



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

LumCAT: LL3G-HO-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.13

LampCAT:

Current(A): 0.0900

Lamp flux(lm): -1.0

Power (W): 10.46

Number of Lamps: 0

PF: 0.9737

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1060.87, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 101.38

Central intensity(cd): 1664.617, Maximum intensity(cd): 1673.720

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.2

[C90/270]Total=44.8

Field angle(10%Imax): [C0/180]Total=70.9

[C90/270]Total=72.6

Maximum s/h(1/2): C0_180=0.72 C90_270=0.79

Maximum s/h(1/4): C0_180=0.69 C90_270=0.76

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.08%

Down flux rate of LUM(%): 99.92%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.384%

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

Date:
Humidity(%): 59%

Operator: Tester

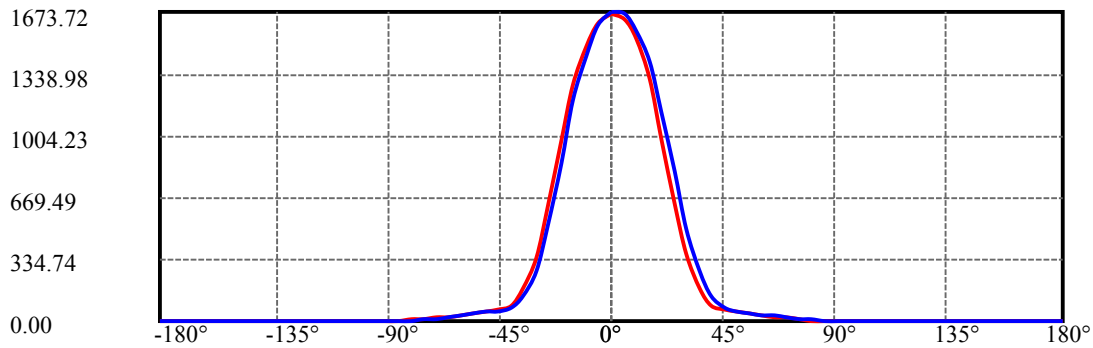
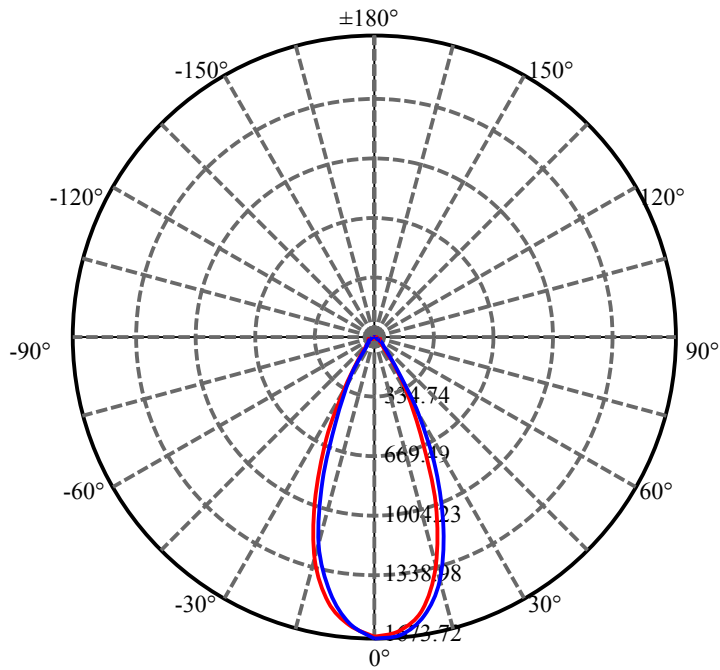
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1665.411	0.000	0	0.00%	0.00%
5.0	1622.964	39.312	39.312	0.00%	3.71%
10.0	1503.723	111.851	151.163	0.00%	14.25%
15.0	1295.090	166.024	317.187	0.00%	29.90%
20.0	993.096	188.579	505.765	0.00%	47.67%
25.0	650.668	172.400	678.166	0.00%	63.93%
30.0	369.156	129.060	807.225	0.00%	76.09%
35.0	186.854	81.876	889.102	0.00%	83.81%
40.0	93.652	46.800	935.902	0.00%	88.22%
45.0	60.706	28.581	964.483	0.00%	90.91%
50.0	48.850	22.137	986.62	0.00%	93.00%
55.0	40.012	19.322	1005.942	0.00%	94.82%
60.0	31.650	16.564	1022.506	0.00%	96.38%
65.0	23.631	13.439	1035.945	0.00%	97.65%
70.0	16.672	10.205	1046.15	0.00%	98.61%
75.0	10.479	7.097	1053.246	0.00%	99.28%
80.0	5.637	4.312	1057.559	0.00%	99.69%
85.0	1.720	1.999	1059.558	0.00%	99.88%
90.0	0.027	0.478	1060.036	0.00%	99.92%
95.0	0.000	0.007	1060.043	0.00%	99.92%
100.0	0.000	0.000	1060.043	0.00%	99.92%
105.0	0.000	0.000	1060.043	0.00%	99.92%
110.0	0.000	0.000	1060.043	0.00%	99.92%
115.0	0.027	0.007	1060.05	0.00%	99.92%
120.0	0.000	0.006	1060.056	0.00%	99.92%
125.0	0.000	0.000	1060.056	0.00%	99.92%
130.0	0.000	0.000	1060.056	0.00%	99.92%
135.0	0.079	0.016	1060.072	0.00%	99.92%
140.0	0.106	0.034	1060.107	0.00%	99.93%
145.0	0.185	0.049	1060.155	0.00%	99.93%
150.0	0.397	0.086	1060.241	0.00%	99.94%
155.0	0.582	0.124	1060.365	0.00%	99.95%
160.0	0.767	0.142	1060.506	0.00%	99.97%
165.0	0.900	0.137	1060.644	0.00%	99.98%
170.0	1.085	0.118	1060.762	0.00%	99.99%
175.0	1.138	0.080	1060.841	0.00%	100.00%
180.0	1.165	0.028	1060.869	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	807.23	N.A.	76.09%
0-40	935.90	N.A.	88.22%
0-60	1022.51	N.A.	96.38%
0-90	1060.04	N.A.	99.92%
0-120	1060.06	N.A.	99.92%
0-180	1060.87	N.A.	100.00%
60-90	37.53	N.A.	3.54%
90-120	0.02	N.A.	0.00%
90-130	0.02	N.A.	0.00%
90-150	0.21	N.A.	0.02%
90-180	0.81	N.A.	0.08%
0-32.53	848.69	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	151.16
10-20	354.60
20-30	301.46
30-40	128.68
40-50	50.72
50-60	35.89
60-70	23.64
70-80	11.41
80-90	2.48
90-100	0.01
100-110	0.00
110-120	0.01
120-130	0.00
130-140	0.05
140-150	0.13
150-160	0.27
160-170	0.26
170-180	0.08

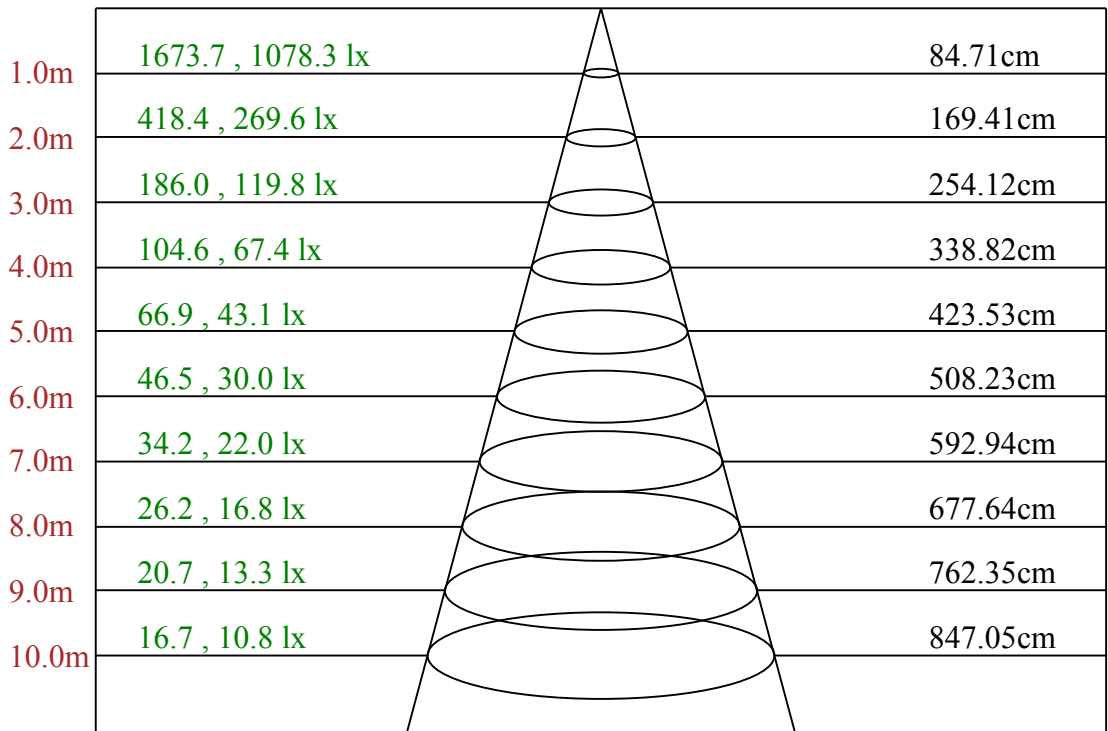


C0/C180: —

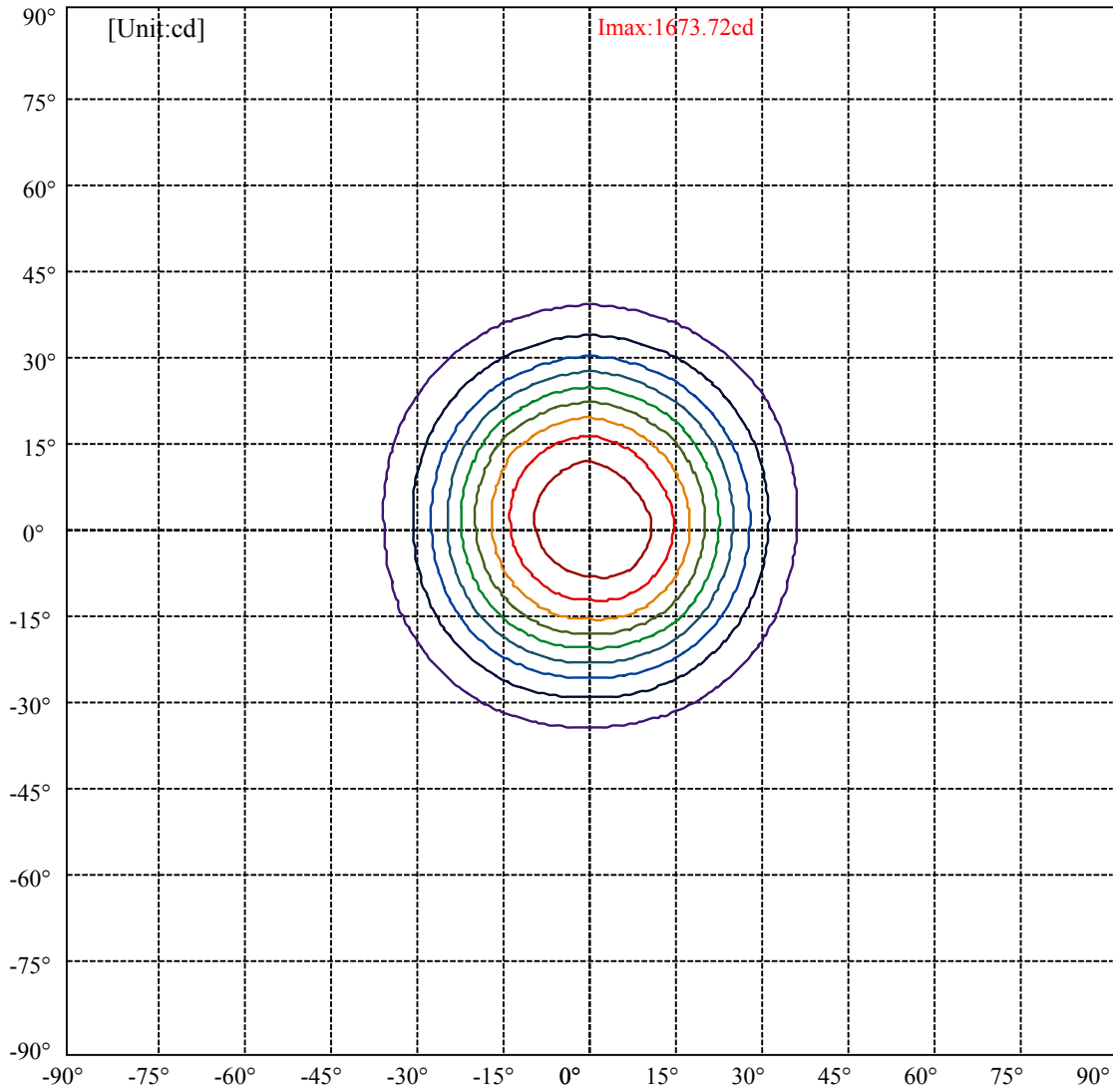
C90/C270: —

Field angle(10%Imax):C0/180Left:35.3 Right:35.6
 :C90/270Left:33.8 Right:38.8

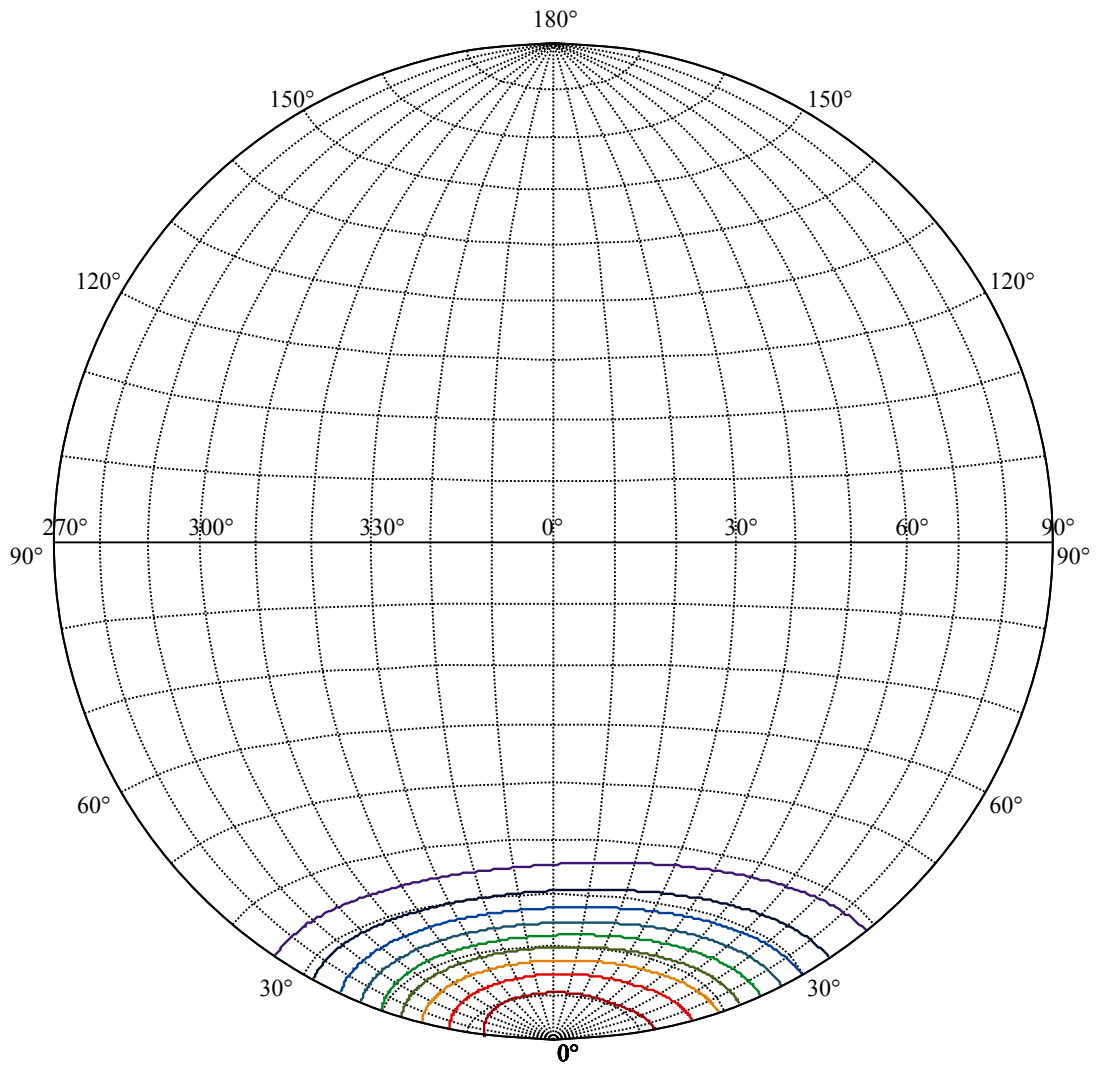
Beam Angle(50%Imax):C0/180Left:22.0 Right:22.2
 :C90/270Left:20.2 Right:24.6



Max , Ave Beam angle of C90 plane 45.91



(10%Imax) 167.372	—
(20%Imax) 334.744	—
(30%Imax) 502.116	—
(40%Imax) 669.488	—
(50%Imax) 836.86	—
(60%Imax) 1004.23	—
(70%Imax) 1171.6	—
(80%Imax) 1338.98	—
(90%Imax) 1506.35	—



House

[Unit:cd]

Road

I_{max}:1673.72

(10%I _{max}) 167.372	—
(20%I _{max}) 334.744	—
(30%I _{max}) 502.116	—
(40%I _{max}) 669.488	—
(50%I _{max}) 836.86	—
(60%I _{max}) 1004.23	—
(70%I _{max}) 1171.6	—
(80%I _{max}) 1338.98	—
(90%I _{max}) 1506.35	—

LL3G-HO-5CCT-3500K

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	1664.62	1635.19	1533.15	1314.25	989.50	638.92	360.32	177.20	85.32
45.0	1654.46	1624.82	1520.45	1329.70	1061.05	728.68	427.43	222.08	106.49
90.0	1673.72	1661.65	1567.23	1403.16	1135.57	808.92	495.38	268.86	134.85
135.0	1668.85	1633.07	1533.15	1361.25	1098.52	744.13	429.54	221.65	105.64
180.0	1664.62	1608.73	1488.90	1275.93	976.80	623.04	343.38	172.33	86.80
225.0	1654.46	1594.33	1449.74	1221.95	904.18	567.79	316.71	154.97	82.35
270.0	1673.72	1598.99	1437.04	1191.25	849.99	516.77	274.79	134.64	72.40
315.0	1668.85	1626.93	1500.12	1263.23	929.16	577.10	305.70	143.11	75.37
360.0	1664.62	1635.19	1533.15	1314.25	989.50	638.92	360.32	177.20	85.32
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	58.01	48.06	39.17	31.12	23.08	16.51	10.37	5.08	1.69
45.0	63.30	50.17	41.71	33.87	25.40	17.78	11.43	6.35	2.33
90.0	70.07	51.87	42.55	34.72	26.89	19.69	13.13	7.83	3.39
135.0	63.30	49.54	41.07	33.24	25.40	18.42	11.86	6.99	2.54
180.0	59.28	48.69	39.17	31.33	23.71	16.94	11.01	5.72	1.27
225.0	59.91	48.48	39.80	30.91	22.65	16.09	10.16	5.29	0.85
270.0	55.89	47.00	38.32	28.79	20.75	13.76	7.41	3.60	0.64
315.0	55.89	47.00	38.32	29.22	21.17	14.18	8.47	4.23	1.06
360.0	58.01	48.06	39.17	31.12	23.08	16.51	10.37	5.08	1.69
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	0.21	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	0.21	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	0.21	0.21	0.42	0.64	0.85	0.85	1.06	1.27
45.0	0.21	0.00	0.21	0.42	0.85	1.06	1.06	1.06	1.27
90.0	0.00	0.00	0.21	0.21	0.42	0.64	0.64	1.06	1.06
135.0	0.00	0.00	0.00	0.21	0.21	0.42	0.85	0.85	0.85
180.0	0.00	0.00	0.00	0.21	0.64	0.42	0.85	1.06	0.85
225.0	0.00	0.00	0.21	0.21	0.42	0.85	0.64	1.06	1.06
270.0	0.42	0.42	0.42	1.06	1.06	1.27	1.48	1.48	1.69
315.0	0.00	0.21	0.21	0.42	0.42	0.64	0.85	1.06	1.06
360.0	0.00	0.21	0.21	0.42	0.64	0.85	0.85	1.06	1.27
C/γ(°)	180.0								
0.0	1.06								
45.0	1.06								
90.0	1.48								
135.0	1.06								
180.0	1.06								
225.0	1.06								
270.0	1.48								
315.0	1.06								
360.0	1.06								