



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:

LumCAT:LL3G-5CCT(4000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.11

LampCAT:

Current(A): 0.0620

Lamp flux(lm): -1.0

Power (W): 7.04

Number of Lamps: 1

PF: 0.9574

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 686.62, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 97.50

Central intensity(cd): 1054.743, Maximum intensity(cd): 1126.558

Angle of maximum intensity: C=270.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=47.5

[C90/270]Total=45.3

Field angle(10%Imax): [C0/180]Total=70.7

[C90/270]Total=69.1

Maximum s/h(1/2): C0_180=0.86 C90_270=0.71

Maximum s/h(1/4): C0_180=0.80 C90_270=0.68

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 : 97.267%

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

Date:
Humidity(%): 58%

Operator: Jasper

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1072.425	0.000	0	0.00%	0.00%
5.0	1055.831	25.443	25.443	0.00%	3.71%
10.0	1001.546	73.599	99.042	0.00%	14.42%
15.0	881.280	111.688	210.729	0.00%	30.69%
20.0	680.387	128.703	339.433	0.00%	49.44%
25.0	450.025	118.559	457.992	0.00%	66.70%
30.0	250.281	88.624	546.616	0.00%	79.61%
35.0	113.420	53.558	600.174	0.00%	87.41%
40.0	50.219	27.302	627.476	0.00%	91.39%
45.0	29.031	14.674	642.15	0.00%	93.52%
50.0	21.264	10.163	652.313	0.00%	95.00%
55.0	17.244	8.373	660.685	0.00%	96.22%
60.0	13.753	7.165	667.85	0.00%	97.27%
65.0	10.473	5.889	673.739	0.00%	98.12%
70.0	7.798	4.626	678.366	0.00%	98.80%
75.0	5.410	3.452	681.818	0.00%	99.30%
80.0	3.264	2.321	684.139	0.00%	99.64%
85.0	1.466	1.285	685.425	0.00%	99.83%
90.0	0.348	0.497	685.921	0.00%	99.90%
95.0	0.015	0.099	686.021	0.00%	99.91%
100.0	0.015	0.008	686.029	0.00%	99.91%
105.0	0.015	0.008	686.037	0.00%	99.92%
110.0	0.015	0.008	686.045	0.00%	99.92%
115.0	0.030	0.011	686.056	0.00%	99.92%
120.0	0.045	0.018	686.075	0.00%	99.92%
125.0	0.030	0.017	686.092	0.00%	99.92%
130.0	0.045	0.016	686.109	0.00%	99.93%
135.0	0.061	0.021	686.13	0.00%	99.93%
140.0	0.091	0.028	686.158	0.00%	99.93%
145.0	0.136	0.038	686.196	0.00%	99.94%
150.0	0.257	0.058	686.254	0.00%	99.95%
155.0	0.302	0.071	686.324	0.00%	99.96%
160.0	0.439	0.078	686.402	0.00%	99.97%
165.0	0.514	0.078	686.481	0.00%	99.98%
170.0	0.635	0.068	686.549	0.00%	99.99%
175.0	0.771	0.050	686.599	0.00%	100.00%
180.0	0.786	0.019	686.618	0.00%	100.00%

Equipment: GMS-3000
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 58%

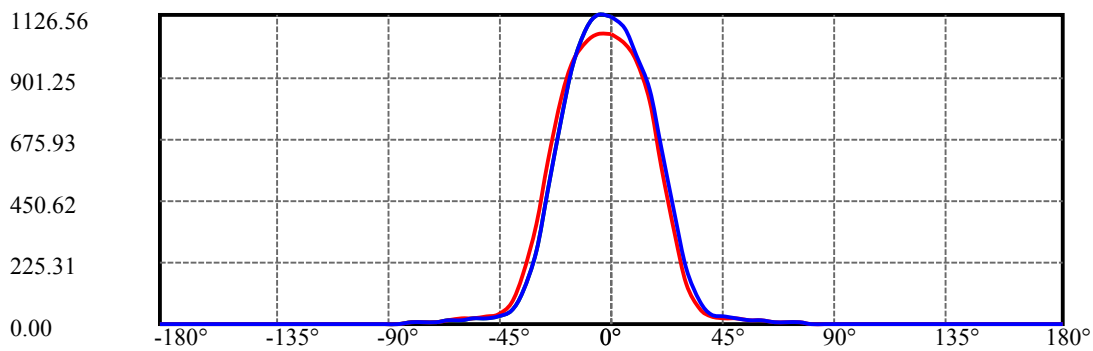
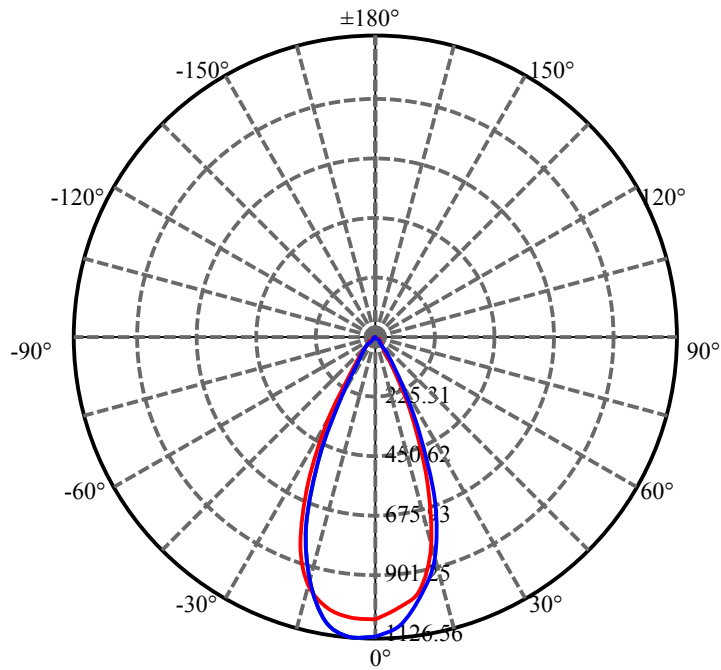
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	546.62	N.A.	79.61%
0-40	627.48	N.A.	91.39%
0-60	667.85	N.A.	97.27%
0-90	685.92	N.A.	99.90%
0-120	686.07	N.A.	99.92%
0-180	686.62	N.A.	100.00%
60-90	18.07	N.A.	2.63%
90-120	0.15	N.A.	0.02%
90-130	0.19	N.A.	0.03%
90-150	0.33	N.A.	0.05%
90-180	0.68	N.A.	0.10%
0-30.25	549.29	N.A.	80.00%

ZONAL LUMEN SUMMARY

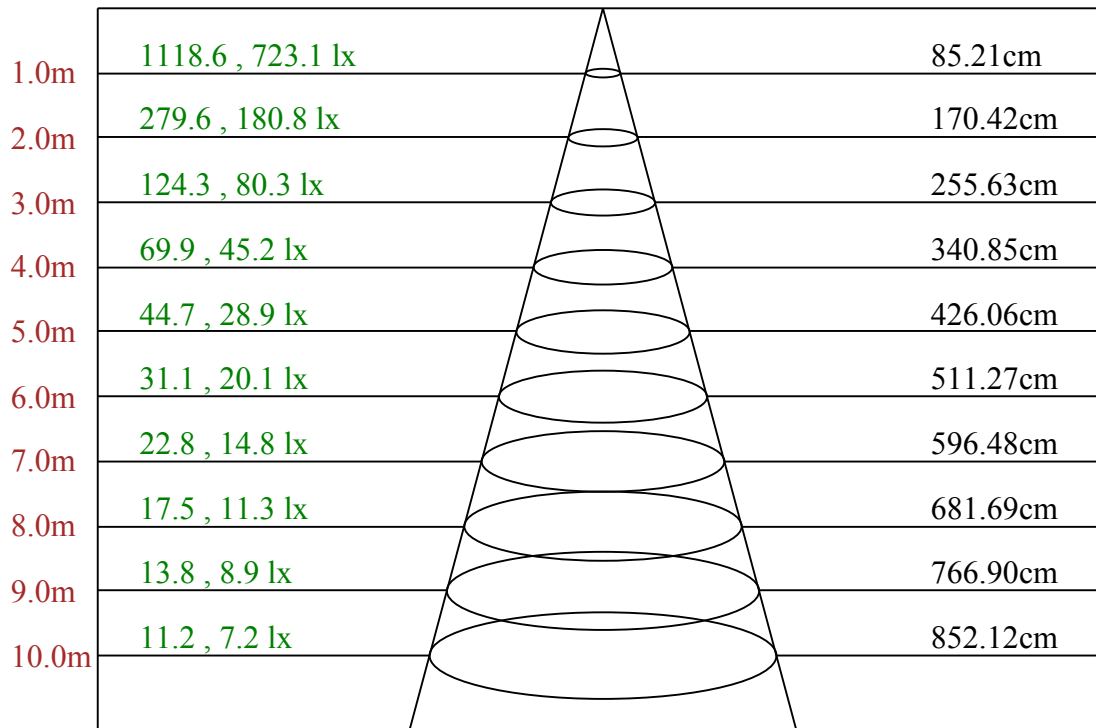
0-10	99.04
10-20	240.39
20-30	207.18
30-40	80.86
40-50	24.84
50-60	15.54
60-70	10.52
70-80	5.77
80-90	1.78
90-100	0.11
100-110	0.02
110-120	0.03
120-130	0.03
130-140	0.05
140-150	0.10
150-160	0.15
160-170	0.15
170-180	0.05



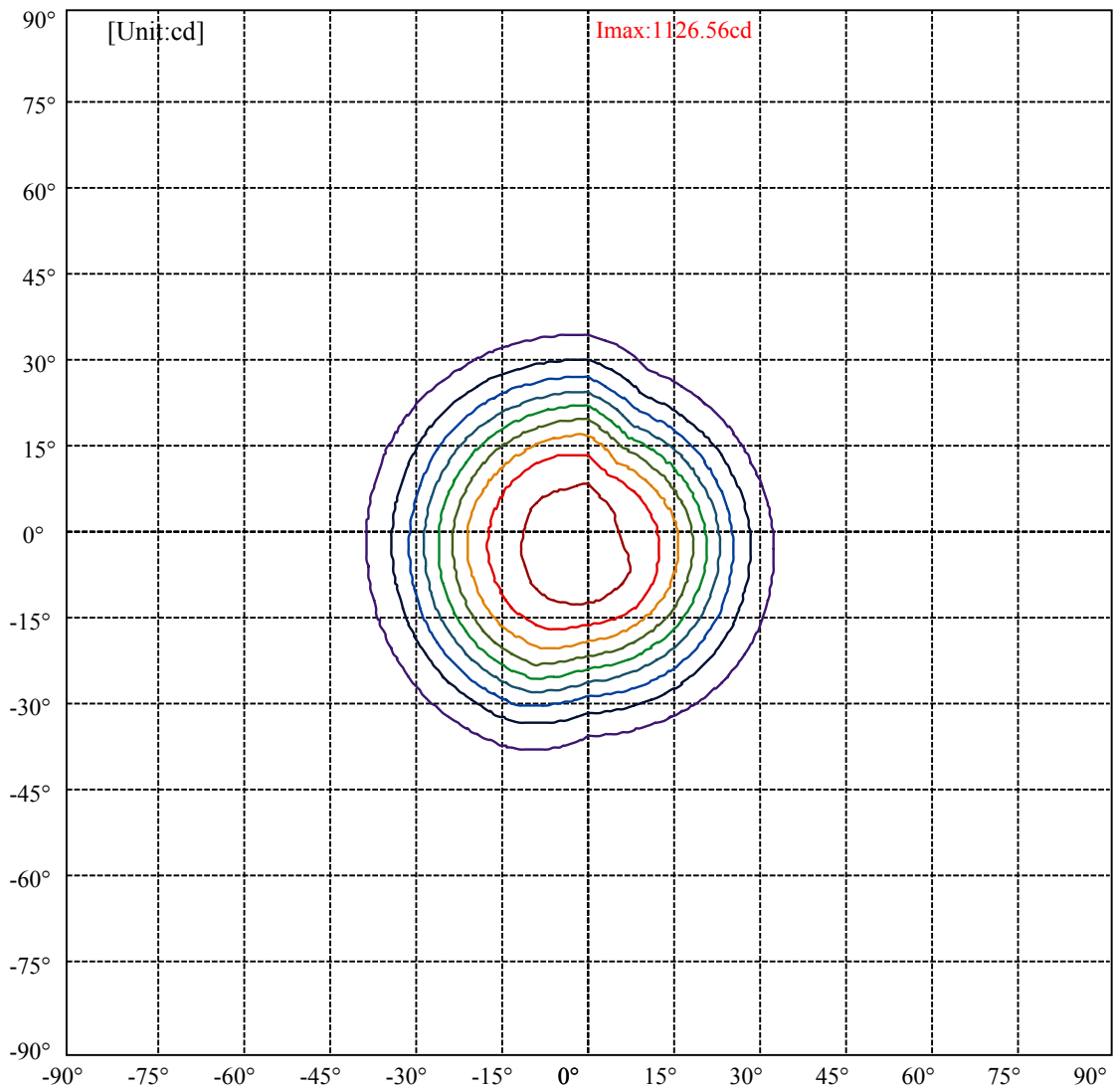
C270(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:38.5 Right:32.2
 :C90/270Left:35.3 Right:33.8

Beam Angle(50%Imax):C0/180Left:26.5 Right:21.0
 :C90/270Left:23.6 Right:21.7



Max , Ave Beam angle of C270 plane 46.15



(10%Imax) 112.656	—
(20%Imax) 225.312	—
(30%Imax) 337.967	—
(40%Imax) 450.623	—
(50%Imax) 563.279	—
(60%Imax) 675.935	—
(70%Imax) 788.591	—
(80%Imax) 901.246	—
(90%Imax) 1013.9	—

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	1054.74	1018.71	960.20	809.80	575.01	326.68	146.29	52.96	28.29
22.5	1048.21	1013.64	939.16	753.70	509.48	272.03	114.86	43.04	25.63
45.0	1059.58	1029.11	918.85	711.14	457.25	236.97	99.14	38.69	25.15
67.5	1083.76	1040.72	914.26	703.16	439.60	230.44	99.14	40.14	25.15
90.0	1118.58	1080.62	978.58	855.01	646.82	398.49	205.05	83.42	37.00
112.5	1091.26	1056.92	989.94	879.44	662.30	427.75	229.71	98.90	43.77
135.0	1068.28	1050.39	1007.59	907.49	706.31	471.03	266.95	117.03	52.71
157.5	1054.98	1049.42	1023.79	936.74	766.03	535.83	316.52	144.11	60.69
180.0	1054.74	1054.26	1030.32	957.78	827.21	598.22	365.36	180.14	74.48
202.5	1048.21	1056.44	1039.27	982.69	847.03	636.67	403.09	199.73	83.42
225.0	1059.58	1058.61	1051.84	995.50	859.12	664.47	420.50	214.72	92.37
247.5	1083.76	1067.07	1054.74	992.60	849.69	659.64	419.77	219.80	95.03
270.0	1118.58	1126.56	1075.78	941.34	745.24	489.65	265.02	117.27	51.26
292.5	1091.26	1099.96	1041.44	929.01	704.13	459.43	247.85	105.43	42.07
315.0	1068.28	1062.72	1016.30	893.70	666.17	417.11	222.22	88.50	35.30
337.5	1054.98	1028.14	982.69	851.39	624.82	376.00	183.05	70.85	31.19
360.0	1054.74	1018.71	960.20	809.80	575.01	326.68	146.29	52.96	28.29
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	21.76	17.89	14.27	11.12	7.74	5.56	3.63	1.69	0.00
22.5	20.55	17.17	13.30	9.91	7.01	5.32	3.39	1.21	0.00
45.0	20.07	16.44	12.82	9.67	7.01	5.08	2.90	1.21	0.00
67.5	20.31	16.68	13.06	9.91	7.50	5.08	3.14	1.21	0.00
90.0	24.91	20.07	15.96	12.82	8.95	6.77	5.08	2.90	0.48
112.5	26.36	21.04	17.65	13.78	10.16	7.74	5.08	3.14	1.45
135.0	28.05	21.76	18.86	14.99	11.12	8.71	5.80	3.63	1.69
157.5	33.61	23.46	19.59	15.96	12.57	9.43	6.29	4.11	2.18
180.0	37.96	24.91	21.04	17.65	13.78	9.91	7.25	4.59	2.66
202.5	39.17	25.87	20.80	16.93	13.78	10.40	7.50	5.08	2.90
225.0	43.77	26.12	21.04	17.17	14.27	10.40	7.98	4.84	2.90
247.5	44.01	26.36	21.04	17.65	14.27	10.64	7.50	5.08	3.39
270.0	30.23	22.49	17.89	14.51	10.64	8.71	6.29	4.59	2.42
292.5	26.60	21.04	16.93	13.54	10.64	7.98	5.80	3.63	1.93
315.0	23.94	19.83	16.44	12.82	9.43	6.77	4.84	3.14	1.21
337.5	23.21	19.10	15.23	11.61	8.71	6.29	4.11	2.18	0.24
360.0	21.76	17.89	14.27	11.12	7.74	5.56	3.63	1.69	0.00
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	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.24	0.24	0.24	0.24	0.24	0.48	0.73	0.48	0.48
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
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

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	0.24	0.00	0.48	0.48	0.48	0.73	0.73	0.73
22.5	0.00	0.00	0.00	0.48	0.48	0.48	0.48	0.48	0.73
45.0	0.00	0.00	0.24	0.24	0.48	0.48	0.48	0.73	0.73
67.5	0.00	0.24	0.24	0.73	0.48	0.48	0.73	0.48	0.73
90.0	0.00	0.00	0.24	0.24	0.24	0.48	0.73	0.73	0.97
112.5	0.00	0.00	0.00	0.00	0.24	0.24	0.48	0.48	0.73
135.0	0.00	0.00	0.00	0.24	0.24	0.48	0.24	0.73	0.73
157.5	0.00	0.00	0.00	0.24	0.00	0.48	0.48	0.24	0.73
180.0	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.73
202.5	0.00	0.00	0.00	0.00	0.00	0.24	0.48	0.48	0.48
225.0	0.00	0.00	0.00	0.00	0.00	0.48	0.24	0.48	0.48
247.5	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.48	0.73
270.0	0.48	0.73	0.73	0.73	0.97	0.97	1.21	1.45	1.45
292.5	0.48	0.24	0.24	0.24	0.73	0.24	0.48	0.73	0.73
315.0	0.00	0.00	0.24	0.24	0.24	0.48	0.48	0.73	0.97
337.5	0.00	0.00	0.24	0.24	0.24	0.48	0.73	0.97	0.73
360.0	0.00	0.24	0.00	0.48	0.48	0.48	0.73	0.73	0.73

C/γ(°)	180.0
0.0	0.97
22.5	0.48
45.0	0.73
67.5	0.73
90.0	1.21
112.5	0.73
135.0	0.73
157.5	0.73
180.0	0.97
202.5	0.48
225.0	0.73
247.5	0.73
270.0	1.21
292.5	0.73
315.0	0.73
337.5	0.73
360.0	0.97