



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

LumCAT:LD4S-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.15

LampCAT:

Current(A): 0.1120

Lamp flux(lm): -1.0

Power (W): 13.20

Number of Lamps: 0

PF: 0.9774

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1302.09, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 98.64

Central intensity(cd): 3624.759, Maximum intensity(cd): 3660.601

Angle of maximum intensity: C=90.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.9

[C90/270]Total=34.8

Field angle(10%Imax): [C0/180]Total=50.0

[C90/270]Total=50.7

Maximum s/h(1/2): C0\_180=0.60 C90\_270=0.60

Maximum s/h(1/4): C0\_180=0.54 C90\_270=0.56

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  $\pi$  solid angle : 97.877%

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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	3640.427	0.000	0	0.00%	0.00%
5.0	3390.311	84.050	84.05	0.00%	6.46%
10.0	2962.434	227.258	311.308	0.00%	23.91%
15.0	2343.758	314.760	626.068	0.00%	48.08%
20.0	1337.313	303.372	929.44	0.00%	71.38%
25.0	413.792	183.659	1113.098	0.00%	85.49%
30.0	115.950	67.039	1180.138	0.00%	90.63%
35.0	62.670	26.303	1206.441	0.00%	92.65%
40.0	43.783	17.761	1224.202	0.00%	94.02%
45.0	35.171	14.619	1238.821	0.00%	95.14%
50.0	29.859	13.140	1251.961	0.00%	96.15%
55.0	25.111	11.952	1263.913	0.00%	97.07%
60.0	20.470	10.536	1274.449	0.00%	97.88%
65.0	15.829	8.824	1283.273	0.00%	98.55%
70.0	11.751	6.983	1290.256	0.00%	99.09%
75.0	7.995	5.161	1295.417	0.00%	99.49%
80.0	4.641	3.381	1298.798	0.00%	99.75%
85.0	1.663	1.713	1300.512	0.00%	99.88%
90.0	0.000	0.455	1300.967	0.00%	99.91%
95.0	0.000	0.000	1300.967	0.00%	99.91%
100.0	0.000	0.000	1300.967	0.00%	99.91%
105.0	0.000	0.000	1300.967	0.00%	99.91%
110.0	0.000	0.000	1300.967	0.00%	99.91%
115.0	0.000	0.000	1300.967	0.00%	99.91%
120.0	0.000	0.000	1300.967	0.00%	99.91%
125.0	0.000	0.000	1300.967	0.00%	99.91%
130.0	0.000	0.000	1300.967	0.00%	99.91%
135.0	0.027	0.005	1300.972	0.00%	99.91%
140.0	0.054	0.015	1300.987	0.00%	99.91%
145.0	0.188	0.040	1301.028	0.00%	99.92%
150.0	0.456	0.095	1301.122	0.00%	99.93%
155.0	0.805	0.160	1301.282	0.00%	99.94%
160.0	1.234	0.214	1301.496	0.00%	99.95%
165.0	1.610	0.234	1301.73	0.00%	99.97%
170.0	1.690	0.196	1301.926	0.00%	99.99%
175.0	1.798	0.125	1302.051	0.00%	100.00%
180.0	1.878	0.044	1302.095	0.00%	100.00%

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

Date:  
Humidity(%): 59%

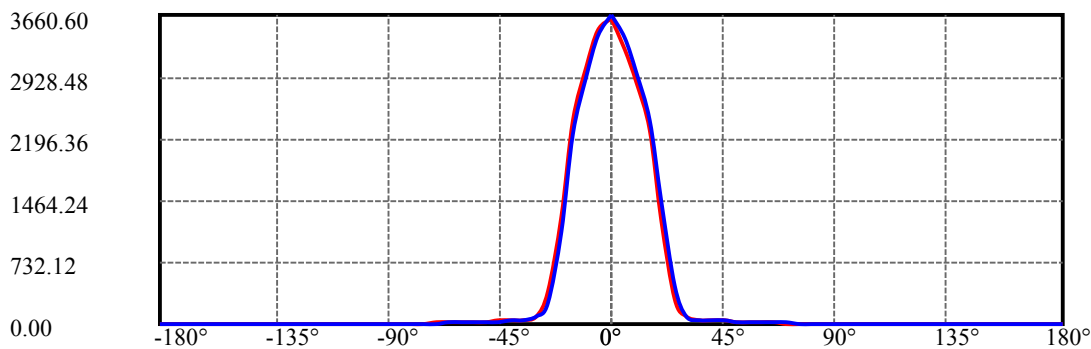
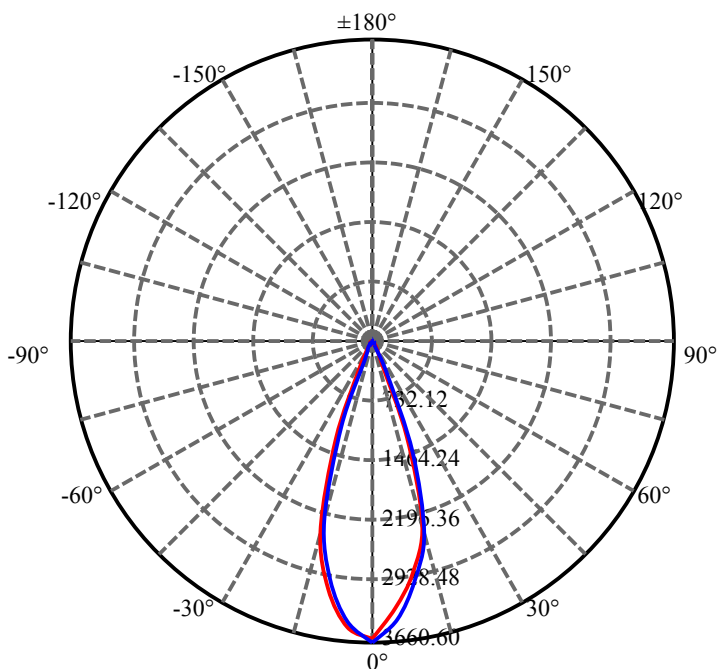
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1180.14	N.A.	90.63%
0-40	1224.20	N.A.	94.02%
0-60	1274.45	N.A.	97.88%
0-90	1300.97	N.A.	99.91%
0-120	1300.97	N.A.	99.91%
0-180	1302.09	N.A.	100.00%
60-90	26.52	N.A.	2.04%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.16	N.A.	0.01%
90-180	1.08	N.A.	0.08%
0-23.06	1041.68	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	311.31
10-20	618.13
20-30	250.70
30-40	44.06
40-50	27.76
50-60	22.49
60-70	15.81
70-80	8.54
80-90	2.17
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.02
140-150	0.14
150-160	0.37
160-170	0.43
170-180	0.12

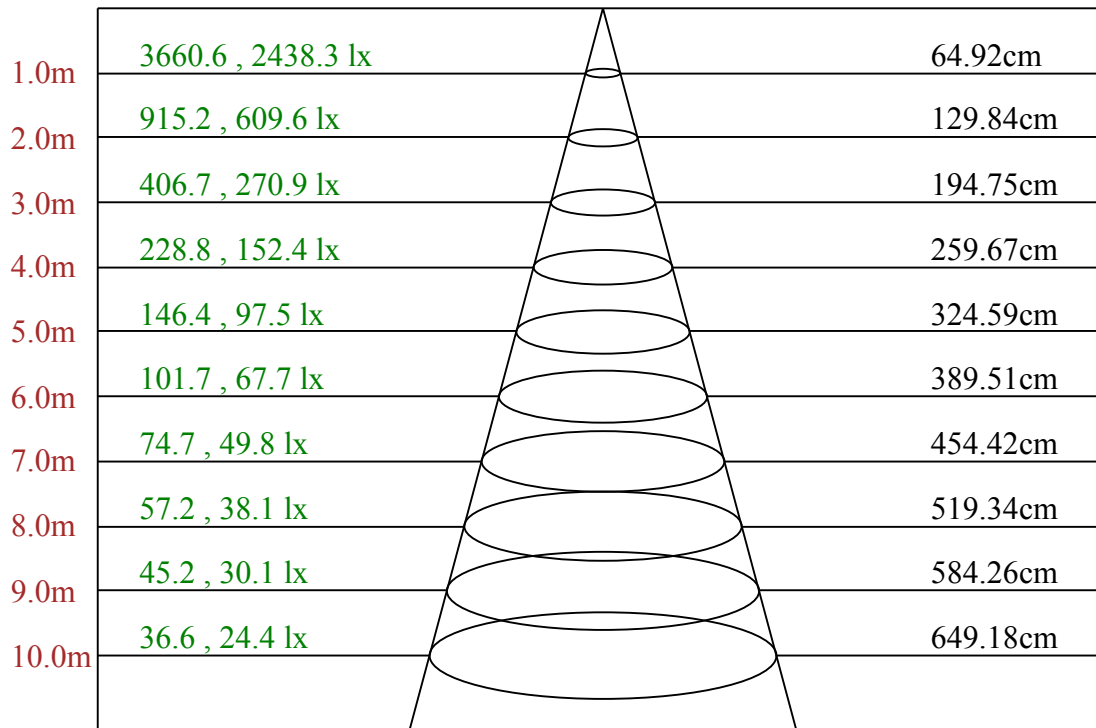


C0/C180: —

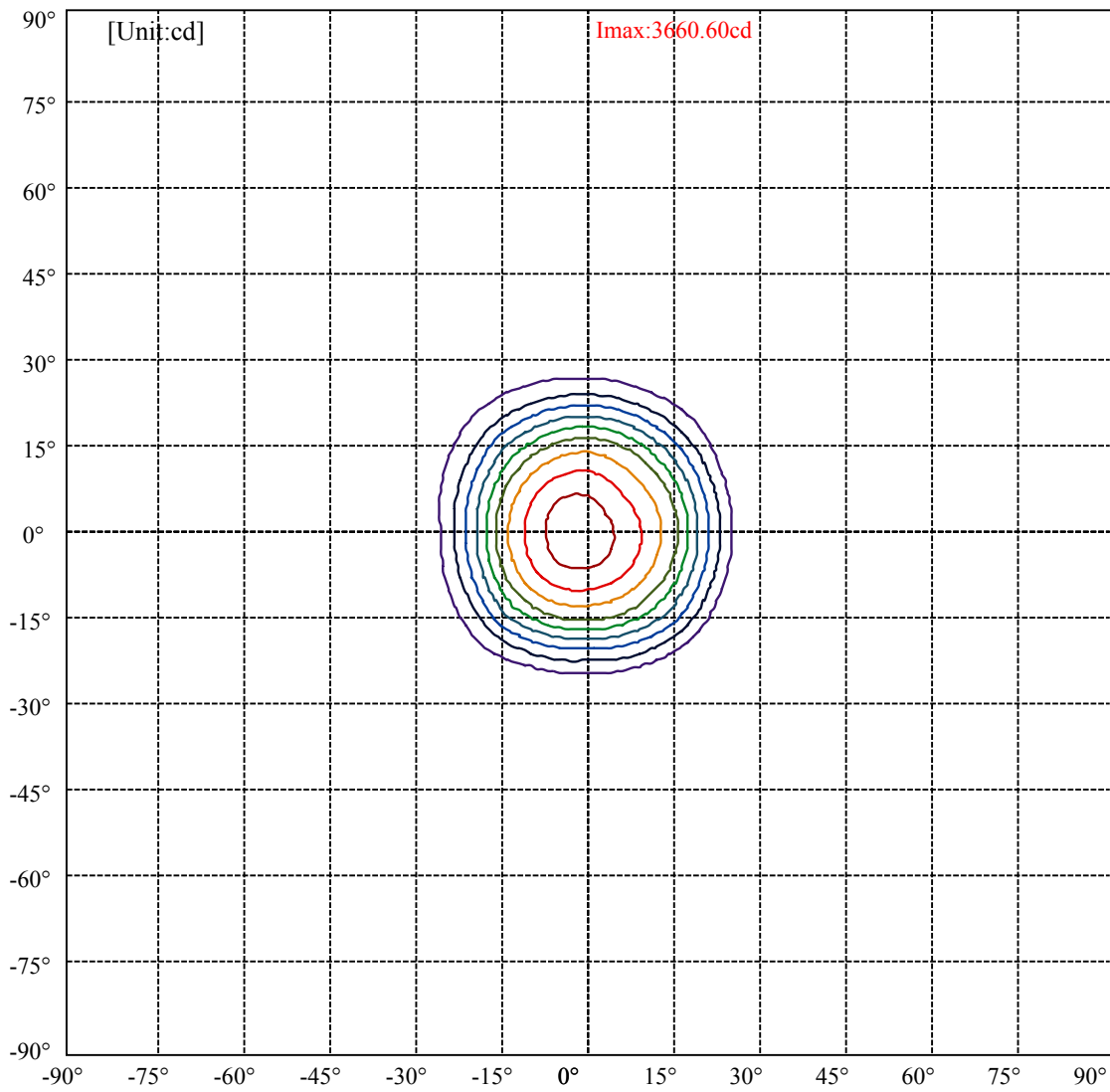
C90/C270: —

Field angle(10%Imax):C0/180Left:25.3 Right:24.7  
 :C90/270Left:24.3 Right:26.4

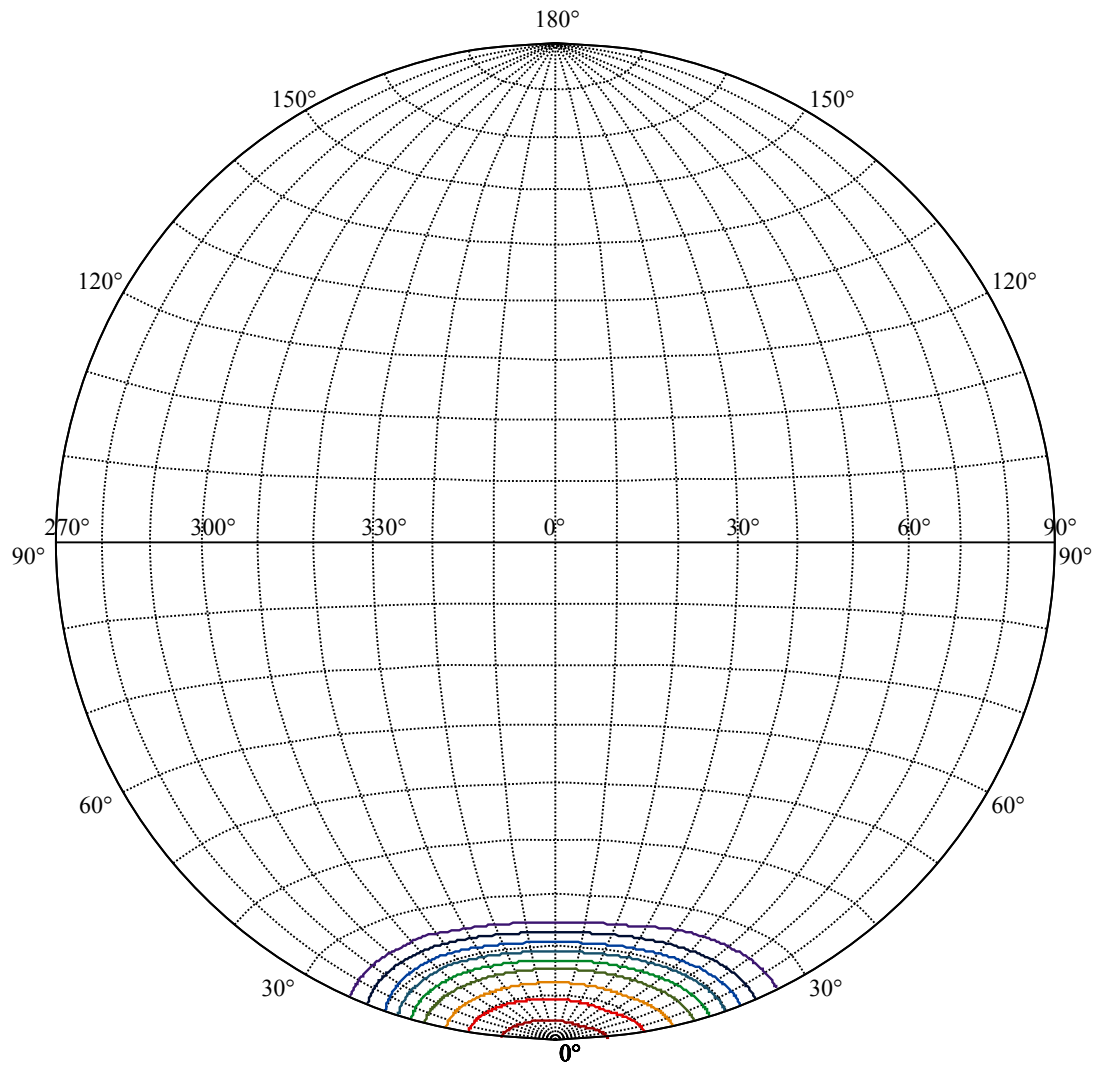
Beam Angle(50%Imax):C0/180Left:17.6 Right:17.3  
 :C90/270Left:16.8 Right:18.0



Max , Ave      Beam angle of C90 plane 35.97



(10%Imax) 366.06	—
(20%Imax) 732.12	—
(30%Imax) 1098.18	—
(40%Imax) 1464.24	—
(50%Imax) 1830.3	—
(60%Imax) 2196.36	—
(70%Imax) 2562.42	—
(80%Imax) 2928.48	—
(90%Imax) 3294.54	—



House

[Unit:cd]

Road

**Imax:3660.60**

(10%Imax)	366.06	—
(20%Imax)	732.12	—
(30%Imax)	1098.18	—
(40%Imax)	1464.24	—
(50%Imax)	1830.3	—
(60%Imax)	2196.36	—
(70%Imax)	2562.42	—
(80%Imax)	2928.48	—
(90%Imax)	3294.54	—

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	3624.76	3250.46	2864.14	2297.32	1232.58	298.11	88.21	52.15	40.99
45.0	3624.97	3236.29	2806.62	2270.49	1319.71	427.96	156.25	79.20	42.71
90.0	3660.60	3388.03	2969.52	2417.08	1444.62	465.52	101.52	55.37	42.71
135.0	3651.37	3540.41	3068.46	2424.16	1510.73	624.77	168.69	74.47	51.08
180.0	3624.76	3487.19	3056.01	2399.91	1274.86	380.10	88.64	55.59	42.71
225.0	3624.97	3492.77	3106.66	2440.26	1463.73	479.90	113.54	64.17	47.43
270.0	3660.60	3417.43	2931.53	2251.18	1083.84	244.88	84.13	51.30	39.92
315.0	3651.37	3309.91	2896.55	2249.67	1368.43	389.11	126.63	69.11	42.71
360.0	3624.76	3250.46	2864.14	2297.32	1232.58	298.11	88.21	52.15	40.99

C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	34.34	29.40	24.25	19.32	14.81	10.52	6.87	3.43	1.29
45.0	34.77	28.76	24.04	19.10	14.81	10.95	7.30	4.08	1.50
90.0	36.27	32.19	26.61	21.89	16.74	12.88	8.80	5.37	2.15
135.0	36.70	30.48	25.76	21.46	16.96	12.66	8.59	5.37	2.15
180.0	34.98	31.55	26.61	21.68	17.17	12.88	9.01	4.94	1.72
225.0	36.27	29.62	25.54	21.03	16.53	12.45	8.59	5.58	1.93
270.0	33.91	28.97	24.47	19.96	14.81	10.73	7.51	4.29	1.29
315.0	34.13	27.90	23.61	19.32	14.81	10.95	7.30	4.08	1.29
360.0	34.34	29.40	24.25	19.32	14.81	10.52	6.87	3.43	1.29

C/ $\gamma$ (°)	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/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.43	0.43	1.07	1.29	1.72	1.72	1.72
45.0	0.00	0.00	0.43	0.64	1.07	1.29	1.50	1.72	1.93
90.0	0.00	0.00	0.00	0.43	0.43	1.29	1.50	1.72	1.72
135.0	0.00	0.00	0.00	0.43	0.64	1.07	1.50	1.50	1.72
180.0	0.00	0.00	0.00	0.43	0.64	1.07	1.50	1.50	1.72
225.0	0.00	0.00	0.00	0.43	0.64	1.07	1.72	1.72	1.93
270.0	0.00	0.22	0.43	0.43	1.07	1.72	1.72	1.93	1.93
315.0	0.22	0.22	0.22	0.43	0.86	1.07	1.72	1.72	1.72
360.0	0.00	0.00	0.43	0.43	1.07	1.29	1.72	1.72	1.72

C/ $\gamma$ (°)	180.0
0.0	1.93
45.0	1.93
90.0	1.93
135.0	1.72
180.0	1.93
225.0	1.93
270.0	1.93
315.0	1.72
360.0	1.93