



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

LumCAT:LD4R-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.12

LampCAT:

Current(A): 0.1110

Lamp flux(lm): -1.0

Power (W): 13.00

Number of Lamps: 1

PF: 0.9776

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1291.91, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 99.38

Central intensity(cd): 3490.974, Maximum intensity(cd): 3509.181

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.8

[C90/270]Total=35.7

Field angle(10%Imax): [C0/180]Total=54.3

[C90/270]Total=53.8

Maximum s/h(1/2): C0_180=0.57 C90_270=0.61

Maximum s/h(1/4): C0_180=0.54 C90_270=0.58

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 : 98.705%

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	3493.568	0.000	0	0.00%	0.00%
5.0	3283.559	81.019	81.019	0.00%	6.27%
10.0	2905.326	221.396	302.414	0.00%	23.41%
15.0	2284.958	307.884	610.299	0.00%	47.24%
20.0	1361.512	300.520	910.819	0.00%	70.50%
25.0	516.580	196.977	1107.796	0.00%	85.75%
30.0	141.417	83.270	1191.066	0.00%	92.19%
35.0	63.352	30.154	1221.22	0.00%	94.53%
40.0	36.439	16.649	1237.869	0.00%	95.82%
45.0	28.077	11.946	1249.815	0.00%	96.74%
50.0	21.382	9.994	1259.809	0.00%	97.52%
55.0	17.069	8.360	1268.169	0.00%	98.16%
60.0	13.258	7.010	1275.179	0.00%	98.71%
65.0	9.712	5.584	1280.763	0.00%	99.14%
70.0	6.748	4.168	1284.931	0.00%	99.46%
75.0	4.393	2.912	1287.843	0.00%	99.69%
80.0	2.249	1.777	1289.62	0.00%	99.82%
85.0	0.529	0.755	1290.375	0.00%	99.88%
90.0	0.000	0.145	1290.52	0.00%	99.89%
95.0	0.000	0.000	1290.52	0.00%	99.89%
100.0	0.027	0.007	1290.527	0.00%	99.89%
105.0	0.027	0.014	1290.541	0.00%	99.89%
110.0	0.053	0.021	1290.562	0.00%	99.90%
115.0	0.027	0.020	1290.582	0.00%	99.90%
120.0	0.053	0.019	1290.602	0.00%	99.90%
125.0	0.053	0.024	1290.626	0.00%	99.90%
130.0	0.027	0.017	1290.643	0.00%	99.90%
135.0	0.053	0.016	1290.659	0.00%	99.90%
140.0	0.106	0.029	1290.689	0.00%	99.91%
145.0	0.238	0.057	1290.746	0.00%	99.91%
150.0	0.582	0.121	1290.867	0.00%	99.92%
155.0	0.953	0.194	1291.061	0.00%	99.93%
160.0	1.297	0.236	1291.297	0.00%	99.95%
165.0	1.588	0.238	1291.535	0.00%	99.97%
170.0	1.773	0.199	1291.734	0.00%	99.99%
175.0	1.800	0.128	1291.862	0.00%	100.00%
180.0	1.906	0.044	1291.906	0.00%	100.00%

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

Date:
Humidity(%): 59%

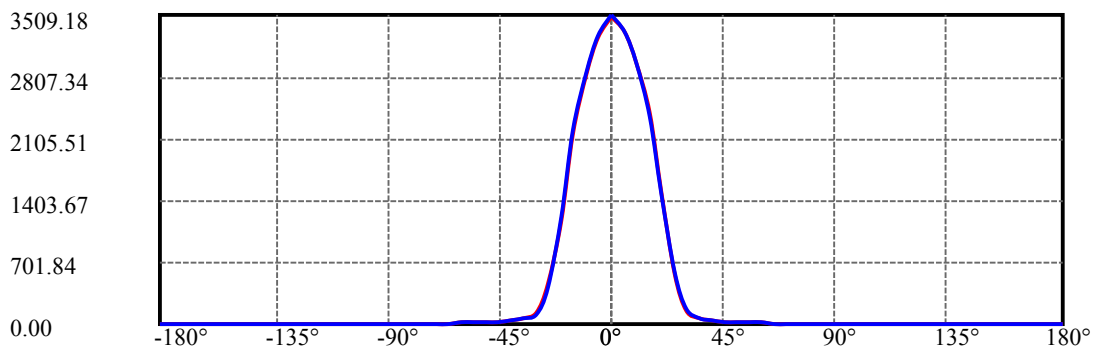
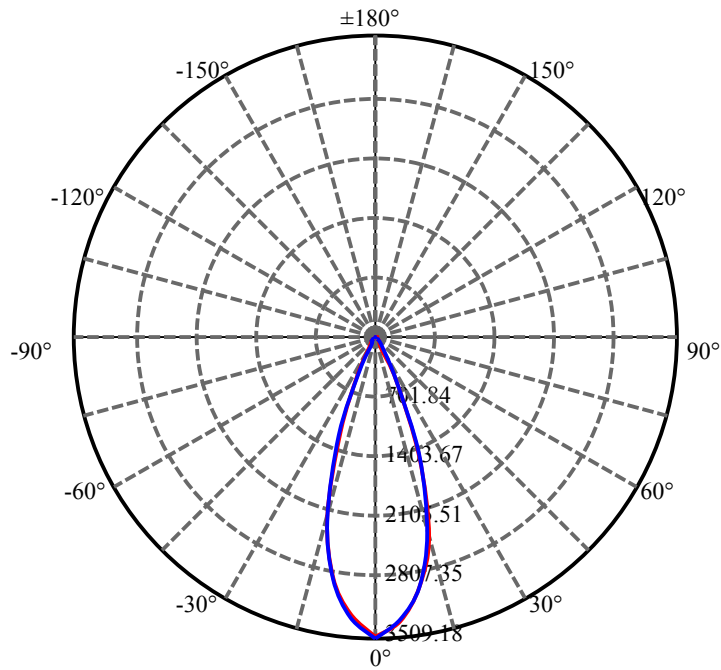
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1191.07	N.A.	92.19%
0-40	1237.87	N.A.	95.82%
0-60	1275.18	N.A.	98.71%
0-90	1290.52	N.A.	99.89%
0-120	1290.60	N.A.	99.90%
0-180	1291.91	N.A.	100.00%
60-90	15.34	N.A.	1.19%
90-120	0.08	N.A.	0.01%
90-130	0.12	N.A.	0.01%
90-150	0.35	N.A.	0.03%
90-180	1.34	N.A.	0.10%
0-23.11	1033.53	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	302.41
10-20	608.40
20-30	280.25
30-40	46.80
40-50	21.94
50-60	15.37
60-70	9.75
70-80	4.69
80-90	0.90
90-100	0.01
100-110	0.03
110-120	0.04
120-130	0.04
130-140	0.05
140-150	0.18
150-160	0.43
160-170	0.44
170-180	0.13

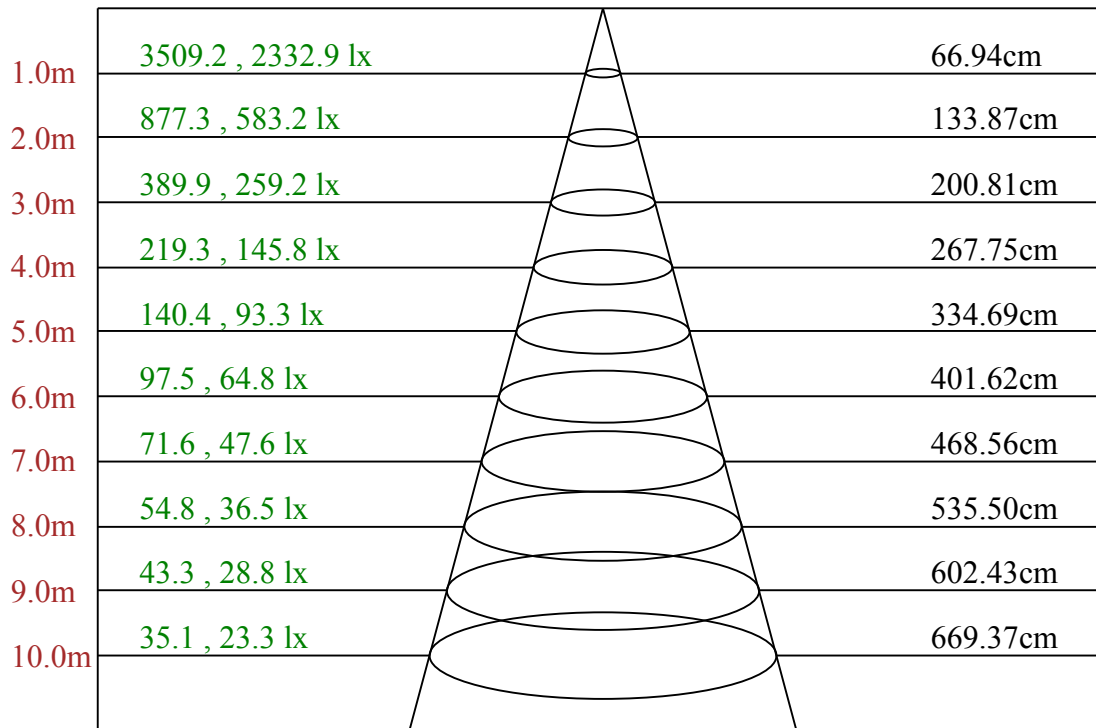


C0/C180: —

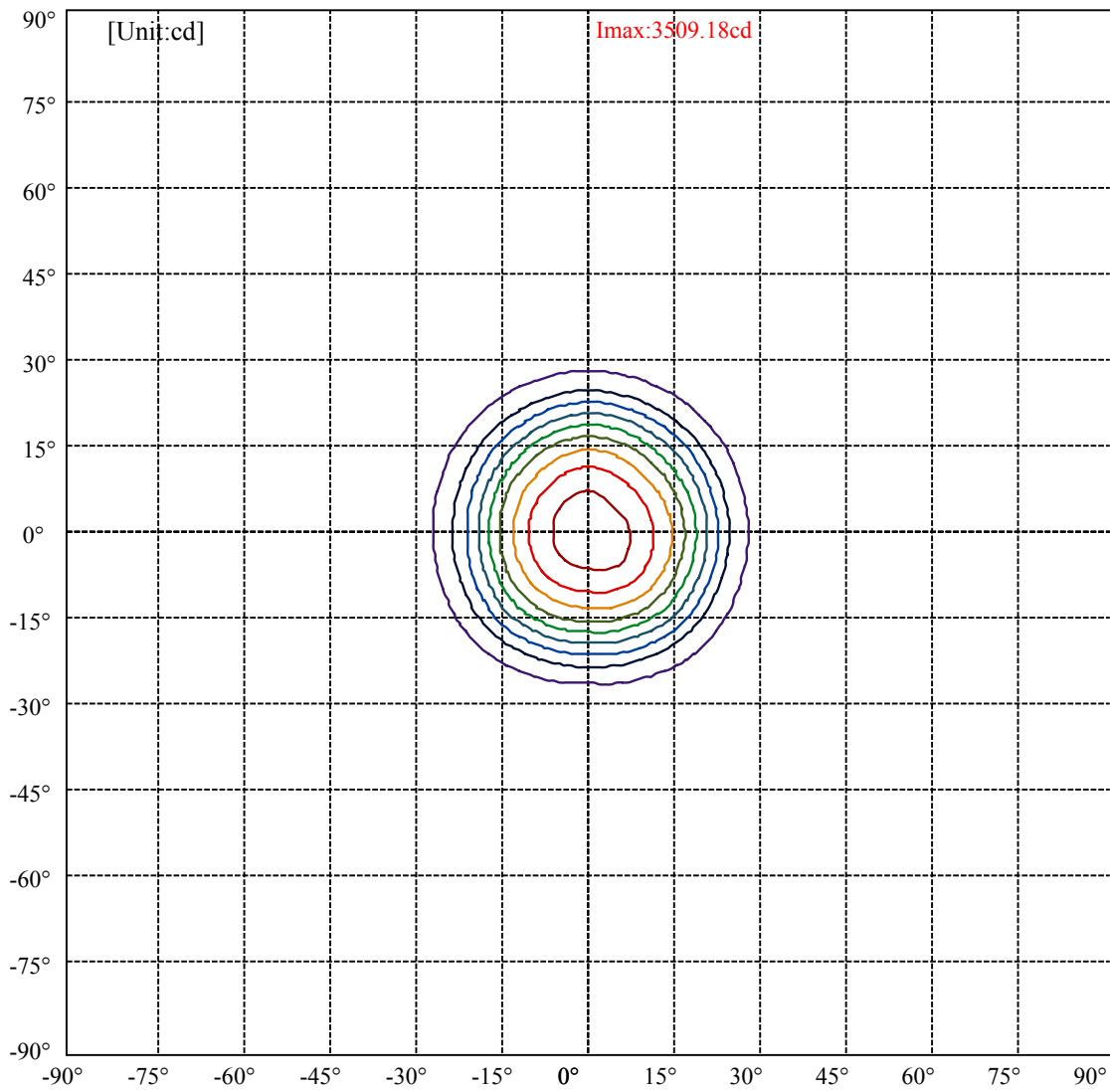
C90/C270: —

Field angle(10%Imax):C0/180Left:26.7 Right:27.6
 :C90/270Left:26.0 Right:27.8

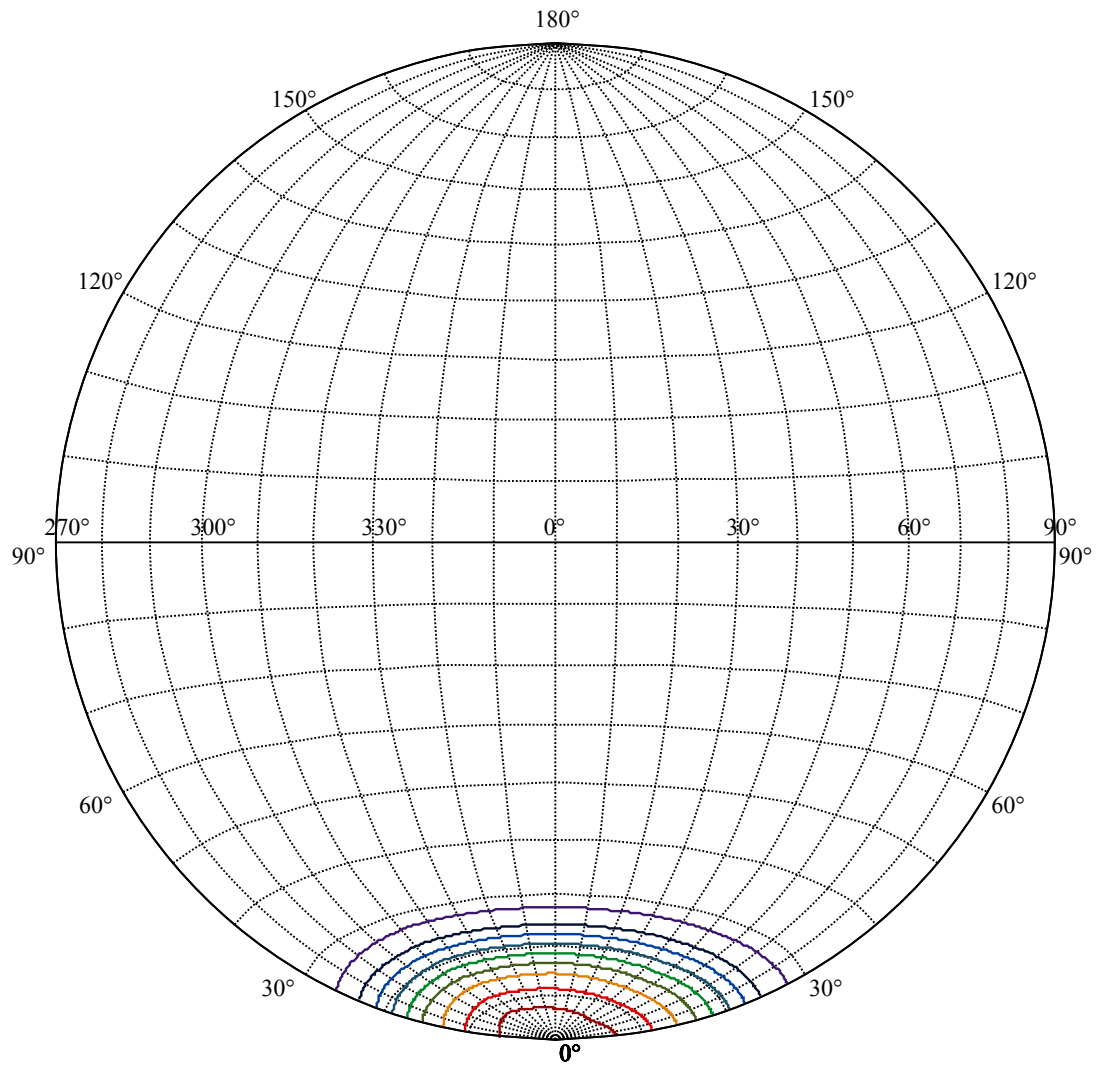
Beam Angle(50%Imax):C0/180Left:17.1 Right:18.7
 :C90/270Left:17.3 Right:18.4



Max , Ave Beam angle of C90 plane 37.01



(10%Imax) 350.918	—
(20%Imax) 701.836	—
(30%Imax) 1052.75	—
(40%Imax) 1403.67	—
(50%Imax) 1754.59	—
(60%Imax) 2105.51	—
(70%Imax) 2456.43	—
(80%Imax) 2807.34	—
(90%Imax) 3158.26	—



House

[Unit:cd]

Road

Imax:3509.18

(10%Imax)	350.918	—
(20%Imax)	701.836	—
(30%Imax)	1052.75	—
(40%Imax)	1403.67	—
(50%Imax)	1754.59	—
(60%Imax)	2105.51	—
(70%Imax)	2456.43	—
(80%Imax)	2807.34	—
(90%Imax)	3158.26	—

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	3490.97	3316.32	2954.52	2402.61	1509.44	567.57	143.96	62.88	37.47
45.0	3467.48	3225.50	2879.37	2293.16	1409.09	541.54	146.08	63.93	35.57
90.0	3509.18	3305.10	2960.02	2352.23	1481.49	577.74	167.46	63.51	37.47
135.0	3506.64	3279.48	2852.27	2227.75	1271.91	505.12	154.33	67.75	35.35
180.0	3490.97	3237.36	2836.39	2158.52	1168.60	462.99	128.29	63.72	35.78
225.0	3467.48	3267.21	2878.10	2240.02	1324.41	494.96	126.39	60.12	36.84
270.0	3509.18	3269.32	2853.54	2196.20	1224.28	413.88	110.51	58.85	35.78
315.0	3506.64	3368.19	3028.40	2409.17	1502.88	568.85	154.33	66.05	37.26
360.0	3490.97	3316.32	2954.52	2402.61	1509.44	567.57	143.96	62.88	37.47
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	28.16	20.96	16.72	12.70	9.32	6.35	4.02	2.12	0.42
45.0	27.73	20.54	16.30	12.49	9.10	6.35	4.02	2.12	0.42
90.0	28.58	22.44	17.78	13.97	10.37	7.41	4.45	2.54	0.85
135.0	27.95	21.81	17.78	13.55	9.95	6.56	4.45	2.12	0.42
180.0	27.95	21.59	17.36	13.55	9.74	6.56	4.23	1.69	0.21
225.0	28.58	21.38	17.36	13.34	9.95	6.99	4.66	2.12	0.42
270.0	27.52	21.17	16.72	13.34	9.74	6.99	4.87	2.75	0.85
315.0	28.16	21.17	16.51	13.13	9.53	6.77	4.45	2.54	0.64
360.0	28.16	20.96	16.72	12.70	9.32	6.35	4.02	2.12	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	0.00	0.00	0.21	0.21	0.42	0.21	0.42	0.42	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	0.00	0.21	0.64	0.85	1.27	1.48	1.48	1.69
45.0	0.00	0.21	0.21	0.64	1.06	1.27	1.69	1.91	1.91
90.0	0.00	0.00	0.00	0.64	0.85	1.27	1.48	1.69	1.69
135.0	0.00	0.00	0.21	0.42	0.85	1.06	1.48	1.69	1.48
180.0	0.00	0.00	0.00	0.42	0.85	1.27	1.48	1.69	1.69
225.0	0.00	0.00	0.00	0.42	0.85	1.06	1.27	1.69	1.69
270.0	0.42	0.64	0.85	1.06	1.48	1.91	2.33	2.33	2.54
315.0	0.00	0.00	0.42	0.42	0.85	1.27	1.48	1.69	1.69
360.0	0.00	0.00	0.21	0.64	0.85	1.27	1.48	1.48	1.69
C/ γ (°)	180.0								
0.0	2.12								
45.0	1.69								
90.0	2.12								
135.0	1.69								
180.0	2.12								
225.0	1.69								
270.0	2.12								
315.0	1.69								
360.0	2.12								