



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

LumCAT: LR3G-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): 10.71

Number of Lamps: 0

PF: 0.9751

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 950.65, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 88.78

Central intensity(cd): 1502.664, Maximum intensity(cd): 1552.838

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

Beam Angle(50%Imax): [C0/180]Total=45.1

[C90/270]Total=44.0

Field angle(10%Imax): [C0/180]Total=72.9

[C90/270]Total=71.4

Maximum s/h(1/2): C0\_180=0.76 C90\_270=0.73

Maximum s/h(1/4): C0\_180=0.73 C90\_270=0.70

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  $\pi$  solid angle : 97.509%

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

Date:  
Humidity(%): 59%

Operator: Tester

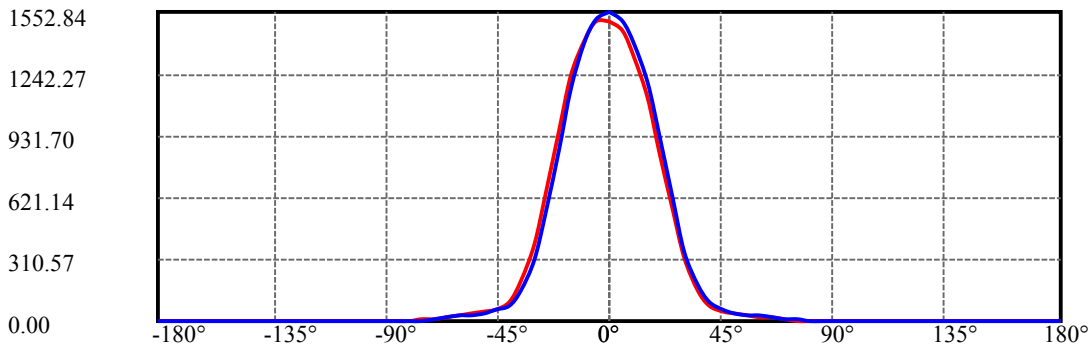
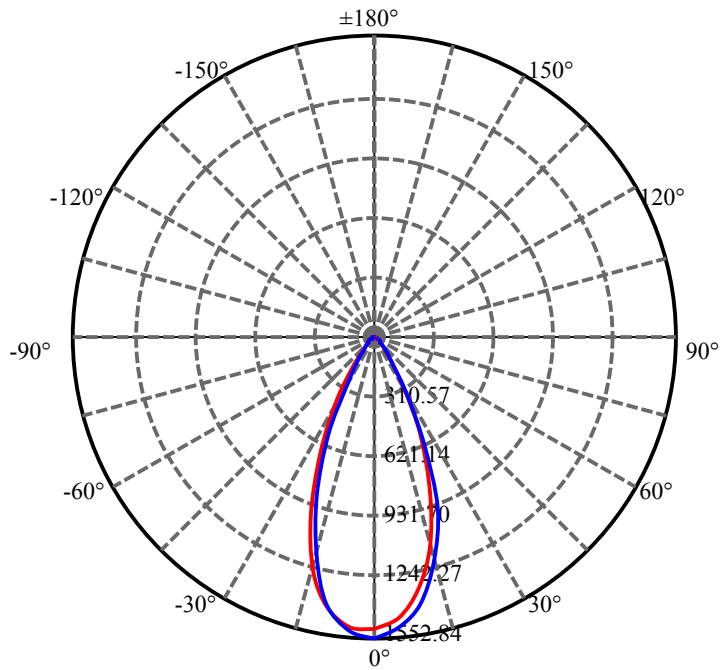
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1519.124	0.000	0	0.00%	0.00%
5.0	1484.881	35.912	35.912	0.00%	3.78%
10.0	1372.864	102.231	138.143	0.00%	14.53%
15.0	1173.017	151.020	289.163	0.00%	30.42%
20.0	899.445	170.800	459.962	0.00%	48.38%
25.0	589.988	156.214	616.176	0.00%	64.82%
30.0	336.687	117.271	733.448	0.00%	77.15%
35.0	172.643	75.002	808.45	0.00%	85.04%
40.0	86.957	43.312	851.763	0.00%	89.60%
45.0	54.355	26.165	877.928	0.00%	92.35%
50.0	41.785	19.426	897.354	0.00%	94.39%
55.0	33.052	16.272	913.626	0.00%	96.10%
60.0	24.690	13.347	926.973	0.00%	97.51%
65.0	15.930	9.875	936.848	0.00%	98.55%
70.0	9.791	6.513	943.361	0.00%	99.23%
75.0	4.816	3.818	947.179	0.00%	99.63%
80.0	2.223	1.883	949.062	0.00%	99.83%
85.0	0.529	0.748	949.81	0.00%	99.91%
90.0	0.000	0.145	949.955	0.00%	99.93%
95.0	0.000	0.000	949.955	0.00%	99.93%
100.0	0.000	0.000	949.955	0.00%	99.93%
105.0	0.000	0.000	949.955	0.00%	99.93%
110.0	0.000	0.000	949.955	0.00%	99.93%
115.0	0.000	0.000	949.955	0.00%	99.93%
120.0	0.000	0.000	949.955	0.00%	99.93%
125.0	0.000	0.000	949.955	0.00%	99.93%
130.0	0.000	0.000	949.955	0.00%	99.93%
135.0	0.027	0.005	949.96	0.00%	99.93%
140.0	0.027	0.010	949.97	0.00%	99.93%
145.0	0.106	0.022	949.992	0.00%	99.93%
150.0	0.371	0.070	950.062	0.00%	99.94%
155.0	0.556	0.117	950.179	0.00%	99.95%
160.0	0.741	0.136	950.315	0.00%	99.96%
165.0	0.874	0.133	950.448	0.00%	99.98%
170.0	0.953	0.108	950.557	0.00%	99.99%
175.0	1.059	0.072	950.629	0.00%	100.00%
180.0	1.112	0.026	950.655	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	733.45	N.A.	77.15%
0-40	851.76	N.A.	89.60%
0-60	926.97	N.A.	97.51%
0-90	949.95	N.A.	99.93%
0-120	949.95	N.A.	99.93%
0-180	950.65	N.A.	100.00%
60-90	22.98	N.A.	2.42%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.11	N.A.	0.01%
90-180	0.67	N.A.	0.07%
0-31.81	760.52	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	138.14
10-20	321.82
20-30	273.49
30-40	118.31
40-50	45.59
50-60	29.62
60-70	16.39
70-80	5.70
80-90	0.89
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.02
140-150	0.09
150-160	0.25
160-170	0.24
170-180	0.07

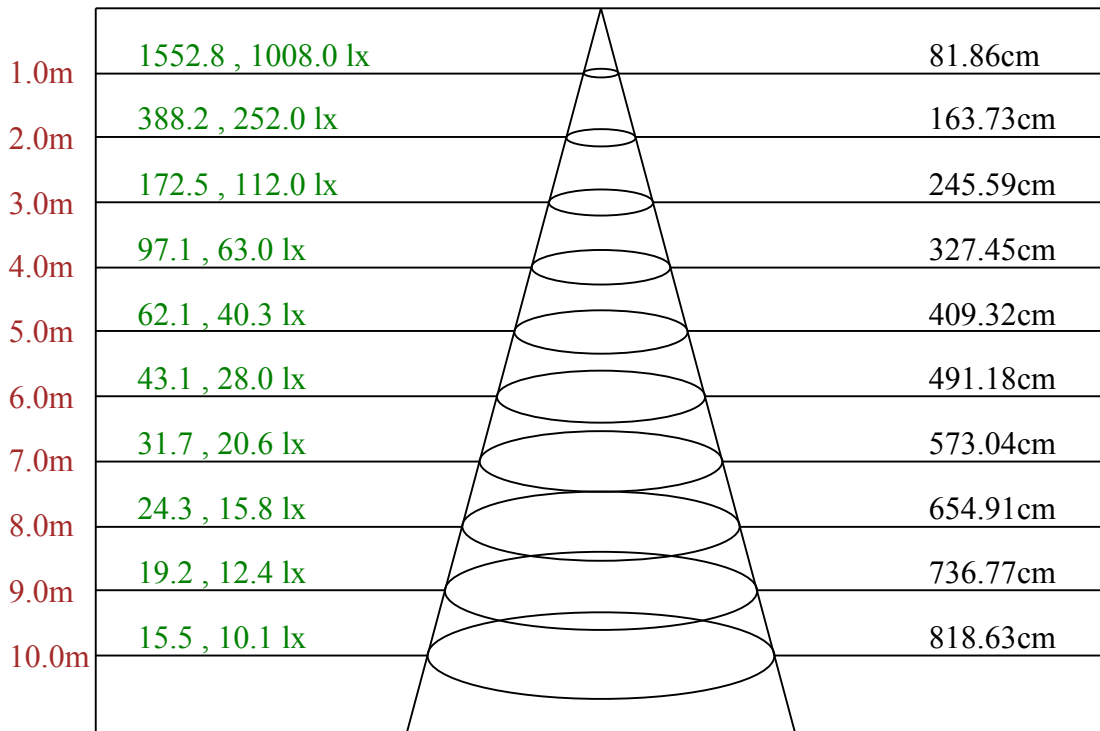


C0/C180: —

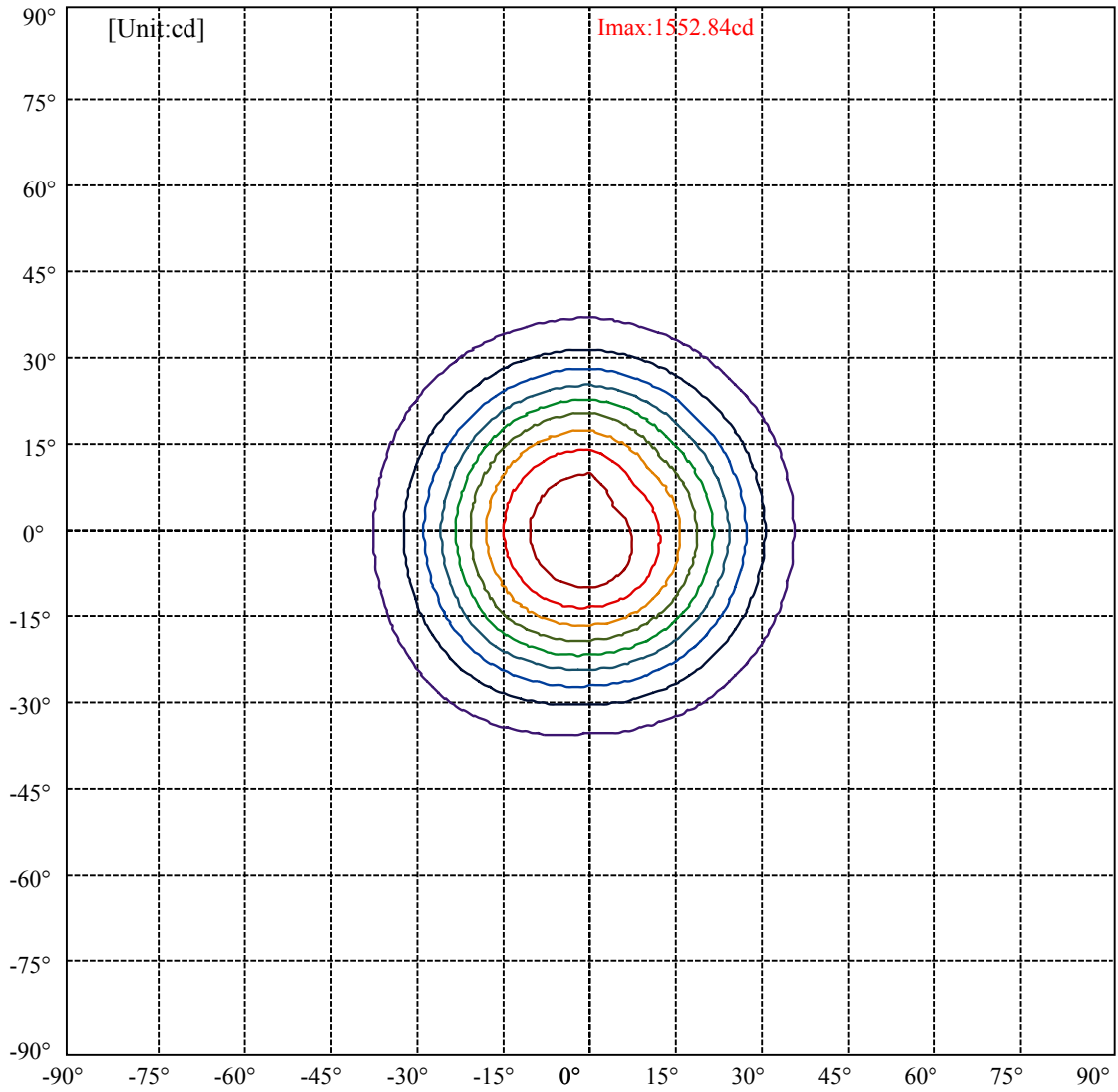
C90/C270: —

Field angle(10%Imax):C0/180Left:37.5 Right:35.4  
:C90/270Left:34.9 Right:36.5

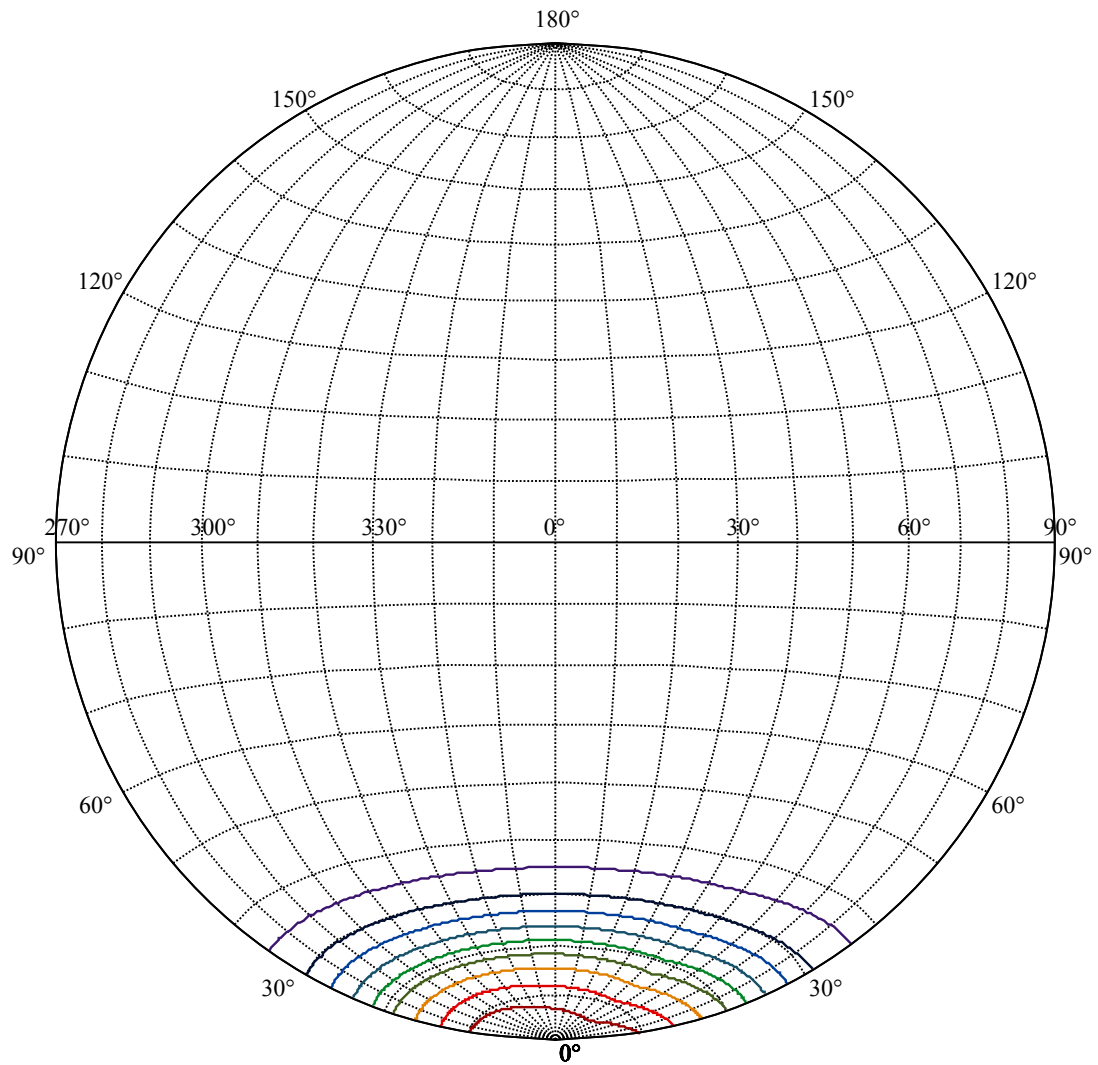
Beam Angle(50%Imax):C0/180Left:23.4 Right:21.7  
:C90/270Left:21.5 Right:22.5



Max , Ave      Beam angle of C90 plane 44.52



(10%Imax) 155.284	—
(20%Imax) 310.568	—
(30%Imax) 465.851	—
(40%Imax) 621.135	—
(50%Imax) 776.419	—
(60%Imax) 931.703	—
(70%Imax) 1086.99	—
(80%Imax) 1242.27	—
(90%Imax) 1397.55	—



House

[Unit:cd]

Road

**I<sub>max</sub>:1552.84**

(10%I <sub>max</sub> ) 155.284	—
(20%I <sub>max</sub> ) 310.568	—
(30%I <sub>max</sub> ) 465.851	—
(40%I <sub>max</sub> ) 621.135	—
(50%I <sub>max</sub> ) 776.419	—
(60%I <sub>max</sub> ) 931.703	—
(70%I <sub>max</sub> ) 1086.99	—
(80%I <sub>max</sub> ) 1242.27	—
(90%I <sub>max</sub> ) 1397.55	—

LR3G-HO-5CCT-3000K

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	1502.66	1451.64	1319.97	1119.27	849.56	561.44	315.23	156.87	77.48
45.0	1492.71	1417.77	1278.90	1067.83	798.33	522.48	299.14	150.31	77.70
90.0	1552.84	1503.30	1391.94	1194.64	940.38	613.09	344.02	180.58	93.78
135.0	1528.28	1506.48	1397.03	1225.97	952.45	622.83	350.37	181.01	90.19
180.0	1502.66	1502.66	1409.09	1237.19	966.21	650.14	387.63	202.18	96.75
225.0	1492.71	1494.62	1414.17	1221.95	964.94	655.85	383.82	206.83	103.95
270.0	1552.84	1517.27	1396.60	1162.46	869.67	551.27	306.55	153.48	79.39
315.0	1528.28	1485.31	1375.22	1154.84	854.01	542.81	306.76	149.89	76.43
360.0	1502.66	1451.64	1319.97	1119.27	849.56	561.44	315.23	156.87	77.48

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	51.02	40.01	31.54	23.29	14.61	8.89	4.66	2.33	0.42
45.0	51.23	38.74	30.49	22.86	14.61	9.10	5.08	2.96	1.27
90.0	55.04	41.28	32.39	24.98	16.51	9.95	5.29	2.33	0.85
135.0	55.89	42.13	33.66	25.62	16.72	10.59	5.08	1.91	0.42
180.0	56.95	43.82	35.35	25.83	17.57	10.37	4.87	2.12	0.21
225.0	59.07	44.67	35.35	26.89	17.57	11.22	5.29	2.54	0.42
270.0	53.35	41.92	33.03	24.35	14.61	9.10	4.02	1.69	0.21
315.0	52.29	41.71	32.60	23.71	15.24	9.10	4.23	1.91	0.42
360.0	51.02	40.01	31.54	23.29	14.61	8.89	4.66	2.33	0.42

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	0.00	0.21	0.64	0.64	0.85	1.06	0.85	1.06
45.0	0.00	0.00	0.21	0.42	0.85	0.85	0.85	1.06	1.06
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	0.85	1.06	1.06
180.0	0.00	0.00	0.00	0.21	0.21	0.42	0.64	0.85	1.06
225.0	0.00	0.00	0.00	0.00	0.42	0.64	0.85	0.85	1.06
270.0	0.21	0.21	0.21	0.64	0.85	1.06	1.06	0.85	1.27
315.0	0.00	0.00	0.21	0.64	0.64	0.85	1.06	1.06	0.85
360.0	0.00	0.00	0.21	0.64	0.64	0.85	1.06	0.85	1.06

C/γ(°)	180.0
0.0	1.06
45.0	1.06
90.0	1.27
135.0	1.06
180.0	1.06
225.0	1.06
270.0	1.27
315.0	1.06
360.0	1.06