



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

LumCAT: LRG3-HO-3018K

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

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Lumens(lm): 770.62, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 71.97

Central intensity(cd): 1218.088, Maximum intensity(cd): 1258.759

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

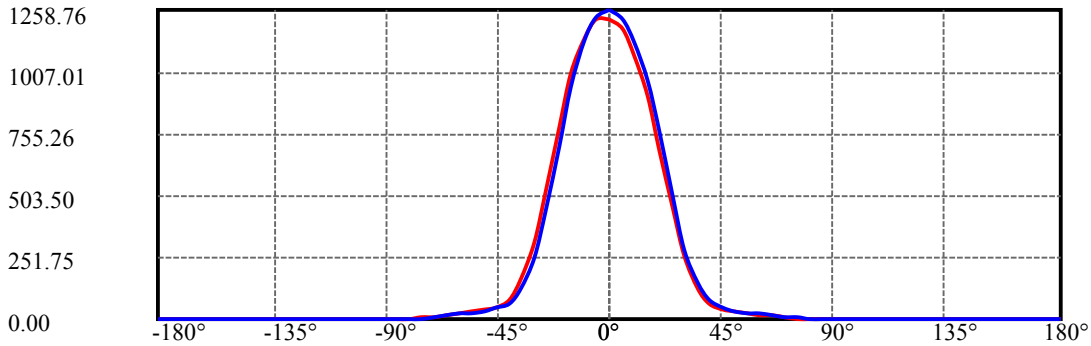
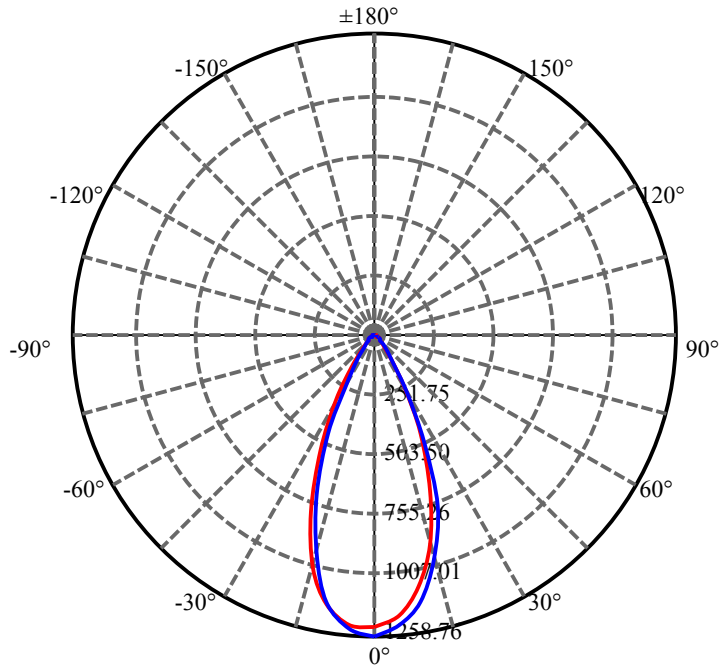
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1231.431	0.000	0	0.00%	0.00%
5.0	1203.673	29.111	29.111	0.00%	3.78%
10.0	1112.869	82.870	111.981	0.00%	14.53%
15.0	950.870	122.420	234.401	0.00%	30.42%
20.0	729.107	138.454	372.854	0.00%	48.38%
25.0	478.256	126.630	499.484	0.00%	64.82%
30.0	272.924	95.062	594.547	0.00%	77.15%
35.0	139.948	60.798	655.345	0.00%	85.04%
40.0	70.489	35.110	690.455	0.00%	89.60%
45.0	44.061	21.210	711.665	0.00%	92.35%
50.0	33.872	15.747	727.412	0.00%	94.39%
55.0	26.793	13.190	740.602	0.00%	96.10%
60.0	20.014	10.819	751.422	0.00%	97.51%
65.0	12.914	8.005	759.426	0.00%	98.55%
70.0	7.937	5.280	764.706	0.00%	99.23%
75.0	3.904	3.095	767.801	0.00%	99.63%
80.0	1.802	1.527	769.328	0.00%	99.83%
85.0	0.429	0.606	769.934	0.00%	99.91%
90.0	0.000	0.117	770.051	0.00%	99.93%
95.0	0.000	0.000	770.051	0.00%	99.93%
100.0	0.000	0.000	770.051	0.00%	99.93%
105.0	0.000	0.000	770.051	0.00%	99.93%
110.0	0.000	0.000	770.051	0.00%	99.93%
115.0	0.000	0.000	770.051	0.00%	99.93%
120.0	0.000	0.000	770.051	0.00%	99.93%
125.0	0.000	0.000	770.051	0.00%	99.93%
130.0	0.000	0.000	770.051	0.00%	99.93%
135.0	0.022	0.004	770.056	0.00%	99.93%
140.0	0.022	0.008	770.064	0.00%	99.93%
145.0	0.086	0.018	770.082	0.00%	99.93%
150.0	0.301	0.057	770.139	0.00%	99.94%
155.0	0.450	0.095	770.234	0.00%	99.95%
160.0	0.601	0.110	770.344	0.00%	99.96%
165.0	0.708	0.108	770.452	0.00%	99.98%
170.0	0.772	0.088	770.539	0.00%	99.99%
175.0	0.858	0.058	770.598	0.00%	100.00%
180.0	0.901	0.021	770.619	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	594.55	N.A.	77.15%
0-40	690.45	N.A.	89.60%
0-60	751.42	N.A.	97.51%
0-90	770.05	N.A.	99.93%
0-120	770.05	N.A.	99.93%
0-180	770.62	N.A.	100.00%
60-90	18.63	N.A.	2.42%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.09	N.A.	0.01%
90-180	0.55	N.A.	0.07%
0-31.81	616.50	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	111.98
10-20	260.87
20-30	221.69
30-40	95.91
40-50	36.96
50-60	24.01
60-70	13.28
70-80	4.62
80-90	0.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.01
140-150	0.07
150-160	0.21
160-170	0.20
170-180	0.06

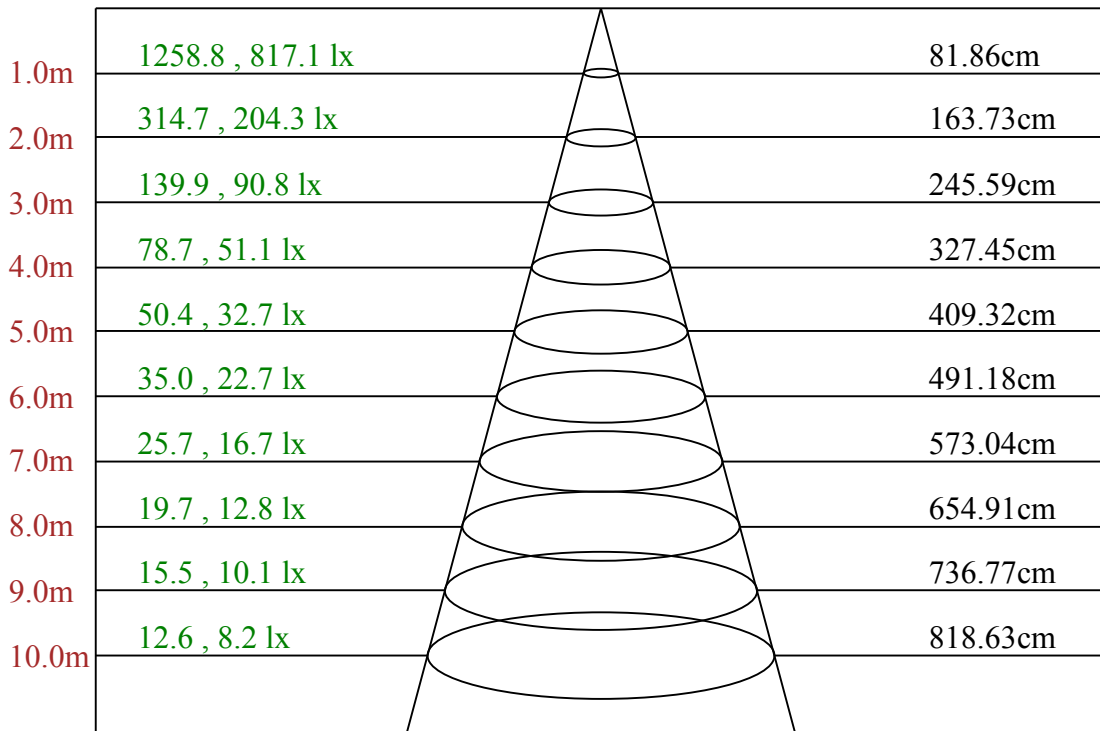


C0/C180: —

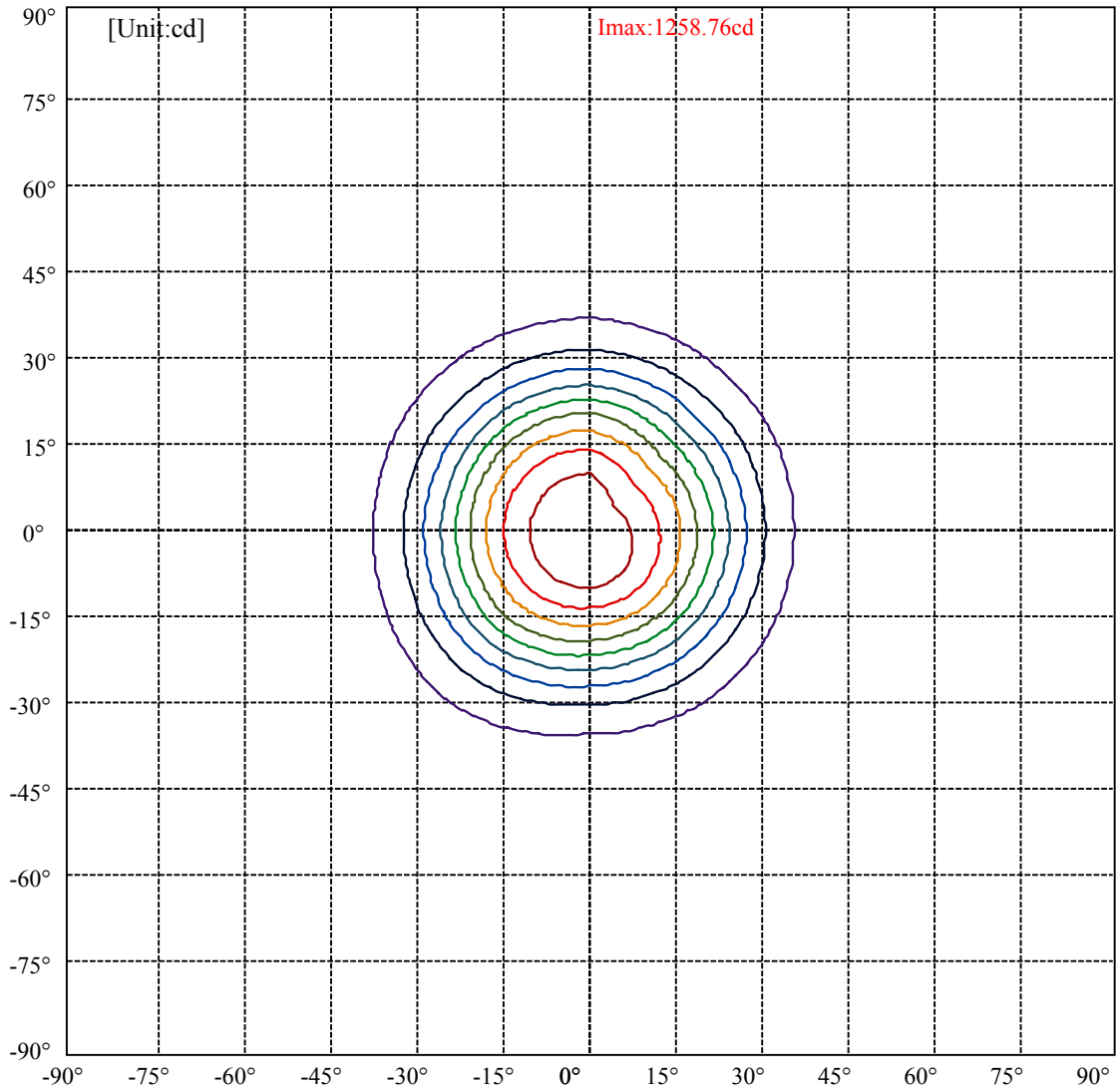
C90/C270: —

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

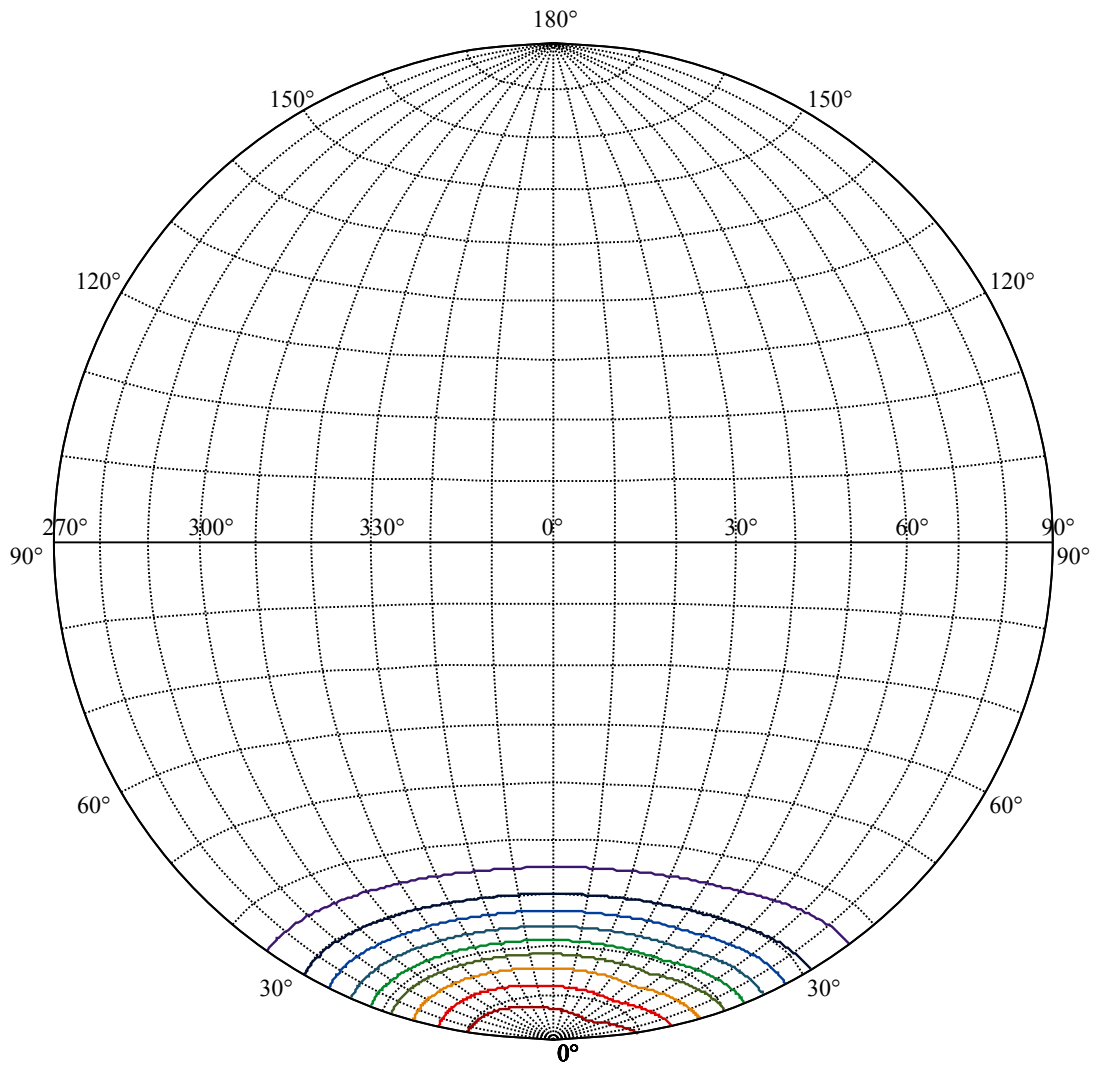
Beam Angle(50%Imax):C0/180Left:23.4 Right:21.7  
:C90/270Left:21.5 Right:22.5



Max , Ave      Beam angle of C90 plane 44.52



(10%Imax) 125.876	—
(20%Imax) 251.752	—
(30%Imax) 377.628	—
(40%Imax) 503.504	—
(50%Imax) 629.38	—
(60%Imax) 755.255	—
(70%Imax) 881.131	—
(80%Imax) 1007.01	—
(90%Imax) 1132.88	—



House

[Unit:cd]

Road

**Imax:1258.76**

(10%Imax) 125.876	—
(20%Imax) 251.752	—
(30%Imax) 377.628	—
(40%Imax) 503.504	—
(50%Imax) 629.38	—
(60%Imax) 755.255	—
(70%Imax) 881.131	—
(80%Imax) 1007.01	—
(90%Imax) 1132.88	—

LRG3-HO-3018K

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	1218.09	1176.73	1069.99	907.30	688.67	455.11	255.53	127.16	62.81
45.0	1210.02	1149.27	1036.70	865.60	647.14	423.53	242.49	121.84	62.98
90.0	1258.76	1218.60	1128.34	968.40	762.29	496.98	278.87	146.38	76.02
135.0	1238.85	1221.18	1132.45	993.79	772.07	504.88	284.02	146.73	73.11
180.0	1218.09	1218.09	1142.24	1002.89	783.23	527.01	314.22	163.89	78.43
225.0	1210.02	1211.57	1146.36	990.53	782.20	531.65	311.13	167.66	84.26
270.0	1258.76	1229.93	1132.11	942.31	704.97	446.87	248.49	124.42	64.35
315.0	1238.85	1204.02	1114.78	936.13	692.28	440.01	248.66	121.50	61.95
360.0	1218.09	1176.73	1069.99	907.30	688.67	455.11	255.53	127.16	62.81

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	41.36	32.43	25.57	18.88	11.84	7.21	3.78	1.89	0.34
45.0	41.53	31.41	24.71	18.53	11.84	7.38	4.12	2.40	1.03
90.0	44.62	33.46	26.26	20.25	13.39	8.07	4.29	1.89	0.69
135.0	45.31	34.15	27.29	20.77	13.56	8.58	4.12	1.54	0.34
180.0	46.16	35.52	28.66	20.94	14.24	8.41	3.95	1.72	0.17
225.0	47.88	36.21	28.66	21.79	14.24	9.10	4.29	2.06	0.34
270.0	43.25	33.98	26.77	19.74	11.84	7.38	3.26	1.37	0.17
315.0	42.39	33.81	26.43	19.22	12.36	7.38	3.43	1.54	0.34
360.0	41.36	32.43	25.57	18.88	11.84	7.21	3.78	1.89	0.34

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	0.17	0.52	0.52	0.69	0.86	0.69	0.86
45.0	0.00	0.00	0.17	0.34	0.69	0.69	0.69	0.86	0.86
90.0	0.00	0.00	0.00	0.17	0.34	0.52	0.52	0.86	0.86
135.0	0.00	0.00	0.00	0.17	0.34	0.52	0.69	0.86	0.86
180.0	0.00	0.00	0.00	0.17	0.17	0.34	0.52	0.69	0.86
225.0	0.00	0.00	0.00	0.00	0.34	0.52	0.69	0.69	0.86
270.0	0.17	0.17	0.17	0.52	0.69	0.86	0.86	0.69	1.03
315.0	0.00	0.00	0.17	0.52	0.52	0.69	0.86	0.86	0.69
360.0	0.00	0.00	0.17	0.52	0.52	0.69	0.86	0.69	0.86

C/γ(°)	180.0
0.0	0.86
45.0	0.86
90.0	1.03
135.0	0.86
180.0	0.86
225.0	0.86
270.0	1.03
315.0	0.86
360.0	0.86