



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

LumCAT: LL3G-HO-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.12

LampCAT:

Current(A): 0.0910

Lamp flux(lm): -1.0

Power (W): 10.70

Number of Lamps: 0

PF: 0.9750

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 986.59, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 92.25

Central intensity(cd): 1562.788, Maximum intensity(cd): 1572.738

Angle of maximum intensity: C=45.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.0

[C90/270]Total=44.7

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

[C90/270]Total=72.7

Maximum s/h(1/2): C0_180=0.73 C90_270=0.70

Maximum s/h(1/4): C0_180=0.71 C90_270=0.68

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 : 96.393%

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

Date:
Humidity(%): 59%

Operator: Tester

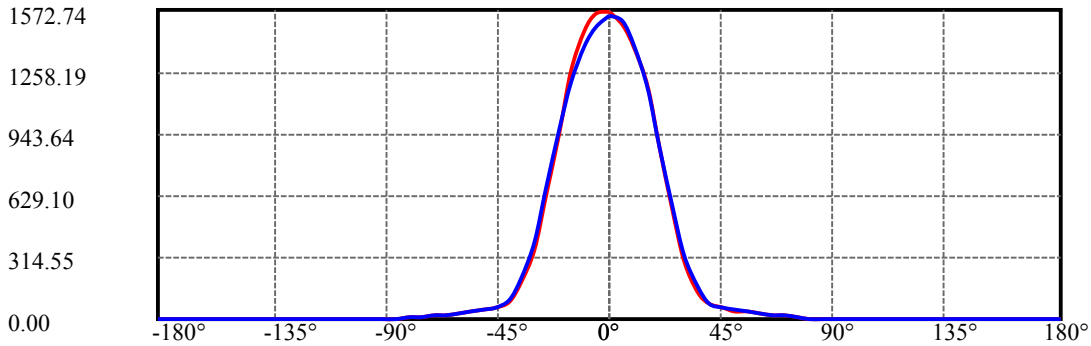
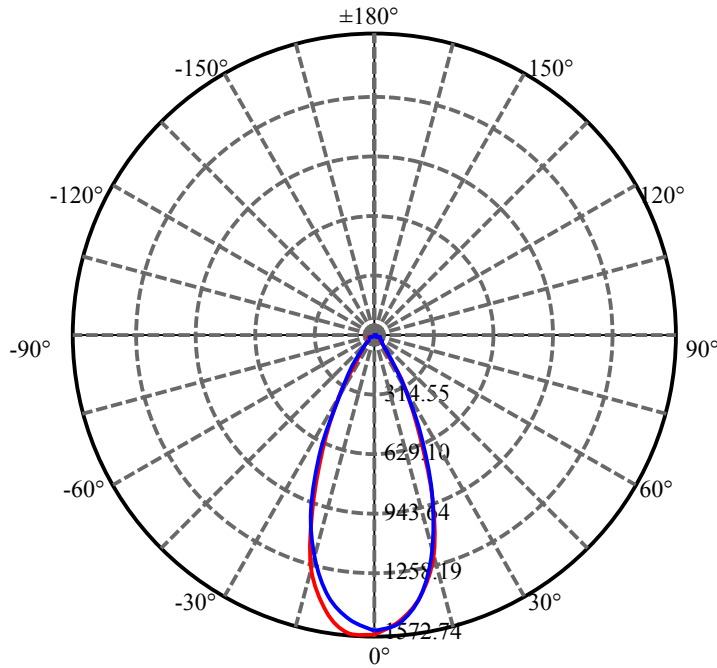
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1557.919	0.000	0	0.00%	0.00%
5.0	1519.362	36.788	36.788	0.00%	3.73%
10.0	1408.827	104.751	141.539	0.00%	14.35%
15.0	1207.234	155.183	296.722	0.00%	30.08%
20.0	924.637	175.696	472.418	0.00%	47.88%
25.0	602.426	160.161	632.578	0.00%	64.12%
30.0	342.111	119.532	752.11	0.00%	76.23%
35.0	172.247	75.743	827.853	0.00%	83.91%
40.0	86.189	43.118	870.971	0.00%	88.28%
45.0	55.890	26.307	897.278	0.00%	90.95%
50.0	45.199	20.426	917.705	0.00%	93.02%
55.0	37.101	17.895	935.599	0.00%	94.83%
60.0	29.532	15.402	951.001	0.00%	96.39%
65.0	22.096	12.551	963.552	0.00%	97.66%
70.0	15.428	9.501	973.054	0.00%	98.63%
75.0	9.897	6.620	979.673	0.00%	99.30%
80.0	5.134	4.022	983.695	0.00%	99.71%
85.0	1.482	1.798	985.493	0.00%	99.89%
90.0	0.000	0.406	985.899	0.00%	99.93%
95.0	0.000	0.000	985.899	0.00%	99.93%
100.0	0.000	0.000	985.899	0.00%	99.93%
105.0	0.000	0.000	985.899	0.00%	99.93%
110.0	0.000	0.000	985.899	0.00%	99.93%
115.0	0.000	0.000	985.899	0.00%	99.93%
120.0	0.000	0.000	985.899	0.00%	99.93%
125.0	0.000	0.000	985.899	0.00%	99.93%
130.0	0.000	0.000	985.899	0.00%	99.93%
135.0	0.027	0.005	985.904	0.00%	99.93%
140.0	0.106	0.025	985.929	0.00%	99.93%
145.0	0.185	0.049	985.977	0.00%	99.94%
150.0	0.238	0.062	986.039	0.00%	99.94%
155.0	0.476	0.090	986.13	0.00%	99.95%
160.0	0.741	0.128	986.258	0.00%	99.97%
165.0	0.847	0.131	986.388	0.00%	99.98%
170.0	0.900	0.104	986.492	0.00%	99.99%
175.0	1.085	0.071	986.563	0.00%	100.00%
180.0	1.165	0.027	986.59	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	752.11	N.A.	76.23%
0-40	870.97	N.A.	88.28%
0-60	951.00	N.A.	96.39%
0-90	985.90	N.A.	99.93%
0-120	985.90	N.A.	99.93%
0-180	986.59	N.A.	100.00%
60-90	34.90	N.A.	3.54%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.14	N.A.	0.01%
90-180	0.66	N.A.	0.07%
0-32.45	789.27	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	141.54
10-20	330.88
20-30	279.69
30-40	118.86
40-50	46.73
50-60	33.30
60-70	22.05
70-80	10.64
80-90	2.20
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.03
140-150	0.11
150-160	0.22
160-170	0.23
170-180	0.07

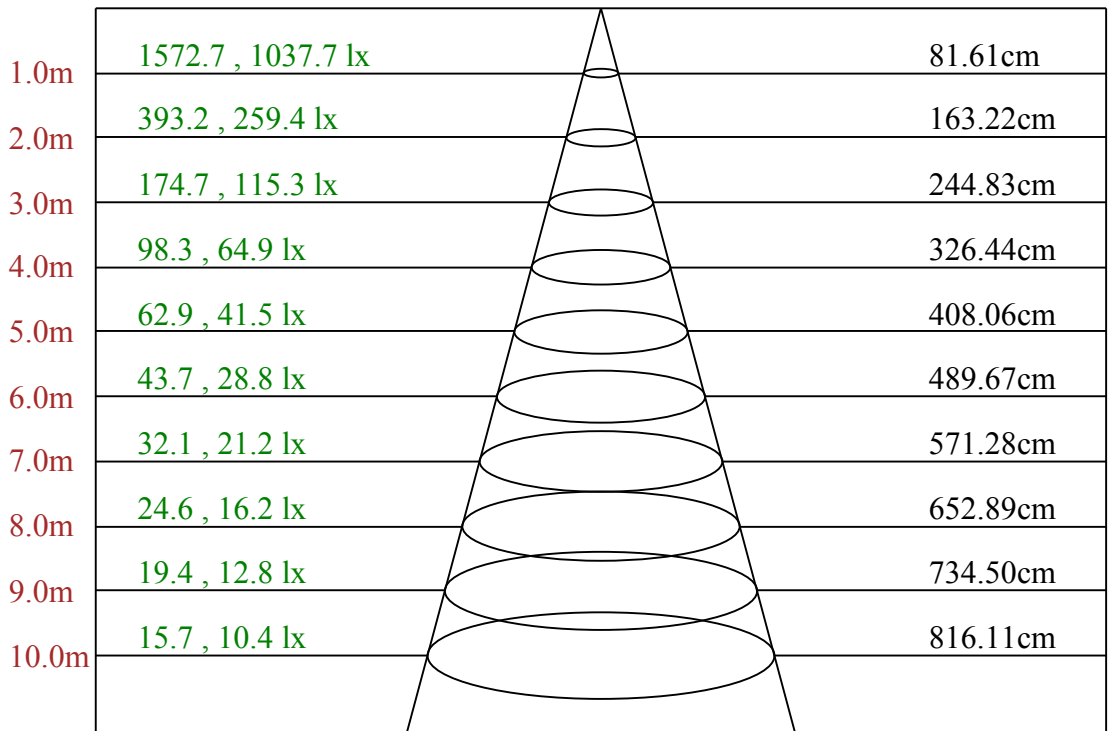


C0/C180: —

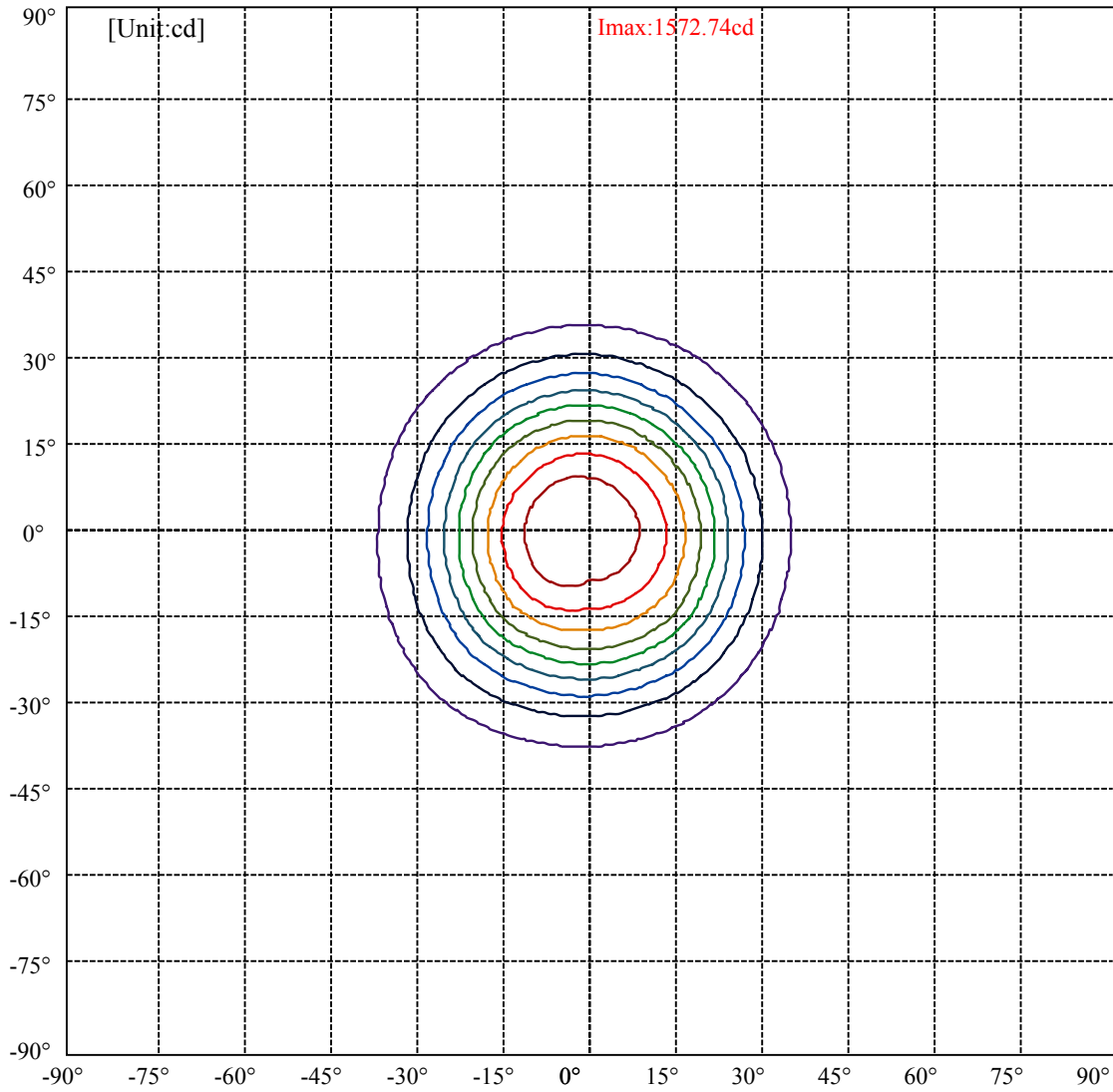
C90/C270: —

Field angle(10%Imax):C0/180Left:36.4 Right:34.5
:C90/270Left:37.3 Right:35.4

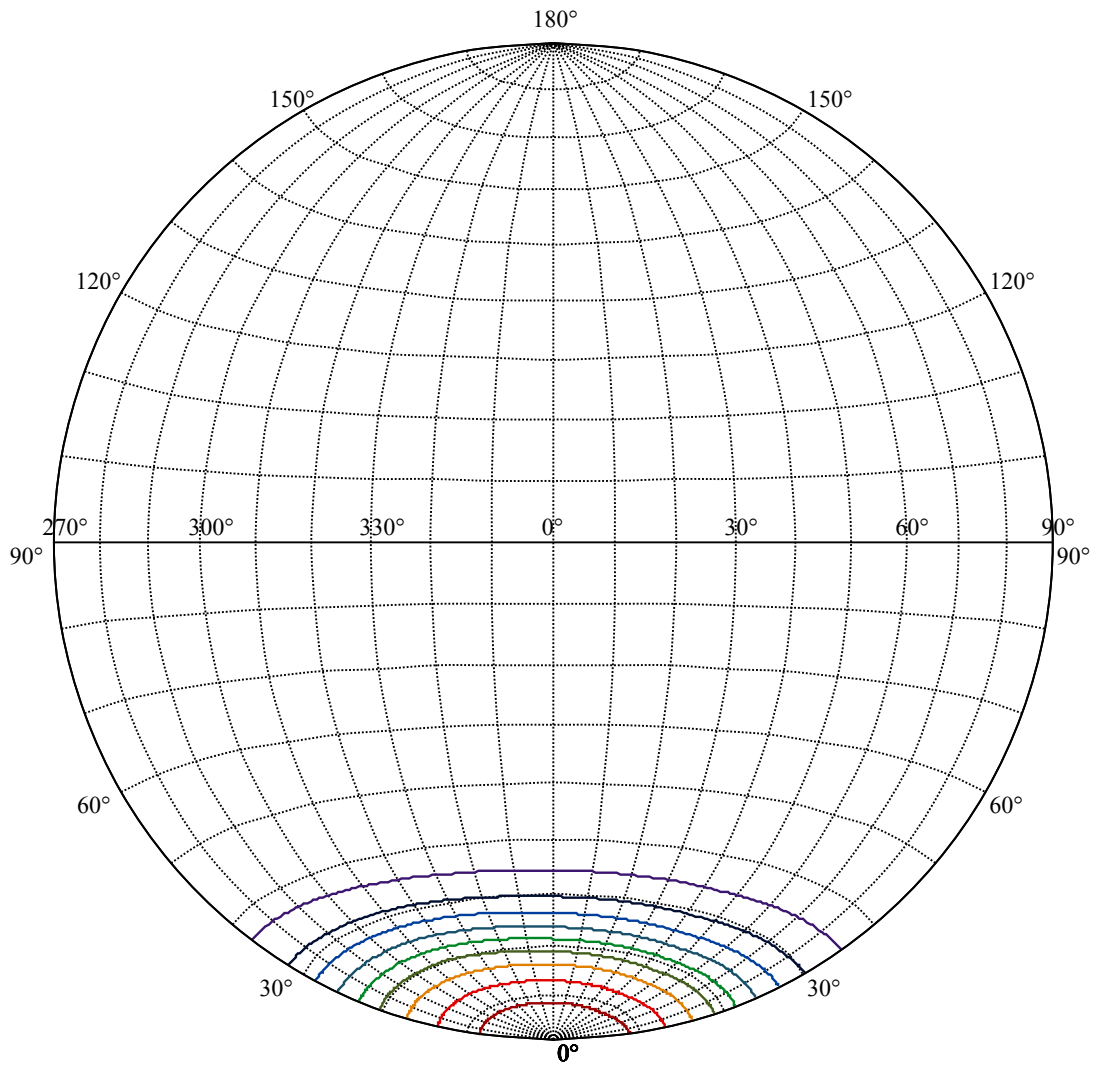
Beam Angle(50%Imax):C0/180Left:22.5 Right:21.5
:C90/270Left:23.1 Right:21.6



Max , Ave Beam angle of C45 plane 44.40



(10%I _{max}) 157.094	—
(20%I _{max}) 314.188	—
(30%I _{max}) 471.282	—
(40%I _{max}) 628.376	—
(50%I _{max}) 785.47	—
(60%I _{max}) 942.564	—
(70%I _{max}) 1099.66	—
(80%I _{max}) 1256.75	—
(90%I _{max}) 1413.85	—



House

[Unit:cd]

Road

I_{max}:1572.74

(10%I _{max}) 157.274	—
(20%I _{max}) 314.548	—
(30%I _{max}) 471.821	—
(40%I _{max}) 629.095	—
(50%I _{max}) 786.369	—
(60%I _{max}) 943.643	—
(70%I _{max}) 1100.92	—
(80%I _{max}) 1258.19	—
(90%I _{max}) 1415.46	—

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	1562.79	1496.95	1378.61	1182.99	883.86	547.25	294.90	140.99	73.88
45.0	1572.74	1503.72	1362.73	1154.20	839.19	510.20	270.56	132.53	72.83
90.0	1547.33	1511.98	1387.92	1169.87	876.24	564.19	322.64	161.74	81.93
135.0	1548.82	1539.92	1430.47	1201.84	915.19	592.98	331.31	163.22	81.51
180.0	1562.79	1557.92	1466.04	1260.05	947.16	621.98	356.30	182.91	88.07
225.0	1572.74	1566.39	1471.97	1285.25	1011.52	689.52	423.62	224.83	108.39
270.0	1547.33	1488.06	1385.81	1199.72	965.79	659.88	388.26	203.23	97.81
315.0	1548.82	1489.96	1387.08	1203.95	958.17	633.41	349.31	168.52	85.10
360.0	1562.79	1496.95	1378.61	1182.99	883.86	547.25	294.90	140.99	73.88
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	54.20	43.61	35.57	27.95	21.17	14.82	9.32	4.66	0.64
45.0	54.41	44.67	36.20	28.16	20.11	13.76	8.47	3.81	1.06
90.0	55.47	45.94	37.90	29.64	22.02	15.03	9.53	4.66	1.27
135.0	53.98	44.88	37.05	29.22	21.17	14.82	9.53	4.66	1.06
180.0	54.83	44.88	37.05	29.64	22.86	16.30	11.01	5.93	1.91
225.0	61.18	47.63	38.95	31.97	24.77	17.78	11.64	6.56	2.33
270.0	57.58	45.73	37.90	30.27	22.65	15.88	10.37	5.50	1.91
315.0	55.47	44.25	36.20	29.43	22.02	15.03	9.32	5.29	1.69
360.0	54.20	43.61	35.57	27.95	21.17	14.82	9.32	4.66	0.64
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	0.00	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
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	0.21	0.21	0.21	0.85	0.64	1.06	0.85	1.06
45.0	0.00	0.21	0.42	0.42	0.64	0.85	1.06	1.06	1.06
90.0	0.00	0.00	0.00	0.00	0.42	0.64	0.64	0.85	1.06
135.0	0.00	0.00	0.00	0.00	0.42	0.64	0.64	0.85	1.06
180.0	0.00	0.00	0.00	0.21	0.21	0.85	0.85	0.85	1.06
225.0	0.00	0.00	0.00	0.00	0.21	0.64	0.64	0.85	1.06
270.0	0.21	0.21	0.42	0.64	0.64	0.85	1.06	1.06	1.06
315.0	0.00	0.21	0.42	0.42	0.42	0.85	0.85	0.85	1.27
360.0	0.00	0.21	0.21	0.21	0.85	0.64	1.06	0.85	1.06
C/ γ (°)	180.0								
0.0	1.06								
45.0	1.06								
90.0	1.27								
135.0	1.27								
180.0	1.06								
225.0	1.06								
270.0	1.27								
315.0	1.27								
360.0	1.06								