



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: LRG3-35K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.02

LampCAT:

Current(A): 0.0640

Lamp flux(lm): -1.0

Power (W): 7.36

Number of Lamps: 1

PF: 0.9640

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 629.06, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 85.49

Central intensity(cd): 967.520, Maximum intensity(cd): 1039.082

Angle of maximum intensity: C=225.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=45.8

[C90/270]Total=47.1

Field angle(10%Imax): [C0/180]Total=68.3

[C90/270]Total=69.0

Maximum s/h(1/2): C0_180=0.83 C90_270=0.85

Maximum s/h(1/4): C0_180=0.75 C90_270=0.76

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.280%

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

Date:
Humidity(%): 59%

Operator: jarvis

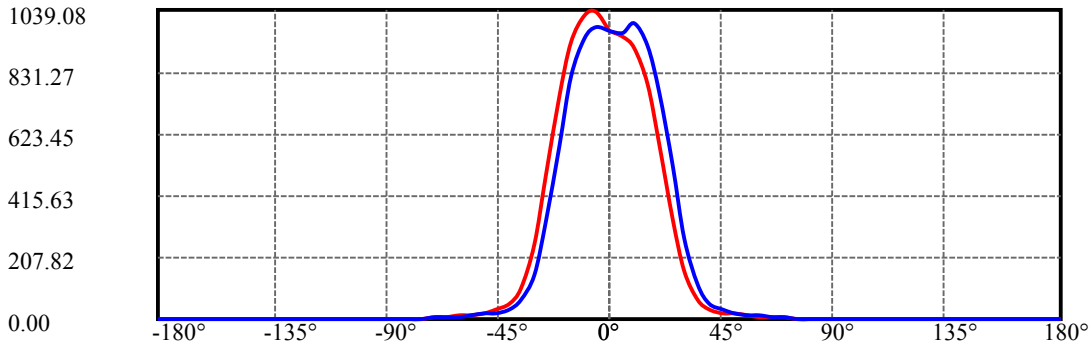
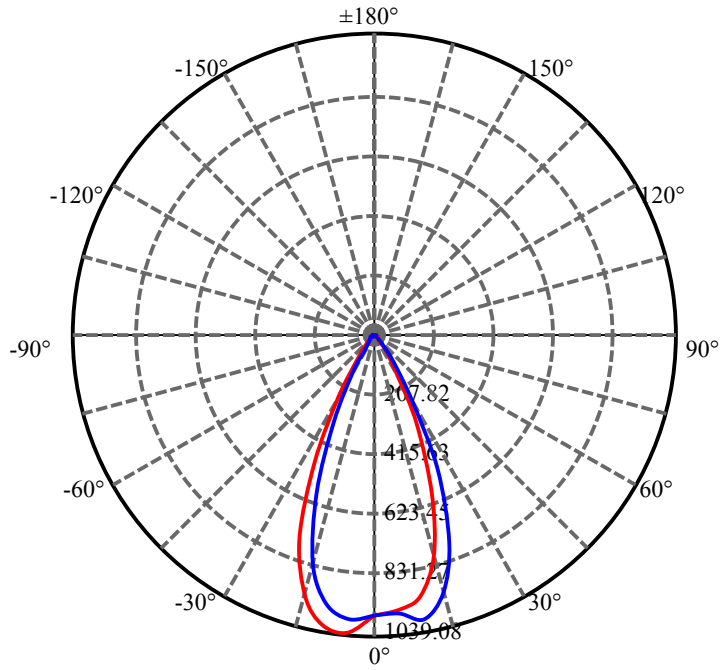
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	967.520	0.000	0	0.00%	0.00%
5.0	983.056	23.319	23.319	0.00%	3.71%
10.0	961.988	69.580	92.899	0.00%	14.77%
15.0	859.991	108.079	200.977	0.00%	31.95%
20.0	665.535	125.725	326.702	0.00%	51.94%
25.0	413.960	113.219	439.921	0.00%	69.93%
30.0	207.735	78.676	518.597	0.00%	82.44%
35.0	87.827	43.524	562.121	0.00%	89.36%
40.0	41.845	21.635	583.756	0.00%	92.80%
45.0	25.961	12.555	596.31	0.00%	94.79%
50.0	18.161	8.915	605.226	0.00%	96.21%
55.0	14.542	7.111	612.337	0.00%	97.34%
60.0	10.991	5.902	618.238	0.00%	98.28%
65.0	6.989	4.371	622.609	0.00%	98.97%
70.0	4.069	2.800	625.409	0.00%	99.42%
75.0	1.939	1.570	626.98	0.00%	99.67%
80.0	1.251	0.854	627.834	0.00%	99.81%
85.0	0.417	0.453	628.287	0.00%	99.88%
90.0	0.011	0.117	628.404	0.00%	99.90%
95.0	0.023	0.009	628.413	0.00%	99.90%
100.0	0.023	0.012	628.426	0.00%	99.90%
105.0	0.011	0.009	628.435	0.00%	99.90%
110.0	0.011	0.006	628.441	0.00%	99.90%
115.0	0.023	0.009	628.449	0.00%	99.90%
120.0	0.034	0.014	628.463	0.00%	99.91%
125.0	0.023	0.013	628.476	0.00%	99.91%
130.0	0.034	0.012	628.488	0.00%	99.91%
135.0	0.056	0.018	628.506	0.00%	99.91%
140.0	0.101	0.029	628.536	0.00%	99.92%
145.0	0.146	0.041	628.577	0.00%	99.92%
150.0	0.226	0.055	628.632	0.00%	99.93%
155.0	0.395	0.078	628.71	0.00%	99.94%
160.0	0.552	0.099	628.809	0.00%	99.96%
165.0	0.620	0.097	628.906	0.00%	99.98%
170.0	0.710	0.079	628.985	0.00%	99.99%
175.0	0.800	0.054	629.039	0.00%	100.00%
180.0	0.849	0.020	629.059	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	518.60	N.A.	82.44%
0-40	583.76	N.A.	92.80%
0-60	618.24	N.A.	98.28%
0-90	628.40	N.A.	99.90%
0-120	628.46	N.A.	99.91%
0-180	629.06	N.A.	100.00%
60-90	10.17	N.A.	1.62%
90-120	0.06	N.A.	0.01%
90-130	0.08	N.A.	0.01%
90-150	0.23	N.A.	0.04%
90-180	0.63	N.A.	0.10%
0-29.02	503.25	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	92.90
10-20	233.80
20-30	191.90
30-40	65.16
40-50	21.47
50-60	13.01
60-70	7.17
70-80	2.42
80-90	0.57
90-100	0.02
100-110	0.01
110-120	0.02
120-130	0.03
130-140	0.05
140-150	0.10
150-160	0.18
160-170	0.18
170-180	0.05

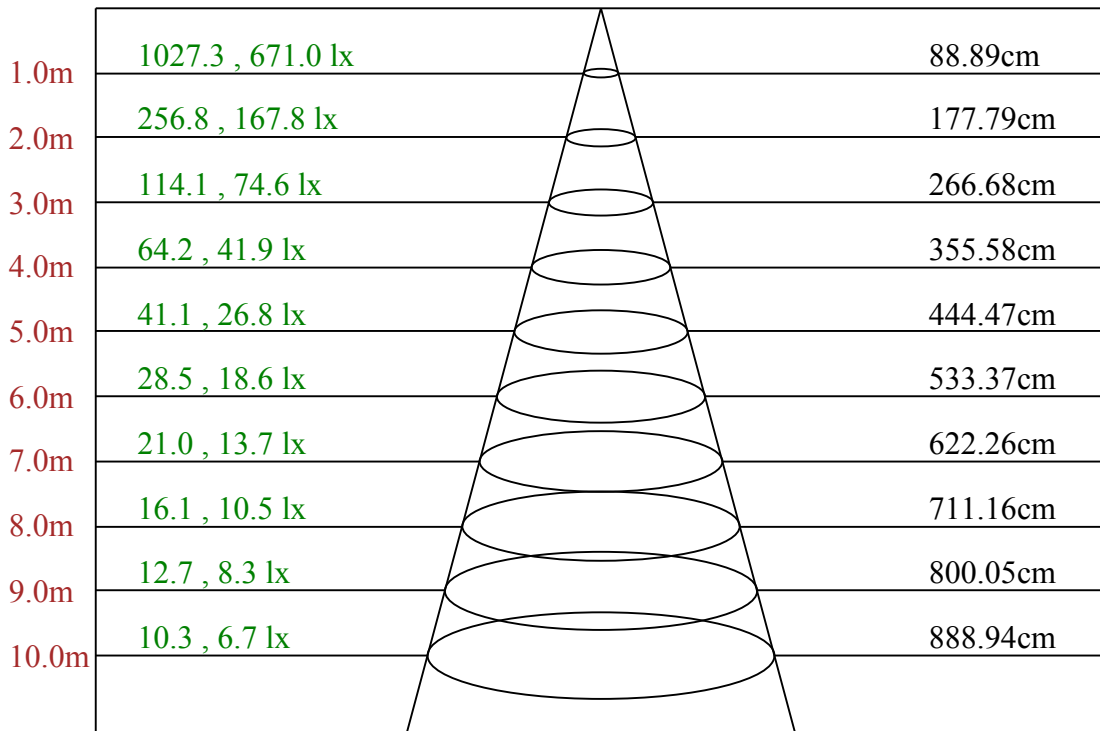


C0/C180: —

C90/C270: —

Field angle(10%I_{max}):C0/180Left:35.3 Right:33.0
:C90/270Left:32.8 Right:36.2

Beam Angle(50%I_{max}):C0/180Left:24.4 Right:21.4
:C90/270Left:21.7 Right:25.4



Max , Ave Beam angle of C225 plane 47.93

LRG3-35K

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	967.52	950.52	912.11	787.65	587.27	336.92	159.98	66.19	33.55
22.5	967.52	942.23	890.28	785.67	591.06	343.42	165.58	68.72	33.91
45.0	967.52	929.96	873.69	780.62	599.35	355.32	169.72	68.72	34.45
67.5	967.52	919.86	871.70	778.64	600.25	356.94	169.00	68.00	33.73
90.0	967.52	962.79	991.47	915.89	761.86	514.22	271.09	113.81	50.68
112.5	967.52	975.77	999.94	909.40	757.53	499.79	268.20	117.24	53.93
135.0	967.52	1000.30	1008.96	911.56	747.07	489.51	263.51	120.12	54.47
157.5	967.52	1020.87	1016.00	919.50	744.73	482.12	260.99	111.65	51.40
180.0	967.52	1032.05	1016.54	929.60	747.07	485.36	251.43	106.06	49.42
202.5	967.52	1037.82	1022.13	931.77	741.12	482.12	247.82	106.60	49.06
225.0	967.52	1039.08	1032.05	936.82	740.22	472.92	245.48	101.73	45.99
247.5	967.52	1038.54	1035.48	942.59	738.05	468.41	233.03	95.95	44.01
270.0	967.52	981.01	939.70	816.15	578.43	328.99	147.36	62.23	33.37
292.5	967.52	975.05	934.65	808.40	574.28	334.94	152.95	64.57	34.09
315.0	967.52	965.31	927.98	806.05	564.54	333.86	157.82	67.28	33.73
337.5	967.52	957.74	919.14	799.56	575.73	338.55	159.80	66.37	33.73
360.0	967.52	950.52	912.11	787.65	587.27	336.92	159.98	66.19	33.55
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	22.19	16.59	13.53	9.56	5.95	3.61	1.44	1.08	0.36
22.5	22.73	16.23	13.53	9.92	6.13	3.61	1.62	1.08	0.36
45.0	22.73	16.41	13.35	9.92	5.95	3.43	1.62	1.08	0.18
67.5	22.19	16.41	13.17	10.10	6.13	3.79	1.62	1.26	0.54
90.0	29.94	20.20	15.51	12.81	8.66	5.41	2.71	1.44	0.72
112.5	30.84	20.02	15.69	12.63	8.66	5.05	2.89	1.62	0.54
135.0	30.84	20.02	15.69	12.63	8.48	5.05	2.53	1.44	0.54
157.5	30.84	20.20	15.51	12.63	8.48	4.87	2.16	1.44	0.54
180.0	29.58	19.84	15.87	12.45	7.94	4.69	2.16	1.44	0.36
202.5	29.94	19.84	15.87	11.90	7.58	4.33	1.98	1.26	0.36
225.0	29.04	19.84	15.69	11.72	7.40	4.33	1.80	1.26	0.36
247.5	27.78	18.94	15.69	11.54	7.03	4.15	1.62	1.08	0.36
270.0	21.82	16.77	13.53	9.56	5.77	3.43	1.98	1.44	0.54
292.5	21.46	16.59	13.35	9.20	5.59	3.07	1.62	0.90	0.36
315.0	21.82	16.41	13.35	9.56	6.13	3.07	1.44	1.26	0.18
337.5	21.64	16.23	13.35	9.74	5.95	3.25	1.80	0.90	0.36
360.0	22.19	16.59	13.53	9.56	5.95	3.61	1.44	1.08	0.36
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
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	0.00	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
202.5	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
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.18	0.18	0.36	0.18	0.18	0.36	0.54	0.36	0.54
292.5	0.00	0.18	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

LRG3-35K

Intensity data(cd)

Appendix Page: 7 Total:7

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

C/γ(°)	180.0
0.0	0.85
22.5	0.85
45.0	0.85
67.5	0.85
90.0	0.85
112.5	0.85
135.0	0.85
157.5	0.85
180.0	0.85
202.5	0.85
225.0	0.85
247.5	0.85
270.0	0.85
292.5	0.85
315.0	0.85
337.5	0.85
360.0	0.85