



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

Tel:0755-21038430

Address:1 F.,No.1 building,Meibaoh industrial park,Dalang street,Longhua district,Shenzhen,China

LumCAT: LSG3-30K

Luminaire:

Report No:

Voltage(V): 120.02

Test No:

Current(A): 0.0625

LampCAT:

Power (W): 7.4410

Lamp flux(lm): 601.9

PF: 0.9919

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 601.93

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 80.89

Central intensity(cd): 1004.766

Maximum intensity(cd): 1037.376

Angle of maximum intensity: C=180.0 γ =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=0.78 C90_270=0.78

Maximum s/h(1/4): C0_180=1.12 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 π solid angle : 97.260%

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

Date:
Humidity(%): 58%

Operator: Zac

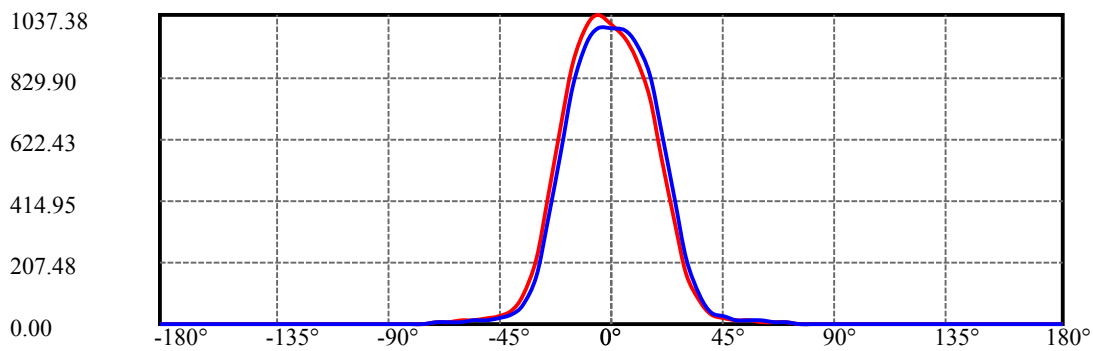
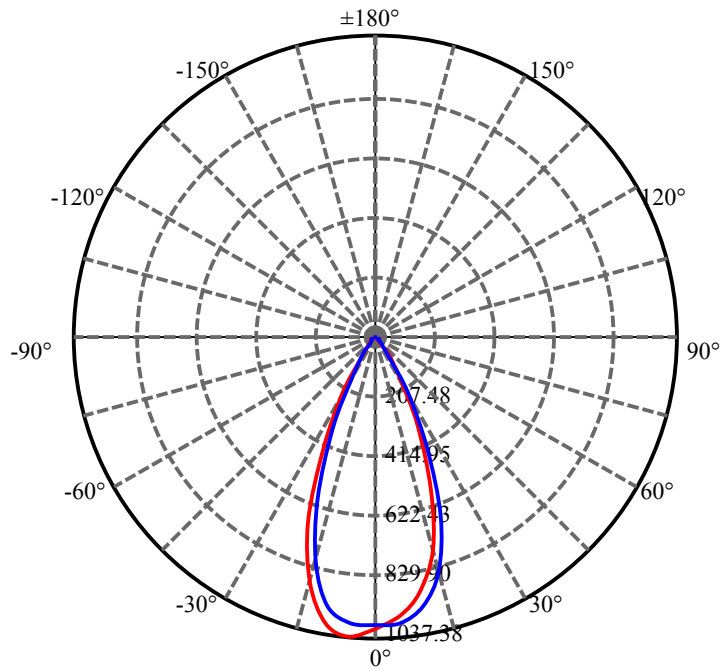
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	992.058	.000	.000	.000%	.000%
5.0	991.986	23.719	23.719	3.940%	3.940%
10.0	940.722	69.139	92.858	11.486%	15.427%
15.0	815.126	104.156	197.013	17.304%	32.730%
20.0	619.827	118.260	315.274	19.647%	52.377%
25.0	384.077	105.291	420.565	17.492%	69.869%
30.0	195.863	73.392	493.956	12.193%	82.062%
35.0	84.989	41.357	535.314	6.871%	88.933%
40.0	37.933	20.509	555.822	3.407%	92.340%
45.0	22.060	11.108	566.931	1.845%	94.185%
50.0	15.226	7.534	574.465	1.252%	95.437%
55.0	12.253	5.975	580.439	.993%	96.430%
60.0	9.363	4.996	585.436	.830%	97.260%
65.0	6.486	3.853	589.289	.640%	97.900%
70.0	4.796	2.857	592.145	.475%	98.374%
75.0	2.542	1.918	594.063	.319%	98.693%
80.0	2.002	1.216	595.279	.202%	98.895%
85.0	1.271	.889	596.169	.148%	99.043%
90.0	.683	.535	596.704	.089%	99.132%
95.0	.671	.371	597.074	.062%	99.193%
100.0	.683	.368	597.442	.061%	99.254%
105.0	.683	.366	597.808	.061%	99.315%
110.0	.695	.360	598.168	.060%	99.375%
115.0	.731	.361	598.529	.060%	99.435%
120.0	.755	.361	598.890	.060%	99.495%
125.0	.743	.346	599.237	.058%	99.553%
130.0	.803	.336	599.573	.056%	99.608%
135.0	.851	.334	599.907	.056%	99.664%
140.0	.899	.324	600.231	.054%	99.718%
145.0	.971	.312	600.543	.052%	99.770%
150.0	1.055	.298	600.842	.050%	99.819%
155.0	1.223	.288	601.130	.048%	99.867%
160.0	1.307	.265	601.395	.044%	99.911%
165.0	1.391	.222	601.617	.037%	99.948%
170.0	1.451	.169	601.786	.028%	99.976%
175.0	1.547	.107	601.893	.018%	99.994%
180.0	1.511	.037	601.930	.006%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	493.96	82.06%	82.06%
0-40	555.82	92.34%	92.34%
0-60	585.44	97.26%	97.26%
0-90	596.70	99.13%	99.13%
0-120	598.89	99.50%	99.50%
0-180	601.93	100.00%	100.00%
60-90	16.26	2.70%	2.70%
90-120	2.72	0.45%	0.45%
90-130	3.40	0.57%	0.57%
90-150	4.67	0.78%	0.78%
90-180	5.72	0.95%	0.95%
0-29.15	481.54	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	92.86
10-20	222.42
20-30	178.68
30-40	61.87
40-50	18.64
50-60	10.97
60-70	6.71
70-80	3.13
80-90	1.42
90-100	0.74
100-110	0.73
110-120	0.72
120-130	0.68
130-140	0.66
140-150	0.61
150-160	0.55
160-170	0.39
170-180	0.11

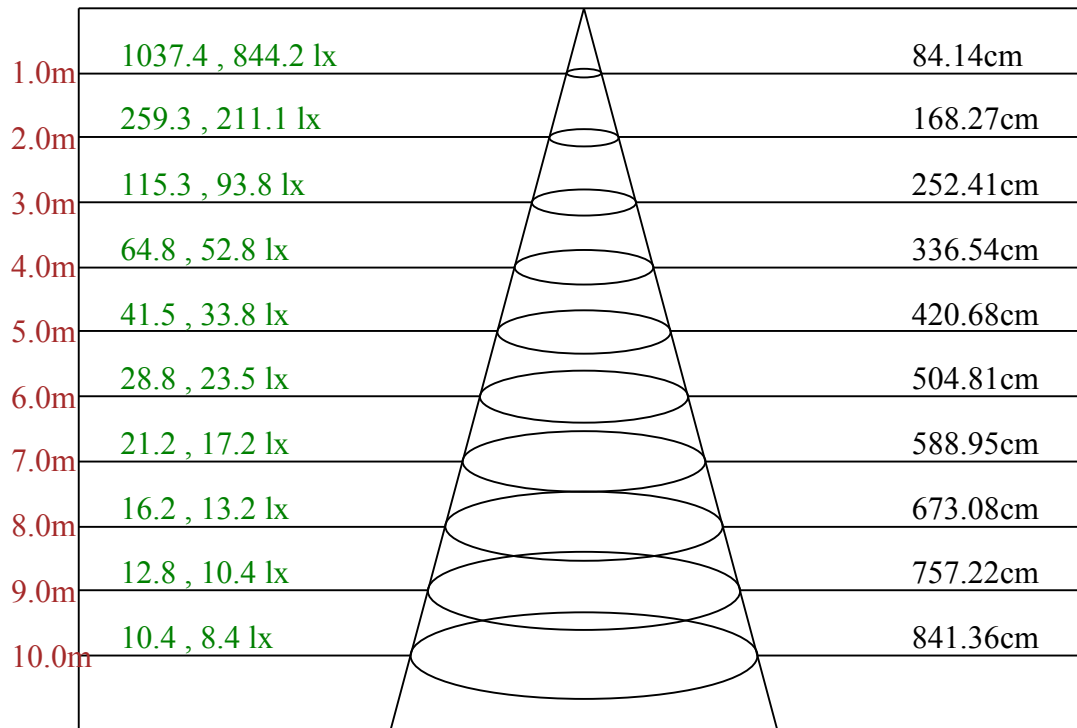


C0/C180: —

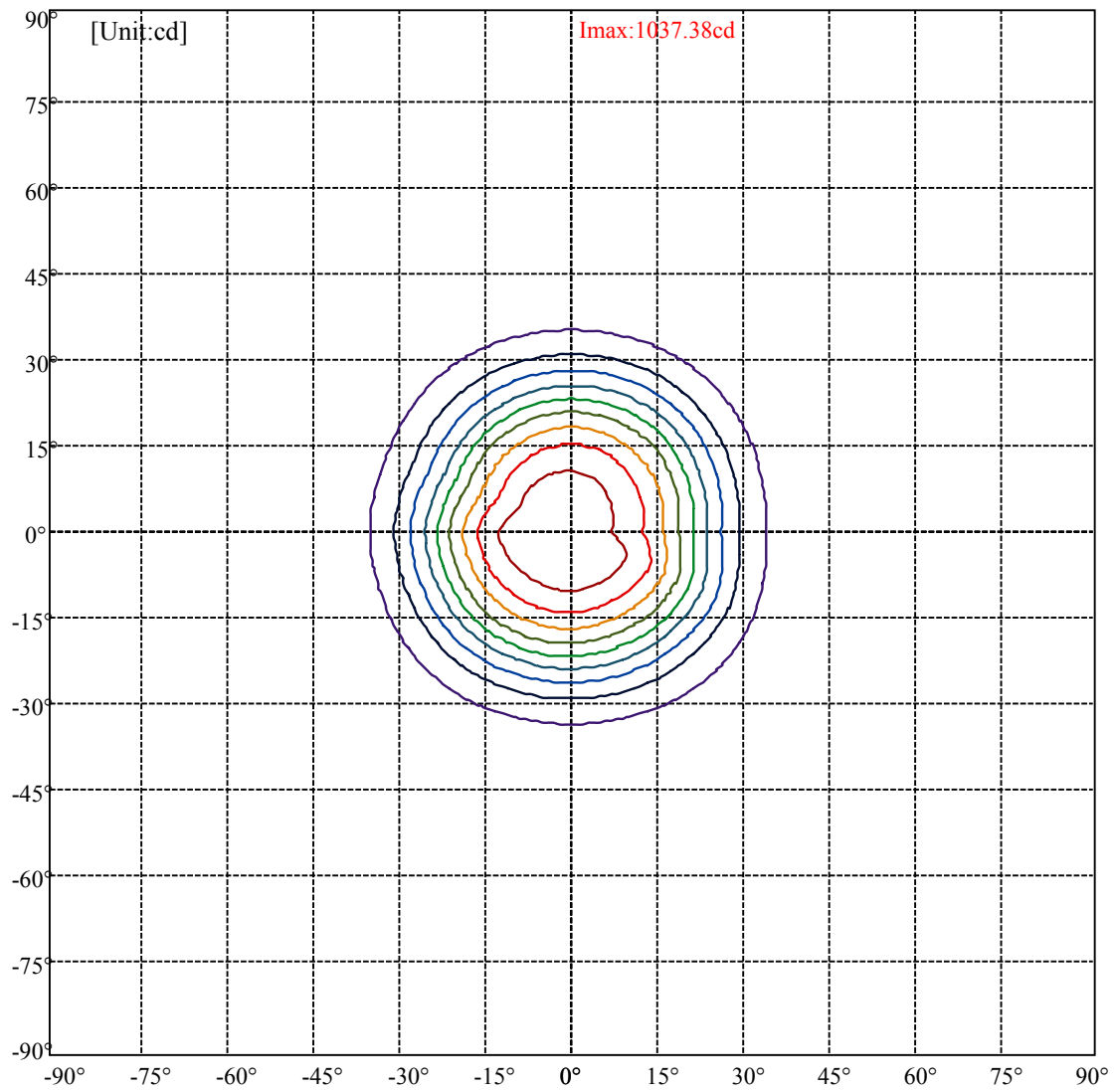
C90/C270: —

Field angle(10%Imax):C0/180Left:29.7 Right:38.5
:C90/270Left:28.3 Right:39.9

Beam Angle(50%Imax):C0/180Left:18.1 Right:25.9
:C90/270Left:16.9 Right:28.4



Max , Ave Beam angle of C180plane45.62



(10%I _{max}) 103.738	—
(20%I _{max}) 207.475	—
(30%I _{max}) 311.213	—
(40%I _{max}) 414.95	—
(50%I _{max}) 518.688	—
(60%I _{max}) 622.426	—
(70%I _{max}) 726.163	—
(80%I _{max}) 829.901	—
(90%I _{max}) 933.638	—

Intensity data(cd)

Page: 7 Total:8

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1004.77	962.76	890.06	759.23	560.12	338.57	170.53	75.77	34.34
22.5	1001.12	972.54	903.87	788.39	600.98	378.85	194.12	86.13	38.75
45.0	1001.70	977.53	921.13	808.15	634.36	407.43	214.65	92.27	41.43
67.5	991.91	985.78	934.56	826.76	647.02	422.20	223.28	96.30	41.05
90.0	989.23	987.31	942.23	835.58	653.35	419.52	220.79	97.06	40.86
112.5	988.85	988.85	947.41	826.95	642.41	415.10	218.10	96.30	41.05
135.0	980.41	989.80	944.73	816.21	627.45	384.22	210.43	92.65	39.52
157.5	978.49	985.39	932.45	796.26	599.06	364.66	188.56	83.44	36.25
180.0	1004.77	1037.38	996.52	876.82	675.60	422.59	221.17	96.30	42.39
202.5	1001.12	1027.21	976.76	848.82	647.59	397.46	201.22	85.17	38.37
225.0	1001.70	1011.67	953.93	822.34	626.68	379.23	187.79	76.73	35.68
247.5	991.91	1004.19	941.08	807.57	604.82	358.90	168.04	71.36	33.19
270.0	989.23	991.53	940.51	800.86	588.13	345.66	163.43	66.75	31.65
292.5	988.85	988.85	938.97	793.38	583.33	350.84	166.69	72.51	34.72
315.0	980.41	980.79	941.27	806.23	600.79	363.70	181.46	82.68	37.79
337.5	978.49	980.21	946.07	828.48	625.53	396.31	203.52	88.43	39.90
360.0	1004.77	962.76	890.06	759.23	560.12	338.57	170.53	75.77	34.34
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.22	13.24	10.74	7.87	5.56	4.03	2.11	1.73	0.77
22.5	20.72	14.00	11.32	8.44	5.95	4.22	2.11	1.73	1.15
45.0	22.44	14.77	11.89	9.21	6.14	4.60	2.49	1.73	1.15
67.5	23.98	15.54	12.66	9.59	6.52	4.80	2.49	2.30	1.15
90.0	23.40	15.92	12.66	9.78	6.71	5.18	2.69	2.30	1.15
112.5	23.40	16.31	12.85	9.78	6.91	5.18	2.88	2.11	1.54
135.0	22.83	16.31	13.24	10.36	7.10	5.37	2.69	2.30	1.15
157.5	22.06	15.92	12.85	9.59	6.33	4.80	2.69	1.73	1.15
180.0	25.13	17.26	13.62	10.55	7.10	5.37	2.88	2.30	1.73
202.5	24.17	16.31	13.24	9.98	6.71	5.18	2.88	2.11	1.73
225.0	23.02	15.92	12.66	9.40	6.71	4.80	2.69	1.92	1.54
247.5	20.72	14.96	11.70	9.02	6.33	4.60	2.30	1.92	1.15
270.0	19.37	14.20	11.32	8.44	5.95	4.03	2.49	1.92	1.15
292.5	20.33	14.20	11.70	9.02	6.52	4.80	2.49	1.92	1.15
315.0	21.29	14.20	11.70	9.59	6.71	4.99	2.49	2.11	1.34
337.5	21.87	14.58	11.89	9.21	6.52	4.80	2.30	1.92	1.34
360.0	18.22	13.24	10.74	7.87	5.56	4.03	2.11	1.73	0.77
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.38	0.38	0.58	0.38	0.38	0.38	0.58	0.38	0.58
22.5	0.38	0.38	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	0.38	0.77	0.77	0.58
90.0	0.58	0.77	0.38	0.58	0.38	0.58	0.77	0.58	0.96
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	0.96	0.77	0.58	0.77	0.77	0.77	0.77	0.96	0.96
202.5	0.77	0.77	0.77	0.58	0.77	0.96	0.77	0.96	0.77
225.0	0.77	0.77	0.77	0.77	0.96	0.96	0.77	0.96	0.96
247.5	0.96	0.77	0.77	0.96	0.96	0.96	0.77	0.96	0.96
270.0	0.96	0.96	0.77	0.77	0.96	0.96	0.77	0.96	0.77
292.5	0.77	0.77	0.77	0.77	0.77	0.77	0.96	0.77	0.96
315.0	0.58	0.77	0.96	0.77	0.77	0.96	0.96	0.77	0.96
337.5	0.96	0.77	0.96	0.96	0.77	0.96	0.77	0.77	0.77
360.0	0.38	0.38	0.58	0.38	0.38	0.38	0.58	0.38	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	1.15	0.96	0.96	1.15	1.34
22.5	0.77	0.77	1.15	1.15	1.15	1.34	1.34	1.34	1.54
45.0	0.96	0.77	0.96	0.58	1.15	1.34	1.34	1.34	1.34
67.5	0.96	0.77	0.77	0.96	0.96	1.34	1.34	1.73	1.73
90.0	0.77	0.96	0.77	1.15	1.15	0.96	1.34	1.34	1.54
112.5	0.77	0.77	0.58	0.96	1.15	1.15	1.54	1.54	1.73
135.0	0.58	0.77	1.15	1.15	1.15	1.34	1.34	1.54	1.54
157.5	0.58	0.96	0.96	0.96	1.15	1.34	1.15	1.54	1.54
180.0	0.77	0.96	0.96	1.15	1.15	1.34	1.34	1.34	1.54
202.5	0.96	0.96	1.15	0.96	1.34	1.15	1.54	1.34	1.54
225.0	0.77	1.15	1.15	1.15	1.34	1.54	1.54	1.34	1.54
247.5	0.96	0.96	0.96	0.96	1.34	1.34	1.34	1.54	1.54
270.0	0.96	0.96	1.15	1.34	1.54	1.34	1.54	1.54	1.54
292.5	0.96	0.96	0.96	1.15	1.34	1.34	1.34	1.54	1.54
315.0	1.15	0.96	1.15	1.34	1.34	1.54	1.73	1.54	1.54
337.5	0.96	0.96	1.15	1.15	1.15	1.54	1.54	1.54	1.73
360.0	0.77	0.77	0.58	0.77	1.15	0.96	0.96	1.15	1.34
C/γ(°)	180.0								
0.0	1.54								
22.5	1.54								
45.0	1.34								
67.5	1.54								
90.0	1.54								
112.5	1.54								
135.0	1.54								
157.5	1.54								
180.0	1.54								
202.5	1.54								
225.0	1.34								
247.5	1.54								
270.0	1.54								
292.5	1.54								
315.0	1.54								
337.5	1.54								
360.0	1.54								