



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
www.bellingeel.com

Tel:0755-21038430

Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

---

Client:

LumCAT:LD4S-HO-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.07

LampCAT:

Current(A): 0.1550

Lamp flux(lm): -1.0

Power (W): 18.40

Number of Lamps: 0

PF: 0.9880

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

---

### Photometric Results

Lumens(lm): 1440.29, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 78.28

Central intensity(cd): 3966.458, Maximum intensity(cd): 4007.952

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

Beam Angle(50%Imax): [C0/180]Total=35.2

[C90/270]Total=35.1

Field angle(10%Imax): [C0/180]Total=50.6

[C90/270]Total=51.4

Maximum s/h(1/2): C0\_180=0.62 C90\_270=0.62

Maximum s/h(1/4): C0\_180=0.56 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  $\pi$  solid angle : 97.969%

---

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	3979.584	0.000	0	0.00%	0.00%
5.0	3740.863	92.296	92.296	0.00%	6.41%
10.0	3272.524	250.891	343.187	0.00%	23.83%
15.0	2582.321	347.305	690.492	0.00%	47.94%
20.0	1487.237	335.389	1025.881	0.00%	71.23%
25.0	492.870	207.677	1233.557	0.00%	85.65%
30.0	128.477	78.632	1312.189	0.00%	91.11%
35.0	65.601	28.579	1340.769	0.00%	93.09%
40.0	44.749	18.411	1359.18	0.00%	94.37%
45.0	36.175	14.984	1374.164	0.00%	95.41%
50.0	30.829	13.539	1387.703	0.00%	96.35%
55.0	26.119	12.382	1400.085	0.00%	97.21%
60.0	21.223	10.943	1411.028	0.00%	97.97%
65.0	16.566	9.187	1420.215	0.00%	98.61%
70.0	12.358	7.324	1427.538	0.00%	99.11%
75.0	8.521	5.457	1432.996	0.00%	99.49%
80.0	4.895	3.590	1436.586	0.00%	99.74%
85.0	1.853	1.834	1438.419	0.00%	99.87%
90.0	0.000	0.507	1438.926	0.00%	99.91%
95.0	0.000	0.000	1438.926	0.00%	99.91%
100.0	0.000	0.000	1438.926	0.00%	99.91%
105.0	0.000	0.000	1438.926	0.00%	99.91%
110.0	0.000	0.000	1438.926	0.00%	99.91%
115.0	0.000	0.000	1438.926	0.00%	99.91%
120.0	0.000	0.000	1438.926	0.00%	99.91%
125.0	0.027	0.006	1438.933	0.00%	99.91%
130.0	0.027	0.012	1438.944	0.00%	99.91%
135.0	0.000	0.005	1438.949	0.00%	99.91%
140.0	0.106	0.020	1438.969	0.00%	99.91%
145.0	0.291	0.066	1439.035	0.00%	99.91%
150.0	0.635	0.136	1439.172	0.00%	99.92%
155.0	0.953	0.201	1439.373	0.00%	99.94%
160.0	1.350	0.242	1439.614	0.00%	99.95%
165.0	1.773	0.257	1439.871	0.00%	99.97%
170.0	1.932	0.220	1440.091	0.00%	99.99%
175.0	2.064	0.143	1440.234	0.00%	100.00%
180.0	2.223	0.051	1440.285	0.00%	100.00%

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

Date:  
Humidity(%): 59%

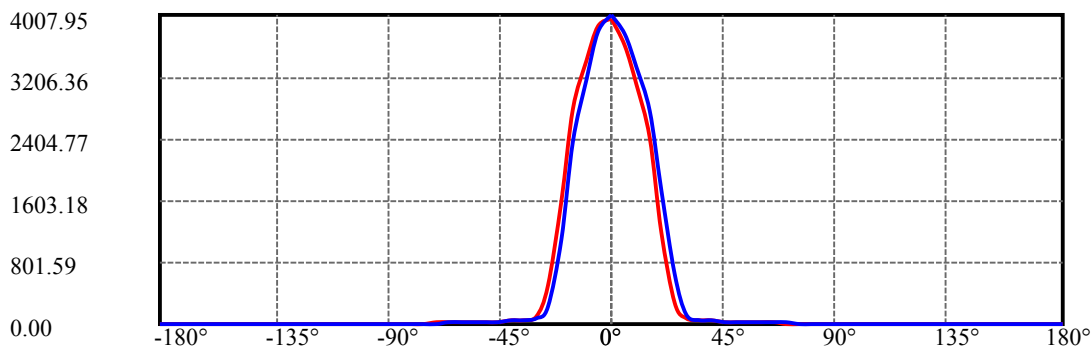
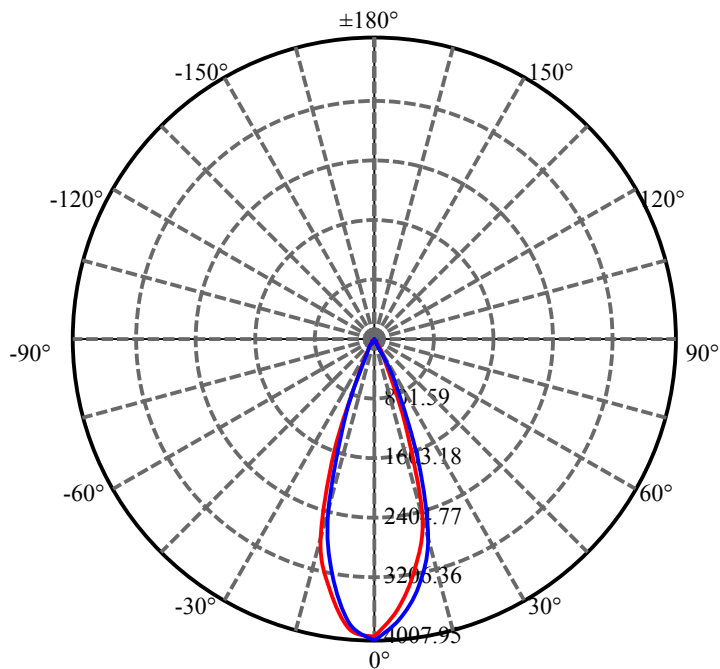
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1312.19	N.A.	91.11%
0-40	1359.18	N.A.	94.37%
0-60	1411.03	N.A.	97.97%
0-90	1438.93	N.A.	99.91%
0-120	1438.93	N.A.	99.91%
0-180	1440.29	N.A.	100.00%
60-90	27.90	N.A.	1.94%
90-120	0.00	N.A.	0.00%
90-130	0.02	N.A.	0.00%
90-150	0.25	N.A.	0.02%
90-180	1.31	N.A.	0.09%
0-23.04	1152.23	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	343.19
10-20	682.69
20-30	286.31
30-40	46.99
40-50	28.52
50-60	23.33
60-70	16.51
70-80	9.05
80-90	2.34
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.02
130-140	0.02
140-150	0.20
150-160	0.44
160-170	0.48
170-180	0.14

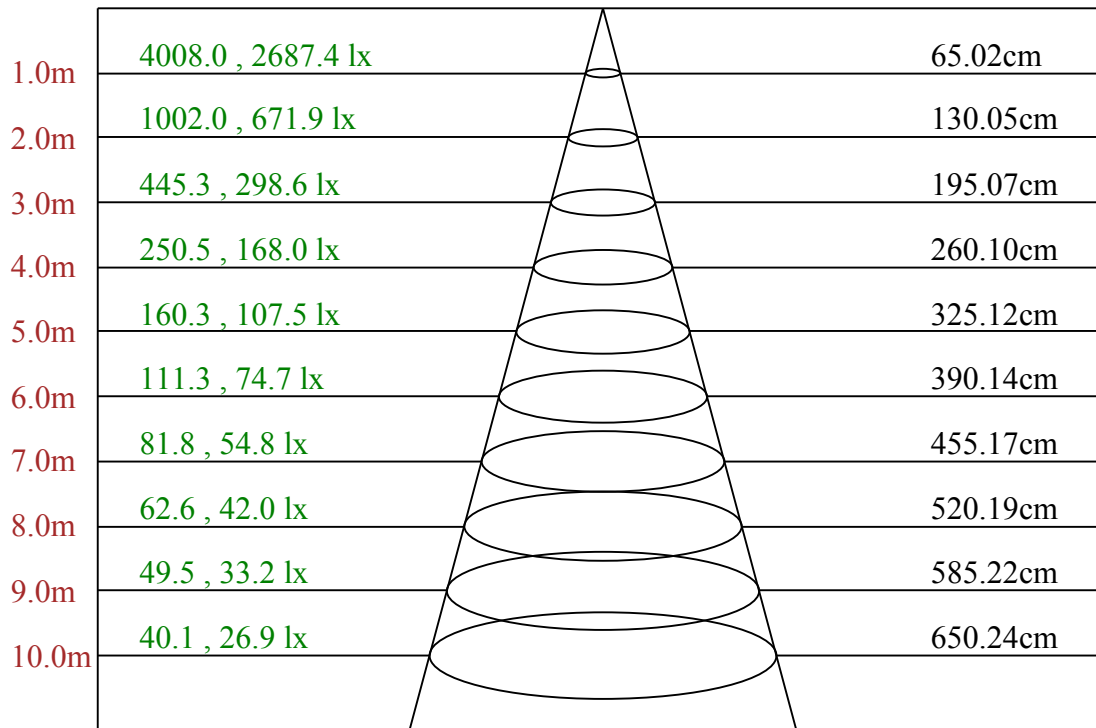


C0/C180: —

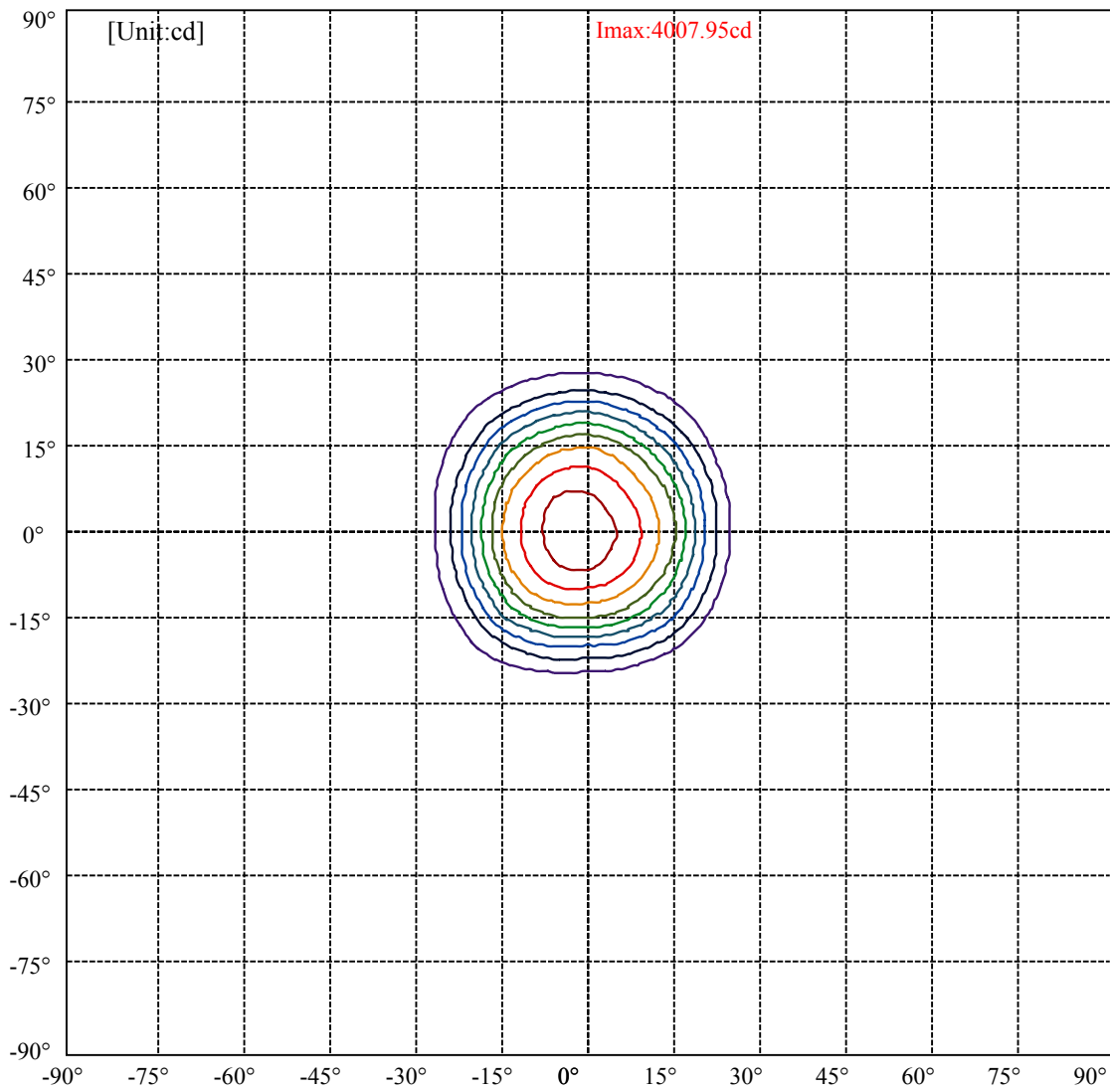
C90/C270: —

Field angle(10%Imax):C0/180Left:26.2 Right:24.4  
 :C90/270Left:24.0 Right:27.4

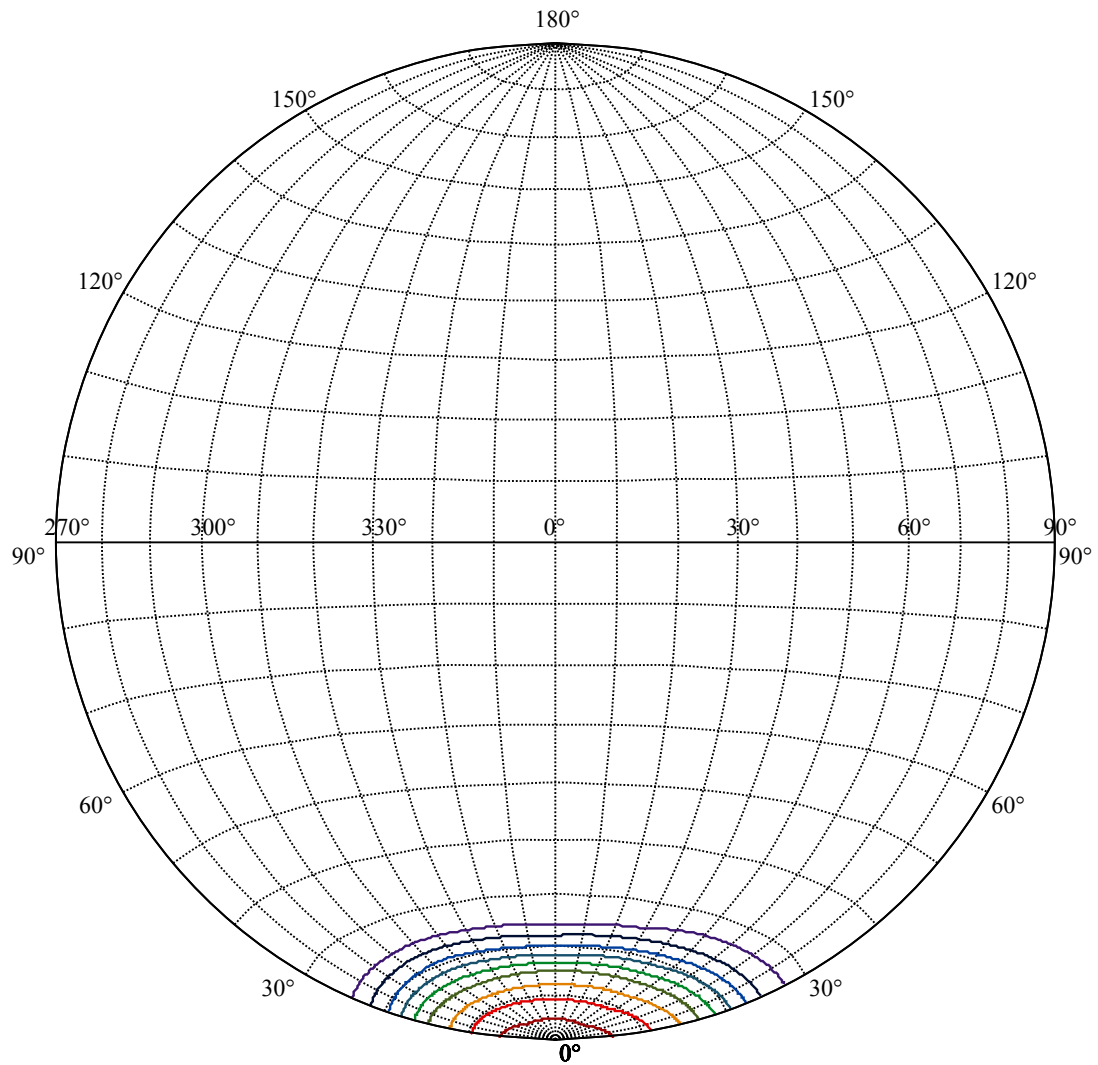
Beam Angle(50%Imax):C0/180Left:18.4 Right:16.8  
 :C90/270Left:16.4 Right:18.7



Max , Ave      Beam angle of C90 plane 36.02



(10%Imax) 400.795	—
(20%Imax) 801.59	—
(30%Imax) 1202.39	—
(40%Imax) 1603.18	—
(50%Imax) 2003.98	—
(60%Imax) 2404.77	—
(70%Imax) 2805.57	—
(80%Imax) 3206.36	—
(90%Imax) 3607.16	—



House

[Unit:cd]

Road

**Imax:4007.95**

(10%Imax)	400.795	—
(20%Imax)	801.59	—
(30%Imax)	1202.39	—
(40%Imax)	1603.18	—
(50%Imax)	2003.98	—
(60%Imax)	2404.77	—
(70%Imax)	2805.57	—
(80%Imax)	3206.36	—
(90%Imax)	3607.16	—

## 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	3966.46	3602.54	3117.11	2424.84	1193.58	282.84	84.89	52.29	42.34
45.0	3956.72	3579.68	3125.15	2460.62	1412.69	472.73	164.92	85.10	44.25
90.0	4007.95	3750.73	3339.18	2757.64	1730.67	658.18	114.74	58.64	44.46
135.0	3987.21	3884.11	3474.04	2779.44	1843.51	790.07	232.03	79.39	51.23
180.0	3966.46	3857.43	3405.87	2786.85	1604.07	493.90	94.84	60.34	43.61
225.0	3956.72	3859.76	3409.89	2738.16	1701.67	633.63	135.70	68.80	48.06
270.0	4007.95	3794.13	3164.74	2365.99	1085.40	235.41	84.47	52.29	40.65
315.0	3987.21	3598.52	3144.21	2345.03	1326.32	376.20	116.23	67.96	43.40
360.0	3966.46	3602.54	3117.11	2424.84	1193.58	282.84	84.89	52.29	42.34
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	35.78	31.54	26.25	20.96	16.09	12.07	8.05	4.23	1.48
45.0	36.41	30.27	25.62	20.75	16.09	11.86	8.05	4.66	1.69
90.0	36.84	32.60	27.73	22.23	17.36	13.13	9.10	5.50	2.33
135.0	37.90	30.70	26.04	21.59	16.94	12.49	8.89	5.08	2.33
180.0	35.35	31.12	26.25	21.38	16.51	12.70	8.68	4.87	1.69
225.0	36.20	30.06	25.62	21.38	17.15	12.70	8.89	5.50	2.12
270.0	35.14	30.49	25.83	20.75	16.09	11.86	8.26	4.66	1.69
315.0	35.78	29.85	25.62	20.75	16.30	12.07	8.26	4.66	1.48
360.0	35.78	31.54	26.25	20.96	16.09	12.07	8.05	4.23	1.48
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	0.21	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/ $\gamma$ (°)	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	1.06	1.06	1.69	1.91	1.91	1.91
45.0	0.00	0.21	0.42	0.64	1.06	1.48	2.12	1.91	2.12
90.0	0.00	0.00	0.00	0.42	0.85	1.27	1.48	1.91	2.12
135.0	0.00	0.00	0.00	0.42	0.85	1.06	1.69	1.91	1.91
180.0	0.00	0.00	0.00	0.42	0.64	1.06	1.48	1.91	1.91
225.0	0.00	0.00	0.21	0.42	0.85	1.06	1.69	1.69	1.91
270.0	0.00	0.21	0.85	0.85	1.06	1.69	2.12	2.33	2.54
315.0	0.00	0.21	0.42	0.85	1.27	1.48	1.69	1.91	2.12
360.0	0.00	0.21	0.42	1.06	1.06	1.69	1.91	1.91	1.91
C/ $\gamma$ (°)	180.0								
0.0	2.12								
45.0	2.12								
90.0	2.54								
135.0	2.12								
180.0	2.12								
225.0	2.12								
270.0	2.54								
315.0	2.12								
360.0	2.12								