



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

LumCAT: LRG3-HO-4CCT-DTW-2700K

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: 1

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): 945.41, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 88.29

Central intensity(cd): 1508.964, Maximum intensity(cd): 1508.964

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

Beam Angle(50%Imax): [C0/180]Total=44.9

[C90/270]Total=44.5

Field angle(10%Imax): [C0/180]Total=72.7

[C90/270]Total=71.8

Maximum s/h(1/2): C0\_180=0.75 C90\_270=0.74

Maximum s/h(1/4): C0\_180=0.73 C90\_270=0.71

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(%): 58%

Operator: Sam

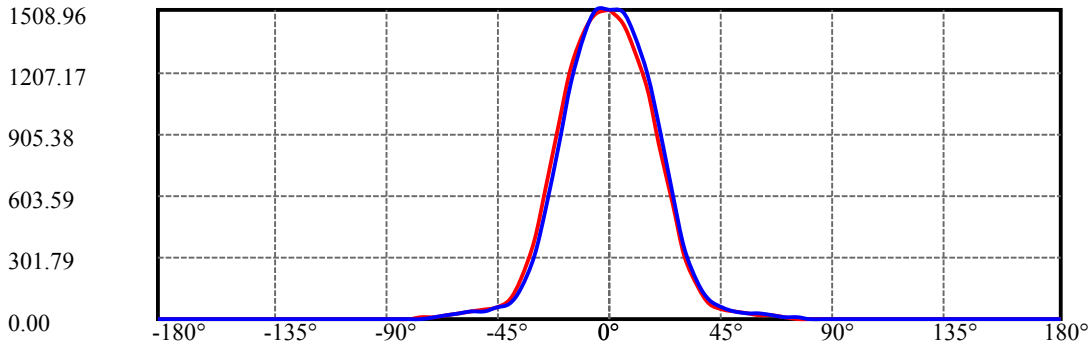
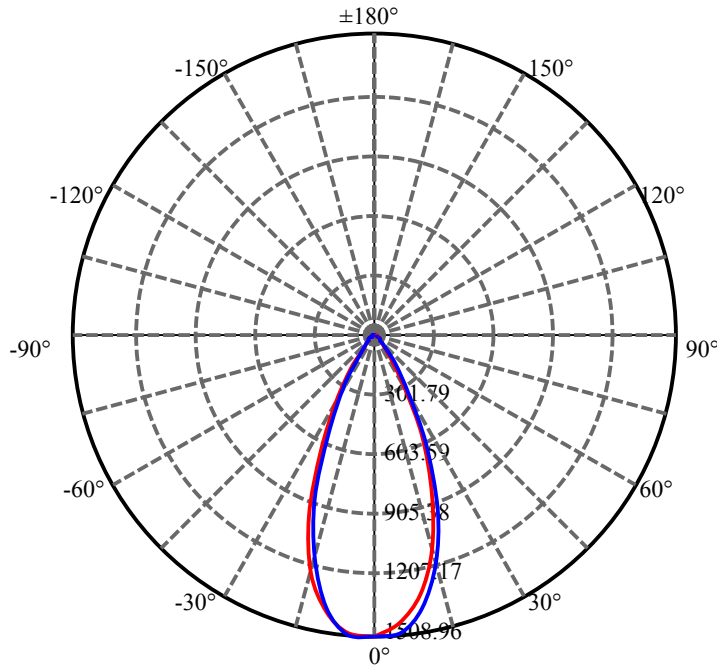
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1508.964	0.000	0	0.00%	0.00%
5.0	1476.728	35.693	35.693	0.00%	3.78%
10.0	1365.326	101.669	137.362	0.00%	14.53%
15.0	1166.576	150.191	287.553	0.00%	30.42%
20.0	894.506	169.862	457.415	0.00%	48.38%
25.0	586.749	155.356	612.772	0.00%	64.82%
30.0	334.838	116.628	729.399	0.00%	77.15%
35.0	171.696	74.591	803.99	0.00%	85.04%
40.0	86.479	43.075	847.064	0.00%	89.60%
45.0	54.056	26.021	873.085	0.00%	92.35%
50.0	41.555	19.320	892.405	0.00%	94.39%
55.0	32.871	16.183	908.588	0.00%	96.10%
60.0	24.554	13.274	921.861	0.00%	97.51%
65.0	15.843	9.821	931.682	0.00%	98.55%
70.0	9.737	6.477	938.159	0.00%	99.23%
75.0	4.790	3.797	941.956	0.00%	99.63%
80.0	2.211	1.873	943.829	0.00%	99.83%
85.0	0.526	0.744	944.573	0.00%	99.91%
90.0	0.000	0.144	944.717	0.00%	99.93%
95.0	0.000	0.000	944.717	0.00%	99.93%
100.0	0.000	0.000	944.717	0.00%	99.93%
105.0	0.000	0.000	944.717	0.00%	99.93%
110.0	0.000	0.000	944.717	0.00%	99.93%
115.0	0.000	0.000	944.717	0.00%	99.93%
120.0	0.000	0.000	944.717	0.00%	99.93%
125.0	0.000	0.000	944.717	0.00%	99.93%
130.0	0.000	0.000	944.717	0.00%	99.93%
135.0	0.026	0.005	944.723	0.00%	99.93%
140.0	0.026	0.010	944.732	0.00%	99.93%
145.0	0.106	0.022	944.754	0.00%	99.93%
150.0	0.369	0.070	944.824	0.00%	99.94%
155.0	0.553	0.117	944.941	0.00%	99.95%
160.0	0.737	0.135	945.076	0.00%	99.96%
165.0	0.869	0.132	945.208	0.00%	99.98%
170.0	0.948	0.108	945.316	0.00%	99.99%
175.0	1.053	0.072	945.388	0.00%	100.00%
180.0	1.100	0.026	945.413	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	729.40	N.A.	77.15%
0-40	847.06	N.A.	89.60%
0-60	921.86	N.A.	97.51%
0-90	944.72	N.A.	99.93%
0-120	944.72	N.A.	99.93%
0-180	945.41	N.A.	100.00%
60-90	22.86	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	756.33	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	137.36
10-20	320.05
20-30	271.98
30-40	117.67
40-50	45.34
50-60	29.46
60-70	16.30
70-80	5.67
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: ————

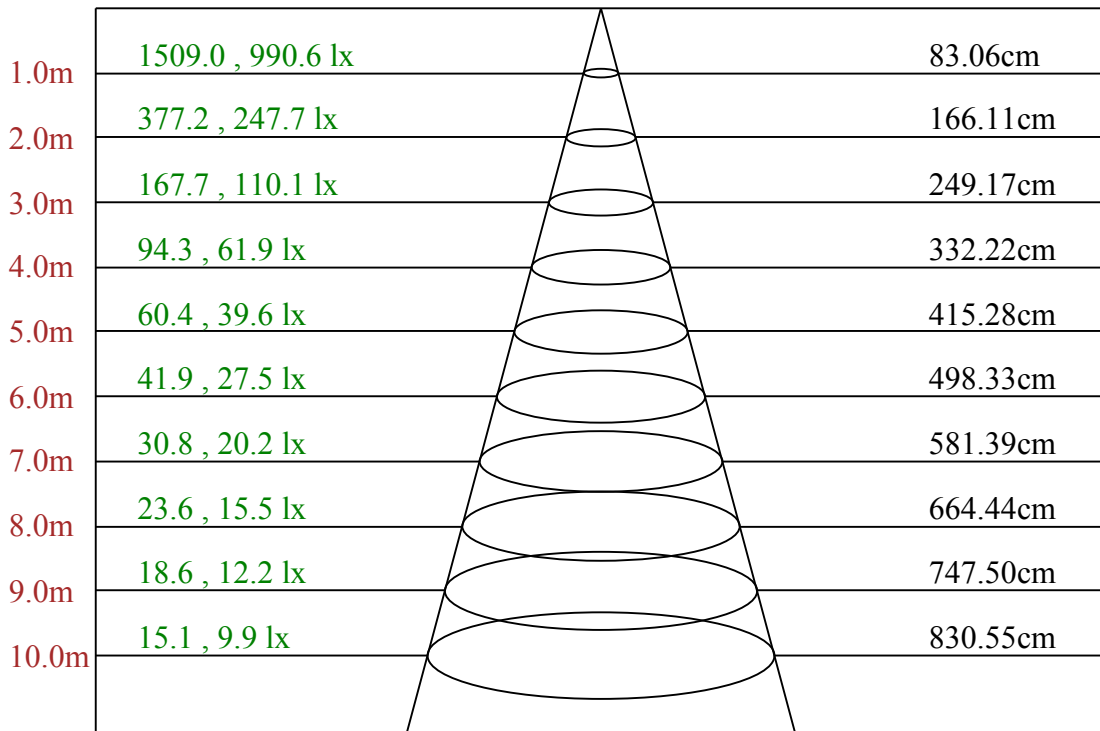
C90/C270: ————

Field angle(10%Imax):C0/180Left:37.4 Right:35.3

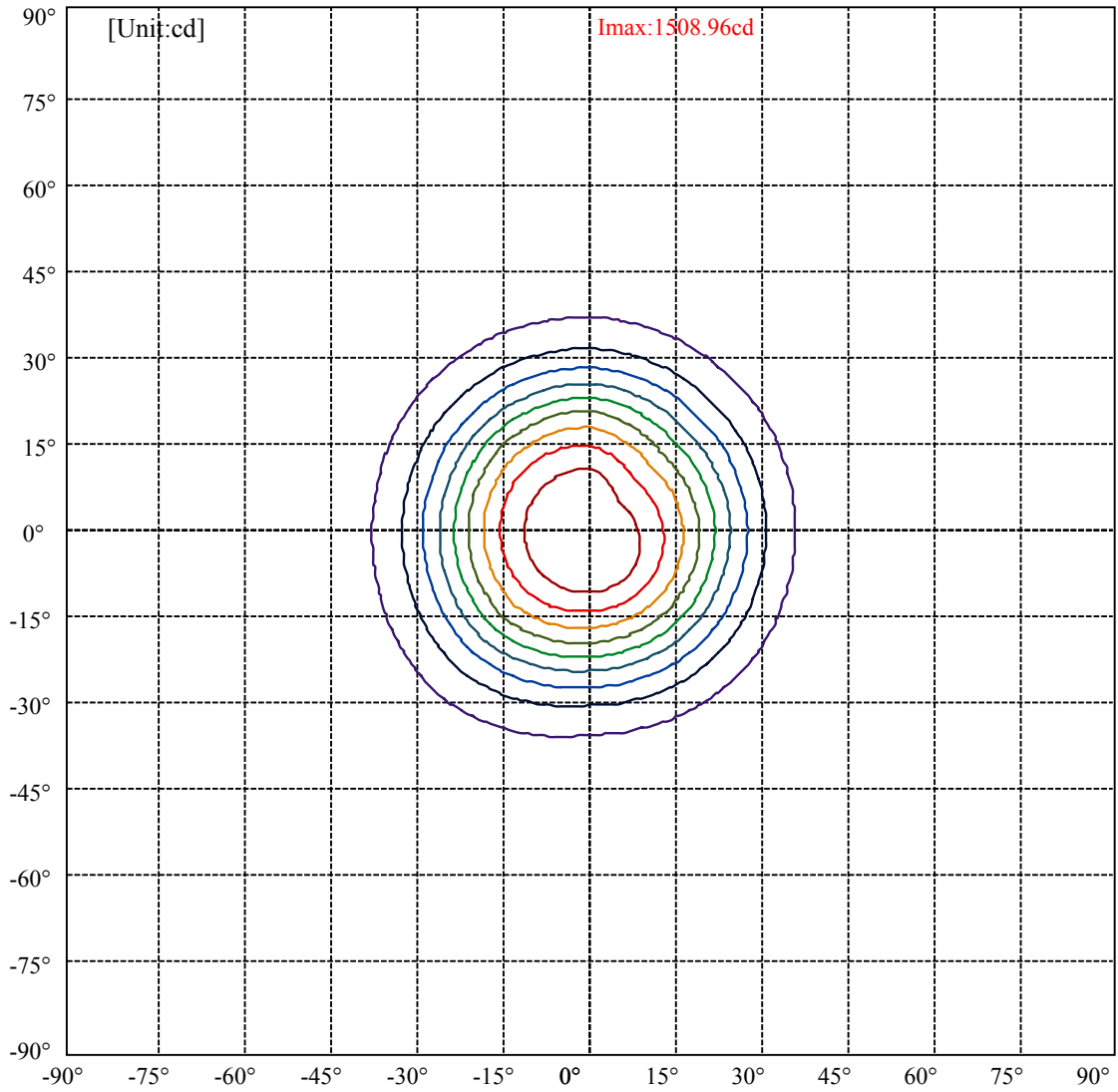
:C90/270Left:35.1 Right:36.7

Beam Angle(50%Imax):C0/180Left:23.3 Right:21.6

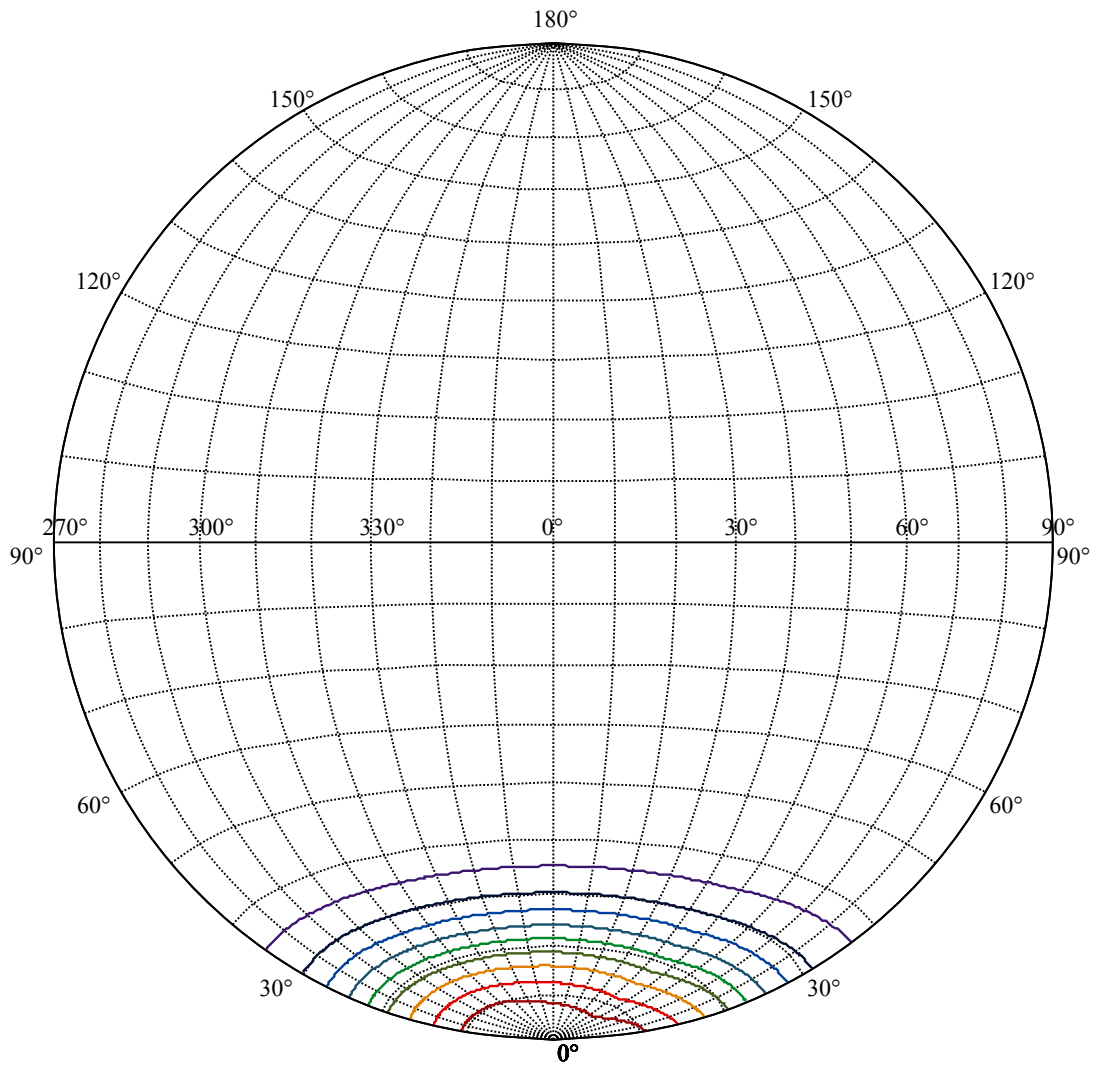
:C90/270Left:21.7 Right:22.8



Max , Ave      Beam angle of C0 plane 45.10



(10%Imax) 150.896	—
(20%Imax) 301.793	—
(30%Imax) 452.689	—
(40%Imax) 603.586	—
(50%Imax) 754.482	—
(60%Imax) 905.378	—
(70%Imax) 1056.27	—
(80%Imax) 1207.17	—
(90%Imax) 1358.07	—



House

[Unit:cd]

Road

**Imax:1508.96**

(10%Imax) 150.896	—
(20%Imax) 301.793	—
(30%Imax) 452.689	—
(40%Imax) 603.586	—
(50%Imax) 754.482	—
(60%Imax) 905.378	—
(70%Imax) 1056.27	—
(80%Imax) 1207.17	—
(90%Imax) 1358.07	—

LRG3-HO-4CCT-DTW-2700K

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	1508.96	1443.67	1312.72	1113.13	844.90	558.35	313.49	156.01	77.06
45.0	1508.96	1409.99	1271.87	1061.96	793.95	519.61	297.49	149.48	77.27
90.0	1508.96	1495.05	1384.30	1188.08	935.22	609.72	342.13	179.59	93.27
135.0	1508.96	1498.20	1389.35	1219.24	947.22	619.41	348.44	180.01	89.69
180.0	1508.96	1494.41	1401.36	1230.40	960.91	646.57	385.50	201.07	96.22
225.0	1508.96	1486.41	1406.41	1215.24	959.64	652.25	381.71	205.70	103.38
270.0	1508.96	1508.94	1388.93	1156.08	864.90	548.25	304.86	152.64	78.95
315.0	1508.96	1477.15	1367.67	1148.50	849.32	539.83	305.07	149.06	76.01
360.0	1508.96	1443.67	1312.72	1113.13	844.90	558.35	313.49	156.01	77.06
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	50.74	39.79	31.37	23.16	14.53	8.84	4.63	2.32	0.42
45.0	50.95	38.53	30.32	22.74	14.53	9.05	5.05	2.95	1.26
90.0	54.74	41.06	32.21	24.84	16.42	9.90	5.26	2.32	0.84
135.0	55.58	41.90	33.48	25.48	16.63	10.53	5.05	1.90	0.42
180.0	56.64	43.58	35.16	25.69	17.48	10.32	4.84	2.11	0.21
225.0	58.74	44.42	35.16	26.74	17.48	11.16	5.26	2.53	0.42
270.0	53.06	41.69	32.84	24.21	14.53	9.05	4.00	1.68	0.21
315.0	52.00	41.48	32.42	23.58	15.16	9.05	4.21	1.90	0.42
360.0	50.74	39.79	31.37	23.16	14.53	8.84	4.63	2.32	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	0.63	0.63	0.84	1.05	0.84	1.05
45.0	0.00	0.00	0.21	0.42	0.84	0.84	0.84	1.05	1.05
90.0	0.00	0.00	0.00	0.21	0.42	0.63	0.63	1.05	1.05
135.0	0.00	0.00	0.00	0.21	0.42	0.63	0.84	1.05	1.05
180.0	0.00	0.00	0.00	0.21	0.21	0.42	0.63	0.84	1.05
225.0	0.00	0.00	0.00	0.00	0.42	0.63	0.84	0.84	1.05
270.0	0.21	0.21	0.21	0.63	0.84	1.05	1.05	0.84	1.26
315.0	0.00	0.00	0.21	0.63	0.63	0.84	1.05	1.05	0.84
360.0	0.00	0.00	0.21	0.63	0.63	0.84	1.05	0.84	1.05
C/γ(°)	180.0								
0.0	1.10								
45.0	1.10								
90.0	1.10								
135.0	1.10								
180.0	1.10								
225.0	1.10								
270.0	1.10								
315.0	1.10								
360.0	1.10								