



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

LumCAT: LSG3-35K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.02

LampCAT:

Current(A): 0.0640

Lamp flux(lm): -1.0

Power (W): 7.37

Number of Lamps: 1

PF: 0.9641

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 625.46, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 84.92

Central intensity(cd): 970.668, Maximum intensity(cd): 1031.269

Angle of maximum intensity: C=247.5  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=46.0

[C90/270]Total=46.4

Field angle(10%Imax): [C0/180]Total=67.8

[C90/270]Total=68.8

Maximum s/h(1/2): C0\_180=0.82 C90\_270=0.85

Maximum s/h(1/4): C0\_180=0.75 C90\_270=0.77

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  $\pi$  solid angle : 97.990%

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

Date:  
Humidity(%): 59%

Operator: jarvis

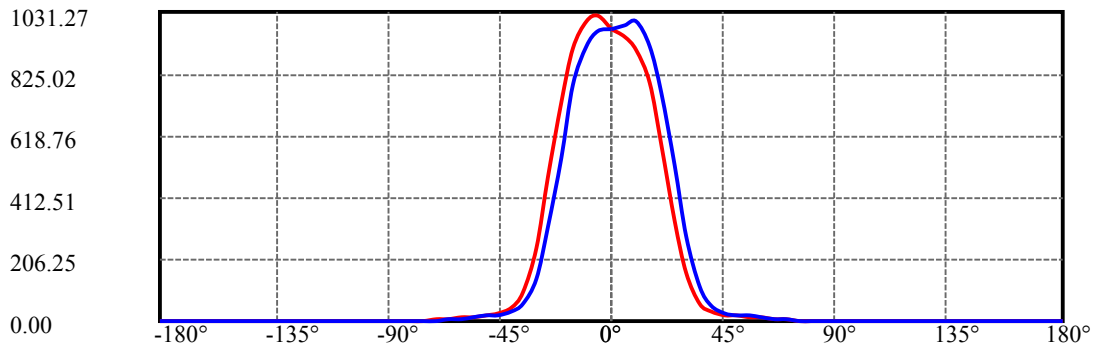
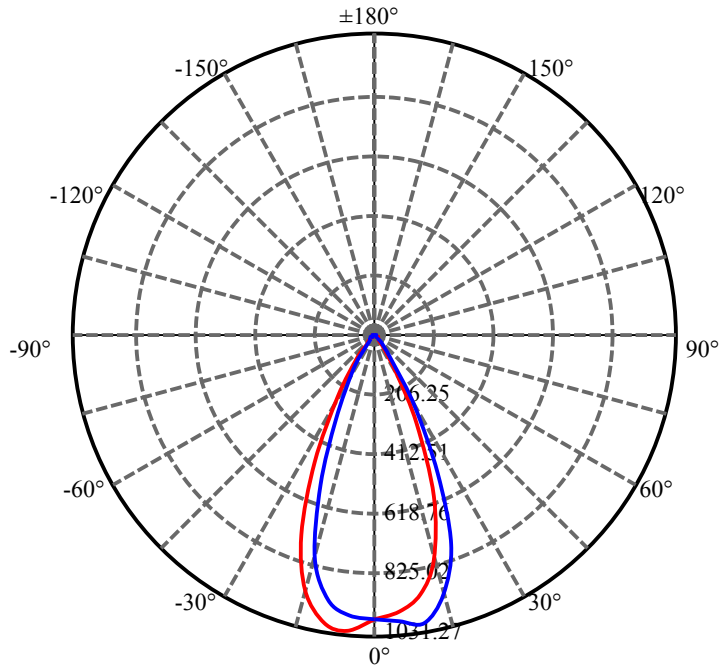
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	970.668	0.000	0	0.00%	0.00%
5.0	979.086	23.309	23.309	0.00%	3.73%
10.0	953.216	69.125	92.433	0.00%	14.78%
15.0	850.111	106.972	199.405	0.00%	31.88%
20.0	655.632	124.094	323.5	0.00%	51.72%
25.0	409.268	111.688	435.188	0.00%	69.58%
30.0	206.121	77.878	513.066	0.00%	82.03%
35.0	84.929	42.859	555.925	0.00%	88.88%
40.0	40.320	20.897	576.822	0.00%	92.22%
45.0	26.102	12.299	589.121	0.00%	94.19%
50.0	19.955	9.307	598.428	0.00%	95.68%
55.0	16.241	7.870	606.298	0.00%	96.94%
60.0	12.272	6.591	612.888	0.00%	97.99%
65.0	8.236	4.986	617.874	0.00%	98.79%
70.0	5.041	3.362	621.236	0.00%	99.32%
75.0	2.333	1.927	623.163	0.00%	99.63%
80.0	1.437	1.009	624.172	0.00%	99.79%
85.0	0.531	0.535	624.707	0.00%	99.88%
90.0	0.011	0.148	624.855	0.00%	99.90%
95.0	0.022	0.009	624.864	0.00%	99.90%
100.0	0.011	0.009	624.873	0.00%	99.91%
105.0	0.011	0.006	624.879	0.00%	99.91%
110.0	0.011	0.006	624.885	0.00%	99.91%
115.0	0.022	0.008	624.894	0.00%	99.91%
120.0	0.022	0.011	624.904	0.00%	99.91%
125.0	0.033	0.013	624.917	0.00%	99.91%
130.0	0.022	0.012	624.929	0.00%	99.92%
135.0	0.055	0.016	624.945	0.00%	99.92%
140.0	0.055	0.020	624.965	0.00%	99.92%
145.0	0.144	0.033	624.998	0.00%	99.93%
150.0	0.199	0.050	625.049	0.00%	99.93%
155.0	0.376	0.073	625.122	0.00%	99.95%
160.0	0.487	0.090	625.212	0.00%	99.96%
165.0	0.664	0.095	625.307	0.00%	99.98%
170.0	0.708	0.081	625.388	0.00%	99.99%
175.0	0.763	0.053	625.441	0.00%	100.00%
180.0	0.812	0.019	625.46	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	513.07	N.A.	82.03%
0-40	576.82	N.A.	92.22%
0-60	612.89	N.A.	97.99%
0-90	624.86	N.A.	99.90%
0-120	624.90	N.A.	99.91%
0-180	625.46	N.A.	100.00%
60-90	11.97	N.A.	1.91%
90-120	0.05	N.A.	0.01%
90-130	0.07	N.A.	0.01%
90-150	0.19	N.A.	0.03%
90-180	0.59	N.A.	0.09%
0-29.18	500.37	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	92.43
10-20	231.07
20-30	189.57
30-40	63.76
40-50	21.61
50-60	14.46
60-70	8.35
70-80	2.94
80-90	0.68
90-100	0.02
100-110	0.01
110-120	0.02
120-130	0.02
130-140	0.04
140-150	0.08
150-160	0.16
160-170	0.18
170-180	0.05

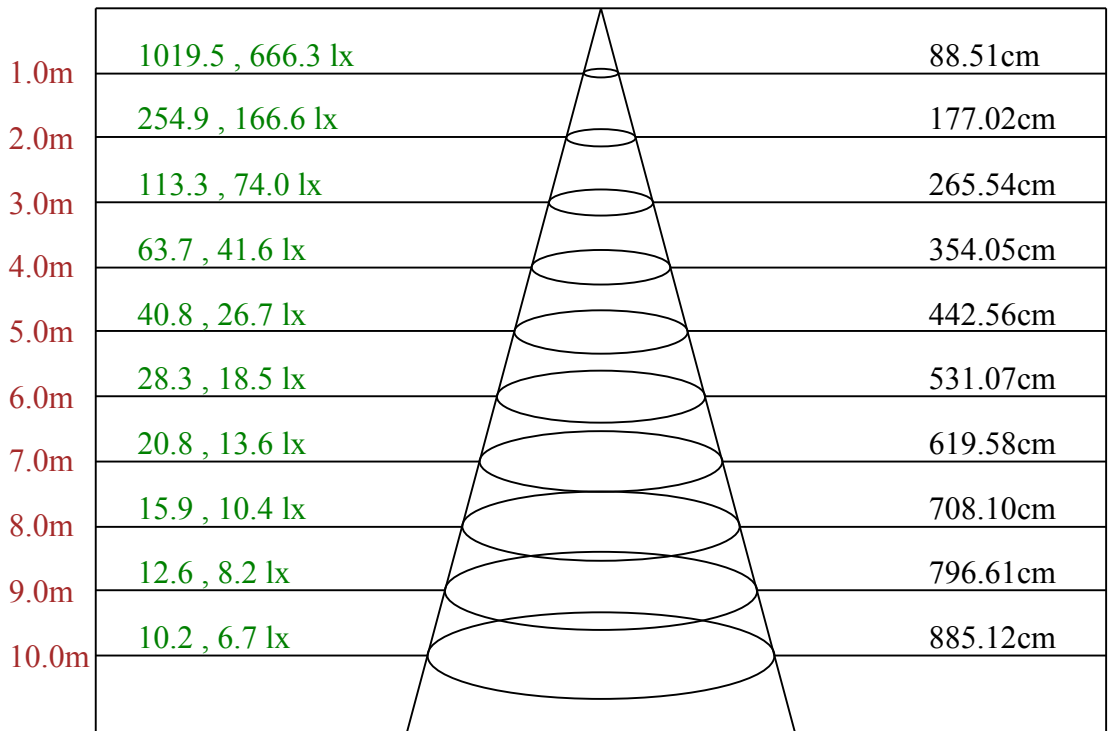


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:34.9 Right:32.9  
:C90/270Left:32.5 Right:36.3

Beam Angle(50%Imax):C0/180Left:24.4 Right:21.6  
:C90/270Left:21.0 Right:25.4



Max , Ave      Beam angle of C247.5 plane 47.74

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	970.67	947.07	902.85	793.71	587.81	335.56	159.91	59.61	30.07
22.5	970.67	935.39	901.61	794.59	591.52	341.75	171.05	67.93	34.49
45.0	970.67	926.90	892.76	790.52	601.60	353.78	174.41	73.41	38.39
67.5	970.67	914.34	887.46	784.86	610.62	362.45	179.19	71.11	36.09
90.0	970.67	984.39	998.90	917.35	763.10	519.53	279.84	118.34	48.29
112.5	970.67	992.00	990.41	913.81	763.99	516.52	279.13	116.57	50.59
135.0	970.67	1002.61	985.99	916.82	759.04	508.91	277.36	114.09	50.24
157.5	970.67	1011.99	992.35	914.70	741.35	489.46	259.32	107.02	45.82
180.0	970.67	1017.65	997.31	907.80	729.14	477.96	243.40	97.47	42.10
202.5	970.67	1025.61	1005.97	906.38	710.74	459.03	233.32	100.83	46.70
225.0	970.67	1030.21	1009.69	900.72	693.59	449.12	229.43	99.24	48.11
247.5	970.67	1031.27	1012.52	900.19	697.83	439.22	220.41	91.28	44.58
270.0	970.67	965.47	918.24	787.51	543.58	315.75	140.27	58.55	30.07
292.5	970.67	963.87	919.83	784.51	551.19	325.12	142.75	59.79	32.55
315.0	970.67	958.04	922.13	791.76	567.29	326.19	153.72	61.74	35.20
337.5	970.67	958.57	913.46	796.54	577.72	327.95	154.43	61.91	31.84
360.0	970.67	947.07	902.85	793.71	587.81	335.56	159.91	59.61	30.07
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	21.58	17.51	14.15	9.73	6.72	3.89	2.12	1.24	0.53
22.5	23.35	18.22	15.39	11.32	7.25	4.78	2.30	1.77	0.53
45.0	27.60	20.70	16.81	12.91	9.02	5.13	2.48	1.42	0.53
67.5	23.70	18.40	15.57	11.32	7.43	4.95	2.12	1.42	0.53
90.0	26.53	19.64	16.10	12.91	8.31	5.66	2.65	1.77	0.88
112.5	28.66	21.23	17.34	13.97	9.38	6.01	2.83	1.59	0.88
135.0	32.55	24.41	17.87	14.51	10.61	6.55	3.54	1.59	0.53
157.5	27.24	20.70	17.16	13.44	9.20	5.84	2.65	1.59	0.53
180.0	24.94	18.57	15.74	12.03	7.78	5.13	1.59	1.42	0.53
202.5	27.24	20.17	16.98	13.44	8.67	5.66	2.12	1.42	0.35
225.0	32.55	23.88	18.40	14.33	10.44	5.84	2.83	1.24	0.53
247.5	28.48	20.87	17.51	13.44	8.67	5.48	1.95	1.24	0.35
270.0	21.05	17.69	13.97	9.38	6.37	3.18	2.12	1.59	0.35
292.5	22.47	18.57	15.04	10.44	7.08	4.07	2.12	1.42	0.53
315.0	26.53	19.81	16.10	12.03	7.78	4.25	1.95	1.06	0.35
337.5	23.17	18.93	15.74	11.14	7.08	4.25	1.95	1.24	0.53
360.0	21.58	17.51	14.15	9.73	6.72	3.89	2.12	1.24	0.53
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	0.18	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	0.35	0.18	0.18	0.18	0.18	0.35	0.35	0.35
292.5	0.00	0.00	0.00	0.00	0.00	0.18	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

LSG3-35K

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	0.18	0.00	0.18	0.18	0.35	0.71	0.71	0.71	0.71
22.5	0.00	0.00	0.35	0.18	0.35	0.53	0.71	0.53	0.71
45.0	0.00	0.18	0.18	0.35	0.53	0.71	0.71	1.06	0.88
67.5	0.00	0.00	0.18	0.35	0.35	0.53	0.71	0.88	0.88
90.0	0.00	0.00	0.18	0.18	0.53	0.53	0.88	0.71	0.71
112.5	0.00	0.00	0.00	0.00	0.18	0.35	0.53	0.53	0.71
135.0	0.00	0.00	0.00	0.00	0.35	0.18	0.35	0.53	0.71
157.5	0.00	0.00	0.00	0.00	0.18	0.18	0.53	0.53	0.71
180.0	0.00	0.00	0.00	0.00	0.18	0.35	0.53	0.53	0.53
202.5	0.00	0.00	0.00	0.00	0.00	0.18	0.53	0.71	0.53
225.0	0.00	0.00	0.00	0.18	0.35	0.35	0.53	0.71	0.71
247.5	0.00	0.00	0.00	0.00	0.18	0.53	0.71	0.53	0.71
270.0	0.53	0.53	0.53	0.71	0.88	0.88	1.24	1.06	1.42
292.5	0.00	0.18	0.35	0.35	0.53	0.53	0.88	0.71	0.88
315.0	0.18	0.00	0.18	0.35	0.53	0.71	0.53	0.88	0.71
337.5	0.00	0.00	0.18	0.35	0.53	0.53	0.53	0.71	0.71
360.0	0.18	0.00	0.18	0.18	0.35	0.71	0.71	0.71	0.71

C/γ(°)	180.0
0.0	0.81
22.5	0.81
45.0	0.81
67.5	0.81
90.0	0.81
112.5	0.81
135.0	0.81
157.5	0.81
180.0	0.81
202.5	0.81
225.0	0.81
247.5	0.81
270.0	0.81
292.5	0.81
315.0	0.81
337.5	0.81
360.0	0.81