



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(3000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.03

LampCAT:

Current(A): 0.0620

Lamp flux(lm): -1.0

Power (W): 7.12

Number of Lamps: 1

PF: 0.9587

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 619.46, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 87.06

Central intensity(cd): 951.583, Maximum intensity(cd): 1016.374

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	967.535	0.000	0	0.00%	0.00%
5.0	952.565	22.954	22.954	0.00%	3.71%
10.0	903.589	66.400	89.355	0.00%	14.42%
15.0	795.086	100.764	190.119	0.00%	30.69%
20.0	613.841	116.115	306.234	0.00%	49.44%
25.0	406.010	106.964	413.198	0.00%	66.70%
30.0	225.802	79.956	493.154	0.00%	79.61%
35.0	102.327	48.319	541.474	0.00%	87.41%
40.0	45.308	24.632	566.105	0.00%	91.39%
45.0	26.192	13.239	579.344	0.00%	93.52%
50.0	19.184	9.169	588.513	0.00%	95.00%
55.0	15.557	7.554	596.067	0.00%	96.22%
60.0	12.407	6.464	602.531	0.00%	97.27%
65.0	9.449	5.313	607.844	0.00%	98.12%
70.0	7.036	4.174	612.018	0.00%	98.80%
75.0	4.881	3.115	615.133	0.00%	99.30%
80.0	2.945	2.094	617.227	0.00%	99.64%
85.0	1.323	1.160	618.386	0.00%	99.83%
90.0	0.314	0.448	618.834	0.00%	99.90%
95.0	0.014	0.090	618.924	0.00%	99.91%
100.0	0.014	0.007	618.931	0.00%	99.91%
105.0	0.014	0.007	618.939	0.00%	99.92%
110.0	0.014	0.007	618.946	0.00%	99.92%
115.0	0.027	0.010	618.956	0.00%	99.92%
120.0	0.041	0.017	618.973	0.00%	99.92%
125.0	0.027	0.016	618.989	0.00%	99.92%
130.0	0.041	0.015	619.003	0.00%	99.93%
135.0	0.055	0.019	619.023	0.00%	99.93%
140.0	0.082	0.025	619.048	0.00%	99.93%
145.0	0.123	0.034	619.082	0.00%	99.94%
150.0	0.232	0.052	619.134	0.00%	99.95%
155.0	0.273	0.064	619.198	0.00%	99.96%
160.0	0.395	0.070	619.268	0.00%	99.97%
165.0	0.463	0.071	619.339	0.00%	99.98%
170.0	0.572	0.061	619.4	0.00%	99.99%
175.0	0.695	0.045	619.445	0.00%	100.00%
180.0	0.709	0.017	619.462	0.00%	100.00%

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

Date:
Humidity(%): 58%

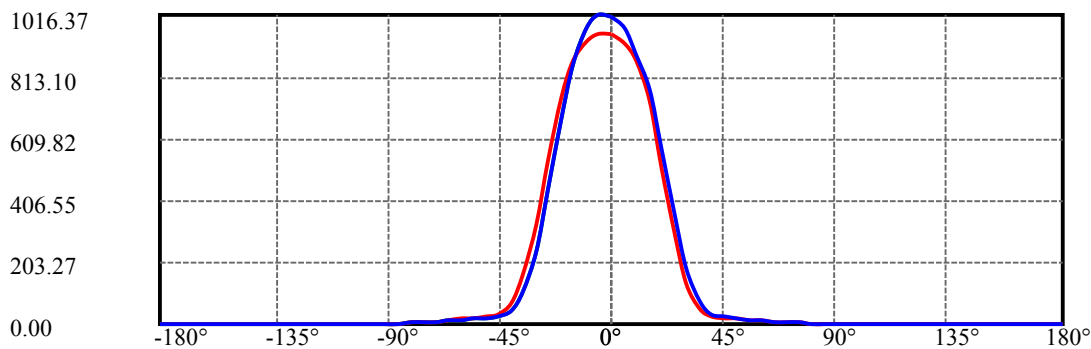
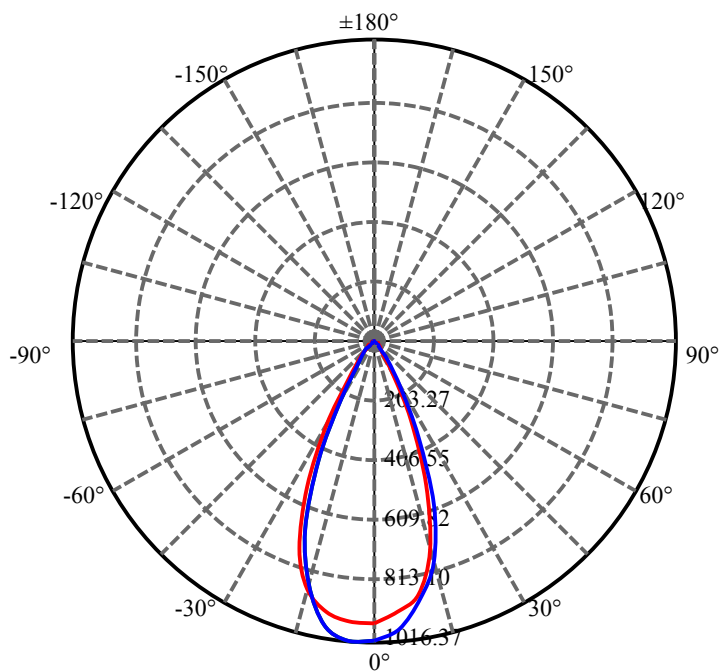
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	493.15	N.A.	79.61%
0-40	566.11	N.A.	91.39%
0-60	602.53	N.A.	97.27%
0-90	618.83	N.A.	99.90%
0-120	618.97	N.A.	99.92%
0-180	619.46	N.A.	100.00%
60-90	16.30	N.A.	2.63%
90-120	0.14	N.A.	0.02%
90-130	0.17	N.A.	0.03%
90-150	0.30	N.A.	0.05%
90-180	0.61	N.A.	0.10%
0-30.25	495.57	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	89.35
10-20	216.88
20-30	186.92
30-40	72.95
40-50	22.41
50-60	14.02
60-70	9.49
70-80	5.21
80-90	1.61
90-100	0.10
100-110	0.01
110-120	0.03
120-130	0.03
130-140	0.04
140-150	0.09
150-160	0.13
160-170	0.13
170-180	0.05



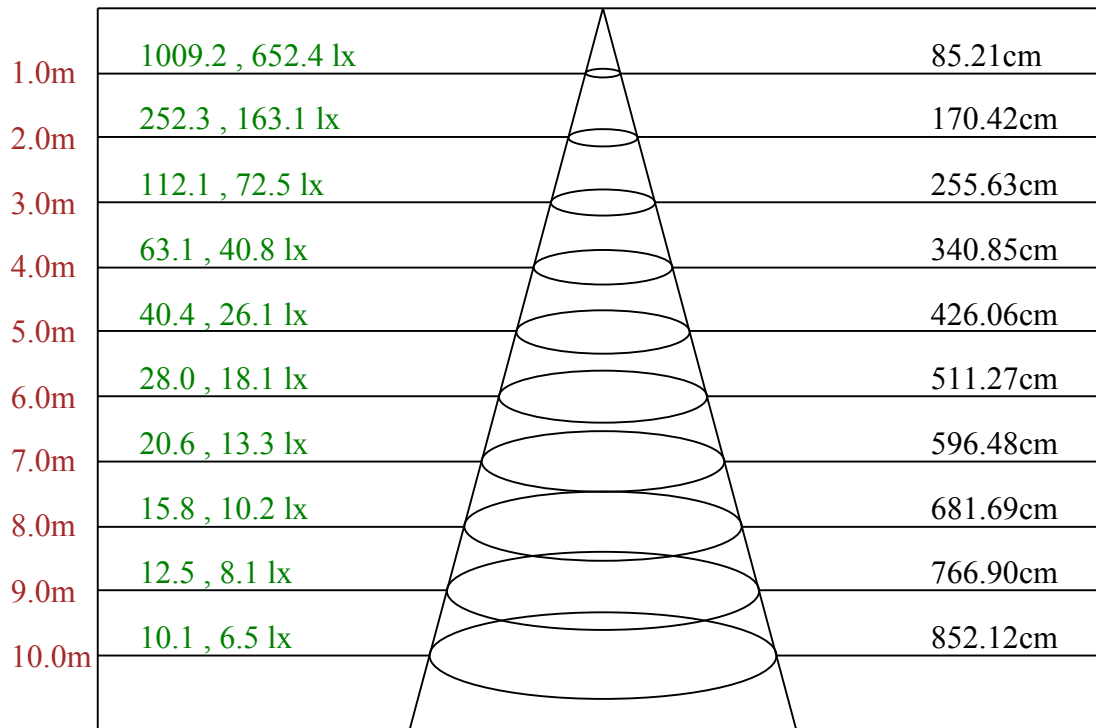
C270(Max): ———

C0/C180: ———

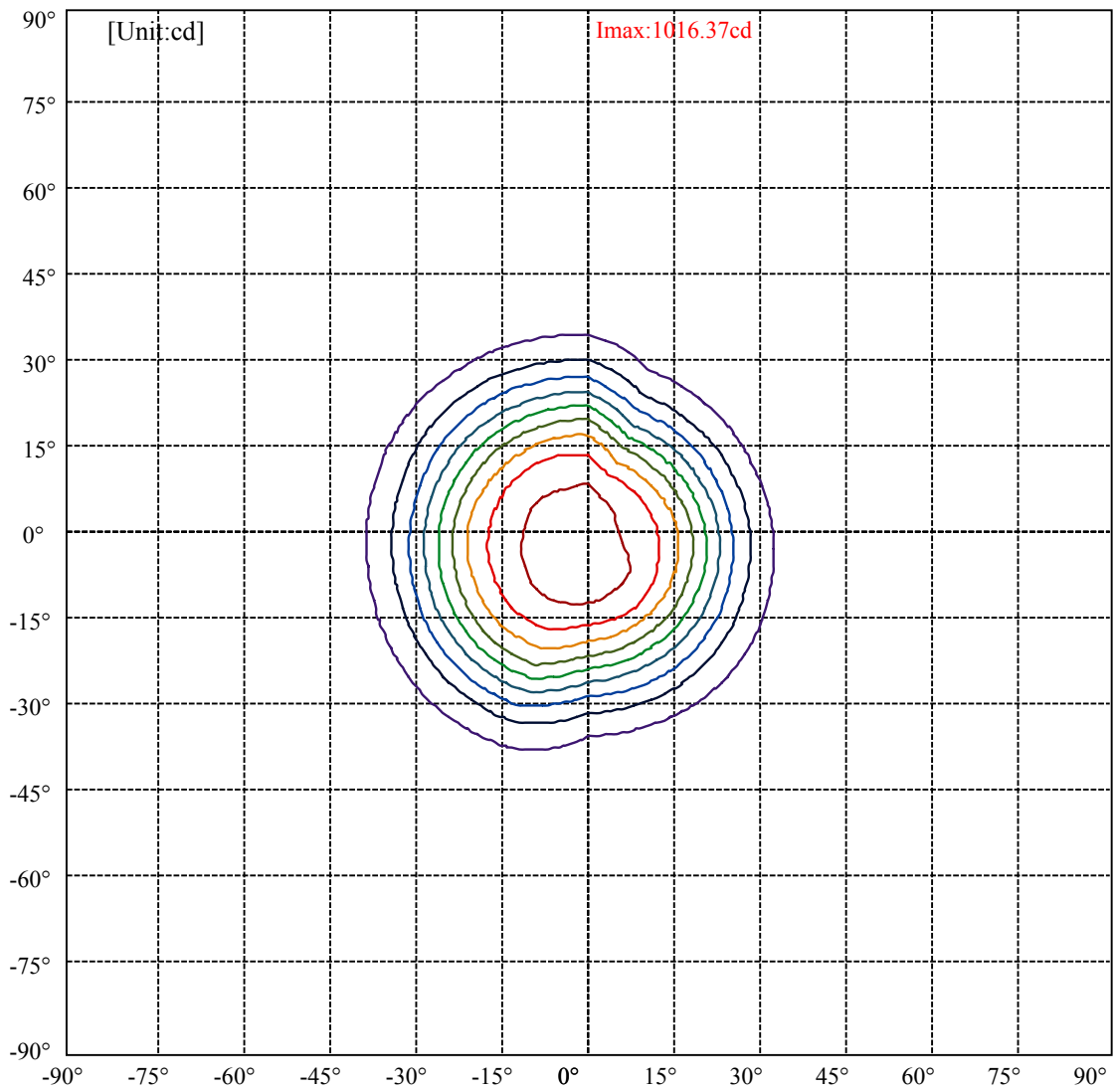
C90/C270: ———

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) 101.637	—
(20%Imax) 203.275	—
(30%Imax) 304.912	—
(40%Imax) 406.55	—
(50%Imax) 508.187	—
(60%Imax) 609.824	—
(70%Imax) 711.462	—
(80%Imax) 813.099	—
(90%Imax) 914.737	—

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	951.58	919.08	866.29	730.59	518.77	294.73	131.98	47.78	25.52
22.5	945.69	914.50	847.31	679.98	459.65	245.42	103.62	38.83	23.12
45.0	955.95	928.46	828.98	641.59	412.53	213.79	89.44	34.90	22.69
67.5	977.76	938.93	824.84	634.39	396.60	207.90	89.44	36.21	22.69
90.0	1009.18	974.93	882.87	771.39	583.56	359.52	184.99	75.26	33.38
112.5	984.52	953.55	893.12	793.42	597.52	385.91	207.25	89.23	39.49
135.0	963.80	947.66	909.04	818.73	637.23	424.96	240.84	105.59	47.56
157.5	951.80	946.78	923.66	845.12	691.11	483.43	285.56	130.02	54.76
180.0	951.58	951.15	929.55	864.10	746.30	539.71	329.63	162.52	67.19
202.5	945.69	953.11	937.62	886.57	764.19	574.40	363.66	180.19	75.26
225.0	955.95	955.07	948.97	898.14	775.10	599.48	379.37	193.72	83.33
247.5	977.76	962.71	951.58	895.52	766.59	595.12	378.71	198.30	85.73
270.0	1009.18	1016.37	970.56	849.27	672.35	441.76	239.10	105.80	46.25
292.5	984.52	992.38	939.59	838.14	635.26	414.49	223.61	95.12	37.96
315.0	963.80	958.78	916.90	806.29	601.01	376.31	200.48	79.84	31.85
337.5	951.80	927.59	886.57	768.12	563.71	339.23	165.14	63.92	28.14
360.0	951.58	919.08	866.29	730.59	518.77	294.73	131.98	47.78	25.52
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	19.63	16.14	12.87	10.04	6.98	5.02	3.27	1.53	0.00
22.5	18.54	15.49	12.00	8.94	6.33	4.80	3.05	1.09	0.00
45.0	18.11	14.83	11.56	8.73	6.33	4.58	2.62	1.09	0.00
67.5	18.33	15.05	11.78	8.94	6.76	4.58	2.84	1.09	0.00
90.0	22.47	18.11	14.40	11.56	8.07	6.11	4.58	2.62	0.44
112.5	23.78	18.98	15.93	12.44	9.16	6.98	4.58	2.84	1.31
135.0	25.31	19.63	17.02	13.53	10.04	7.85	5.24	3.27	1.53
157.5	30.32	21.16	17.67	14.40	11.34	8.51	5.67	3.71	1.96
180.0	34.25	22.47	18.98	15.93	12.44	8.94	6.55	4.15	2.40
202.5	35.34	23.34	18.76	15.27	12.44	9.38	6.76	4.58	2.62
225.0	39.49	23.56	18.98	15.49	12.87	9.38	7.20	4.36	2.62
247.5	39.70	23.78	18.98	15.93	12.87	9.60	6.76	4.58	3.05
270.0	27.27	20.29	16.14	13.09	9.60	7.85	5.67	4.15	2.18
292.5	24.00	18.98	15.27	12.22	9.60	7.20	5.24	3.27	1.75
315.0	21.60	17.89	14.83	11.56	8.51	6.11	4.36	2.84	1.09
337.5	20.94	17.23	13.74	10.47	7.85	5.67	3.71	1.96	0.22
360.0	19.63	16.14	12.87	10.04	6.98	5.02	3.27	1.53	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	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.22	0.22	0.22	0.22	0.22	0.44	0.65	0.44	0.44
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
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	0.22	0.00	0.44	0.44	0.44	0.65	0.65	0.65
22.5	0.00	0.00	0.00	0.44	0.44	0.44	0.44	0.44	0.65
45.0	0.00	0.00	0.22	0.22	0.44	0.44	0.44	0.65	0.65
67.5	0.00	0.22	0.22	0.65	0.44	0.44	0.65	0.44	0.65
90.0	0.00	0.00	0.22	0.22	0.22	0.44	0.65	0.65	0.87
112.5	0.00	0.00	0.00	0.00	0.22	0.22	0.44	0.44	0.65
135.0	0.00	0.00	0.00	0.22	0.22	0.44	0.22	0.65	0.65
157.5	0.00	0.00	0.00	0.22	0.00	0.44	0.44	0.22	0.65
180.0	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.65
202.5	0.00	0.00	0.00	0.00	0.00	0.22	0.44	0.44	0.44
225.0	0.00	0.00	0.00	0.00	0.00	0.44	0.22	0.44	0.44
247.5	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.44	0.65
270.0	0.44	0.65	0.65	0.65	0.87	0.87	1.09	1.31	1.31
292.5	0.44	0.22	0.22	0.22	0.65	0.22	0.44	0.65	0.65
315.0	0.00	0.00	0.22	0.22	0.22	0.44	0.44	0.65	0.87
337.5	0.00	0.00	0.22	0.22	0.22	0.44	0.65	0.87	0.65
360.0	0.00	0.22	0.00	0.44	0.44	0.44	0.65	0.65	0.65

C/γ(°)	180.0
0.0	0.87
22.5	0.44
45.0	0.65
67.5	0.65
90.0	1.09
112.5	0.65
135.0	0.65
157.5	0.65
180.0	0.87
202.5	0.44
225.0	0.65
247.5	0.65
270.0	1.09
292.5	0.65
315.0	0.65
337.5	0.65
360.0	0.87