



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

LumCAT: LRG3-HO-4CCT-DTW-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.14

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.86

Number of Lamps: 1

PF: 0.9784

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 955.08, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 87.93

Central intensity(cd): 1520.776, Maximum intensity(cd): 1520.776

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

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

[C90/270]Total=43.8

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

[C90/270]Total=73.0

Maximum s/h(1/2): C0\_180=0.75 C90\_270=0.73

Maximum s/h(1/4): C0\_180=0.73 C90\_270=0.72

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 : 97.506%

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

Date:  
Humidity(%): 58%

Operator: Sam

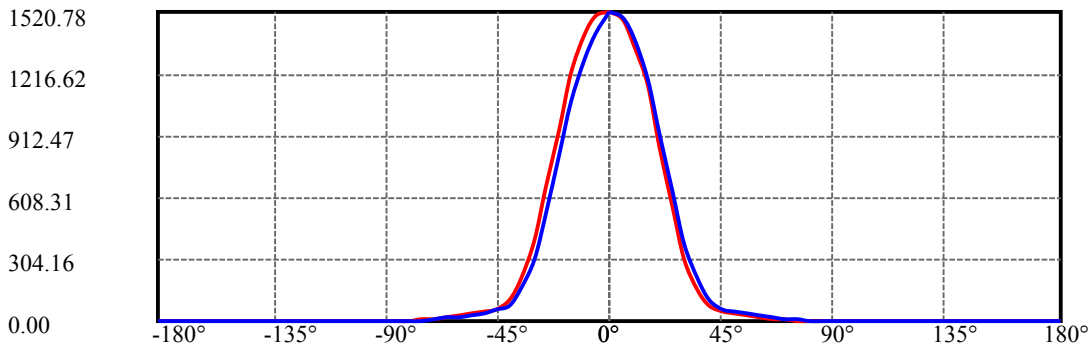
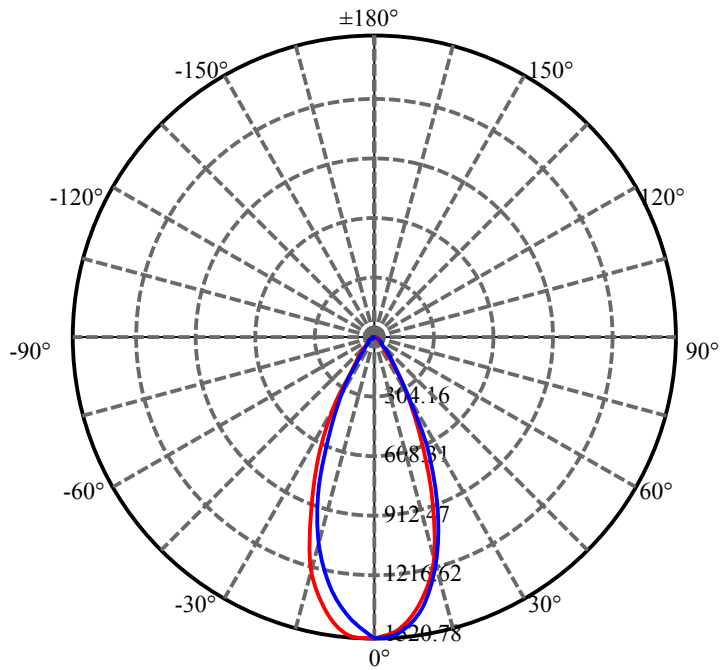
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1520.776	0.000	0	0.00%	0.00%
5.0	1480.643	35.881	35.881	0.00%	3.76%
10.0	1365.564	101.818	137.699	0.00%	14.42%
15.0	1173.662	150.625	288.324	0.00%	30.19%
20.0	898.762	170.797	459.121	0.00%	48.07%
25.0	596.251	156.799	615.92	0.00%	64.49%
30.0	342.280	118.772	734.692	0.00%	76.92%
35.0	177.003	76.468	811.16	0.00%	84.93%
40.0	87.973	44.209	855.369	0.00%	89.56%
45.0	55.124	26.496	881.865	0.00%	92.33%
50.0	42.077	19.641	901.506	0.00%	94.39%
55.0	33.161	16.359	917.865	0.00%	96.10%
60.0	24.775	13.392	931.257	0.00%	97.51%
65.0	16.244	9.972	941.228	0.00%	98.55%
70.0	9.828	6.602	947.83	0.00%	99.24%
75.0	4.758	3.813	951.643	0.00%	99.64%
80.0	2.139	1.845	953.488	0.00%	99.83%
85.0	0.553	0.731	954.219	0.00%	99.91%
90.0	0.024	0.158	954.377	0.00%	99.93%
95.0	0.000	0.007	954.384	0.00%	99.93%
100.0	0.000	0.000	954.384	0.00%	99.93%
105.0	0.000	0.000	954.384	0.00%	99.93%
110.0	0.000	0.000	954.384	0.00%	99.93%
115.0	0.000	0.000	954.384	0.00%	99.93%
120.0	0.000	0.000	954.384	0.00%	99.93%
125.0	0.000	0.000	954.384	0.00%	99.93%
130.0	0.024	0.005	954.389	0.00%	99.93%
135.0	0.000	0.005	954.394	0.00%	99.93%
140.0	0.072	0.013	954.407	0.00%	99.93%
145.0	0.120	0.032	954.439	0.00%	99.93%
150.0	0.384	0.074	954.514	0.00%	99.94%
155.0	0.481	0.109	954.623	0.00%	99.95%
160.0	0.697	0.123	954.746	0.00%	99.97%
165.0	0.841	0.127	954.873	0.00%	99.98%
170.0	0.961	0.107	954.98	0.00%	99.99%
175.0	0.985	0.070	955.05	0.00%	100.00%
180.0	1.196	0.026	955.076	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	734.69	N.A.	76.92%
0-40	855.37	N.A.	89.56%
0-60	931.26	N.A.	97.51%
0-90	954.38	N.A.	99.93%
0-120	954.38	N.A.	99.93%
0-180	955.08	N.A.	100.00%
60-90	23.12	N.A.	2.42%
90-120	0.01	N.A.	0.00%
90-130	0.01	N.A.	0.00%
90-150	0.14	N.A.	0.01%
90-180	0.67	N.A.	0.07%
0-31.92	764.06	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	137.70
10-20	321.42
20-30	275.57
30-40	120.68
40-50	46.14
50-60	29.75
60-70	16.57
70-80	5.66
80-90	0.89
90-100	0.01
100-110	0.00
110-120	0.00
120-130	0.01
130-140	0.02
140-150	0.11
150-160	0.23
160-170	0.23
170-180	0.07



C0/C180: —

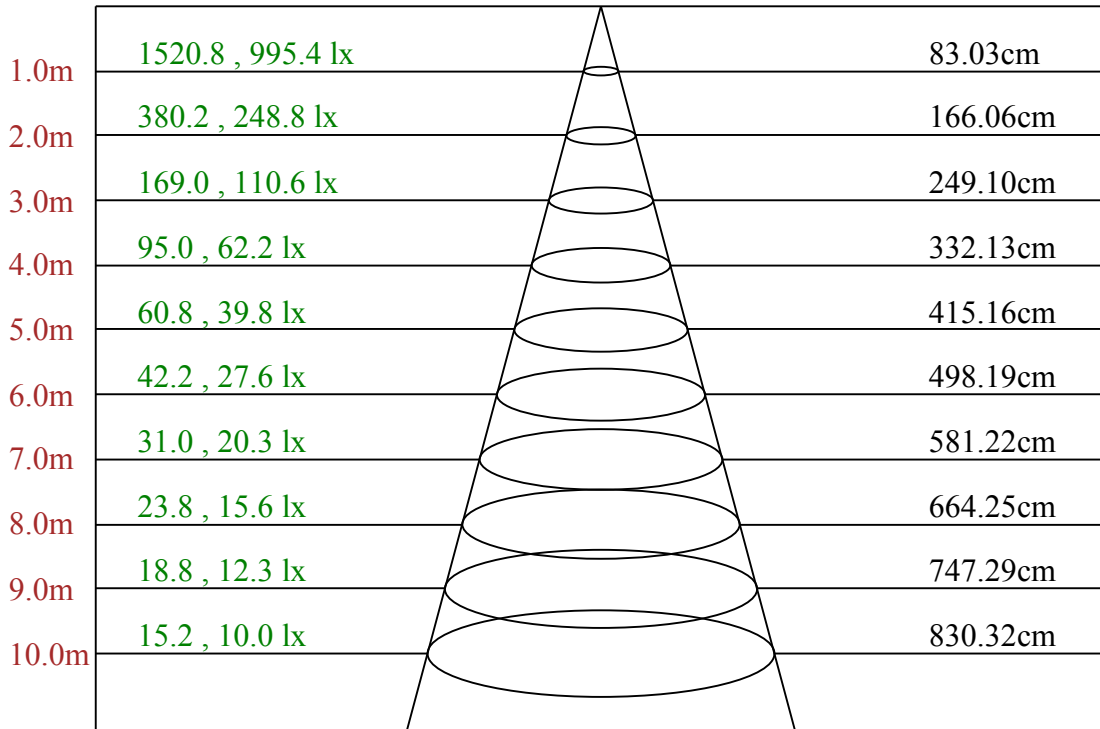
C90/C270: —

Field angle(10%Imax):C0/180Left:37.7 Right:35.2

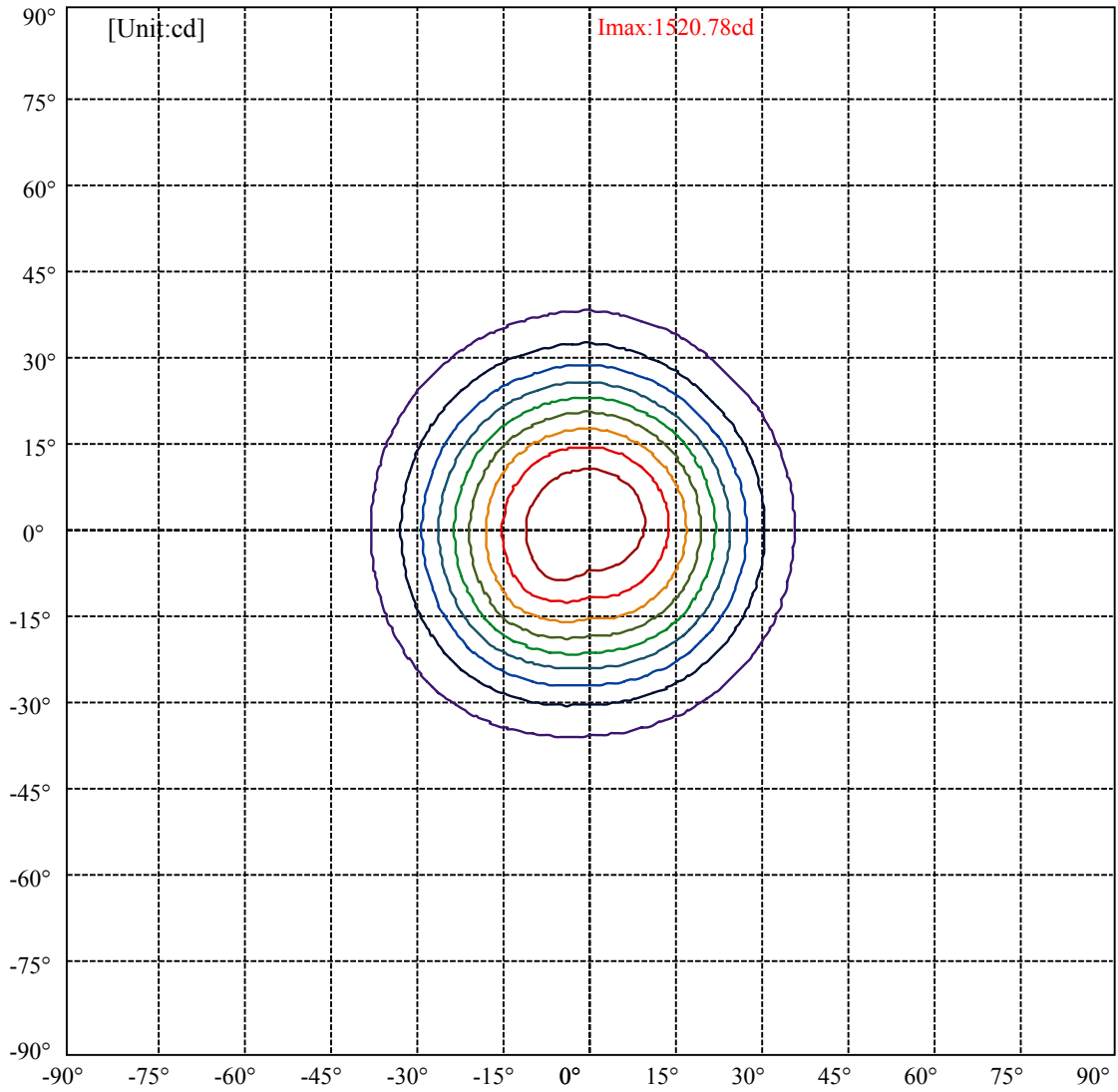
:C90/270Left:35.3 Right:37.7

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

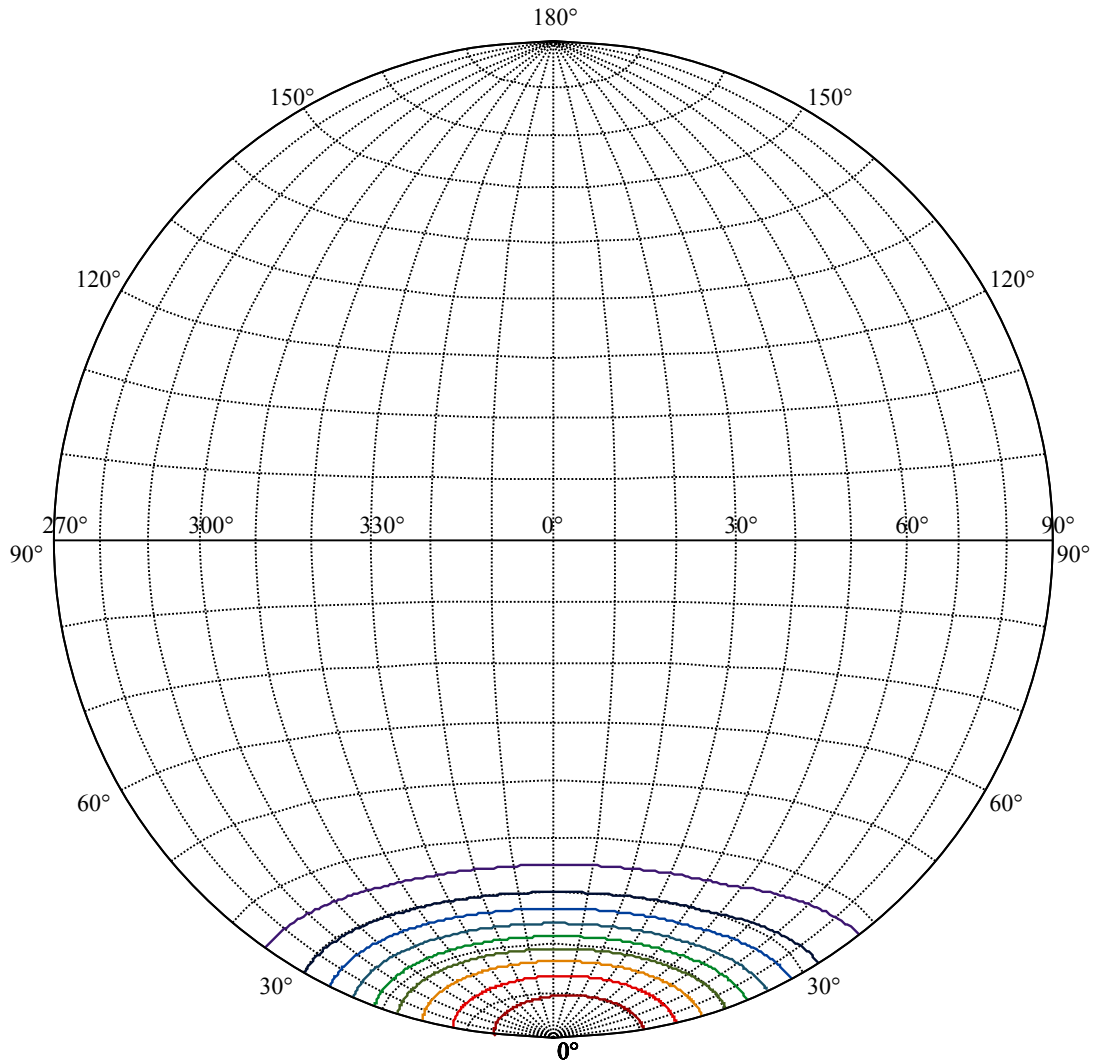
:C90/270Left:21.0 Right:22.8



Max , Ave      Beam angle of C0 plane 45.09



(10%Imax) 152.078	—
(20%Imax) 304.155	—
(30%Imax) 456.233	—
(40%Imax) 608.31	—
(50%Imax) 760.388	—
(60%Imax) 912.466	—
(70%Imax) 1064.54	—
(80%Imax) 1216.62	—
(90%Imax) 1368.7	—



House

[Unit:cd]

Road

Imax:1520.78

(10%Imax)	152.078	—
(20%Imax)	304.155	—
(30%Imax)	456.233	—
(40%Imax)	608.31	—
(50%Imax)	760.388	—
(60%Imax)	912.466	—
(70%Imax)	1064.54	—
(80%Imax)	1216.62	—
(90%Imax)	1368.7	—

LRG3-HO-4CCT-DTW-5000K

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	1520.78	1478.89	1352.59	1165.35	855.65	554.61	305.66	155.14	74.59
45.0	1520.78	1502.73	1378.54	1175.92	877.18	552.11	304.51	151.10	75.93
90.0	1520.78	1492.92	1388.73	1187.46	927.36	630.35	375.83	207.62	105.92
135.0	1520.78	1493.11	1394.11	1214.95	944.27	643.81	379.48	196.66	95.35
180.0	1520.78	1505.61	1405.84	1218.21	948.50	659.38	397.36	210.50	100.93
225.0	1520.78	1518.49	1409.11	1225.13	978.30	655.15	380.25	197.81	101.50
270.0	1520.78	1415.26	1282.04	1077.30	818.74	528.66	300.66	156.67	79.39
315.0	1520.78	1438.13	1313.56	1124.98	840.08	545.96	294.51	140.53	70.17
360.0	1520.78	1478.89	1352.59	1165.35	855.65	554.61	305.66	155.14	74.59

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	50.56	39.99	31.34	22.30	14.03	7.88	3.65	1.54	0.19
45.0	51.52	40.76	31.72	22.88	14.23	8.46	4.04	1.54	0.38
90.0	59.98	45.75	36.14	27.88	18.07	10.96	5.19	2.31	0.38
135.0	58.44	44.79	35.76	27.30	18.46	11.73	5.19	2.50	0.58
180.0	59.59	44.02	34.80	26.91	18.65	11.15	5.77	2.69	0.77
225.0	58.44	42.68	33.64	26.53	18.26	11.34	6.15	3.27	1.35
270.0	52.29	39.22	30.76	22.30	14.23	8.65	4.23	1.73	0.58
315.0	50.17	39.41	31.14	22.11	14.03	8.46	3.85	1.54	0.19
360.0	50.56	39.99	31.34	22.30	14.03	7.88	3.65	1.54	0.19

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	0.19
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	0.19	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	0.19

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	0.19	0.58	0.58	0.77	0.96	1.15	1.15
45.0	0.00	0.19	0.19	0.38	0.58	0.77	0.96	1.35	0.77
90.0	0.00	0.00	0.00	0.38	0.19	0.58	0.96	0.77	1.15
135.0	0.00	0.00	0.00	0.19	0.38	0.58	0.58	0.96	0.96
180.0	0.00	0.00	0.00	0.19	0.38	0.58	0.77	0.77	0.77
225.0	0.00	0.00	0.00	0.19	0.38	0.58	0.77	0.77	0.77
270.0	0.00	0.19	0.38	0.58	0.77	0.96	1.15	1.15	1.15
315.0	0.00	0.19	0.19	0.58	0.58	0.77	0.58	0.77	1.15
360.0	0.00	0.00	0.19	0.58	0.58	0.77	0.96	1.15	1.15

C/γ(°)	180.0
0.0	1.20
45.0	1.20
90.0	1.20
135.0	1.20
180.0	1.20
225.0	1.20
270.0	1.20
315.0	1.20
360.0	1.20