



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

LumCAT:LD4R-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.1120

Lamp flux(lm): -1.0

Power (W): 13.20

Number of Lamps: 1

PF: 0.9797

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1121.98, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 85.00

Central intensity(cd): 2960.659, Maximum intensity(cd): 3031.792

Angle of maximum intensity: C=180.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=36.1

[C90/270]Total=35.9

Field angle(10%Imax): [C0/180]Total=53.6

[C90/270]Total=53.3

Maximum s/h(1/2): C0_180=0.69 C90_270=0.63

Maximum s/h(1/4): C0_180=0.63 C90_270=0.58

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.09%

Down flux rate of LUM(%): 99.91%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.808%

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

Date:
Humidity(%): 59%

Operator: Tester

Zonal flux distribution table

Appendix Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2974.420	0.000	0	0.00%	0.00%
5.0	2833.982	69.438	69.438	0.00%	6.19%
10.0	2500.048	190.815	260.253	0.00%	23.20%
15.0	1978.704	265.677	525.929	0.00%	46.88%
20.0	1178.812	260.224	786.153	0.00%	70.07%
25.0	471.250	173.061	959.214	0.00%	85.49%
30.0	131.388	76.264	1035.478	0.00%	92.29%
35.0	54.249	27.336	1062.815	0.00%	94.73%
40.0	31.650	14.332	1077.146	0.00%	96.00%
45.0	23.631	10.236	1087.382	0.00%	96.92%
50.0	17.915	8.395	1095.777	0.00%	97.66%
55.0	14.263	6.997	1102.774	0.00%	98.29%
60.0	10.956	5.829	1108.603	0.00%	98.81%
65.0	7.912	4.587	1113.19	0.00%	99.22%
70.0	5.531	3.404	1116.594	0.00%	99.52%
75.0	3.440	2.345	1118.939	0.00%	99.73%
80.0	1.720	1.381	1120.319	0.00%	99.85%
85.0	0.318	0.554	1120.873	0.00%	99.90%
90.0	0.000	0.087	1120.96	0.00%	99.91%
95.0	0.000	0.000	1120.96	0.00%	99.91%
100.0	0.000	0.000	1120.96	0.00%	99.91%
105.0	0.000	0.000	1120.96	0.00%	99.91%
110.0	0.000	0.000	1120.96	0.00%	99.91%
115.0	0.000	0.000	1120.96	0.00%	99.91%
120.0	0.000	0.000	1120.96	0.00%	99.91%
125.0	0.000	0.000	1120.96	0.00%	99.91%
130.0	0.000	0.000	1120.96	0.00%	99.91%
135.0	0.053	0.011	1120.971	0.00%	99.91%
140.0	0.080	0.025	1120.995	0.00%	99.91%
145.0	0.212	0.049	1121.044	0.00%	99.92%
150.0	0.450	0.097	1121.141	0.00%	99.93%
155.0	0.741	0.151	1121.292	0.00%	99.94%
160.0	1.085	0.192	1121.483	0.00%	99.96%
165.0	1.217	0.190	1121.673	0.00%	99.97%
170.0	1.456	0.159	1121.832	0.00%	99.99%
175.0	1.614	0.110	1121.941	0.00%	100.00%
180.0	1.641	0.039	1121.98	0.00%	100.00%

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

Date:
Humidity(%): 59%

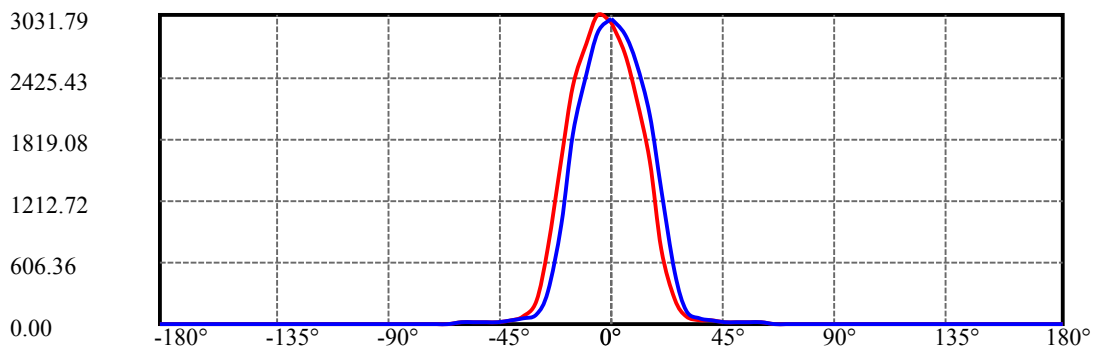
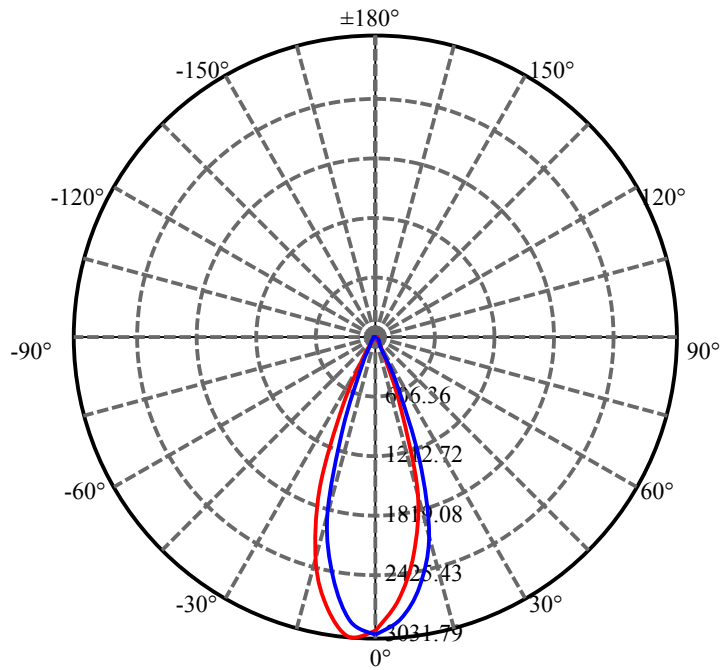
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1035.48	N.A.	92.29%
0-40	1077.15	N.A.	96.00%
0-60	1108.60	N.A.	98.81%
0-90	1120.96	N.A.	99.91%
0-120	1120.96	N.A.	99.91%
0-180	1121.98	N.A.	100.00%
60-90	12.36	N.A.	1.10%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.18	N.A.	0.02%
90-180	0.98	N.A.	0.09%
0-23.22	897.58	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	260.25
10-20	525.90
20-30	249.33
30-40	41.67
40-50	18.63
50-60	12.83
60-70	7.99
70-80	3.73
80-90	0.64
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.04
140-150	0.15
150-160	0.34
160-170	0.35
170-180	0.11

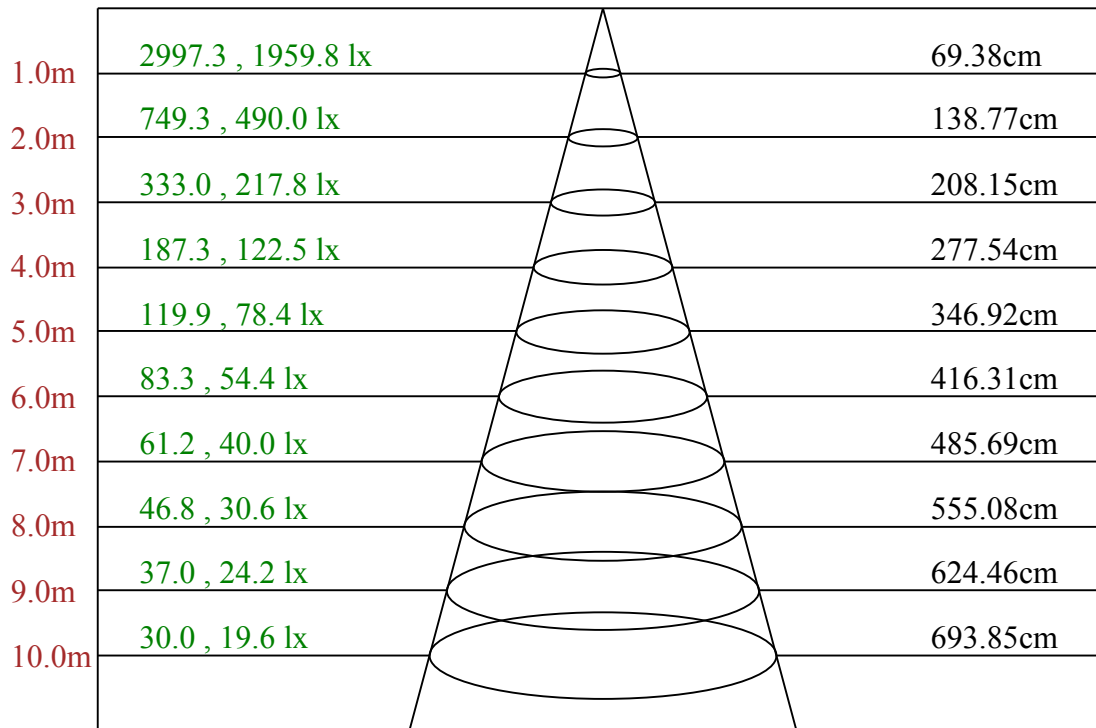


C0/C180: —

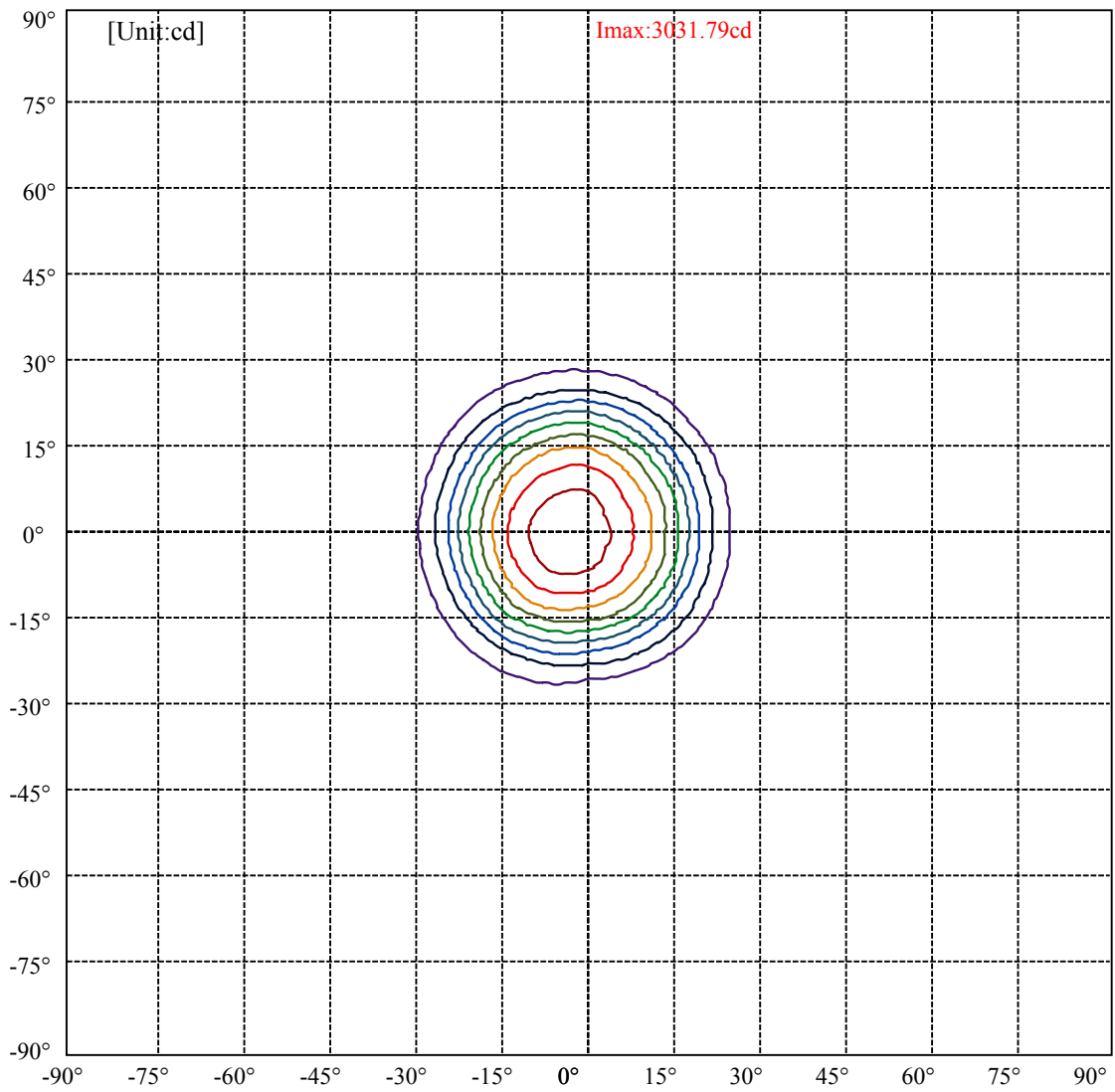
C90/C270: —

Field angle(10%Imax):C0/180Left:29.2 Right:24.4
:C90/270Left:25.5 Right:27.8

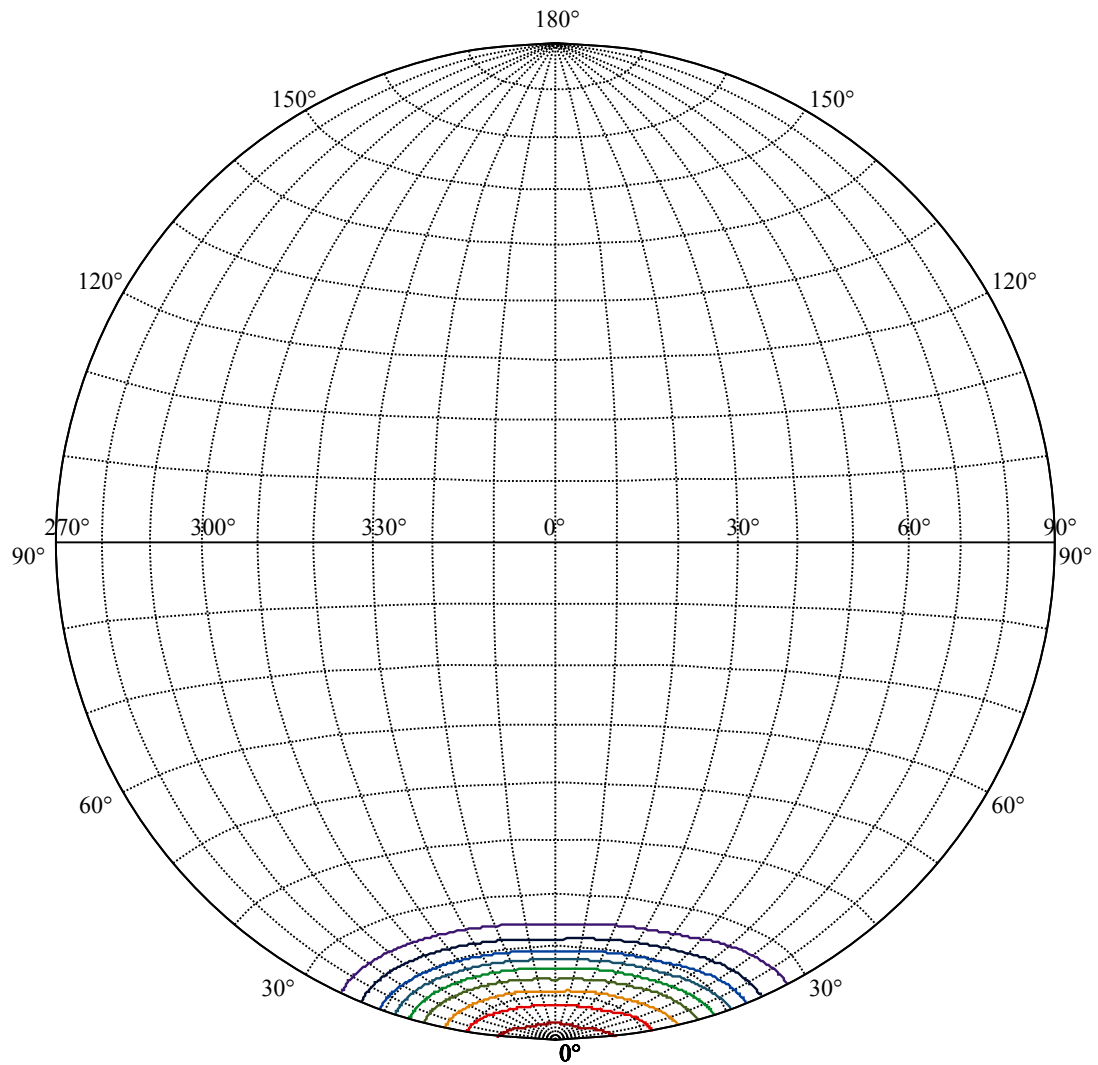
Beam Angle(50%Imax):C0/180Left:20.6 Right:15.5
:C90/270Left:17.1 Right:18.8



Max , Ave Beam angle of C180 plane 38.27



(10%I _{max}) 303.179	—
(20%I _{max}) 606.358	—
(30%I _{max}) 909.538	—
(40%I _{max}) 1212.72	—
(50%I _{max}) 1515.9	—
(60%I _{max}) 1819.08	—
(70%I _{max}) 2122.25	—
(80%I _{max}) 2425.43	—
(90%I _{max}) 2728.61	—



House

[Unit:cd]

Road

Imax:3031.79

(10%Imax) 303.179	—
(20%Imax) 606.358	—
(30%Imax) 909.538	—
(40%Imax) 1212.72	—
(50%Imax) 1515.9	—
(60%Imax) 1819.08	—
(70%Imax) 2122.25	—
(80%Imax) 2425.43	—
(90%Imax) 2728.61	—

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	2960.66	2661.10	2225.21	1605.98	743.29	241.98	67.96	42.55	29.00
45.0	2973.36	2661.74	2321.95	1738.71	902.91	319.25	84.47	50.81	28.79
90.0	2986.28	2844.22	2556.52	2055.21	1314.46	504.28	134.01	51.02	31.97
135.0	2977.38	2933.14	2654.11	2250.40	1529.76	713.86	199.85	61.82	35.14
180.0	2960.66	3031.79	2756.37	2339.74	1617.41	758.32	219.75	70.07	37.05
225.0	2973.36	3009.35	2705.14	2259.92	1481.92	610.97	158.99	55.68	34.08
270.0	2986.28	2859.47	2456.17	1867.00	985.05	322.00	101.19	52.93	28.79
315.0	2977.38	2671.05	2324.92	1712.67	855.70	299.35	84.89	49.12	28.37
360.0	2960.66	2661.10	2225.21	1605.98	743.29	241.98	67.96	42.55	29.00

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	23.08	17.57	13.97	10.59	7.41	5.08	2.75	1.06	0.21
45.0	22.65	17.15	13.76	10.37	7.62	5.29	3.39	1.69	0.00
90.0	23.71	18.21	14.82	11.22	8.26	5.93	3.60	1.91	0.64
135.0	24.35	18.21	14.18	11.43	8.05	5.50	3.60	2.12	0.42
180.0	25.40	18.63	14.40	11.22	8.26	5.93	3.60	1.69	0.21
225.0	24.56	18.63	14.61	11.43	8.47	5.72	3.81	1.91	0.42
270.0	22.65	17.57	14.18	10.80	7.62	5.50	3.39	1.69	0.42
315.0	22.65	17.36	14.18	10.59	7.62	5.29	3.39	1.69	0.21
360.0	23.08	17.57	13.97	10.59	7.41	5.08	2.75	1.06	0.21

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.21	0.21	0.64	0.64	1.06	1.27	1.27	1.48	1.91
45.0	0.21	0.21	0.42	0.64	1.06	1.27	1.48	1.48	1.69
90.0	0.00	0.00	0.00	0.21	0.42	0.85	0.85	1.48	1.69
135.0	0.00	0.00	0.00	0.21	0.42	0.85	0.85	1.48	1.69
180.0	0.00	0.00	0.00	0.00	0.42	0.64	1.06	1.06	1.06
225.0	0.00	0.00	0.00	0.42	0.42	0.85	1.06	1.27	1.48
270.0	0.00	0.21	0.42	0.85	1.27	1.48	1.91	1.69	1.91
315.0	0.00	0.00	0.21	0.64	0.85	1.48	1.27	1.69	1.48
360.0	0.21	0.21	0.64	0.64	1.06	1.27	1.27	1.48	1.91

C/γ(°)	180.0
0.0	1.48
45.0	1.69
90.0	1.91
135.0	1.48
180.0	1.48
225.0	1.69
270.0	1.91
315.0	1.48
360.0	1.48