



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-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.07

LampCAT:

Current(A): 0.1280

Lamp flux(lm): -1.0

Power (W): 15.09

Number of Lamps: 1

PF: 0.9852

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

---

### Photometric Results

---

Lumens(lm): 1281.60, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 84.93

Central intensity(cd): 3582.618, Maximum intensity(cd): 3582.618

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

Beam Angle(50%Imax): [C0/180]Total=33.0

[C90/270]Total=35.1

Field angle(10%Imax): [C0/180]Total=49.2

[C90/270]Total=50.9

Maximum s/h(1/2): C0\_180=0.57 C90\_270=0.60

Maximum s/h(1/4): C0\_180=0.53 C90\_270=0.54

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.51%

Down flux rate of LUM(%): 99.49%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.981%

---

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

Date:  
Humidity(%): 59%

Operator: Tester

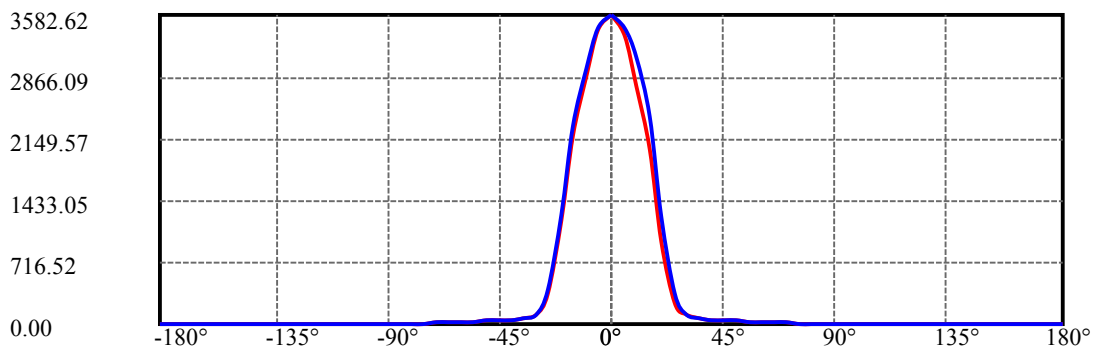
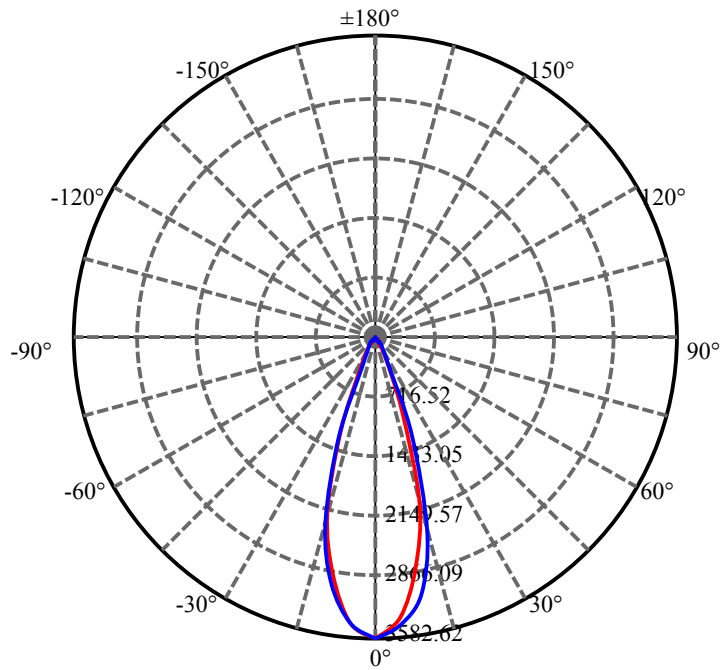
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3582.618	0.000	0	0.00%	0.00%
5.0	3392.930	83.391	83.391	0.00%	6.51%
10.0	2918.134	225.767	309.157	0.00%	24.12%
15.0	2218.219	304.685	613.842	0.00%	47.90%
20.0	1211.415	282.650	896.492	0.00%	69.95%
25.0	392.497	168.221	1064.713	0.00%	83.08%
30.0	132.843	66.482	1131.195	0.00%	88.26%
35.0	77.695	31.003	1162.198	0.00%	90.68%
40.0	53.323	21.859	1184.058	0.00%	92.39%
45.0	41.467	17.551	1201.609	0.00%	93.76%
50.0	34.640	15.379	1216.987	0.00%	94.96%
55.0	28.950	13.827	1230.814	0.00%	96.04%
60.0	23.393	12.099	1242.913	0.00%	96.98%
65.0	18.445	10.171	1253.084	0.00%	97.77%
70.0	13.814	8.168	1261.252	0.00%	98.41%
75.0	9.765	6.163	1267.415	0.00%	98.89%
80.0	6.113	4.248	1271.663	0.00%	99.22%
85.0	2.805	2.423	1274.086	0.00%	99.41%
90.0	0.635	0.942	1275.028	0.00%	99.49%
95.0	0.662	0.355	1275.383	0.00%	99.51%
100.0	0.741	0.381	1275.764	0.00%	99.54%
105.0	0.715	0.389	1276.154	0.00%	99.57%
110.0	0.688	0.367	1276.52	0.00%	99.60%
115.0	0.715	0.355	1276.876	0.00%	99.63%
120.0	0.873	0.386	1277.262	0.00%	99.66%
125.0	0.820	0.392	1277.653	0.00%	99.69%
130.0	0.873	0.368	1278.021	0.00%	99.72%
135.0	0.873	0.353	1278.374	0.00%	99.75%
140.0	1.112	0.368	1278.742	0.00%	99.78%
145.0	1.376	0.415	1279.157	0.00%	99.81%
150.0	1.667	0.448	1279.605	0.00%	99.84%
155.0	2.090	0.476	1280.081	0.00%	99.88%
160.0	2.408	0.472	1280.552	0.00%	99.92%
165.0	2.726	0.423	1280.975	0.00%	99.95%
170.0	2.964	0.337	1281.313	0.00%	99.98%
175.0	3.017	0.214	1281.527	0.00%	99.99%
180.0	3.199	0.074	1281.601	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1131.20	N.A.	88.26%
0-40	1184.06	N.A.	92.39%
0-60	1242.91	N.A.	96.98%
0-90	1275.03	N.A.	99.49%
0-120	1277.26	N.A.	99.66%
0-180	1281.60	N.A.	100.00%
60-90	32.12	N.A.	2.51%
90-120	2.23	N.A.	0.17%
90-130	2.99	N.A.	0.23%
90-150	4.58	N.A.	0.36%
90-180	6.50	N.A.	0.51%
0-23.83	1025.28	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	309.16
10-20	587.33
20-30	234.70
30-40	52.86
40-50	32.93
50-60	25.93
60-70	18.34
70-80	10.41
80-90	3.37
90-100	0.74
100-110	0.76
110-120	0.74
120-130	0.76
130-140	0.72
140-150	0.86
150-160	0.95
160-170	0.76
170-180	0.21

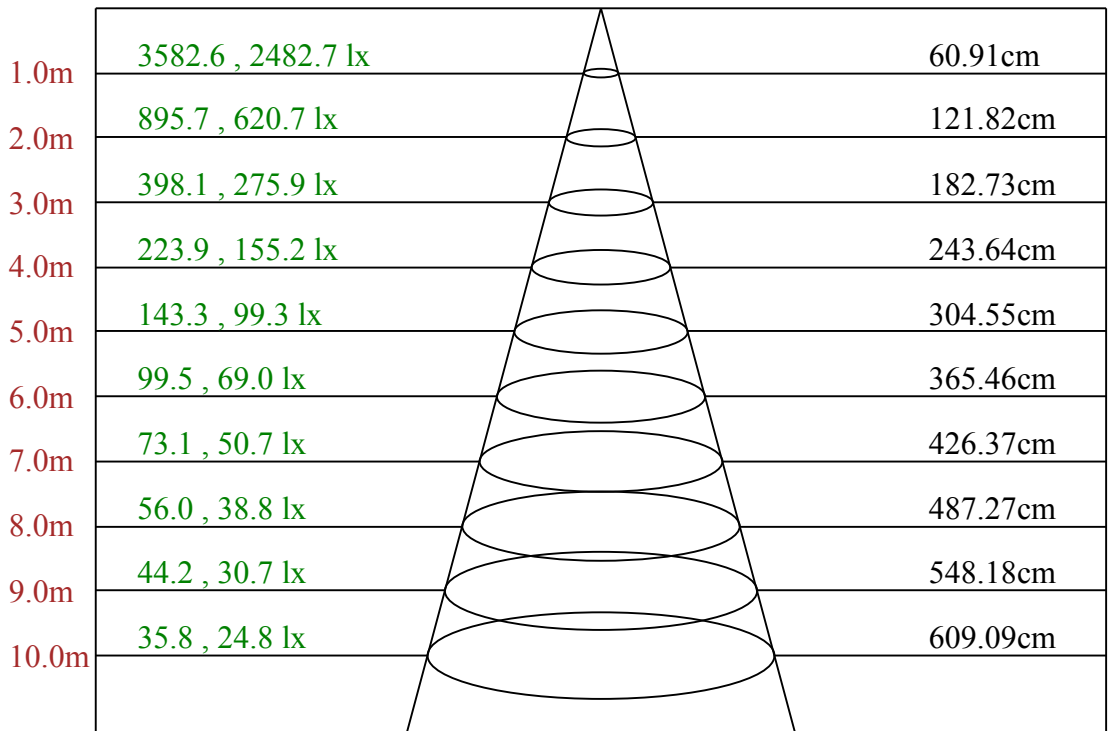


C0/C180: —

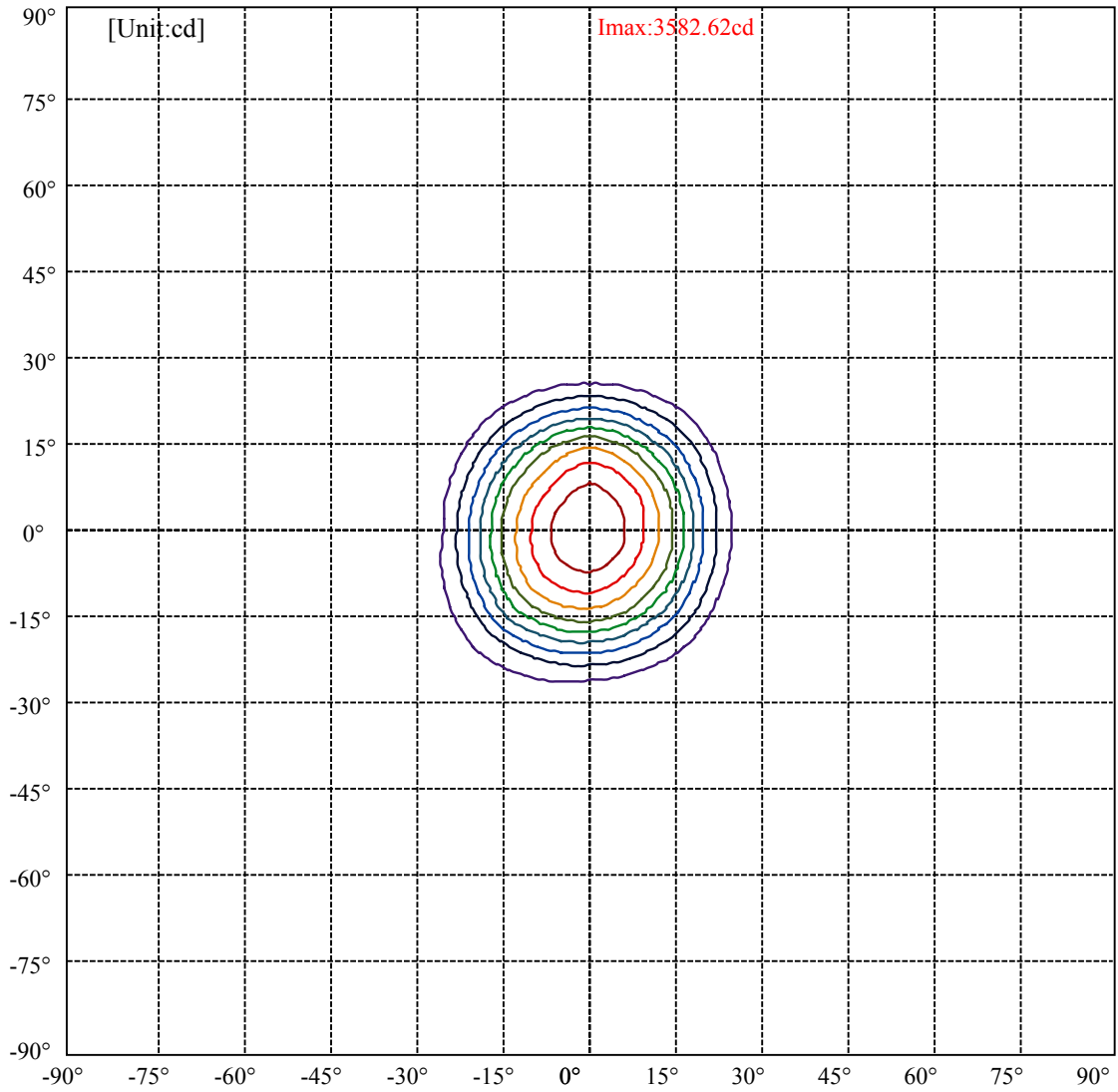
C90/C270: —

Field angle(10%Imax):C0/180Left:25.0 Right:24.2  
:C90/270Left:25.7 Right:25.2

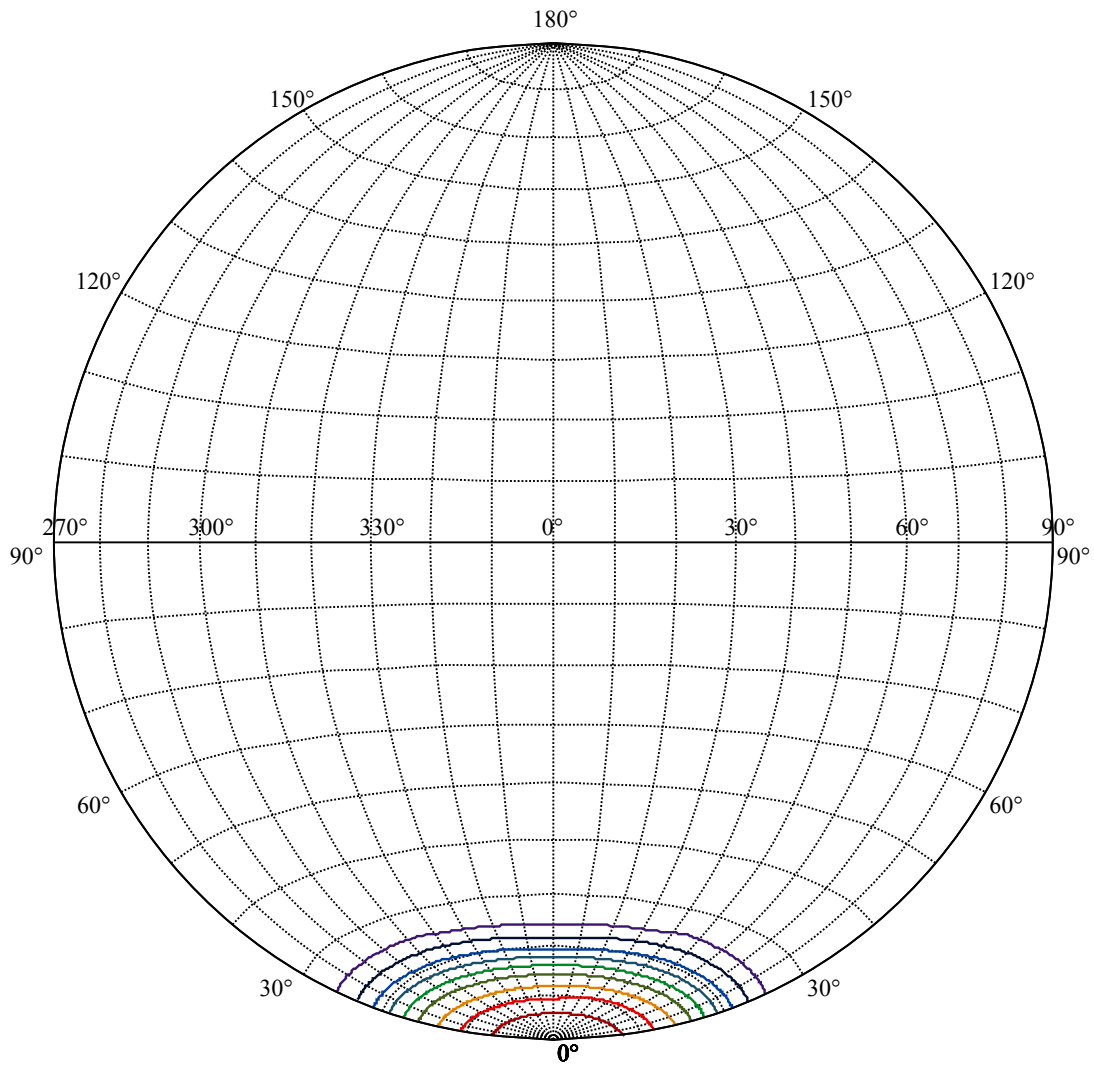
Beam Angle(50%Imax):C0/180Left:16.9 Right:16.1  
:C90/270Left:17.5 Right:17.6



Max , Ave      Beam angle of C0 plane 33.88



(10%Imax)	358.262	—
(20%Imax)	716.524	—
(30%Imax)	1074.79	—
(40%Imax)	1433.05	—
(50%Imax)	1791.31	—
(60%Imax)	2149.57	—
(70%Imax)	2507.83	—
(80%Imax)	2866.09	—
(90%Imax)	3224.36	—



House

[Unit:cd]

Road

**Imax:3582.62**

(10%Imax)	358.262	—
(20%Imax)	716.524	—
(30%Imax)	1074.79	—
(40%Imax)	1433.05	—
(50%Imax)	1791.31	—
(60%Imax)	2149.57	—
(70%Imax)	2507.83	—
(80%Imax)	2866.09	—
(90%Imax)	3224.36	—

## 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	3582.62	3337.91	2769.49	2031.71	952.45	244.31	102.46	66.26	48.90
45.0	3582.62	3360.14	2960.02	2148.57	1163.09	393.13	130.83	78.97	52.08
90.0	3582.62	3429.37	3098.69	2394.78	1246.08	366.88	116.01	71.13	49.54
135.0	3582.62	3400.79	2860.10	2171.01	1190.62	393.77	142.69	84.68	55.47
180.0	3582.62	3413.07	2866.24	2171.22	1190.62	358.41	115.80	70.50	51.23
225.0	3582.62	3410.10	3004.06	2417.01	1522.56	601.02	199.42	100.14	62.03
270.0	3582.62	3417.30	2965.74	2297.61	1272.76	400.12	115.59	68.38	51.23
315.0	3582.62	3374.75	2820.72	2113.85	1153.14	382.34	139.94	81.51	56.10
360.0	3582.62	3337.91	2769.49	2031.71	952.45	244.31	102.46	66.26	48.90
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	40.65	35.14	29.22	23.29	18.00	13.34	9.53	5.93	2.54
45.0	40.22	33.24	27.73	22.44	17.57	13.13	9.10	5.72	2.54
90.0	40.86	34.72	29.00	23.29	18.42	13.55	9.74	6.14	2.75
135.0	40.86	33.24	27.73	22.65	17.78	13.34	9.32	5.93	2.54
180.0	40.65	34.72	29.00	23.50	18.42	13.76	9.53	5.93	2.33
225.0	42.98	34.51	29.22	23.71	18.84	14.40	10.16	6.14	2.75
270.0	42.98	37.05	30.70	24.77	19.69	14.82	10.59	6.77	3.60
315.0	42.55	34.51	29.00	23.50	18.84	14.18	10.16	6.35	3.39
360.0	40.65	35.14	29.22	23.29	18.00	13.34	9.53	5.93	2.54
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.85	0.85	0.85	0.64	0.85	0.85	1.06	0.85	1.06
45.0	0.64	0.85	0.85	0.85	0.64	0.85	0.85	1.06	0.85
90.0	0.64	0.42	0.64	0.64	0.64	0.64	0.85	0.85	0.64
135.0	0.42	0.42	0.64	0.42	0.64	0.64	0.64	0.85	0.64
180.0	0.21	0.21	0.21	0.21	0.42	0.42	0.42	0.42	0.64
225.0	0.42	0.64	0.42	0.42	0.21	0.21	0.64	0.42	0.64
270.0	1.06	1.06	1.27	1.48	1.27	1.27	1.48	1.27	1.48
315.0	0.85	0.85	1.06	1.06	0.85	0.85	1.06	0.85	1.06
360.0	0.85	0.85	0.85	0.64	0.85	0.85	1.06	0.85	1.06
C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	1.06	1.48	1.69	2.12	2.75	2.54	3.18	2.96
45.0	0.85	1.27	1.48	1.91	2.12	2.54	2.96	2.96	2.96
90.0	0.85	1.06	1.06	1.69	1.91	2.33	2.75	2.96	2.96
135.0	0.85	0.85	1.27	1.48	2.12	2.33	2.54	2.96	2.96
180.0	0.64	0.85	1.27	1.69	1.91	2.12	2.75	2.75	2.75
225.0	0.64	0.85	1.06	1.27	1.91	2.12	2.54	2.75	2.96
270.0	1.27	1.69	1.91	2.12	2.54	2.75	3.18	3.39	3.60
315.0	1.06	1.27	1.48	1.48	2.12	2.33	2.54	2.75	2.96
360.0	0.85	1.06	1.48	1.69	2.12	2.75	2.54	3.18	2.96
C/ $\gamma$ (°)	180.0								
0.0	3.20								
45.0	3.20								
90.0	3.20								
135.0	3.20								
180.0	3.20								
225.0	3.20								
270.0	3.20								
315.0	3.20								
360.0	3.20								