



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

LumCAT:LD4R-HO-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.1550

Lamp flux(lm): -1.0

Power (W): 18.30

Number of Lamps: 0

PF: 0.9840

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1467.63, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 80.20

Central intensity(cd): 3994.403, Maximum intensity(cd): 3994.403

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.7

[C90/270]Total=35.6

Field angle(10%Imax): [C0/180]Total=53.4

[C90/270]Total=54.2

Maximum s/h(1/2): C0_180=0.63 C90_270=0.60

Maximum s/h(1/4): C0_180=0.59 C90_270=0.57

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 : 98.812%

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	3981.807	0.000	0	0.00%	0.00%
5.0	3720.513	92.079	92.079	0.00%	6.27%
10.0	3277.313	250.334	342.413	0.00%	23.33%
15.0	2577.108	347.280	689.694	0.00%	46.99%
20.0	1561.386	341.070	1030.764	0.00%	70.23%
25.0	604.781	227.191	1257.954	0.00%	85.71%
30.0	177.883	99.047	1357.001	0.00%	92.46%
35.0	68.512	36.283	1393.285	0.00%	94.93%
40.0	38.953	17.930	1411.214	0.00%	96.16%
45.0	29.321	12.641	1423.856	0.00%	97.02%
50.0	22.044	10.379	1434.235	0.00%	97.72%
55.0	17.809	8.665	1442.9	0.00%	98.32%
60.0	13.734	7.291	1450.191	0.00%	98.81%
65.0	10.215	5.822	1456.013	0.00%	99.21%
70.0	7.172	4.402	1460.416	0.00%	99.51%
75.0	4.578	3.071	1463.487	0.00%	99.72%
80.0	2.276	1.834	1465.321	0.00%	99.84%
85.0	0.582	0.777	1466.097	0.00%	99.90%
90.0	0.000	0.159	1466.257	0.00%	99.91%
95.0	0.000	0.000	1466.257	0.00%	99.91%
100.0	0.000	0.000	1466.257	0.00%	99.91%
105.0	0.000	0.000	1466.257	0.00%	99.91%
110.0	0.000	0.000	1466.257	0.00%	99.91%
115.0	0.000	0.000	1466.257	0.00%	99.91%
120.0	0.000	0.000	1466.257	0.00%	99.91%
125.0	0.000	0.000	1466.257	0.00%	99.91%
130.0	0.000	0.000	1466.257	0.00%	99.91%
135.0	0.000	0.000	1466.257	0.00%	99.91%
140.0	0.106	0.020	1466.276	0.00%	99.91%
145.0	0.318	0.071	1466.347	0.00%	99.91%
150.0	0.635	0.140	1466.487	0.00%	99.92%
155.0	0.926	0.198	1466.685	0.00%	99.94%
160.0	1.456	0.250	1466.935	0.00%	99.95%
165.0	1.773	0.266	1467.201	0.00%	99.97%
170.0	1.985	0.223	1467.424	0.00%	99.99%
175.0	2.196	0.150	1467.573	0.00%	100.00%
180.0	2.276	0.053	1467.627	0.00%	100.00%

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

Date:
Humidity(%): 59%

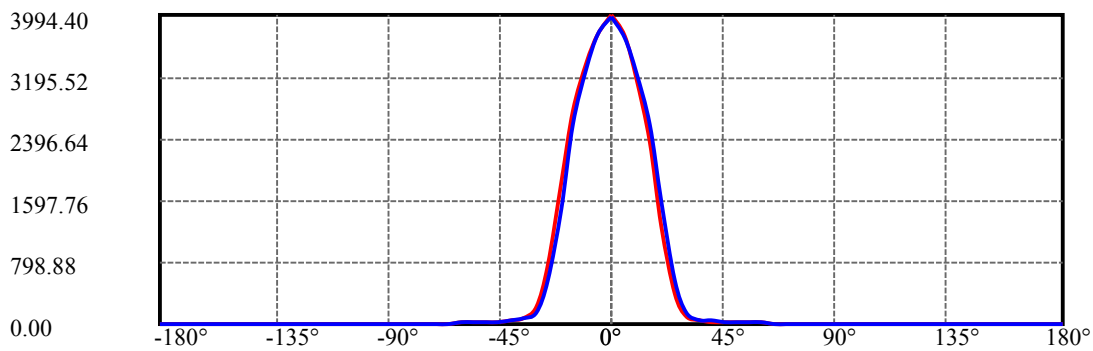
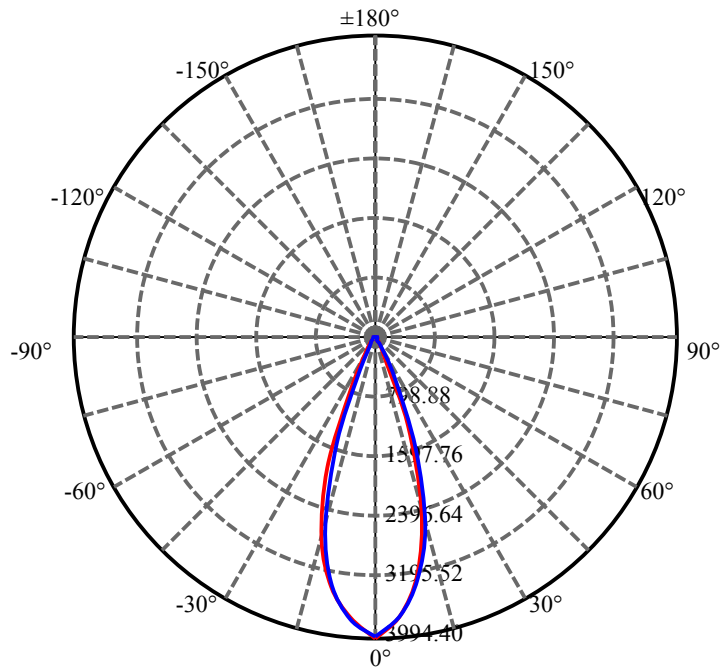
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1357.00	N.A.	92.46%
0-40	1411.21	N.A.	96.16%
0-60	1450.19	N.A.	98.81%
0-90	1466.26	N.A.	99.91%
0-120	1466.26	N.A.	99.91%
0-180	1467.63	N.A.	100.00%
60-90	16.07	N.A.	1.09%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.23	N.A.	0.02%
90-180	1.32	N.A.	0.09%
0-23.15	1174.10	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	342.41
10-20	688.35
20-30	326.24
30-40	54.21
40-50	23.02
50-60	15.96
60-70	10.22
70-80	4.91
80-90	0.94
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.02
140-150	0.21
150-160	0.45
160-170	0.49
170-180	0.15

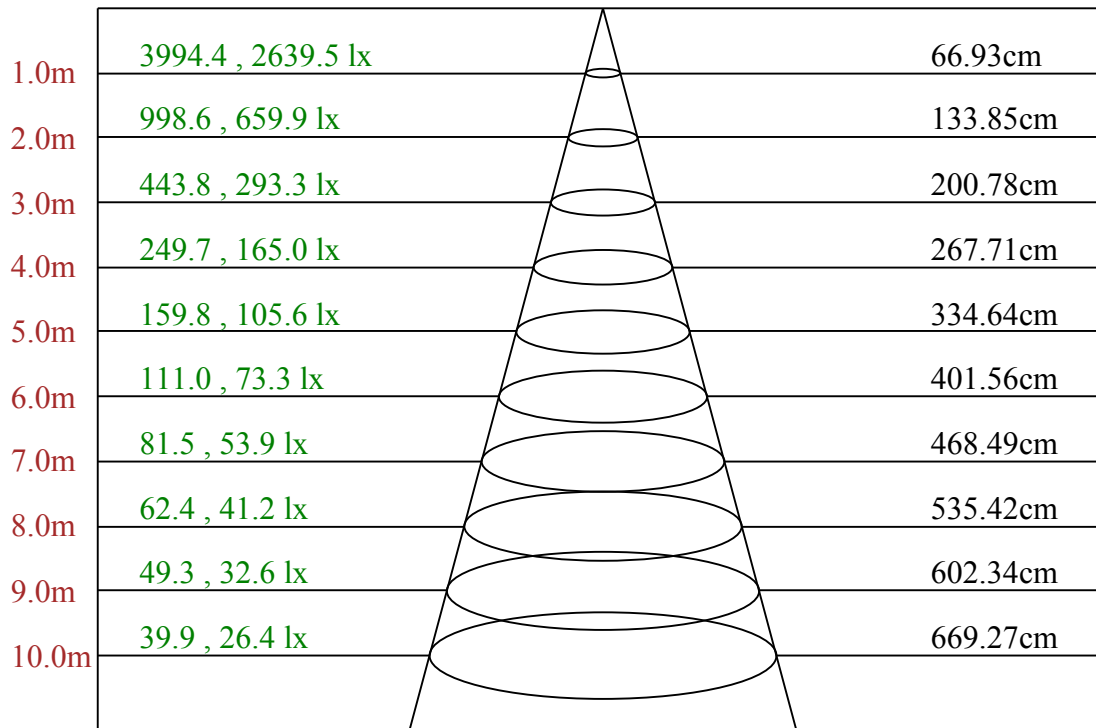


C0/C180: —

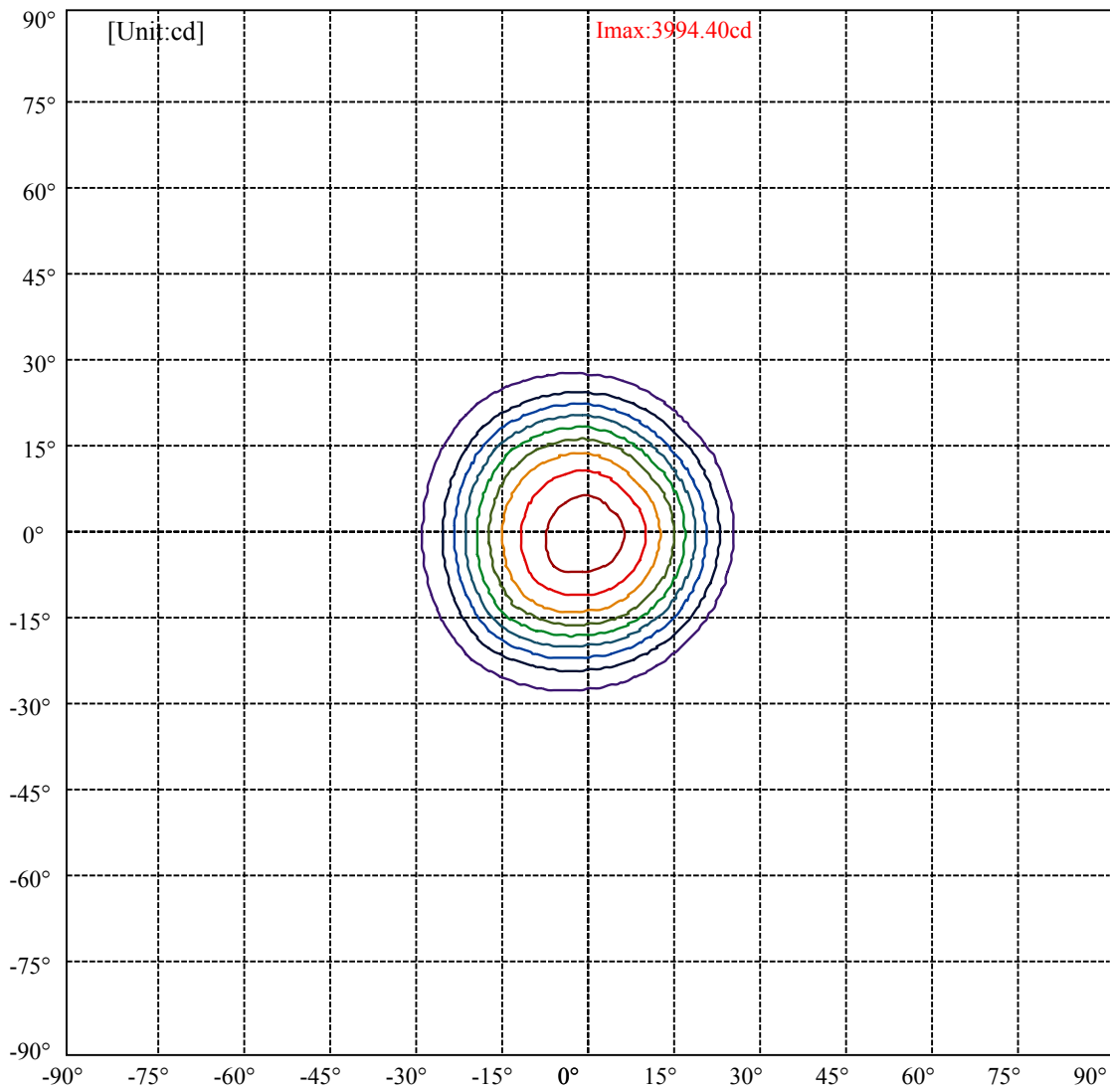
C90/C270: —

Field angle(10%Imax):C0/180Left:28.5 Right:24.9
:C90/270Left:27.1 Right:27.1

Beam Angle(50%Imax):C0/180Left:19.1 Right:16.6
:C90/270Left:17.7 Right:17.9



Max , Ave Beam angle of C0 plane 37.00

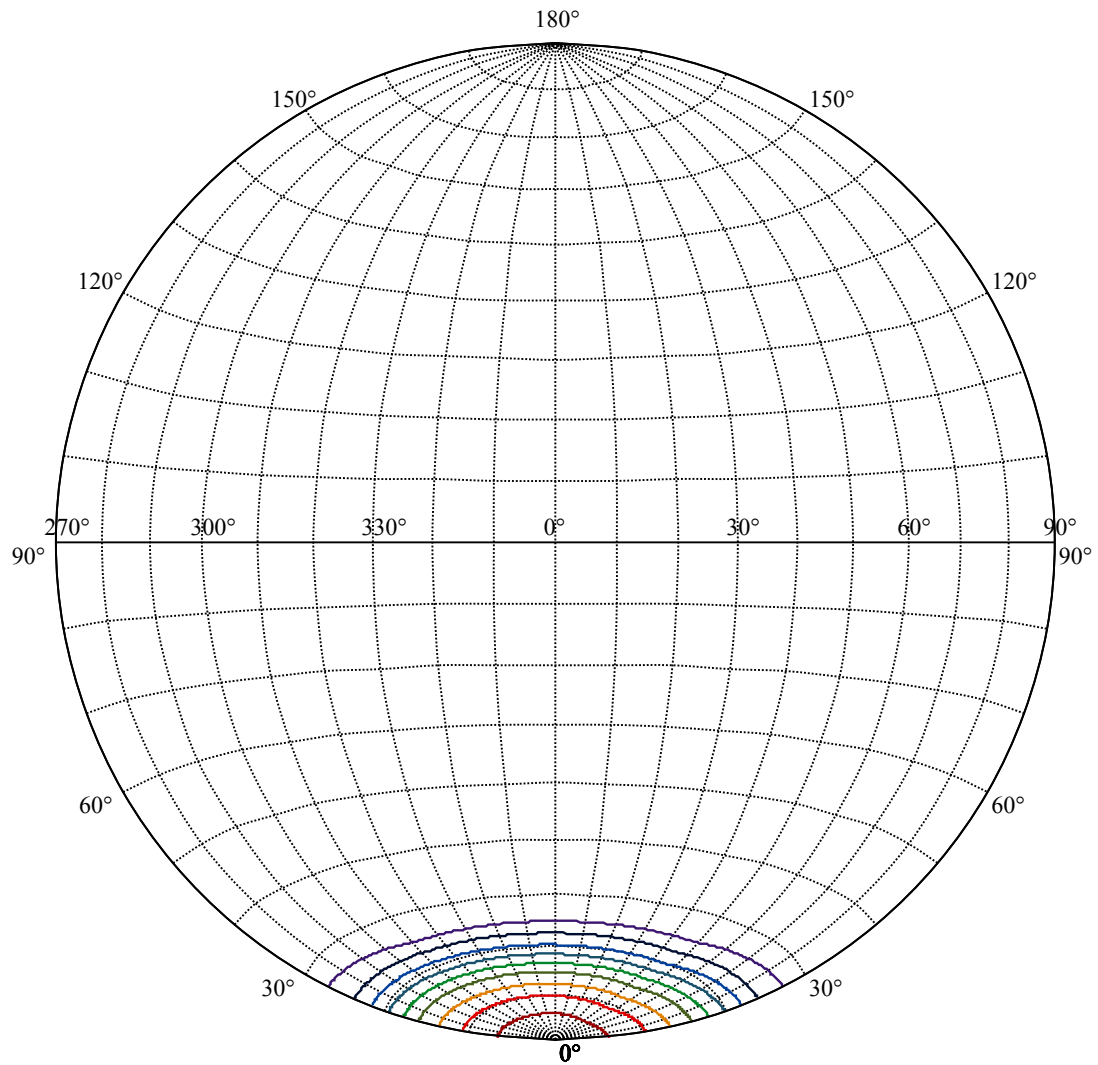


(10%I _{max})	397.874	—
(20%I _{max})	795.747	—
(30%I _{max})	1193.62	—
(40%I _{max})	1591.49	—
(50%I _{max})	1989.37	—
(60%I _{max})	2387.24	—
(70%I _{max})	2785.12	—
(80%I _{max})	3182.99	—
(90%I _{max})	3580.86	—

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

Date:
Humidity(%): 59%

Operator: Tester



House

[Unit:cd]

Road

Imax:3994.40

(10%Imax) 399.44	—
(20%Imax) 798.881	—
(30%Imax) 1198.32	—
(40%Imax) 1597.76	—
(50%Imax) 1997.2	—
(60%Imax) 2396.64	—
(70%Imax) 2796.08	—
(80%Imax) 3195.52	—
(90%Imax) 3594.96	—

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	3994.40	3712.20	3181.04	2356.46	1254.13	388.05	102.46	60.34	34.08
45.0	3963.07	3629.64	3106.95	2281.73	1165.00	374.08	96.33	58.64	35.35
90.0	3978.74	3697.17	3254.93	2572.40	1582.05	580.70	151.37	61.18	38.53
135.0	3991.02	3696.96	3296.21	2724.82	1817.68	824.37	265.26	83.20	39.59
180.0	3994.40	3737.82	3365.65	2754.89	1830.59	773.35	235.20	67.96	41.71
225.0	3963.07	3831.39	3471.71	2889.10	2025.78	948.64	318.40	90.61	45.94
270.0	3978.74	3742.48	3299.38	2592.30	1491.66	566.30	156.87	70.92	39.38
315.0	3991.02	3716.44	3242.65	2445.16	1324.20	382.76	97.17	55.25	37.05
360.0	3994.40	3712.20	3181.04	2356.46	1254.13	388.05	102.46	60.34	34.08
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	26.89	20.96	16.94	12.91	9.74	6.77	4.02	1.91	0.21
45.0	27.52	20.75	16.94	13.13	9.53	6.56	4.23	1.91	0.21
90.0	29.85	22.23	18.42	13.97	10.80	7.41	4.87	2.33	0.64
135.0	30.27	22.65	18.42	14.18	10.37	7.41	4.87	2.33	0.85
180.0	30.70	23.08	18.42	14.40	10.59	7.62	4.66	2.33	0.64
225.0	31.33	23.50	19.05	14.61	10.80	7.41	5.08	2.54	0.85
270.0	29.64	21.59	17.15	13.55	9.95	7.20	4.45	2.54	0.64
315.0	28.37	21.59	17.15	13.13	9.95	6.99	4.45	2.33	0.64
360.0	26.89	20.96	16.94	12.91	9.74	6.77	4.02	1.91	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	0.00	0.21	0.42	0.85	1.27	1.69	1.91	1.91	2.12
45.0	0.00	0.21	0.42	0.85	1.06	1.69	1.91	2.12	2.12
90.0	0.00	0.00	0.21	0.42	0.64	1.27	1.69	1.91	2.12
135.0	0.00	0.00	0.21	0.64	0.64	1.27	1.69	1.91	1.91
180.0	0.00	0.00	0.00	0.42	0.85	1.27	1.69	1.69	2.12
225.0	0.00	0.00	0.00	0.21	0.64	1.27	1.48	2.12	2.12
270.0	0.00	0.21	0.64	0.85	1.27	1.69	2.12	2.12	2.75
315.0	0.00	0.21	0.64	0.85	1.06	1.48	1.69	2.12	2.33
360.0	0.00	0.21	0.42	0.85	1.27	1.69	1.91	1.91	2.12
C/ γ (°)	180.0								
0.0	2.12								
45.0	2.33								
90.0	2.54								
135.0	2.12								
180.0	2.12								
225.0	2.33								
270.0	2.54								
315.0	2.12								
360.0	2.12								