



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

Tel:0755-21038430

Address:1Floor, No.1 Building,Meibaohe Industrial Park,Dalang Street,Longhua District,Shenzhen,Guangdong Prov.518101 China

Client:

LumCAT:LL3G-5CCT(2700K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.0620

Lamp flux(lm): -1.0

Power (W): 7.16

Number of Lamps: 1

PF: 0.9587

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 584.72, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 81.70

Central intensity(cd): 912.406, Maximum intensity(cd): 959.393

Angle of maximum intensity: C=270.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=47.1

[C90/270]Total=45.3

Field angle(10%Imax): [C0/180]Total=70.6

[C90/270]Total=69.1

Maximum s/h(1/2): C0_180=0.85 C90_270=0.73

Maximum s/h(1/4): C0_180=0.79 C90_270=0.69

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

Appendix Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	912.406	0.000	0	0.00%	0.00%
5.0	899.161	21.657	21.657	0.00%	3.70%
10.0	852.931	62.678	84.335	0.00%	14.42%
15.0	750.510	95.115	179.45	0.00%	30.69%
20.0	579.428	109.606	289.055	0.00%	49.43%
25.0	383.248	100.967	390.022	0.00%	66.70%
30.0	213.143	75.474	465.496	0.00%	79.61%
35.0	96.590	45.610	511.106	0.00%	87.41%
40.0	42.768	23.251	534.357	0.00%	91.39%
45.0	24.724	12.497	546.853	0.00%	93.52%
50.0	18.108	8.655	555.508	0.00%	95.00%
55.0	14.685	7.130	562.639	0.00%	96.22%
60.0	11.712	6.102	568.74	0.00%	97.27%
65.0	8.919	5.015	573.755	0.00%	98.12%
70.0	6.641	3.940	577.695	0.00%	98.80%
75.0	4.608	2.940	580.636	0.00%	99.30%
80.0	2.780	1.977	582.612	0.00%	99.64%
85.0	1.248	1.095	583.707	0.00%	99.83%
90.0	0.296	0.423	584.13	0.00%	99.90%
95.0	0.013	0.085	584.214	0.00%	99.91%
100.0	0.013	0.007	584.221	0.00%	99.91%
105.0	0.013	0.007	584.228	0.00%	99.92%
110.0	0.013	0.007	584.235	0.00%	99.92%
115.0	0.026	0.010	584.245	0.00%	99.92%
120.0	0.039	0.016	584.26	0.00%	99.92%
125.0	0.026	0.015	584.275	0.00%	99.92%
130.0	0.039	0.014	584.289	0.00%	99.93%
135.0	0.052	0.018	584.307	0.00%	99.93%
140.0	0.077	0.024	584.331	0.00%	99.93%
145.0	0.116	0.032	584.364	0.00%	99.94%
150.0	0.219	0.049	584.413	0.00%	99.95%
155.0	0.258	0.060	584.473	0.00%	99.96%
160.0	0.373	0.066	584.539	0.00%	99.97%
165.0	0.438	0.067	584.606	0.00%	99.98%
170.0	0.541	0.058	584.664	0.00%	99.99%
175.0	0.657	0.043	584.707	0.00%	100.00%
180.0	0.679	0.016	584.723	0.00%	100.00%

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

Date:
Humidity(%): 58%

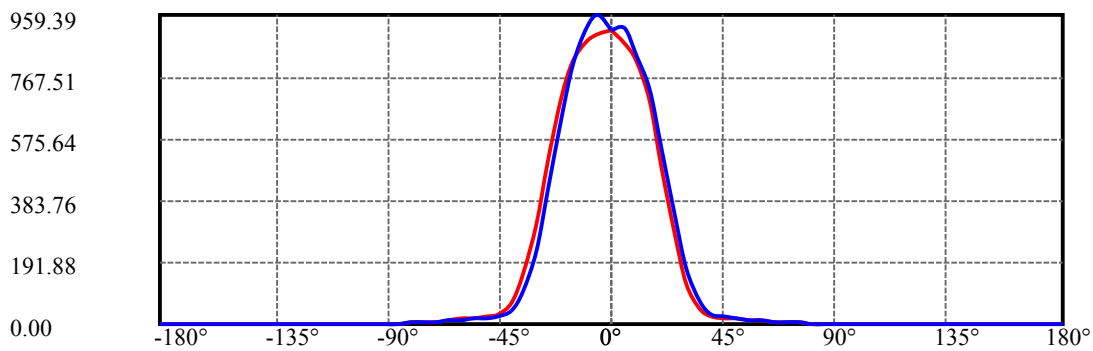
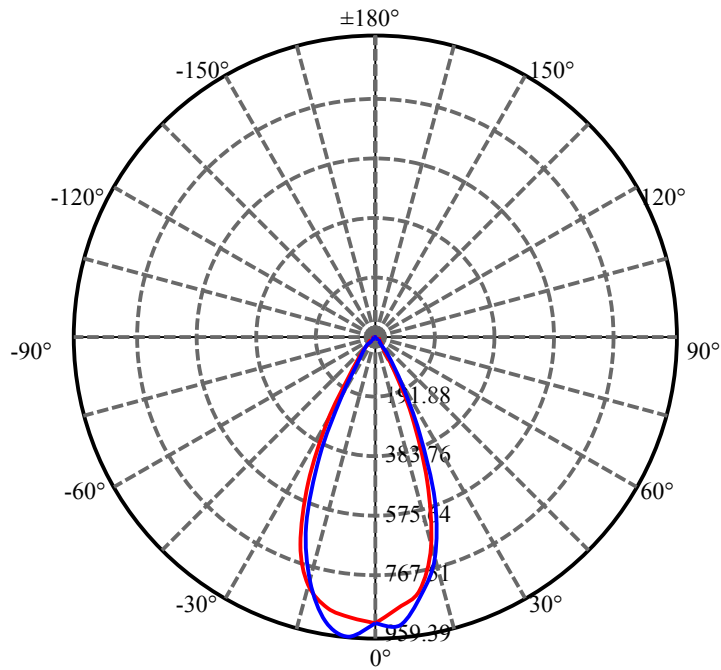
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	465.50	N.A.	79.61%
0-40	534.36	N.A.	91.39%
0-60	568.74	N.A.	97.27%
0-90	584.13	N.A.	99.90%
0-120	584.26	N.A.	99.92%
0-180	584.72	N.A.	100.00%
60-90	15.39	N.A.	2.63%
90-120	0.13	N.A.	0.02%
90-130	0.16	N.A.	0.03%
90-150	0.28	N.A.	0.05%
90-180	0.58	N.A.	0.10%
0-30.25	467.78	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	84.33
10-20	204.72
20-30	176.44
30-40	68.86
40-50	21.15
50-60	13.23
60-70	8.96
70-80	4.92
80-90	1.52
90-100	0.09
100-110	0.01
110-120	0.03
120-130	0.03
130-140	0.04
140-150	0.08
150-160	0.13
160-170	0.12
170-180	0.04

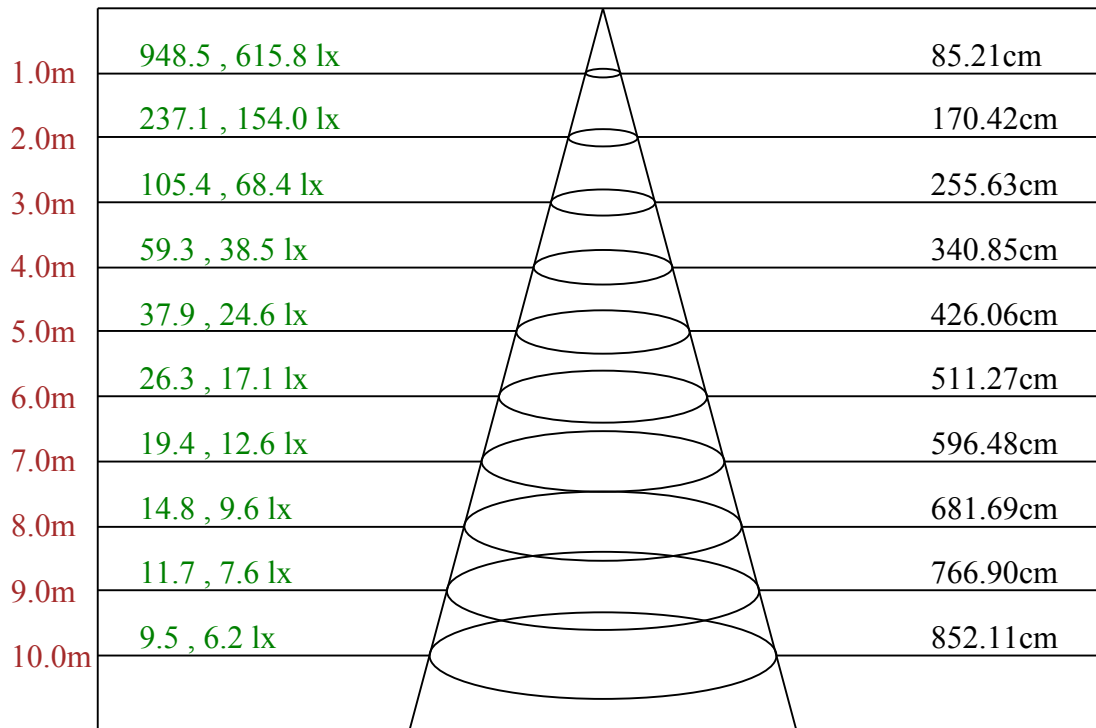


C0/C180: —

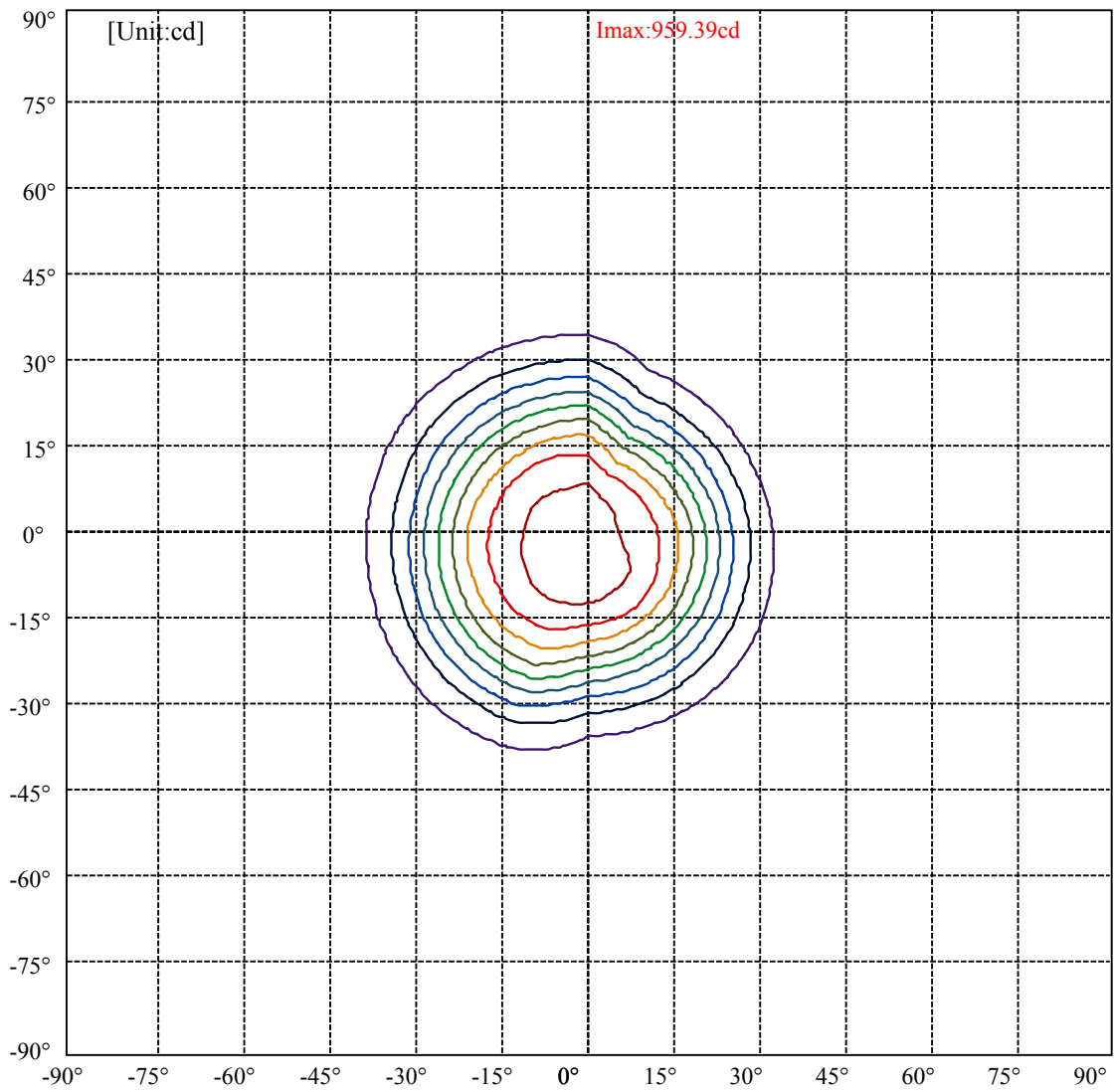
C90/C270: —

Field angle(10%Imax):C0/180Left:38.5 Right:32.1
 :C90/270Left:35.3 Right:33.8

Beam Angle(50%Imax):C0/180Left:26.3 Right:20.8
 :C90/270Left:23.6 Right:21.7



Max , Ave Beam angle of C270 plane 46.15



(10%Imax) 95.9393	—
(20%Imax) 191.879	—
(30%Imax) 287.818	—
(40%Imax) 383.757	—
(50%Imax) 479.697	—
(60%Imax) 575.636	—
(70%Imax) 671.575	—
(80%Imax) 767.514	—
(90%Imax) 863.454	—

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	912.41	867.55	817.72	689.64	489.68	278.20	124.58	45.10	24.09
22.5	912.41	863.23	799.80	641.86	433.88	231.66	97.81	36.65	21.83
45.0	912.41	876.41	782.51	605.62	389.40	201.80	84.43	32.95	21.42
67.5	912.41	886.29	778.59	598.82	374.37	196.24	84.43	34.18	21.42
90.0	912.41	920.27	833.37	728.14	550.84	339.36	174.62	71.04	31.51
112.5	912.41	900.09	843.05	748.94	564.02	364.28	195.63	84.22	37.27
135.0	912.41	894.53	858.08	772.83	601.50	401.14	227.34	99.67	44.89
157.5	912.41	893.70	871.88	797.74	652.36	456.32	269.55	122.73	51.69
180.0	912.41	897.82	877.44	815.66	704.46	509.45	311.15	153.41	63.42
202.5	912.41	899.68	885.06	836.87	721.35	542.19	343.27	170.09	71.04
225.0	912.41	901.53	895.76	847.78	731.64	565.88	358.10	182.86	78.66
247.5	912.41	908.74	898.23	845.31	723.61	561.76	357.48	187.18	80.93
270.0	912.41	959.39	916.15	801.66	634.65	416.99	225.69	99.87	43.66
292.5	912.41	936.74	886.91	791.15	599.65	391.25	211.07	89.78	35.83
315.0	912.41	905.03	865.49	761.09	567.32	355.22	189.24	75.37	30.07
337.5	912.41	875.58	836.87	725.05	532.10	320.21	155.88	60.34	26.56
360.0	912.41	867.55	817.72	689.64	489.68	278.20	124.58	45.10	24.09
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.53	15.24	12.15	9.47	6.59	4.74	3.09	1.44	0.00
22.5	17.50	14.62	11.33	8.44	5.97	4.53	2.88	1.03	0.00
45.0	17.09	14.00	10.91	8.24	5.97	4.32	2.47	1.03	0.00
67.5	17.30	14.21	11.12	8.44	6.38	4.32	2.68	1.03	0.00
90.0	21.21	17.09	13.59	10.91	7.62	5.77	4.32	2.47	0.41
112.5	22.45	17.92	15.03	11.74	8.65	6.59	4.32	2.68	1.24
135.0	23.89	18.53	16.06	12.77	9.47	7.41	4.94	3.09	1.44
157.5	28.62	19.97	16.68	13.59	10.71	8.03	5.35	3.50	1.85
180.0	32.33	21.21	17.92	15.03	11.74	8.44	6.18	3.91	2.27
202.5	33.36	22.03	17.71	14.42	11.74	8.86	6.38	4.32	2.47
225.0	37.27	22.24	17.92	14.62	12.15	8.86	6.80	4.12	2.47
247.5	37.48	22.45	17.92	15.03	12.15	9.06	6.38	4.32	2.88
270.0	25.74	19.15	15.24	12.36	9.06	7.41	5.35	3.91	2.06
292.5	22.65	17.92	14.42	11.53	9.06	6.80	4.94	3.09	1.65
315.0	20.39	16.89	14.00	10.91	8.03	5.77	4.12	2.68	1.03
337.5	19.77	16.27	12.97	9.88	7.41	5.35	3.50	1.85	0.21
360.0	18.53	15.24	12.15	9.47	6.59	4.74	3.09	1.44	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	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.21	0.21	0.21	0.21	0.21	0.41	0.62	0.41	0.41
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
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)

Appendix Page: 8 Total:8

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.21	0.00	0.41	0.41	0.41	0.62	0.62	0.62
22.5	0.00	0.00	0.00	0.41	0.41	0.41	0.41	0.41	0.62
45.0	0.00	0.00	0.21	0.21	0.41	0.41	0.41	0.62	0.62
67.5	0.00	0.21	0.21	0.62	0.41	0.41	0.62	0.41	0.62
90.0	0.00	0.00	0.21	0.21	0.21	0.41	0.62	0.62	0.82
112.5	0.00	0.00	0.00	0.00	0.21	0.21	0.41	0.41	0.62
135.0	0.00	0.00	0.00	0.21	0.21	0.41	0.21	0.62	0.62
157.5	0.00	0.00	0.00	0.21	0.00	0.41	0.41	0.21	0.62
180.0	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.62
202.5	0.00	0.00	0.00	0.00	0.00	0.21	0.41	0.41	0.41
225.0	0.00	0.00	0.00	0.00	0.00	0.41	0.21	0.41	0.41
247.5	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.41	0.62
270.0	0.41	0.62	0.62	0.62	0.82	0.82	1.03	1.24	1.24
292.5	0.41	0.21	0.21	0.21	0.62	0.21	0.41	0.62	0.62
315.0	0.00	0.00	0.21	0.21	0.21	0.41	0.41	0.62	0.82
337.5	0.00	0.00	0.21	0.21	0.21	0.41	0.62	0.82	0.62
360.0	0.00	0.21	0.00	0.41	0.41	0.41	0.62	0.62	0.62

C/γ(°)	180.0
0.0	0.68
22.5	0.68
45.0	0.68
67.5	0.68
90.0	0.68
112.5	0.68
135.0	0.68
157.5	0.68
180.0	0.68
202.5	0.68
225.0	0.68
247.5	0.68
270.0	0.68
292.5	0.68
315.0	0.68
337.5	0.68
360.0	0.68