



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
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LumCAT: LRG3-30K

Luminaire:

Report No:

Voltage(V): 120.12

Test No:

Current(A): 0.0591

LampCAT:

Power (W): 7.0410

Lamp flux(lm): 606.3

PF: 0.9918

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 606.28

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 86.11

Central intensity(cd): 999.066

Maximum intensity(cd): 1044.880

Angle of maximum intensity: C=180.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=44.0

[C90/270]Total=45.3

Field angle(10%Imax): [C0/180]Total=68.2

[C90/270]Total=68.2

Maximum s/h(1/2): C0\_180=0.80 C90\_270=0.78

Maximum s/h(1/4): C0\_180=1.15 C90\_270=0.72

Up flux rate of lamp(%): 0.87%

Down flux rate of lamp(%): 99.13%

Up flux rate of LUM(%): 0.87%

Down flux rate of LUM(%): 99.13%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.259%

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

Date:  
Humidity(%): 58%

Operator: Zac

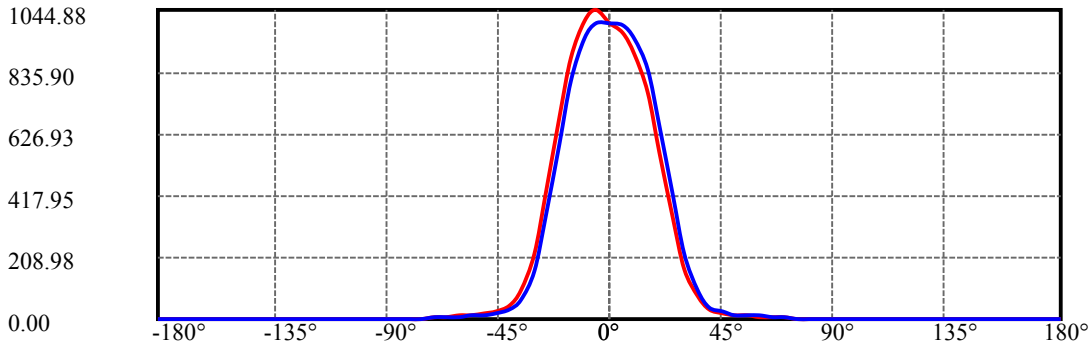
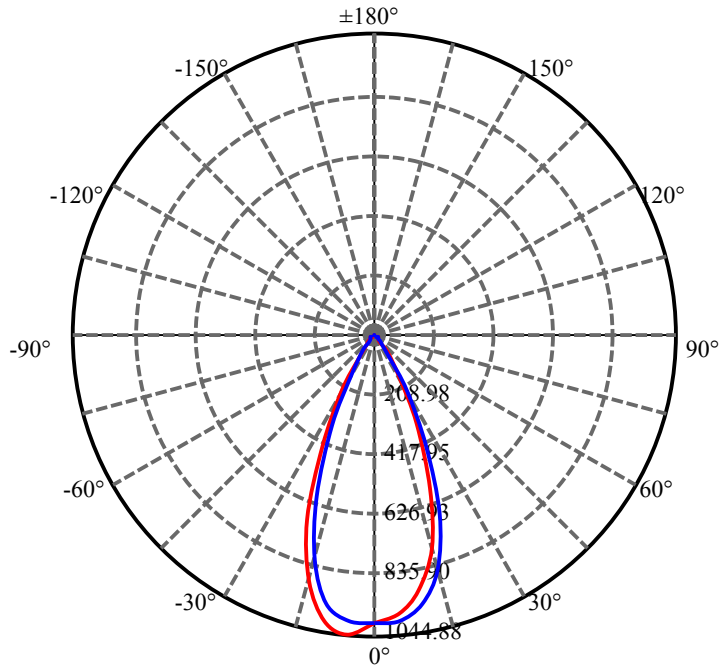
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	999.066	.000	.000	.000%	.000%
5.0	999.162	23.888	23.888	3.940%	3.940%
10.0	947.526	69.639	93.527	11.486%	15.426%
15.0	821.022	104.909	198.436	17.304%	32.730%
20.0	624.310	119.116	317.552	19.647%	52.377%
25.0	386.855	106.053	423.605	17.492%	69.869%
30.0	197.280	73.923	497.527	12.193%	82.062%
35.0	85.604	41.657	539.184	6.871%	88.933%
40.0	38.207	20.657	559.841	3.407%	92.340%
45.0	22.219	11.188	571.029	1.845%	94.185%
50.0	15.336	7.589	578.618	1.252%	95.437%
55.0	12.341	6.018	584.636	.993%	96.430%
60.0	9.431	5.033	589.668	.830%	97.260%
65.0	6.533	3.881	593.549	.640%	97.900%
70.0	4.830	2.877	596.427	.475%	98.374%
75.0	2.560	1.932	598.358	.319%	98.693%
80.0	2.017	1.225	599.583	.202%	98.895%
85.0	1.280	.896	600.479	.148%	99.043%
90.0	.688	.539	601.018	.089%	99.132%
95.0	.676	.374	601.391	.062%	99.193%
100.0	.688	.371	601.762	.061%	99.254%
105.0	.688	.368	602.131	.061%	99.315%
110.0	.700	.363	602.494	.060%	99.375%
115.0	.737	.364	602.857	.060%	99.435%
120.0	.761	.364	603.222	.060%	99.495%
125.0	.749	.349	603.571	.058%	99.553%
130.0	.809	.339	603.909	.056%	99.608%
135.0	.857	.337	604.246	.056%	99.664%
140.0	.906	.326	604.573	.054%	99.718%
145.0	.978	.314	604.887	.052%	99.770%
150.0	1.063	.300	605.187	.050%	99.819%
155.0	1.231	.290	605.478	.048%	99.867%
160.0	1.316	.267	605.745	.044%	99.911%
165.0	1.401	.224	605.969	.037%	99.948%
170.0	1.461	.170	606.138	.028%	99.976%
175.0	1.558	.108	606.246	.018%	99.994%
180.0	1.523	.037	606.283	.006%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	497.53	82.06%	82.06%
0-40	559.84	92.34%	92.34%
0-60	589.67	97.26%	97.26%
0-90	601.02	99.13%	99.13%
0-120	603.22	99.50%	99.50%
0-180	606.28	100.00%	100.00%
60-90	16.38	2.70%	2.70%
90-120	2.74	0.45%	0.45%
90-130	3.43	0.57%	0.57%
90-150	4.71	0.78%	0.78%
90-180	5.77	0.95%	0.95%
0-29.15	485.03	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	93.53
10-20	224.02
20-30	179.98
30-40	62.31
40-50	18.78
50-60	11.05
60-70	6.76
70-80	3.16
80-90	1.43
90-100	0.74
100-110	0.73
110-120	0.73
120-130	0.69
130-140	0.66
140-150	0.61
150-160	0.56
160-170	0.39
170-180	0.11

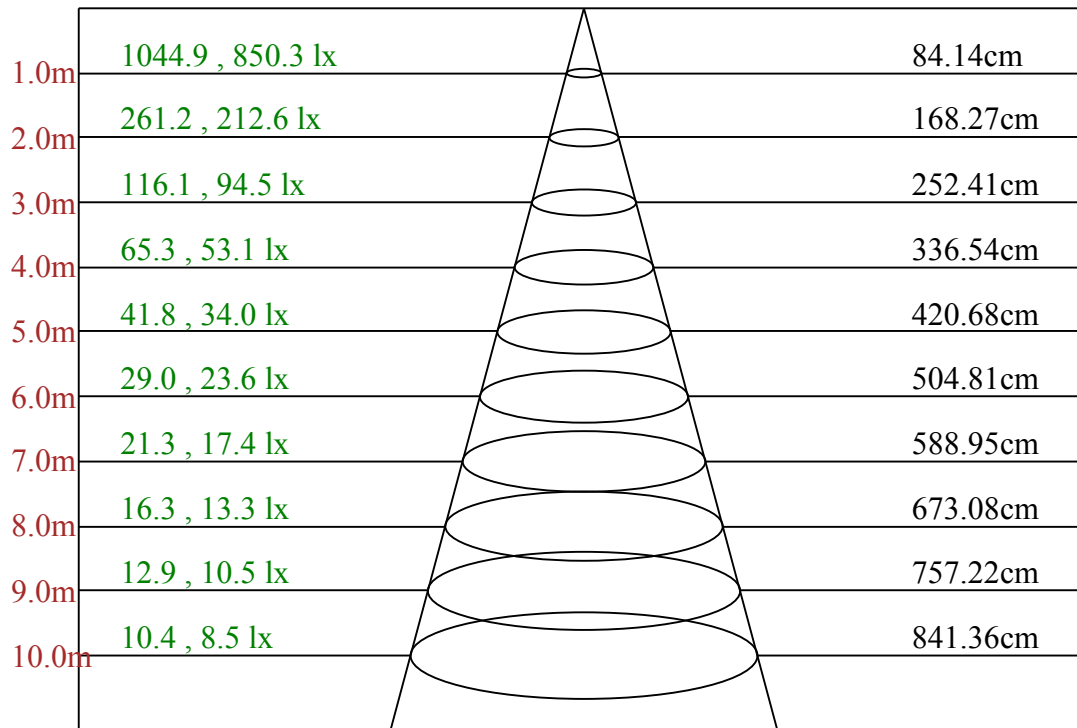


C0/C180: —

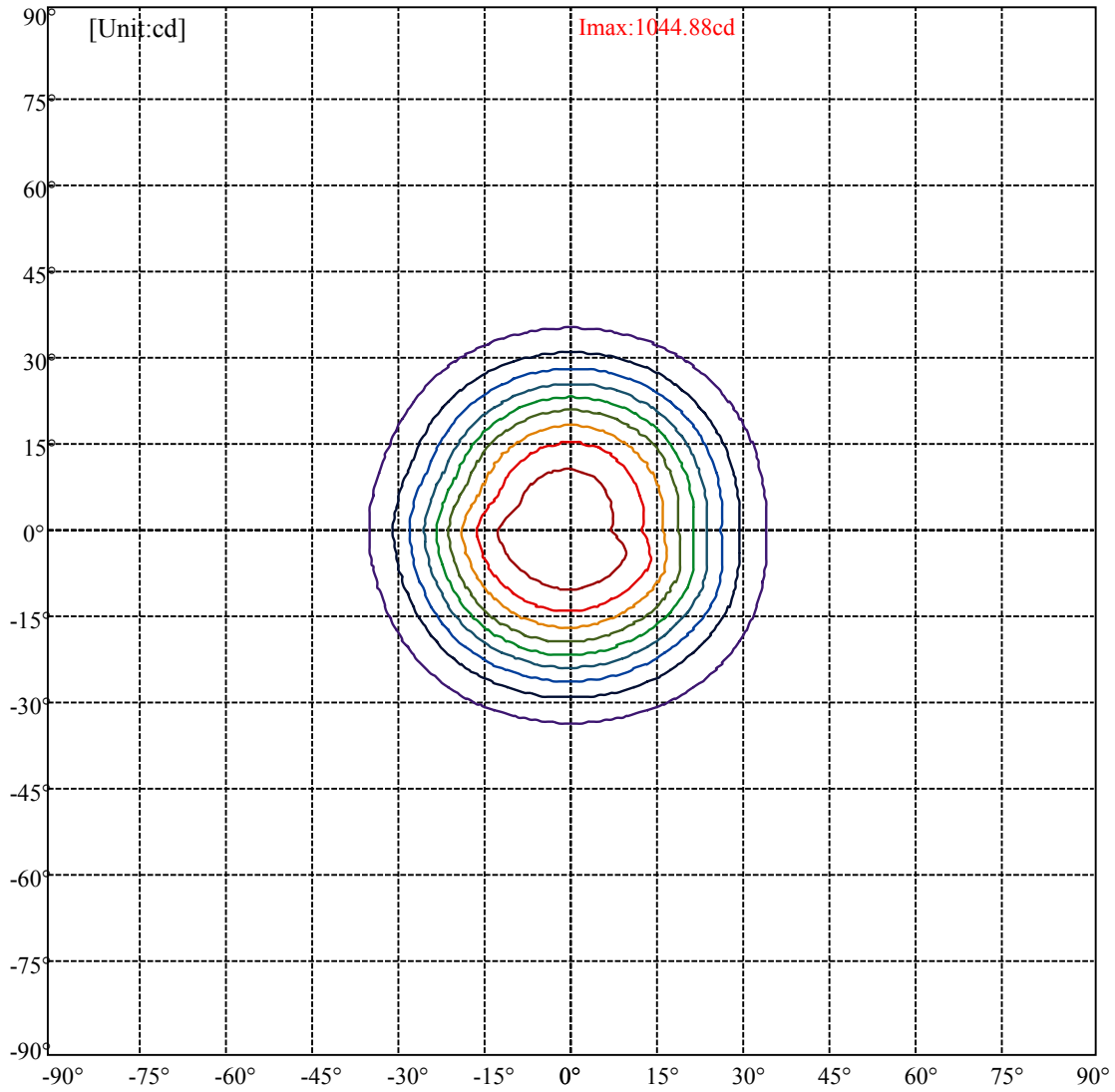
C90/C270: —

Field angle(10%Imax):C0/180Left:29.7 Right:38.5  
:C90/270Left:33.3 Right:34.9

Beam Angle(50%Imax):C0/180Left:18.1 Right:25.9  
:C90/270Left:21.9 Right:23.4



Max , Ave      Beam angle of C180plane45.62



## 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	999.07	969.72	896.49	764.73	564.17	341.02	171.76	76.32	34.59
22.5	999.07	979.58	910.41	794.09	605.33	381.59	195.53	86.75	39.03
45.0	999.07	984.60	927.79	813.99	638.95	410.38	216.20	92.93	41.73
67.5	999.07	992.91	941.32	832.74	651.70	425.26	224.90	96.99	41.35
90.0	999.07	994.45	949.05	841.62	658.07	422.55	222.39	97.76	41.15
112.5	999.07	996.00	954.26	832.93	647.06	418.11	219.68	96.99	41.35
135.0	999.07	996.96	951.56	822.11	631.99	387.00	211.95	93.32	39.80
157.5	999.07	992.52	939.19	802.02	603.40	367.29	189.93	84.05	36.52
180.0	999.07	1044.88	1003.73	883.16	680.49	425.64	222.77	96.99	42.70
202.5	999.07	1034.64	983.83	854.95	652.28	400.33	202.68	85.79	38.64
225.0	999.07	1018.99	960.83	828.29	631.22	381.98	189.15	77.28	35.94
247.5	999.07	1011.45	947.89	813.41	609.19	361.50	169.25	71.87	33.43
270.0	999.07	998.70	947.31	806.65	592.38	348.16	164.62	67.24	31.88
292.5	999.07	996.00	945.76	799.12	587.55	353.38	167.90	73.03	34.97
315.0	999.07	987.88	948.08	812.06	605.13	366.33	182.78	83.27	38.06
337.5	999.07	987.30	952.91	834.47	630.06	399.17	205.00	89.07	40.19
360.0	999.07	969.72	896.49	764.73	564.17	341.02	171.76	76.32	34.59
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.36	13.33	10.82	7.92	5.60	4.06	2.13	1.74	0.77
22.5	20.87	14.10	11.40	8.50	5.99	4.25	2.13	1.74	1.16
45.0	22.61	14.88	11.98	9.27	6.18	4.64	2.51	1.74	1.16
67.5	24.15	15.65	12.75	9.66	6.57	4.83	2.51	2.32	1.16
90.0	23.57	16.04	12.75	9.85	6.76	5.22	2.71	2.32	1.16
112.5	23.57	16.42	12.95	9.85	6.96	5.22	2.90	2.13	1.55
135.0	22.99	16.42	13.33	10.43	7.15	5.41	2.71	2.32	1.16
157.5	22.22	16.04	12.95	9.66	6.38	4.83	2.71	1.74	1.16
180.0	25.31	17.39	13.72	10.63	7.15	5.41	2.90	2.32	1.74
202.5	24.34	16.42	13.33	10.05	6.76	5.22	2.90	2.13	1.74
225.0	23.19	16.04	12.75	9.47	6.76	4.83	2.71	1.93	1.55
247.5	20.87	15.07	11.79	9.08	6.38	4.64	2.32	1.93	1.16
270.0	19.51	14.30	11.40	8.50	5.99	4.06	2.51	1.93	1.16
292.5	20.48	14.30	11.79	9.08	6.57	4.83	2.51	1.93	1.16
315.0	21.45	14.30	11.79	9.66	6.76	5.02	2.51	2.13	1.35
337.5	22.03	14.68	11.98	9.27	6.57	4.83	2.32	1.93	1.35
360.0	18.36	13.33	10.82	7.92	5.60	4.06	2.13	1.74	0.77
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.39	0.39	0.58	0.39	0.39	0.39	0.58	0.39	0.58
22.5	0.39	0.39	0.58	0.58	0.58	0.77	0.58	0.58	0.77
45.0	0.58	0.58	0.58	0.77	0.58	0.58	0.58	0.58	0.77
67.5	0.58	0.58	0.77	0.58	0.77	0.39	0.77	0.77	0.58
90.0	0.58	0.77	0.39	0.58	0.39	0.58	0.77	0.58	0.97
112.5	0.58	0.58	0.58	0.58	0.58	0.58	0.77	0.77	0.77
135.0	0.58	0.58	0.58	0.58	0.58	0.58	0.77	0.58	0.58
157.5	0.58	0.58	0.58	0.58	0.58	0.58	0.77	0.58	0.77
180.0	0.97	0.77	0.58	0.77	0.77	0.77	0.77	0.97	0.97
202.5	0.77	0.77	0.77	0.58	0.77	0.97	0.77	0.97	0.77
225.0	0.77	0.77	0.77	0.77	0.97	0.97	0.77	0.97	0.97
247.5	0.97	0.77	0.77	0.97	0.97	0.97	0.77	0.97	0.97
270.0	0.97	0.97	0.77	0.77	0.97	0.97	0.77	0.97	0.77
292.5	0.77	0.77	0.77	0.77	0.77	0.77	0.97	0.77	0.97
315.0	0.58	0.77	0.97	0.77	0.77	0.97	0.97	0.77	0.97
337.5	0.97	0.77	0.97	0.97	0.77	0.97	0.77	0.77	0.77
360.0	0.39	0.39	0.58	0.39	0.39	0.39	0.58	0.39	0.58

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	0.77	0.77	0.58	0.77	1.16	0.97	0.97	1.16	1.35
22.5	0.77	0.77	1.16	1.16	1.16	1.35	1.35	1.35	1.55
45.0	0.97	0.77	0.97	0.58	1.16	1.35	1.35	1.35	1.35
67.5	0.97	0.77	0.77	0.97	0.97	1.35	1.35	1.74	1.74
90.0	0.77	0.97	0.77	1.16	1.16	0.97	1.35	1.35	1.55
112.5	0.77	0.77	0.58	0.97	1.16	1.16	1.55	1.55	1.74
135.0	0.58	0.77	1.16	1.16	1.16	1.35	1.35	1.55	1.55
157.5	0.58	0.97	0.97	0.97	1.16	1.35	1.16	1.55	1.55
180.0	0.77	0.97	0.97	1.16	1.16	1.35	1.35	1.35	1.55
202.5	0.97	0.97	1.16	0.97	1.35	1.16	1.55	1.35	1.55
225.0	0.77	1.16	1.16	1.16	1.35	1.55	1.55	1.35	1.55
247.5	0.97	0.97	0.97	0.97	1.35	1.35	1.35	1.55	1.55
270.0	0.97	0.97	1.16	1.35	1.55	1.35	1.55	1.55	1.55
292.5	0.97	0.97	0.97	1.16	1.35	1.35	1.35	1.55	1.55
315.0	1.16	0.97	1.16	1.35	1.35	1.55	1.74	1.55	1.55
337.5	0.97	0.97	1.16	1.16	1.16	1.55	1.55	1.55	1.74
360.0	0.77	0.77	0.58	0.77	1.16	0.97	0.97	1.16	1.35

C/γ(°)	180.0
0.0	1.52
22.5	1.52
45.0	1.52
67.5	1.52
90.0	1.52
112.5	1.52
135.0	1.52
157.5	1.52
180.0	1.52
202.5	1.52
225.0	1.52
247.5	1.52
270.0	1.52
292.5	1.52
315.0	1.52
337.5	1.52
360.0	1.52