	0.188	1453.919	0.00%	99.99%
175.0	1.641	0.119	1454.038	0.00%	100.00%
180.0	1.906	0.042	1454.08	0.00%	100.00%

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

Date:
Humidity(%): 59%

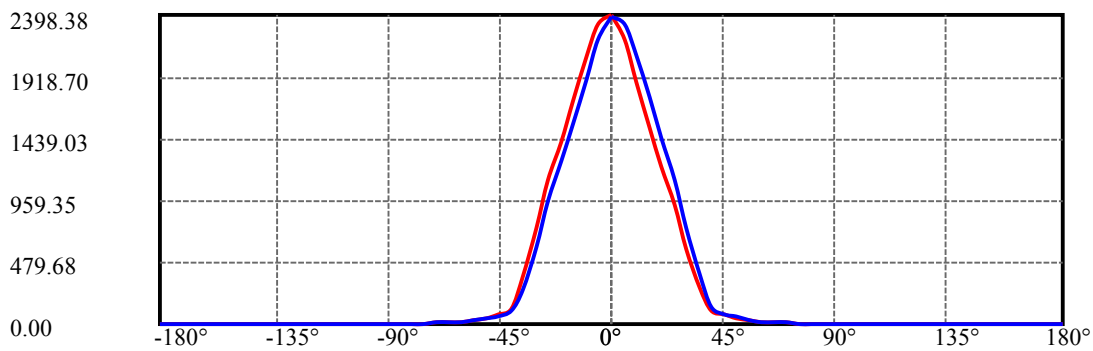
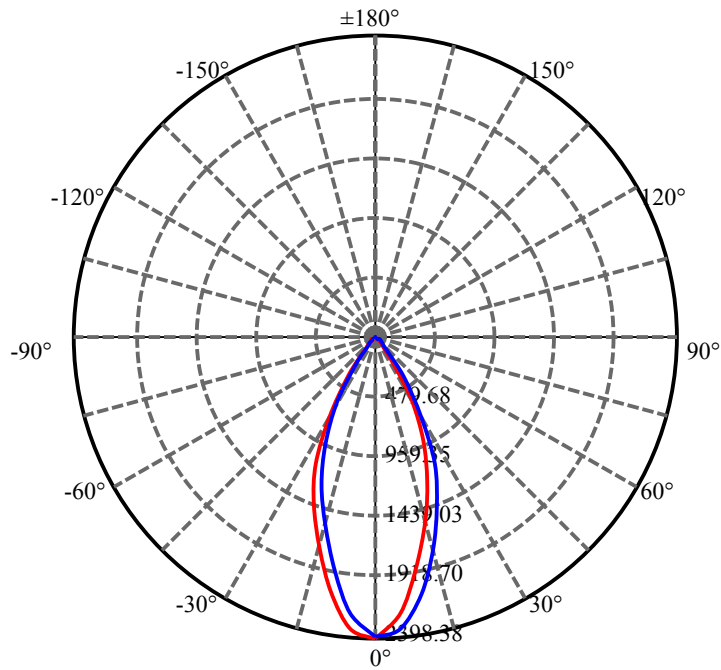
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1123.75	N.A.	77.28%
0-40	1344.34	N.A.	92.45%
0-60	1430.94	N.A.	98.41%
0-90	1452.46	N.A.	99.89%
0-120	1452.54	N.A.	99.89%
0-180	1454.08	N.A.	100.00%
60-90	21.53	N.A.	1.48%
90-120	0.08	N.A.	0.01%
90-130	0.12	N.A.	0.01%
90-150	0.58	N.A.	0.04%
90-180	1.57	N.A.	0.11%
0-31.34	1163.26	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	207.45
10-20	458.05
20-30	458.26
30-40	220.59
40-50	57.73
50-60	28.86
60-70	14.08
70-80	6.13
80-90	1.32
90-100	0.02
100-110	0.01
110-120	0.04
120-130	0.05
130-140	0.15
140-150	0.31
150-160	0.46
160-170	0.42
170-180	0.12

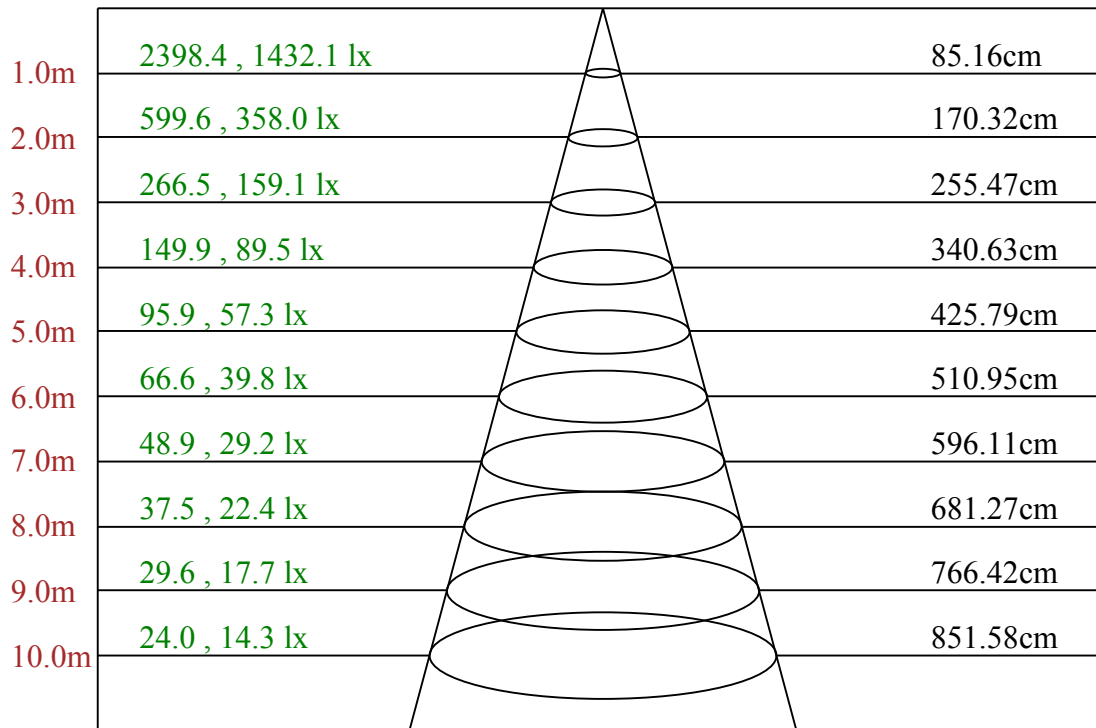


C0/C180: —

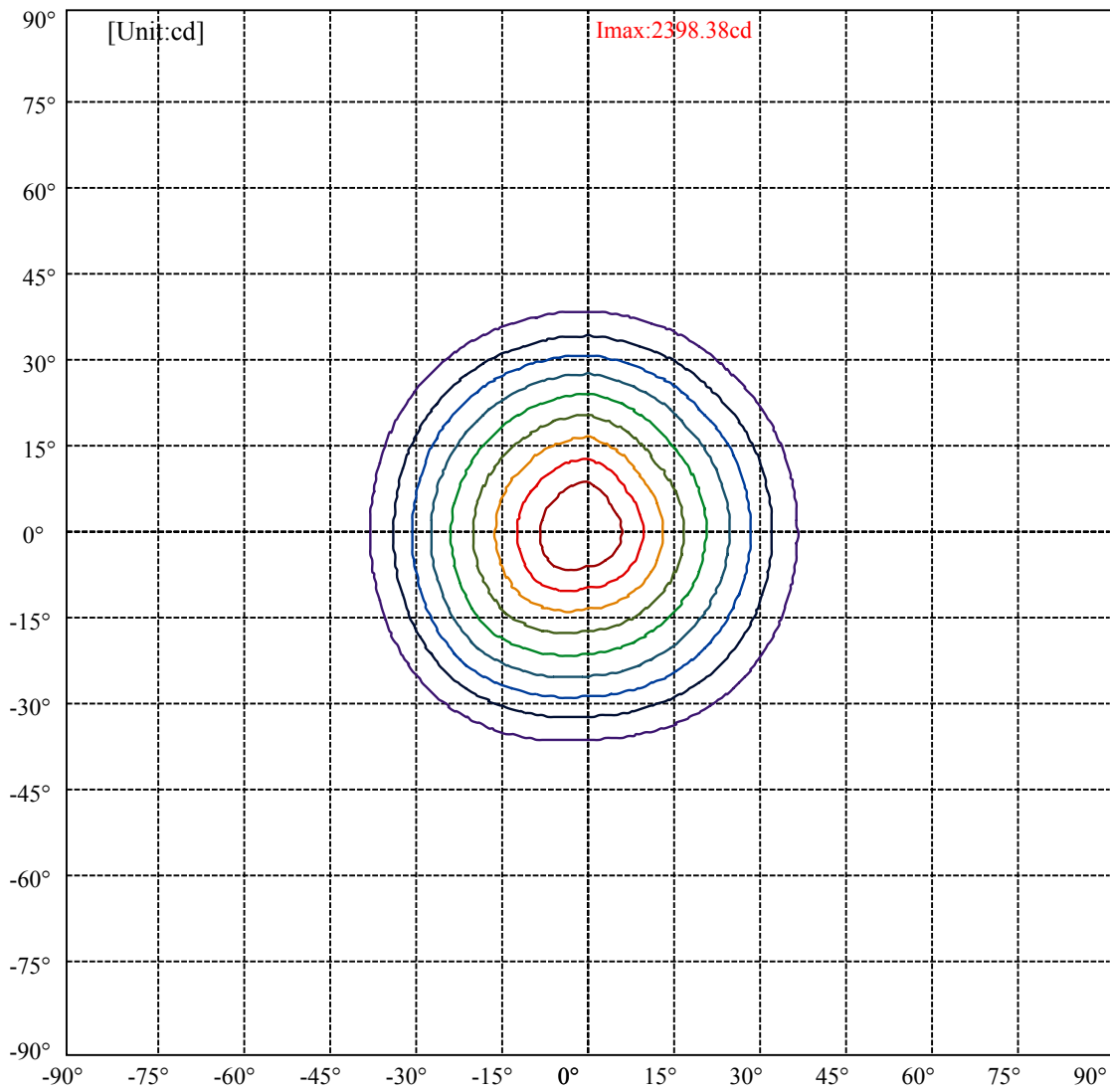
C90/C270: —

Field angle(10%Imax):C0/180Left:37.5 Right:36.0
 :C90/270Left:35.7 Right:38.0

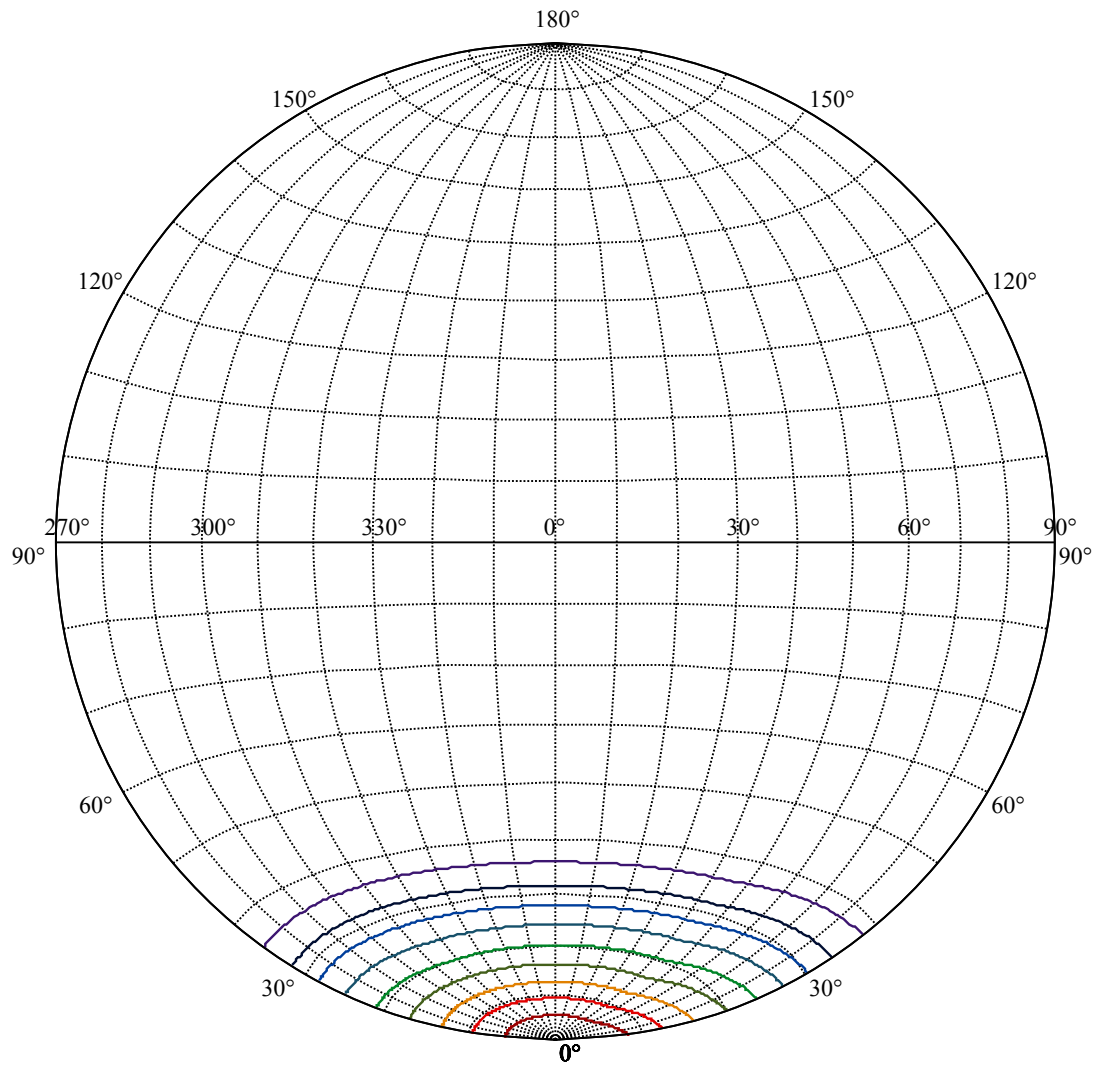
Beam Angle(50%Imax):C0/180Left:23.6 Right:20.3
 :C90/270Left:21.0 Right:23.8



Max , Ave Beam angle of C135 plane 46.13



(10%I _{max}) 238.991	—
(20%I _{max}) 477.982	—
(30%I _{max}) 716.973	—
(40%I _{max}) 955.964	—
(50%I _{max}) 1194.95	—
(60%I _{max}) 1433.95	—
(70%I _{max}) 1672.94	—
(80%I _{max}) 1911.93	—
(90%I _{max}) 2150.92	—



House

[Unit:cd]

Road

Imax:2398.38

(10%Imax) 239.838	—
(20%Imax) 479.676	—
(30%Imax) 719.513	—
(40%Imax) 959.351	—
(50%Imax) 1199.19	—
(60%Imax) 1439.03	—
(70%Imax) 1678.86	—
(80%Imax) 1918.7	—
(90%Imax) 2158.54	—

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	2395.63	2204.67	1877.17	1525.95	1214.96	917.73	577.95	275.85	99.50
45.0	2392.03	2208.69	1884.15	1534.00	1220.04	924.51	590.23	274.37	102.68
90.0	2389.91	2331.27	2081.67	1754.59	1442.75	1117.79	745.19	388.26	139.94
135.0	2398.38	2323.01	2041.66	1721.99	1391.52	1070.16	743.71	382.34	123.63
180.0	2395.63	2324.71	2063.25	1734.69	1422.22	1112.50	737.57	366.88	113.47
225.0	2392.03	2334.44	2071.30	1736.60	1426.88	1116.73	773.35	393.77	126.81
270.0	2389.91	2209.33	1887.33	1555.59	1259.42	949.27	599.75	262.72	97.81
315.0	2398.38	2205.31	1880.77	1533.79	1197.81	906.51	595.73	279.24	100.56
360.0	2395.63	2204.67	1877.17	1525.95	1214.96	917.73	577.95	275.85	99.50
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	67.75	49.12	29.85	20.11	13.76	9.10	5.72	3.18	1.06
45.0	69.44	49.75	28.58	19.48	13.55	8.89	5.50	3.18	0.85
90.0	76.85	53.98	33.45	21.38	14.61	9.95	5.93	3.39	1.06
135.0	69.65	49.33	30.49	20.11	13.76	9.10	5.29	2.54	0.85
180.0	67.75	47.63	29.22	19.90	13.76	8.68	5.29	2.75	0.64
225.0	70.07	49.33	31.12	20.54	13.97	8.89	5.50	2.96	0.64
270.0	65.20	47.63	27.73	19.48	13.55	8.89	5.72	3.18	1.06
315.0	66.90	49.33	29.22	20.32	13.97	9.10	5.50	3.18	1.06
360.0	67.75	49.12	29.85	20.11	13.76	9.10	5.72	3.18	1.06
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	0.00
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	0.00	0.21	0.21	0.00	0.21	0.42	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	0.00
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.42	0.64	1.06	1.27	1.27	1.48	1.69	1.48
45.0	0.42	0.21	0.64	0.85	0.85	1.48	1.48	1.69	1.69
90.0	0.21	0.21	0.42	0.64	0.85	1.27	1.48	1.48	1.69
135.0	0.00	0.00	0.21	0.85	0.64	0.85	1.27	1.69	1.48
180.0	0.00	0.00	0.21	0.42	1.06	0.85	1.06	1.48	1.48
225.0	0.00	0.00	0.00	0.42	0.64	1.06	1.27	1.48	1.48
270.0	0.85	1.06	1.06	1.48	1.69	1.91	2.12	2.54	2.12
315.0	0.21	0.21	0.64	0.64	0.85	1.48	1.69	1.48	1.69
360.0	0.00	0.42	0.64	1.06	1.27	1.27	1.48	1.69	1.48
C/ γ (°)	180.0								
0.0	1.91								
45.0	1.69								
90.0	2.33								
135.0	1.69								
180.0	1.91								
225.0	1.69								
270.0	2.33								
315.0	1.69								
360.0	1.91								