



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

LumCAT:LD4R-5CCT-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.1130

Lamp flux(lm): -1.0

Power (W): 13.30

Number of Lamps: 1

PF: 0.9803

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1054.11, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 79.26

Central intensity(cd): 2837.660, Maximum intensity(cd): 2837.660

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.9

[C90/270]Total=36.2

Field angle(10%Imax): [C0/180]Total=53.8

[C90/270]Total=53.8

Maximum s/h(1/2): C0_180=0.57 C90_270=0.64

Maximum s/h(1/4): C0_180=0.53 C90_270=0.59

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.758%

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	2825.381	0.000	0	0.00%	0.00%
5.0	2674.332	65.748	65.748	0.00%	6.24%
10.0	2368.104	180.384	246.131	0.00%	23.35%
15.0	1877.457	251.844	497.975	0.00%	47.24%
20.0	1114.455	246.576	744.551	0.00%	70.63%
25.0	422.585	161.207	905.758	0.00%	85.93%
30.0	114.531	67.972	973.73	0.00%	92.37%
35.0	50.359	24.281	998.011	0.00%	94.68%
40.0	29.241	13.281	1011.292	0.00%	95.94%
45.0	22.335	9.550	1020.842	0.00%	96.84%
50.0	16.963	7.941	1028.782	0.00%	97.60%
55.0	13.681	6.663	1035.445	0.00%	98.23%
60.0	10.426	5.572	1041.018	0.00%	98.76%
65.0	7.701	4.407	1045.425	0.00%	99.18%
70.0	5.346	3.303	1048.728	0.00%	99.49%
75.0	3.414	2.290	1051.018	0.00%	99.71%
80.0	1.694	1.367	1052.384	0.00%	99.84%
85.0	0.397	0.568	1052.952	0.00%	99.89%
90.0	0.027	0.116	1053.068	0.00%	99.90%
95.0	0.000	0.007	1053.075	0.00%	99.90%
100.0	0.027	0.007	1053.083	0.00%	99.90%
105.0	0.000	0.007	1053.09	0.00%	99.90%
110.0	0.000	0.000	1053.09	0.00%	99.90%
115.0	0.000	0.000	1053.09	0.00%	99.90%
120.0	0.000	0.000	1053.09	0.00%	99.90%
125.0	0.027	0.006	1053.096	0.00%	99.90%
130.0	0.027	0.012	1053.107	0.00%	99.90%
135.0	0.053	0.016	1053.123	0.00%	99.91%
140.0	0.079	0.024	1053.148	0.00%	99.91%
145.0	0.212	0.049	1053.197	0.00%	99.91%
150.0	0.397	0.090	1053.286	0.00%	99.92%
155.0	0.820	0.154	1053.44	0.00%	99.94%
160.0	0.979	0.189	1053.629	0.00%	99.95%
165.0	1.270	0.185	1053.814	0.00%	99.97%
170.0	1.403	0.159	1053.973	0.00%	99.99%
175.0	1.508	0.104	1054.077	0.00%	100.00%
180.0	1.482	0.036	1054.113	0.00%	100.00%

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

Date:
Humidity(%): 59%

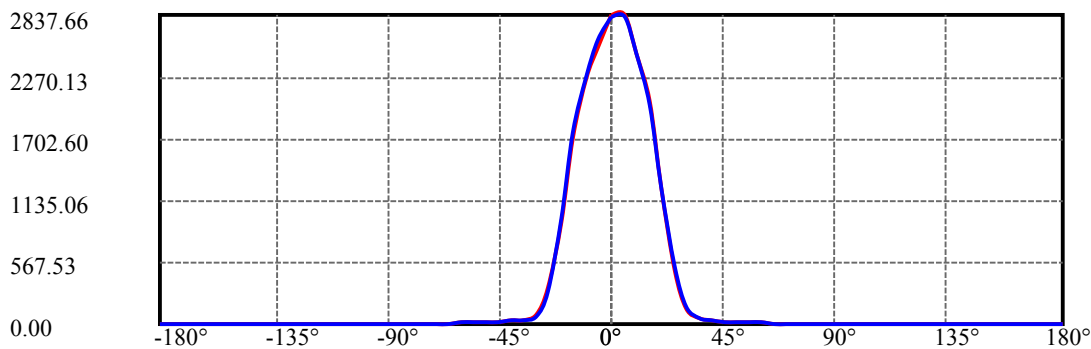
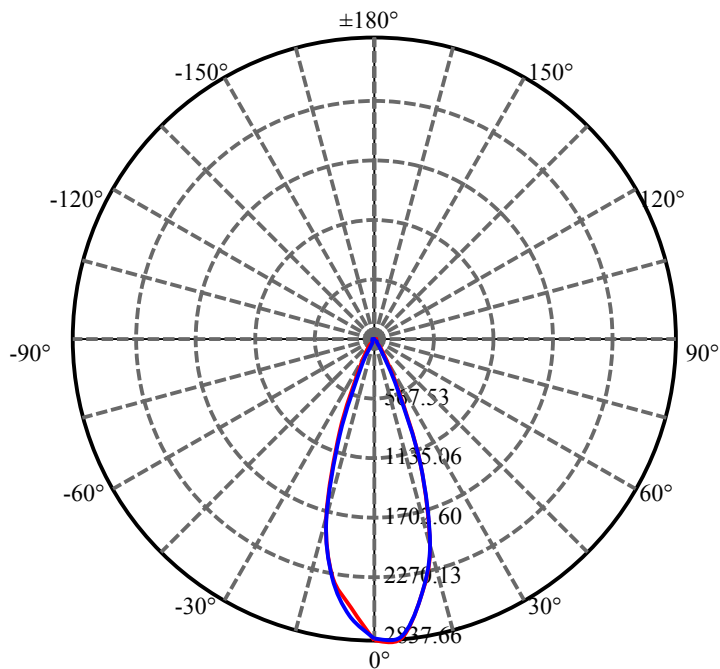
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	973.73	N.A.	92.37%
0-40	1011.29	N.A.	95.94%
0-60	1041.02	N.A.	98.76%
0-90	1053.07	N.A.	99.90%
0-120	1053.09	N.A.	99.90%
0-180	1054.11	N.A.	100.00%
60-90	12.05	N.A.	1.14%
90-120	0.02	N.A.	0.00%
90-130	0.04	N.A.	0.00%
90-150	0.22	N.A.	0.02%
90-180	1.01	N.A.	0.10%
0-23.06	843.29	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	246.13
10-20	498.42
20-30	229.18
30-40	37.56
40-50	17.49
50-60	12.24
60-70	7.71
70-80	3.66
80-90	0.68
90-100	0.01
100-110	0.01
110-120	0.00
120-130	0.02
130-140	0.04
140-150	0.14
150-160	0.34
160-170	0.34
170-180	0.10

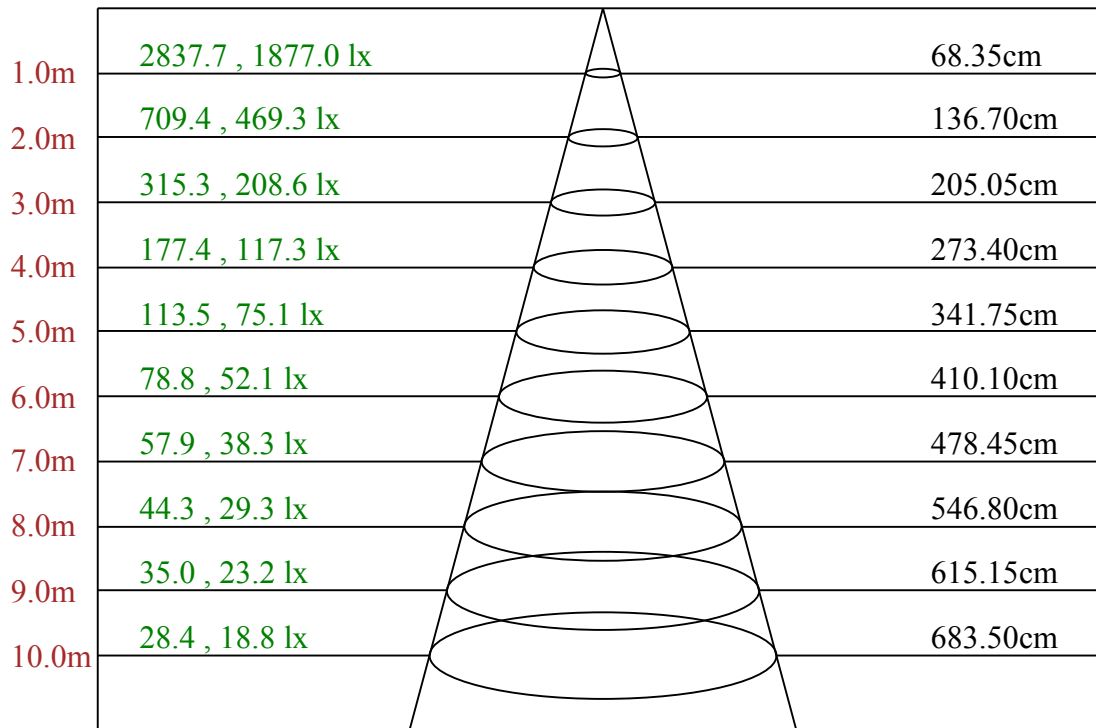


C0/C180: —

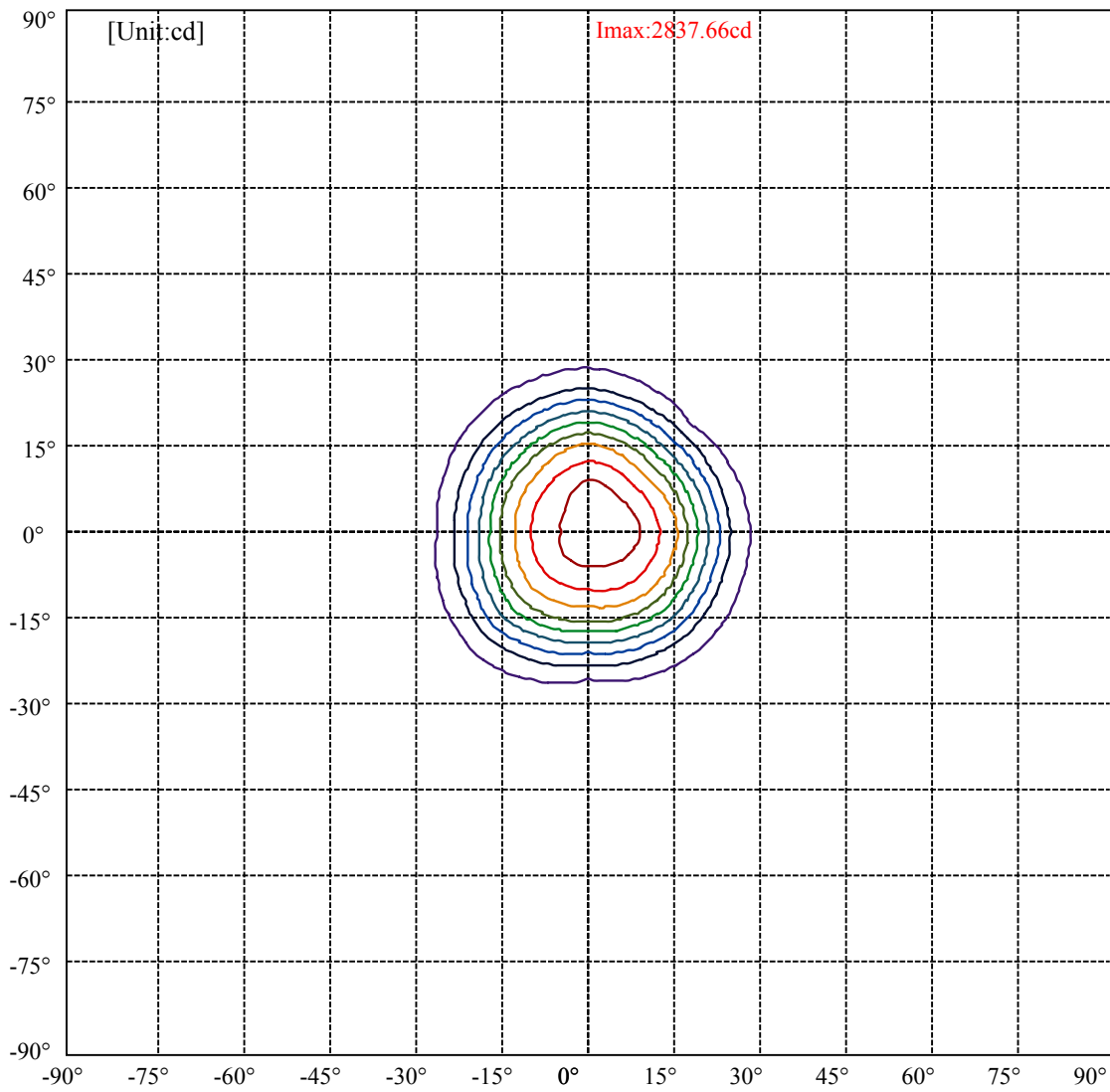
C90/C270: —

Field angle(10%Imax):C0/180Left:25.9 Right:27.9
 :C90/270Left:25.5 Right:28.3

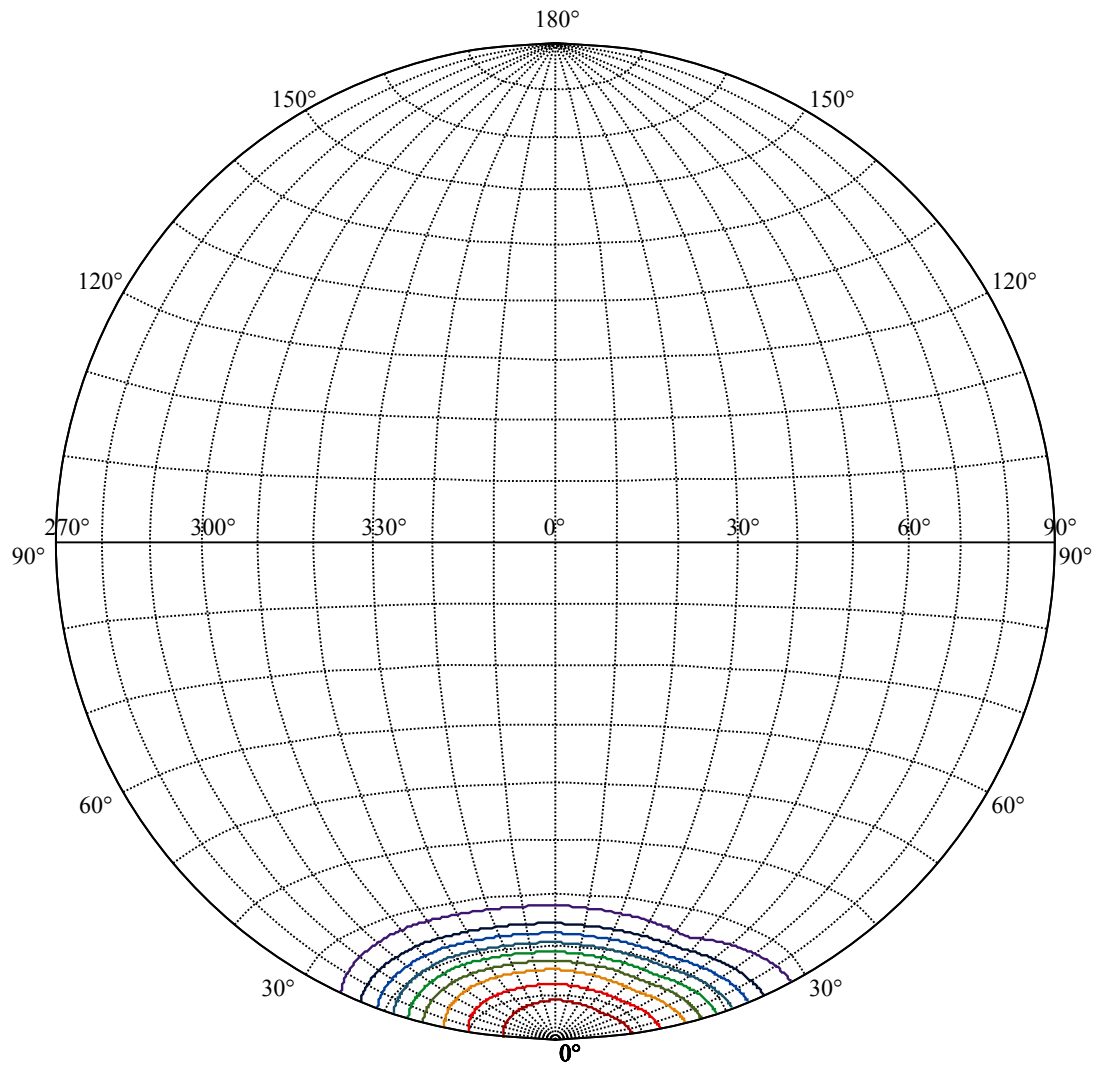
Beam Angle(50%Imax):C0/180Left:16.9 Right:19.0
 :C90/270Left:17.2 Right:19.0



Max , Ave Beam angle of C0 plane 37.74



(10%Imax) 283.686	—
(20%Imax) 567.371	—
(30%Imax) 851.057	—
(40%Imax) 1134.74	—
(50%Imax) 1418.43	—
(60%Imax) 1702.11	—
(70%Imax) 1985.8	—
(80%Imax) 2269.48	—
(90%Imax) 2553.17	—



House

[Unit:cd]

Road

Imax:2837.66

(10%Imax) 283.766	—
(20%Imax) 567.532	—
(30%Imax) 851.298	—
(40%Imax) 1135.06	—
(50%Imax) 1418.83	—
(60%Imax) 1702.6	—
(70%Imax) 1986.36	—
(80%Imax) 2270.13	—
(90%Imax) 2553.89	—

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	2837.66	2833.64	2483.91	2048.43	1253.49	497.71	134.64	56.74	29.43
45.0	2818.40	2745.57	2421.67	1831.23	1027.82	296.60	73.25	40.65	28.37
90.0	2815.43	2817.76	2480.31	2009.27	1255.82	525.45	151.79	60.34	30.06
135.0	2830.04	2575.57	2314.33	1806.67	1037.34	413.67	121.31	51.44	28.37
180.0	2837.66	2537.25	2253.79	1715.64	926.20	328.35	91.46	41.92	29.00
225.0	2818.40	2602.67	2295.07	1886.48	1223.01	553.81	142.26	58.22	29.85
270.0	2815.43	2617.07	2269.45	1765.18	967.90	304.22	78.33	42.13	29.00
315.0	2830.04	2665.12	2426.32	1956.77	1224.06	460.88	123.21	51.44	29.85
360.0	2837.66	2833.64	2483.91	2048.43	1253.49	497.71	134.64	56.74	29.43
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	22.23	16.51	13.34	10.16	7.41	5.08	3.18	1.69	0.42
45.0	21.59	16.30	12.91	9.74	7.20	5.08	2.96	1.69	0.21
90.0	22.86	17.78	14.61	11.01	8.05	5.72	4.02	1.91	0.64
135.0	22.23	17.36	13.97	10.80	7.83	5.50	3.39	1.48	0.21
180.0	22.65	17.15	13.97	10.59	7.83	5.29	2.96	1.48	0.00
225.0	22.86	16.94	13.76	10.37	7.83	5.29	3.60	1.48	0.21
270.0	22.02	17.15	13.55	10.37	7.83	5.29	3.81	2.12	0.85
315.0	22.23	16.51	13.34	10.37	7.62	5.50	3.39	1.69	0.64
360.0	22.23	16.51	13.34	10.16	7.41	5.08	3.18	1.69	0.42
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	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.21	0.21
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.21	0.21	0.21	0.85	0.85	1.27	1.27	1.48
45.0	0.00	0.00	0.21	0.64	0.85	1.06	1.27	1.48	1.48
90.0	0.00	0.00	0.21	0.21	0.64	0.85	1.27	1.48	1.48
135.0	0.00	0.00	0.21	0.42	0.64	0.85	1.06	1.48	1.27
180.0	0.00	0.00	0.00	0.21	0.64	1.06	1.06	1.48	1.48
225.0	0.00	0.00	0.00	0.42	0.64	0.85	1.06	1.27	1.27
270.0	0.42	0.42	0.64	0.85	1.48	1.27	1.91	1.48	2.12
315.0	0.00	0.00	0.21	0.21	0.85	1.06	1.27	1.27	1.48
360.0	0.00	0.21	0.21	0.21	0.85	0.85	1.27	1.27	1.48
C/ γ (°)	180.0								
0.0	1.27								
45.0	1.48								
90.0	1.91								
135.0	1.27								
180.0	1.27								
225.0	1.48								
270.0	1.91								
315.0	1.27								
360.0	1.27								