



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

Tel:0755-21038430

Address:1Floor, No.1 Building,Meibaohe Industrial Park,Dalang Street,Longhua District,Shenzhen,Guangdong Prov.518101 China

---

Client:

LumCAT: LL3G-35K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.03

LampCAT:

Current(A): 0.0640

Lamp flux(lm): -1.0

Power (W): 7.39

Number of Lamps: 1

PF: 0.9644

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

---

### Photometric Results

Lumens(lm): 629.77, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 85.22

Central intensity(cd): 973.299, Maximum intensity(cd): 1024.569

Angle of maximum intensity: C=90.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=45.9

[C90/270]Total=45.5

Field angle(10%Imax): [C0/180]Total=67.7

[C90/270]Total=68.1

Maximum s/h(1/2): C0\_180=0.82 C90\_270=0.80

Maximum s/h(1/4): C0\_180=0.74 C90\_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.11%

Down flux rate of LUM(%): 99.89%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.534%

---

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

Date:  
Humidity(%): 59%

Operator: jarvis

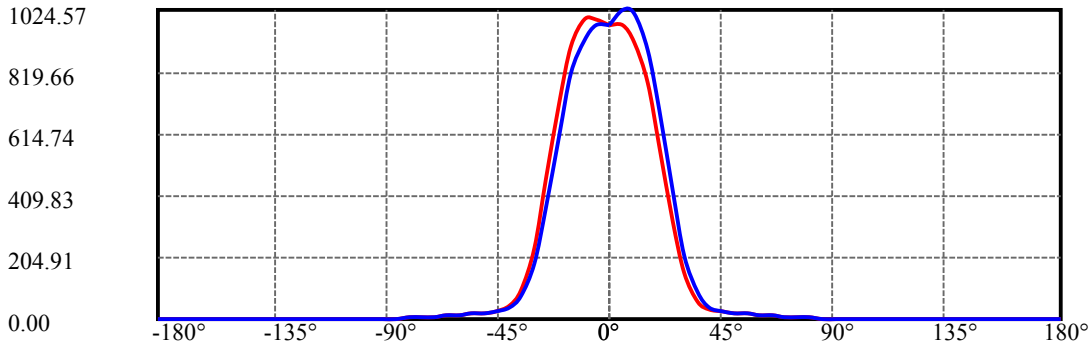
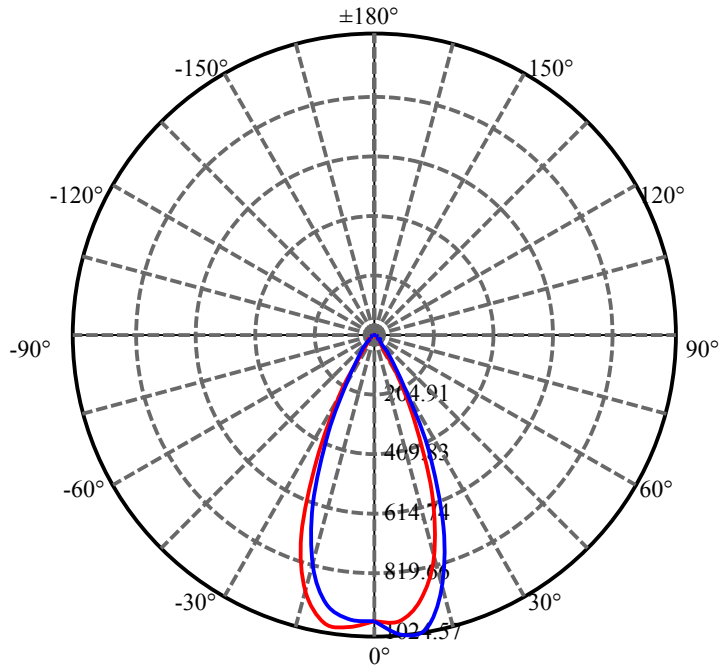
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	973.299	0.000	0	0.00%	0.00%
5.0	985.279	23.414	23.414	0.00%	3.72%
10.0	955.214	69.418	92.832	0.00%	14.74%
15.0	843.158	106.678	199.51	0.00%	31.68%
20.0	647.740	122.871	322.381	0.00%	51.19%
25.0	400.699	109.962	432.343	0.00%	68.65%
30.0	199.570	75.965	508.307	0.00%	80.71%
35.0	81.285	41.358	549.665	0.00%	87.28%
40.0	39.357	20.128	569.793	0.00%	90.48%
45.0	26.934	12.274	582.068	0.00%	92.43%
50.0	21.255	9.737	591.805	0.00%	93.97%
55.0	17.945	8.523	600.329	0.00%	95.33%
60.0	14.971	7.608	607.937	0.00%	96.53%
65.0	11.728	6.490	614.427	0.00%	97.56%
70.0	8.922	5.229	619.656	0.00%	98.39%
75.0	6.543	4.042	623.698	0.00%	99.04%
80.0	4.343	2.913	626.611	0.00%	99.50%
85.0	2.278	1.799	628.41	0.00%	99.78%
90.0	0.146	0.664	629.074	0.00%	99.89%
95.0	0.011	0.043	629.117	0.00%	99.90%
100.0	0.011	0.006	629.123	0.00%	99.90%
105.0	0.011	0.006	629.129	0.00%	99.90%
110.0	0.011	0.006	629.135	0.00%	99.90%
115.0	0.022	0.009	629.143	0.00%	99.90%
120.0	0.034	0.014	629.157	0.00%	99.90%
125.0	0.022	0.013	629.17	0.00%	99.91%
130.0	0.022	0.010	629.18	0.00%	99.91%
135.0	0.067	0.018	629.198	0.00%	99.91%
140.0	0.079	0.027	629.225	0.00%	99.91%
145.0	0.146	0.037	629.262	0.00%	99.92%
150.0	0.258	0.060	629.322	0.00%	99.93%
155.0	0.404	0.084	629.406	0.00%	99.94%
160.0	0.572	0.102	629.508	0.00%	99.96%
165.0	0.662	0.102	629.61	0.00%	99.98%
170.0	0.696	0.081	629.69	0.00%	99.99%
175.0	0.842	0.055	629.745	0.00%	100.00%
180.0	0.919	0.021	629.766	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	508.31	N.A.	80.71%
0-40	569.79	N.A.	90.48%
0-60	607.94	N.A.	96.53%
0-90	629.07	N.A.	99.89%
0-120	629.16	N.A.	99.90%
0-180	629.77	N.A.	100.00%
60-90	21.14	N.A.	3.36%
90-120	0.08	N.A.	0.01%
90-130	0.11	N.A.	0.02%
90-150	0.25	N.A.	0.04%
90-180	0.67	N.A.	0.11%
0-29.70	503.81	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	92.83
10-20	229.55
20-30	185.93
30-40	61.49
40-50	22.01
50-60	16.13
60-70	11.72
70-80	6.95
80-90	2.46
90-100	0.05
100-110	0.01
110-120	0.02
120-130	0.02
130-140	0.05
140-150	0.10
150-160	0.19
160-170	0.18
170-180	0.05

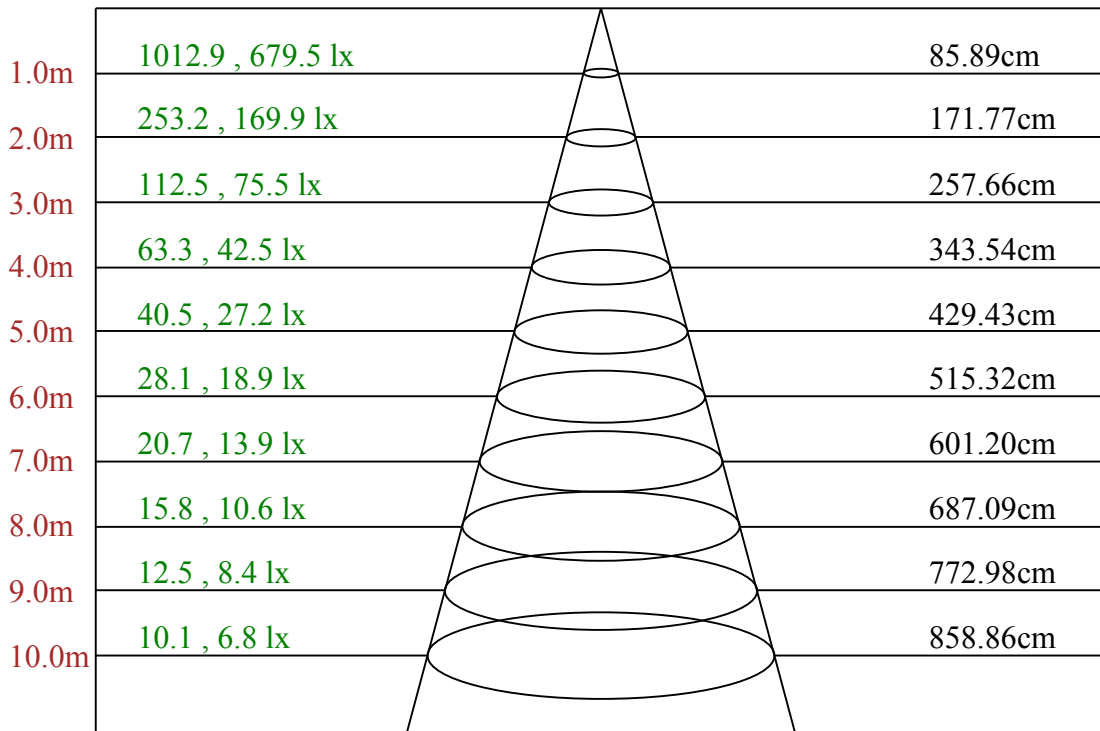


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:34.8 Right:32.9  
:C90/270Left:33.7 Right:34.4

Beam Angle(50%Imax):C0/180Left:24.4 Right:21.5  
:C90/270Left:22.1 Right:23.4



Max , Ave      Beam angle of C90 plane 46.48

## 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	973.30	973.93	915.22	782.88	570.28	322.13	154.96	59.97	33.58
22.5	973.30	971.06	899.06	763.85	551.43	314.41	145.80	59.61	34.12
45.0	973.30	963.16	890.98	752.18	528.27	303.28	139.88	57.10	32.86
67.5	973.30	954.54	883.79	743.02	518.57	288.55	133.23	54.05	31.60
90.0	973.30	1024.57	1010.56	891.16	695.26	426.46	209.37	87.45	41.12
112.5	973.30	1012.72	999.07	887.92	690.05	430.76	216.37	85.65	40.94
135.0	973.30	1000.69	991.89	883.97	697.59	447.82	220.32	90.14	41.30
157.5	973.30	994.04	987.76	888.28	711.60	455.54	224.99	91.94	40.40
180.0	973.30	992.97	992.07	901.93	721.83	467.22	234.51	94.63	42.38
202.5	973.30	992.79	998.53	910.19	736.91	480.50	253.00	105.04	47.22
225.0	973.30	993.15	1005.72	919.71	747.87	499.00	270.96	113.84	51.53
247.5	973.30	997.10	1015.59	934.97	757.56	508.69	278.50	119.23	51.00
270.0	973.30	972.14	924.55	811.43	613.74	367.20	183.15	74.34	36.81
292.5	973.30	972.68	925.81	811.97	617.51	374.92	186.38	73.44	36.45
315.0	973.30	974.11	921.32	810.35	615.71	371.33	177.05	70.75	35.19
337.5	973.30	974.83	921.50	796.71	589.68	353.37	164.66	63.39	33.22
360.0	973.30	973.93	915.22	782.88	570.28	322.13	154.96	59.97	33.58
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	24.60	20.11	17.06	13.83	10.77	8.08	5.93	3.95	1.80
22.5	24.60	20.11	16.88	14.01	10.77	8.26	5.93	3.95	1.80
45.0	24.24	19.57	16.70	14.19	10.95	8.26	5.93	3.77	1.80
67.5	23.52	19.21	16.16	13.47	10.41	7.90	5.93	3.77	1.62
90.0	28.01	21.91	18.67	15.62	12.39	9.34	7.00	4.49	2.33
112.5	27.83	22.09	18.50	15.44	12.39	9.34	6.82	4.67	2.51
135.0	27.65	21.55	18.32	15.44	12.03	9.16	6.82	4.49	2.51
157.5	27.11	21.01	17.96	15.08	12.03	9.16	6.82	4.67	2.51
180.0	27.65	21.91	18.50	15.44	12.39	9.52	7.00	4.85	2.69
202.5	29.99	22.98	19.21	16.16	12.93	9.88	7.36	4.85	2.87
225.0	31.78	23.34	19.57	16.70	13.11	10.06	7.36	5.03	2.87
247.5	31.78	23.52	19.39	16.52	12.93	10.06	7.18	4.85	2.69
270.0	26.22	21.01	17.78	14.72	11.49	8.80	6.46	4.31	2.33
292.5	26.04	20.83	17.78	14.54	11.13	8.44	6.11	4.13	2.16
315.0	25.14	20.65	17.60	14.19	10.95	8.26	5.93	3.95	1.98
337.5	24.78	20.29	17.06	14.19	10.95	8.26	6.11	3.77	1.98
360.0	24.60	20.11	17.06	13.83	10.77	8.08	5.93	3.95	1.80
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
22.5	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
67.5	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
112.5	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
157.5	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.18	0.18	0.18	0.18	0.36	0.54	0.36	0.36
292.5	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
337.5	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

LL3G-35K

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.18	0.36	0.54	0.72	0.72	0.72	1.08
22.5	0.18	0.18	0.18	0.36	0.36	0.72	0.72	0.72	0.72
45.0	0.00	0.00	0.18	0.36	0.54	0.72	0.72	0.90	0.72
67.5	0.18	0.18	0.00	0.36	0.54	0.72	0.72	0.90	0.90
90.0	0.00	0.18	0.00	0.18	0.36	0.54	0.72	0.54	0.72
112.5	0.00	0.00	0.00	0.18	0.18	0.54	0.54	0.72	0.72
135.0	0.00	0.00	0.00	0.00	0.18	0.54	0.54	0.72	0.72
157.5	0.00	0.00	0.00	0.00	0.36	0.54	0.54	0.54	0.72
180.0	0.00	0.00	0.00	0.18	0.36	0.36	0.72	0.54	0.72
202.5	0.00	0.00	0.00	0.18	0.36	0.36	0.36	0.54	0.54
225.0	0.00	0.00	0.00	0.00	0.00	0.54	0.54	0.54	0.90
247.5	0.00	0.00	0.00	0.18	0.36	0.36	0.54	0.54	0.90
270.0	0.54	0.54	0.90	0.72	0.90	1.08	1.26	1.08	1.62
292.5	0.18	0.18	0.36	0.36	0.72	0.54	0.54	0.72	0.72
315.0	0.00	0.00	0.18	0.36	0.18	0.36	0.72	0.72	0.90
337.5	0.00	0.00	0.36	0.36	0.54	0.54	0.72	0.72	0.90
360.0	0.00	0.00	0.18	0.36	0.54	0.72	0.72	0.72	1.08

C/γ(°)	180.0
0.0	0.92
22.5	0.92
45.0	0.92
67.5	0.92
90.0	0.92
112.5	0.92
135.0	0.92
157.5	0.92
180.0	0.92
202.5	0.92
225.0	0.92
247.5	0.92
270.0	0.92
292.5	0.92
315.0	0.92
337.5	0.92
360.0	0.92