



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

LumCAT: LL3G-HO-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.13

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.85

Number of Lamps: 0

PF: 0.9783

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1091.39, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 100.55

Central intensity(cd): 1702.300, Maximum intensity(cd): 1711.827

Angle of maximum intensity: C=90.0 $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=44.5

[C90/270]Total=44.6

Field angle(10%Imax): [C0/180]Total=71.7

[C90/270]Total=72.7

Maximum s/h(1/2): C0_180=0.72 C90_270=0.80

Maximum s/h(1/4): C0_180=0.70 C90_270=0.76

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.372%

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

Date:
Humidity(%): 59%

Operator: Tester

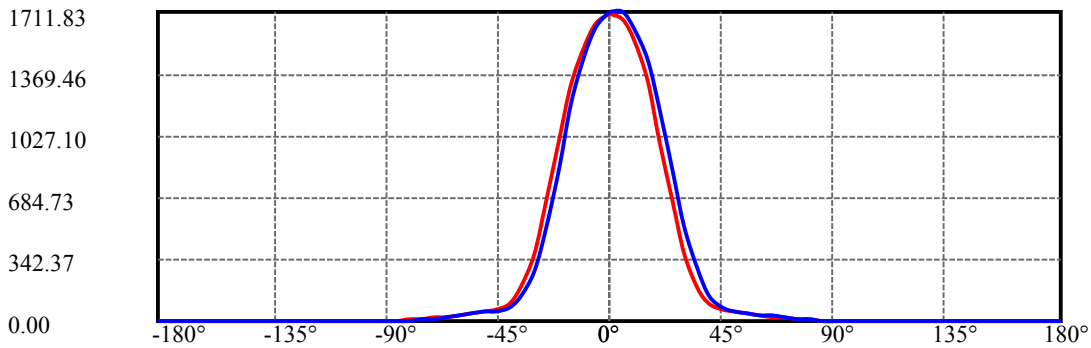
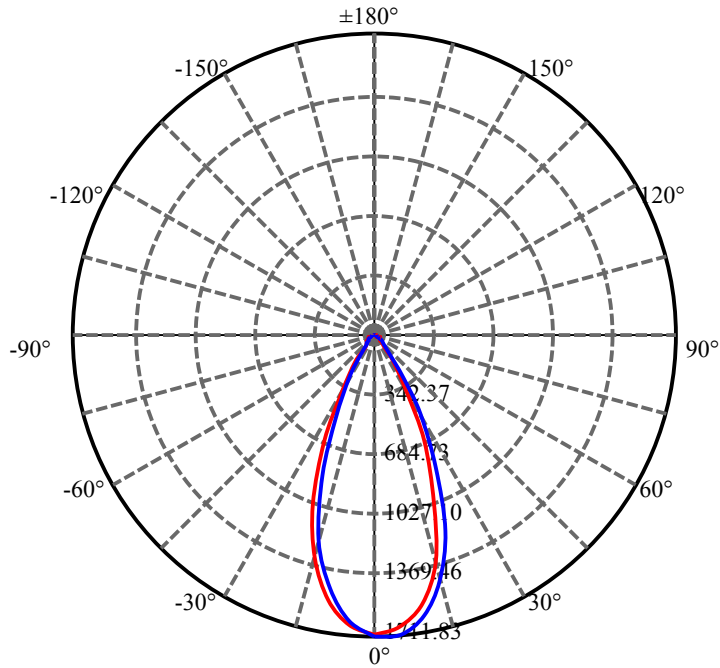
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1703.041	0.000	0	0.00%	0.00%
5.0	1659.933	40.203	40.203	0.00%	3.68%
10.0	1536.828	114.358	154.562	0.00%	14.16%
15.0	1325.311	169.780	324.342	0.00%	29.72%
20.0	1017.971	193.119	517.461	0.00%	47.41%
25.0	670.647	177.105	694.566	0.00%	63.64%
30.0	385.113	133.607	828.173	0.00%	75.88%
35.0	194.369	85.333	913.506	0.00%	83.70%
40.0	97.251	48.655	962.161	0.00%	88.16%
45.0	63.034	29.678	991.839	0.00%	90.88%
50.0	50.385	22.918	1014.757	0.00%	92.98%
55.0	41.335	19.943	1034.7	0.00%	94.81%
60.0	32.602	17.090	1051.79	0.00%	96.37%
65.0	24.478	13.876	1065.667	0.00%	97.64%
70.0	17.174	10.547	1076.213	0.00%	98.61%
75.0	10.982	7.360	1083.573	0.00%	99.28%
80.0	5.795	4.489	1088.062	0.00%	99.70%
85.0	1.773	2.056	1090.119	0.00%	99.88%
90.0	0.053	0.500	1090.619	0.00%	99.93%
95.0	0.000	0.014	1090.633	0.00%	99.93%
100.0	0.000	0.000	1090.633	0.00%	99.93%
105.0	0.000	0.000	1090.633	0.00%	99.93%
110.0	0.000	0.000	1090.633	0.00%	99.93%
115.0	0.000	0.000	1090.633	0.00%	99.93%
120.0	0.000	0.000	1090.633	0.00%	99.93%
125.0	0.000	0.000	1090.633	0.00%	99.93%
130.0	0.000	0.000	1090.633	0.00%	99.93%
135.0	0.000	0.000	1090.633	0.00%	99.93%
140.0	0.053	0.010	1090.643	0.00%	99.93%
145.0	0.159	0.035	1090.678	0.00%	99.93%
150.0	0.371	0.078	1090.756	0.00%	99.94%
155.0	0.582	0.121	1090.877	0.00%	99.95%
160.0	0.794	0.144	1091.021	0.00%	99.97%
165.0	0.979	0.146	1091.167	0.00%	99.98%
170.0	1.032	0.119	1091.287	0.00%	99.99%
175.0	1.085	0.076	1091.362	0.00%	100.00%
180.0	1.270	0.028	1091.39	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	828.17	N.A.	75.88%
0-40	962.16	N.A.	88.16%
0-60	1051.79	N.A.	96.37%
0-90	1090.62	N.A.	99.93%
0-120	1090.63	N.A.	99.93%
0-180	1091.39	N.A.	100.00%
60-90	38.83	N.A.	3.56%
90-120	0.01	N.A.	0.00%
90-130	0.01	N.A.	0.00%
90-150	0.14	N.A.	0.01%
90-180	0.74	N.A.	0.07%
0-32.63	873.11	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	154.56
10-20	362.90
20-30	310.71
30-40	133.99
40-50	52.60
50-60	37.03
60-70	24.42
70-80	11.85
80-90	2.56
90-100	0.01
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.01
140-150	0.11
150-160	0.26
160-170	0.27
170-180	0.08

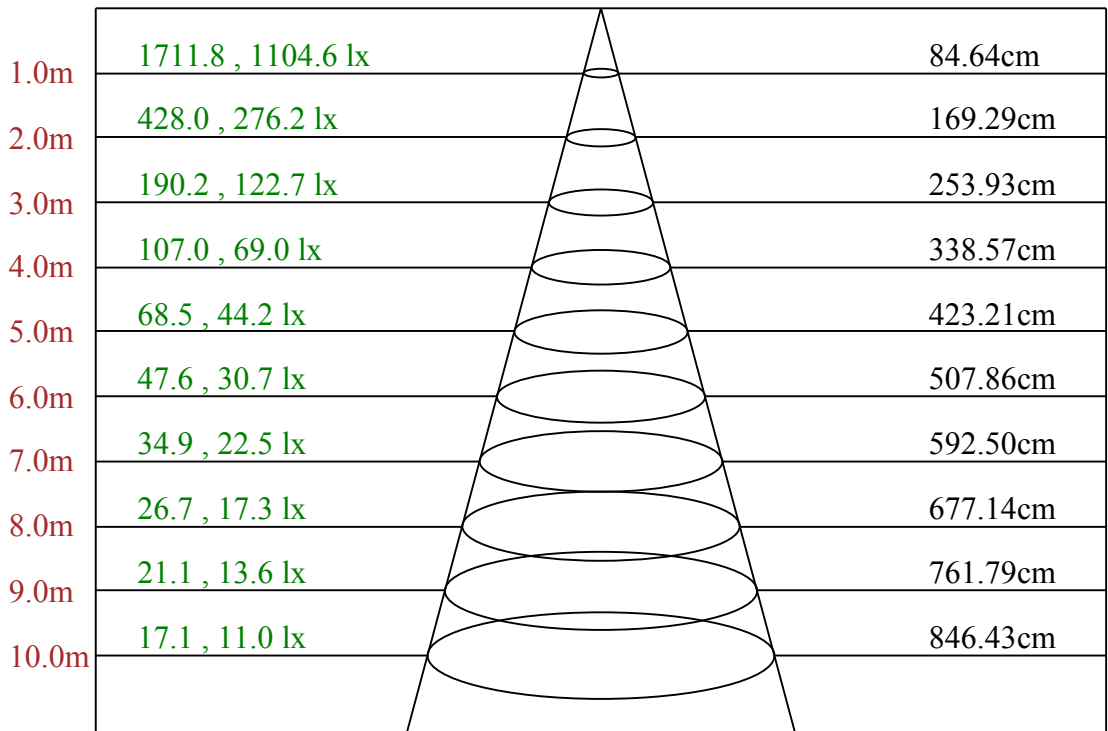


C0/C180: —

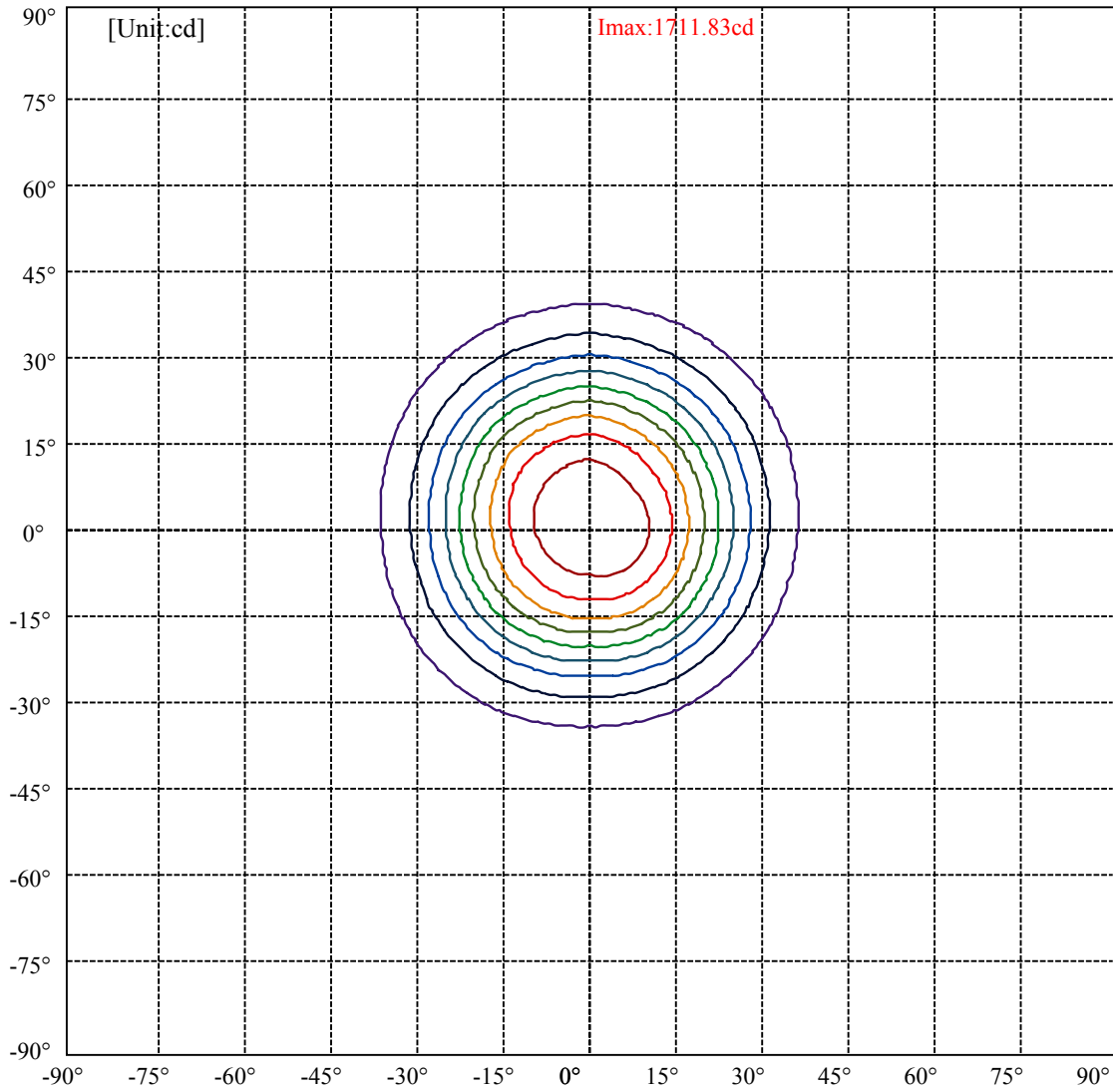
C90/C270: —

Field angle(10%Imax):C0/180Left:35.9 Right:35.8
 :C90/270Left:33.7 Right:39.0

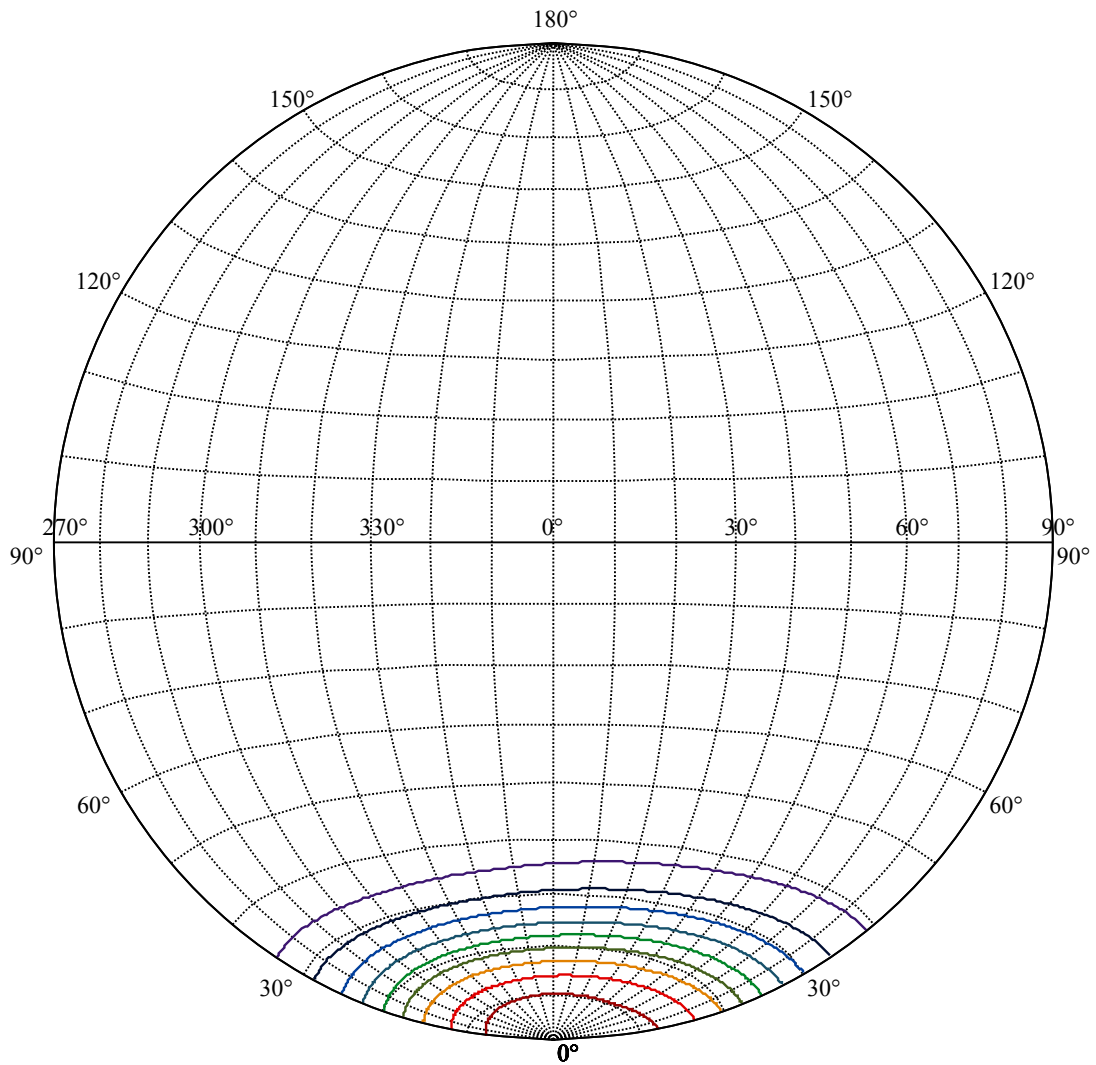
Beam Angle(50%Imax):C0/180Left:22.3 Right:22.2
 :C90/270Left:19.9 Right:24.7



Max , Ave Beam angle of C90 plane 45.88



(10%I _{max})	171.183	—
(20%I _{max})	342.365	—
(30%I _{max})	513.548	—
(40%I _{max})	684.731	—
(50%I _{max})	855.914	—
(60%I _{max})	1027.1	—
(70%I _{max})	1198.28	—
(80%I _{max})	1369.46	—
(90%I _{max})	1540.64	—



House

[Unit:cd]

Road

Imax:1711.83

(10%Imax) 171.183	—
(20%Imax) 342.365	—
(30%Imax) 513.548	—
(40%Imax) 684.731	—
(50%Imax) 855.914	—
(60%Imax) 1027.1	—
(70%Imax) 1198.28	—
(80%Imax) 1369.46	—
(90%Imax) 1540.64	—

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	1702.30	1666.10	1555.38	1327.38	1003.89	660.09	372.39	185.66	91.46
45.0	1689.17	1662.50	1553.69	1366.12	1088.15	745.83	446.06	227.37	108.82
90.0	1711.83	1708.65	1613.81	1449.74	1181.30	834.32	519.73	286.22	140.99
135.0	1708.86	1677.53	1576.76	1415.66	1141.08	793.04	465.32	236.68	111.57
180.0	1702.30	1648.95	1525.32	1307.48	1015.33	657.97	371.54	186.93	92.73
225.0	1689.17	1632.23	1481.49	1249.05	926.20	580.91	323.06	158.35	84.47
270.0	1711.83	1626.30	1466.25	1206.28	849.35	514.86	280.29	134.01	73.04
315.0	1708.86	1657.21	1521.93	1280.80	938.48	578.16	302.52	139.72	74.94
360.0	1702.30	1666.10	1555.38	1327.38	1003.89	660.09	372.39	185.66	91.46
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	59.91	49.33	40.44	31.76	23.92	16.72	10.80	5.50	1.48
45.0	64.99	51.44	42.98	34.72	26.46	18.42	11.86	6.56	2.54
90.0	74.52	54.20	44.46	36.41	28.37	20.54	14.18	8.26	3.39
135.0	66.69	52.08	42.55	34.51	26.46	19.05	12.70	7.41	2.96
180.0	62.03	49.96	41.49	32.60	24.98	17.78	11.64	6.14	1.27
225.0	61.82	49.96	40.86	31.76	23.50	16.51	10.16	5.08	1.06
270.0	57.37	48.48	38.95	29.43	20.75	13.97	7.83	3.39	0.64
315.0	56.95	47.63	38.95	29.64	21.38	14.40	8.68	4.02	0.85
360.0	59.91	49.33	40.44	31.76	23.92	16.72	10.80	5.50	1.48
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
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.42	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
180.0	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
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	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
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.64	0.42	0.64	1.06	1.06	0.85
45.0	0.00	0.00	0.21	0.21	0.64	0.85	0.85	0.85	1.27
90.0	0.00	0.00	0.00	0.21	0.42	0.64	0.64	1.06	1.06
135.0	0.00	0.00	0.00	0.21	0.42	0.64	1.06	0.85	1.06
180.0	0.00	0.00	0.00	0.21	0.64	0.64	0.85	1.06	0.85
225.0	0.00	0.00	0.00	0.21	0.42	0.85	1.06	1.06	1.06
270.0	0.00	0.21	0.64	0.64	0.85	1.06	1.48	1.27	1.48
315.0	0.00	0.21	0.42	0.64	0.85	1.06	0.85	1.06	1.06
360.0	0.00	0.00	0.00	0.64	0.42	0.64	1.06	1.06	0.85
C/ γ (°)	180.0								
0.0	1.27								
45.0	1.27								
90.0	1.48								
135.0	1.06								
180.0	1.27								
225.0	1.27								
270.0	1.48								
315.0	1.06								
360.0	1.27								