



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

LumCAT: LSG3-50K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 119.96

LampCAT:

Current(A): 0.0620

Lamp flux(lm): -1.0

Power (W): 7.19

Number of Lamps: 1

PF: 0.9628

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 669.65, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 93.14

Central intensity(cd): 995.806, Maximum intensity(cd): 1059.203

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=46.9

[C90/270]Total=47.2

Field angle(10%Imax): [C0/180]Total=69.3

[C90/270]Total=69.8

Maximum s/h(1/2): C0_180=0.79 C90_270=0.78

Maximum s/h(1/4): C0_180=0.72 C90_270=0.71

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 π solid angle : 97.872%

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

Date:
Humidity(%): 59%

Operator: jarvis

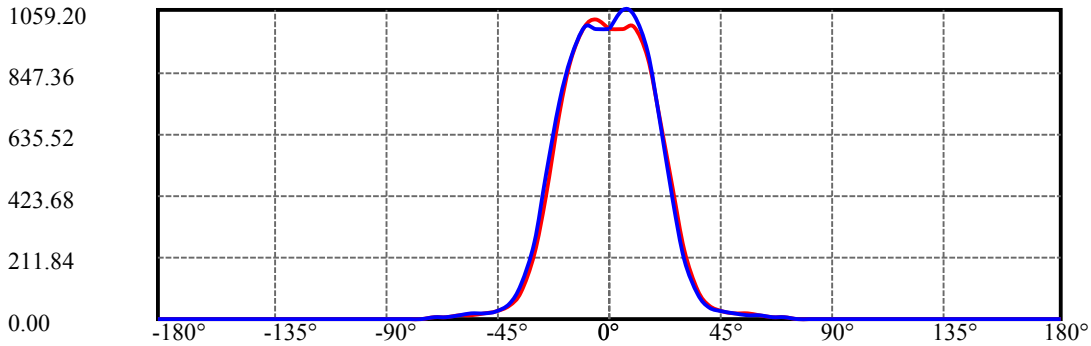
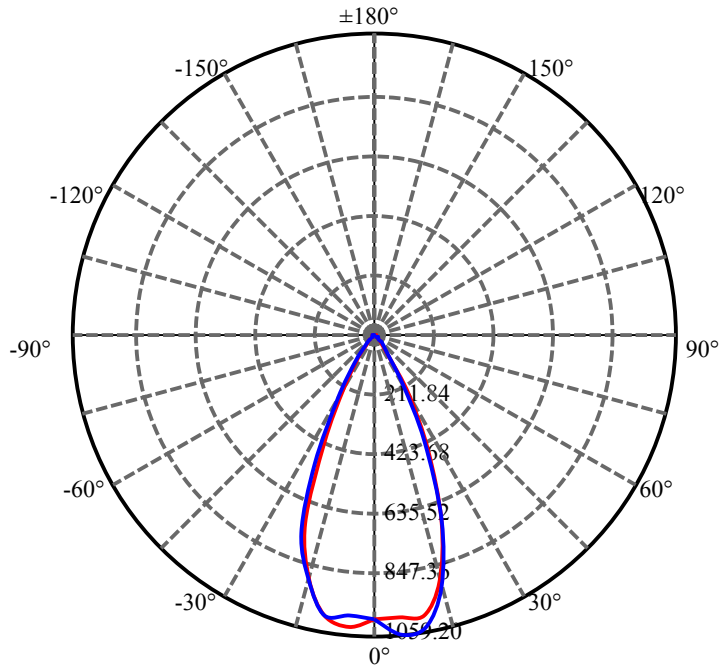
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	995.806	0.000	0	0.00%	0.00%
5.0	1013.027	24.015	24.015	0.00%	3.59%
10.0	1006.062	72.229	96.244	0.00%	14.37%
15.0	895.648	112.808	209.052	0.00%	31.22%
20.0	697.575	131.304	340.356	0.00%	50.83%
25.0	438.018	119.103	459.459	0.00%	68.61%
30.0	229.503	84.475	543.934	0.00%	81.23%
35.0	97.046	48.087	592.021	0.00%	88.41%
40.0	45.924	23.853	615.874	0.00%	91.97%
45.0	28.906	13.855	629.729	0.00%	94.04%
50.0	21.493	10.184	639.913	0.00%	95.56%
55.0	17.270	8.428	648.342	0.00%	96.82%
60.0	13.242	7.053	655.395	0.00%	97.87%
65.0	9.031	5.415	660.809	0.00%	98.68%
70.0	5.738	3.739	664.549	0.00%	99.24%
75.0	2.708	2.208	666.756	0.00%	99.57%
80.0	1.767	1.197	667.954	0.00%	99.75%
85.0	0.803	0.698	668.652	0.00%	99.85%
90.0	0.034	0.229	668.882	0.00%	99.89%
95.0	0.023	0.016	668.897	0.00%	99.89%
100.0	0.012	0.009	668.907	0.00%	99.89%
105.0	0.012	0.006	668.913	0.00%	99.89%
110.0	0.012	0.006	668.919	0.00%	99.89%
115.0	0.012	0.006	668.925	0.00%	99.89%
120.0	0.023	0.008	668.933	0.00%	99.89%
125.0	0.034	0.013	668.946	0.00%	99.90%
130.0	0.034	0.015	668.961	0.00%	99.90%
135.0	0.069	0.021	668.982	0.00%	99.90%
140.0	0.126	0.036	669.018	0.00%	99.91%
145.0	0.218	0.057	669.076	0.00%	99.91%
150.0	0.321	0.079	669.155	0.00%	99.93%
155.0	0.482	0.102	669.257	0.00%	99.94%
160.0	0.620	0.116	669.372	0.00%	99.96%
165.0	0.711	0.110	669.482	0.00%	99.98%
170.0	0.780	0.088	669.57	0.00%	99.99%
175.0	0.814	0.057	669.628	0.00%	100.00%
180.0	0.864	0.020	669.648	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	543.93	N.A.	81.23%
0-40	615.87	N.A.	91.97%
0-60	655.39	N.A.	97.87%
0-90	668.88	N.A.	99.89%
0-120	668.93	N.A.	99.89%
0-180	669.65	N.A.	100.00%
60-90	13.49	N.A.	2.01%
90-120	0.05	N.A.	0.01%
90-130	0.08	N.A.	0.01%
90-150	0.27	N.A.	0.04%
90-180	0.75	N.A.	0.11%
0-29.51	535.72	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	96.24
10-20	244.11
20-30	203.58
30-40	71.94
40-50	24.04
50-60	15.48
60-70	9.15
70-80	3.41
80-90	0.93
90-100	0.03
100-110	0.01
110-120	0.01
120-130	0.03
130-140	0.06
140-150	0.14
150-160	0.22
160-170	0.20
170-180	0.06

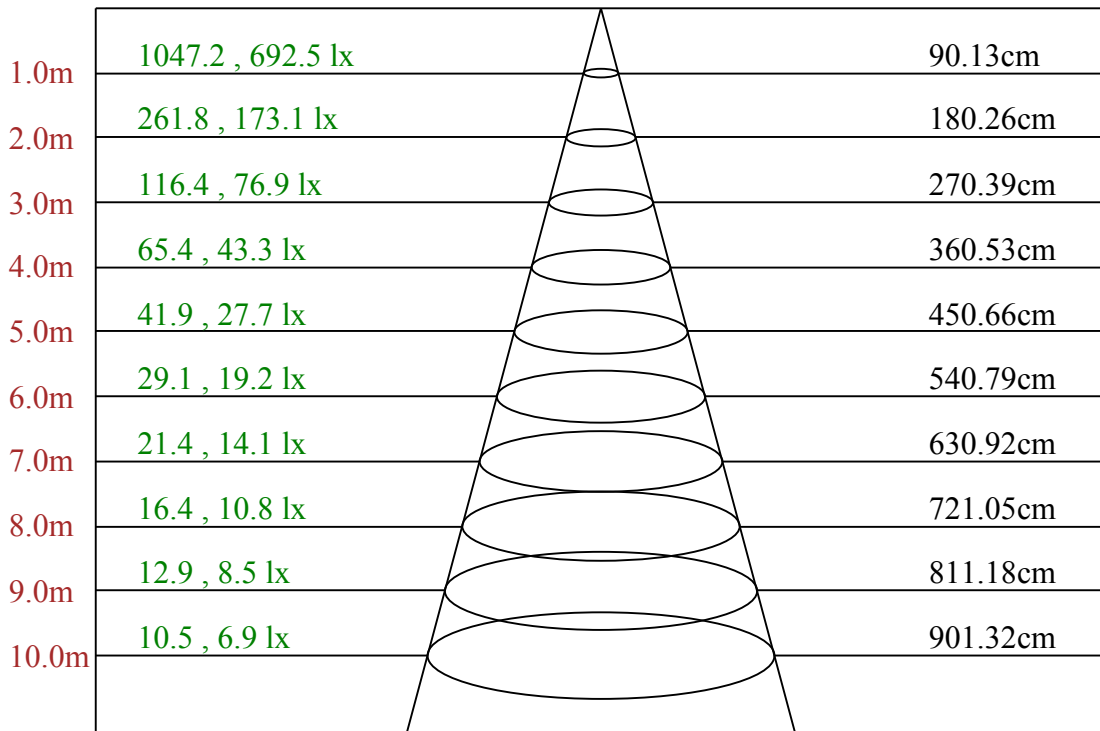


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:34.5 Right:34.8
:C90/270Left:35.7 Right:34.1

Beam Angle(50%Imax):C0/180Left:23.3 Right:23.6
:C90/270Left:24.3 Right:22.9



Max , Ave Beam angle of C90 plane 48.52

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	995.81	994.94	999.72	891.94	698.06	444.32	238.68	96.94	43.51
22.5	995.81	983.56	991.09	879.09	661.89	408.70	217.39	90.70	41.31
45.0	995.81	963.73	981.72	856.32	631.78	376.39	190.40	80.60	43.15
67.5	995.81	955.84	960.24	840.35	609.38	366.65	177.73	72.71	38.37
90.0	995.81	1059.20	1038.64	913.61	689.43	410.90	202.33	85.56	38.74
112.5	995.81	1053.51	1019.36	892.49	683.55	396.77	192.23	78.77	38.01
135.0	995.81	1041.03	998.25	886.25	676.39	387.22	187.83	77.85	40.58
157.5	995.81	1031.30	998.80	882.76	675.84	392.18	199.94	83.54	42.23
180.0	995.81	1028.36	1002.29	888.64	700.99	419.72	221.24	90.15	42.96
202.5	995.81	1037.17	1010.55	901.67	712.38	444.32	245.84	103.19	47.55
225.0	995.81	1036.99	1023.40	926.28	730.19	482.88	270.08	113.10	56.55
247.5	995.81	1042.68	1034.23	948.67	764.70	517.94	293.95	122.10	60.96
270.0	995.81	990.35	1002.10	893.23	741.94	496.65	259.98	115.49	50.67
292.5	995.81	990.17	1010.37	903.14	742.12	500.13	264.39	116.77	50.67
315.0	995.81	998.25	1019.18	912.32	731.11	496.46	260.35	113.28	51.04
337.5	995.81	1001.37	1007.06	913.61	711.46	467.09	249.70	112.00	48.47
360.0	995.81	994.94	999.72	891.94	698.06	444.32	238.68	96.94	43.51
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	26.07	19.65	16.52	12.30	8.81	5.32	2.20	1.65	0.73
22.5	26.44	20.56	16.71	12.67	8.45	5.32	2.39	1.65	0.55
45.0	29.38	22.03	17.44	13.40	8.81	4.96	2.39	1.47	0.55
67.5	26.07	20.75	16.34	11.75	7.71	4.77	2.39	1.47	0.37
90.0	26.81	20.20	15.79	11.57	7.34	4.77	2.20	1.47	0.55
112.5	26.81	20.38	16.34	12.12	7.71	4.96	2.20	1.47	0.37
135.0	29.56	22.77	17.99	13.59	9.18	5.69	2.39	1.65	0.73
157.5	27.36	21.48	17.26	13.04	8.81	5.69	2.39	1.84	0.73
180.0	25.34	18.73	16.16	12.30	8.26	5.69	2.39	1.84	0.73
202.5	27.72	20.38	16.52	13.40	9.18	6.43	2.57	1.84	0.92
225.0	34.33	24.05	18.91	14.87	11.38	6.79	3.86	2.02	0.92
247.5	34.33	23.69	18.73	14.87	10.65	6.79	3.67	1.84	1.10
270.0	28.28	20.01	16.71	13.04	8.63	5.69	2.75	2.20	1.47
292.5	29.38	21.85	17.63	13.95	9.18	6.24	2.94	2.02	1.29
315.0	34.33	24.60	18.91	14.69	10.83	6.43	3.67	1.84	0.92
337.5	30.29	22.77	18.36	14.32	9.55	6.24	2.94	2.02	0.92
360.0	26.07	19.65	16.52	12.30	8.81	5.32	2.20	1.65	0.73
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	0.37	0.37	0.18	0.18	0.18	0.18	0.37	0.37	0.37
292.5	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.18
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

LSG3-50K

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	0.37	0.37	0.18	0.37	0.37	0.73	0.92	0.92
22.5	0.00	0.18	0.37	0.37	0.55	0.73	0.55	0.73	0.92
45.0	0.00	0.00	0.00	0.37	0.37	0.73	0.73	0.73	0.73
67.5	0.18	0.18	0.37	0.55	0.55	0.73	0.92	0.92	0.73
90.0	0.00	0.37	0.37	0.55	0.37	0.55	0.73	0.73	0.92
112.5	0.00	0.00	0.18	0.37	0.55	0.73	0.73	0.73	0.73
135.0	0.00	0.00	0.00	0.18	0.55	0.37	0.73	0.73	0.73
157.5	0.00	0.00	0.18	0.18	0.37	0.73	0.73	0.73	0.92
180.0	0.00	0.00	0.18	0.37	0.55	0.55	0.55	0.73	0.73
202.5	0.00	0.00	0.00	0.18	0.37	0.55	0.73	0.73	0.73
225.0	0.00	0.00	0.00	0.00	0.37	0.55	0.55	0.73	0.73
247.5	0.00	0.00	0.00	0.18	0.37	0.37	0.55	0.55	0.73
270.0	0.55	0.37	0.73	0.73	0.73	0.92	1.10	1.10	1.29
292.5	0.00	0.18	0.18	0.37	0.55	0.73	0.73	0.92	0.73
315.0	0.18	0.18	0.18	0.37	0.55	0.73	0.55	0.73	0.73
337.5	0.18	0.18	0.37	0.18	0.55	0.55	0.73	0.73	0.73
360.0	0.00	0.37	0.37	0.18	0.37	0.37	0.73	0.92	0.92

C/γ(°)	180.0
0.0	0.86
22.5	0.86
45.0	0.86
67.5	0.86
90.0	0.86
112.5	0.86
135.0	0.86
157.5	0.86
180.0	0.86
202.5	0.86
225.0	0.86
247.5	0.86
270.0	0.86
292.5	0.86
315.0	0.86
337.5	0.86
360.0	0.86