



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

LumCAT: LRG3-HO-5CCT-4RSL-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.81

Number of Lamps: 0

PF: 0.9778

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 947.70, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 87.69

Central intensity(cd): 417.054, Maximum intensity(cd): 1593.061

Angle of maximum intensity: C=0.0  $\gamma$ =25.0

Beam Angle(50%Imax): [C0/180]Total=57.0

[C90/270]Total=34.7

Field angle(10%Imax): [C0/180]Total=70.2

[C90/270]Total=87.1

Maximum s/h(1/2): C0\_180=0.17 C90\_270=0.57

Maximum s/h(1/4): C0\_180=0.22 C90\_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.05%

Down flux rate of LUM(%): 99.95%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.299%

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

Date:  
Humidity(%): 59%

Operator: Tester

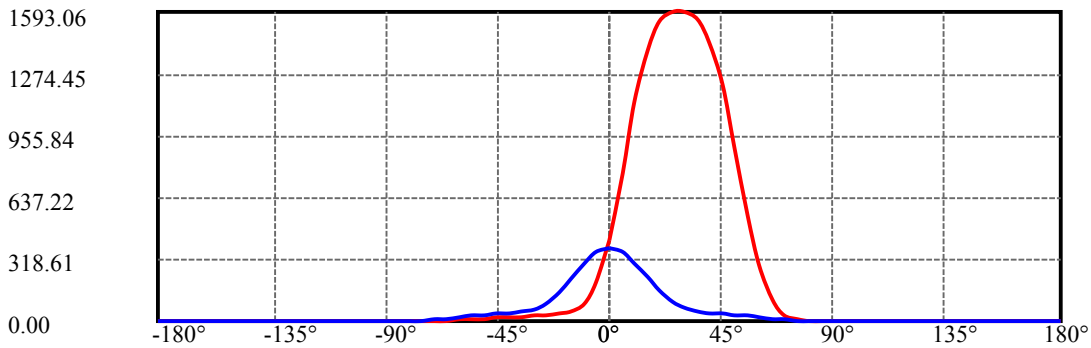
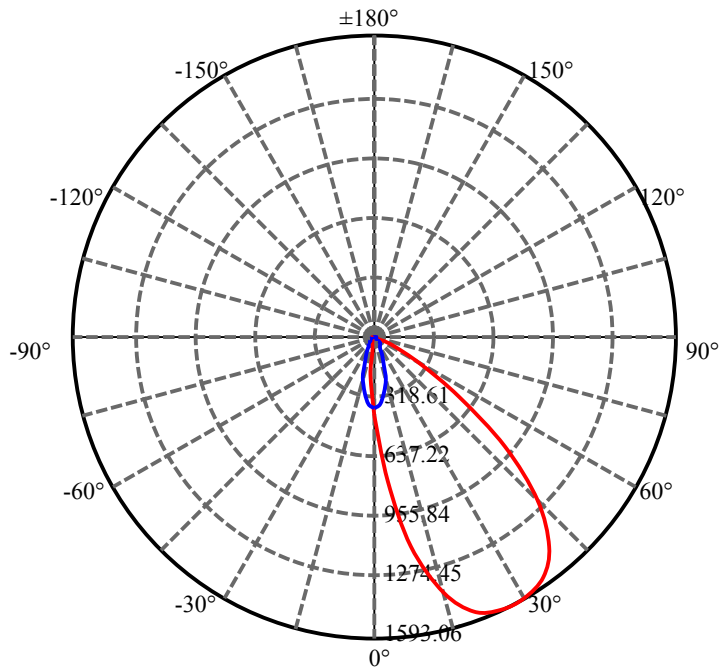
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	400.435	0.000	0	0.00%	0.00%
5.0	416.101	9.761	9.761	0.00%	1.03%
10.0	450.979	31.018	40.78	0.00%	4.30%
15.0	480.644	55.263	96.043	0.00%	10.13%
20.0	487.763	79.810	175.853	0.00%	18.56%
25.0	469.530	100.402	276.256	0.00%	29.15%
30.0	435.260	114.502	390.757	0.00%	41.23%
35.0	386.040	120.942	511.7	0.00%	53.99%
40.0	322.344	118.188	629.888	0.00%	66.46%
45.0	245.575	105.155	735.043	0.00%	77.56%
50.0	167.959	83.561	818.603	0.00%	86.38%
55.0	99.738	58.206	876.81	0.00%	92.52%
60.0	55.228	35.820	912.63	0.00%	96.30%
65.0	24.902	19.480	932.109	0.00%	98.35%
70.0	10.479	8.959	941.068	0.00%	99.30%
75.0	4.922	4.026	945.094	0.00%	99.72%
80.0	1.588	1.742	946.836	0.00%	99.91%
85.0	0.000	0.431	947.267	0.00%	99.95%
90.0	0.000	0.000	947.267	0.00%	99.95%
95.0	0.027	0.007	947.274	0.00%	99.95%
100.0	0.000	0.007	947.281	0.00%	99.96%
105.0	0.000	0.000	947.281	0.00%	99.96%
110.0	0.000	0.000	947.281	0.00%	99.96%
115.0	0.000	0.000	947.281	0.00%	99.96%
120.0	0.000	0.000	947.281	0.00%	99.96%
125.0	0.027	0.006	947.288	0.00%	99.96%
130.0	0.027	0.012	947.299	0.00%	99.96%
135.0	0.106	0.027	947.326	0.00%	99.96%
140.0	0.106	0.039	947.365	0.00%	99.96%
145.0	0.212	0.053	947.418	0.00%	99.97%
150.0	0.265	0.070	947.488	0.00%	99.98%
155.0	0.238	0.064	947.552	0.00%	99.98%
160.0	0.238	0.050	947.602	0.00%	99.99%
165.0	0.291	0.044	947.645	0.00%	99.99%
170.0	0.291	0.035	947.68	0.00%	100.00%
175.0	0.212	0.018	947.698	0.00%	100.00%
180.0	0.318	0.006	947.704	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	390.76	N.A.	41.23%
0-40	629.89	N.A.	66.46%
0-60	912.63	N.A.	96.30%
0-90	947.27	N.A.	99.95%
0-120	947.28	N.A.	99.96%
0-180	947.70	N.A.	100.00%
60-90	34.64	N.A.	3.65%
90-120	0.01	N.A.	0.00%
90-130	0.03	N.A.	0.00%
90-150	0.22	N.A.	0.02%
90-180	0.43	N.A.	0.05%
0-46.38	758.16	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	40.78
10-20	135.07
20-30	214.90
30-40	239.13
40-50	188.72
50-60	94.03
60-70	28.44
70-80	5.77
80-90	0.43
90-100	0.01
100-110	0.00
110-120	0.00
120-130	0.02
130-140	0.07
140-150	0.12
150-160	0.11
160-170	0.08
170-180	0.02



C0/C180: —

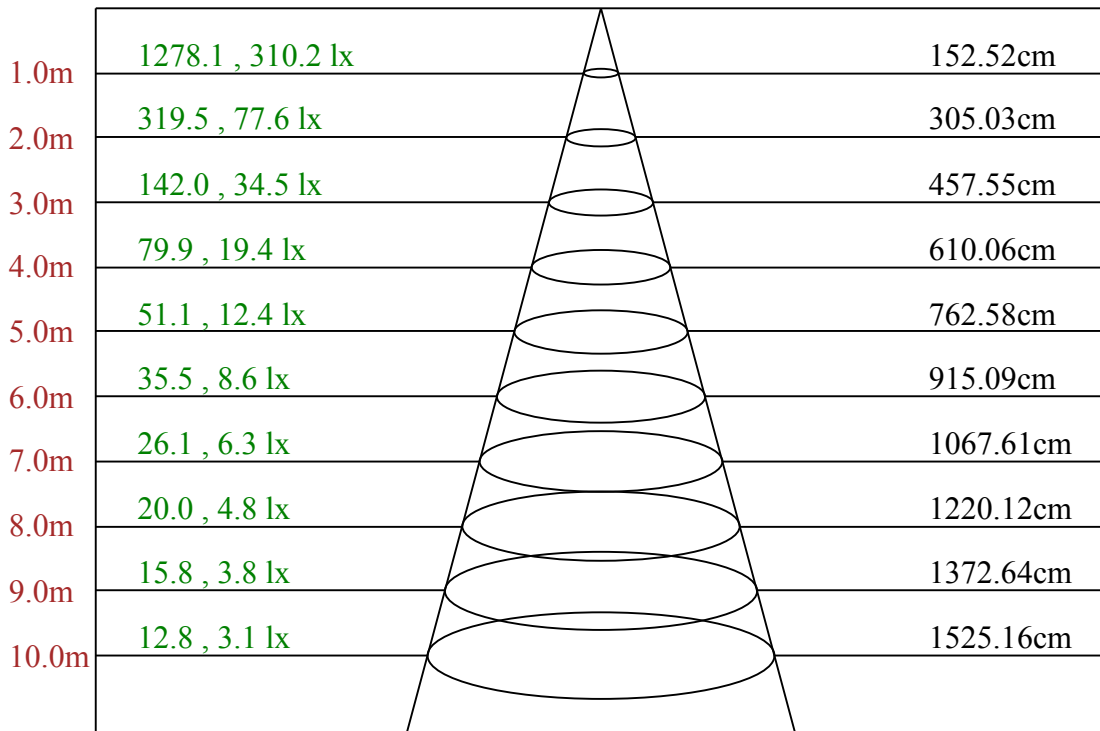
C90/C270: —

Field angle(10%Imax):C0/180Left:6.7 Right:63.5

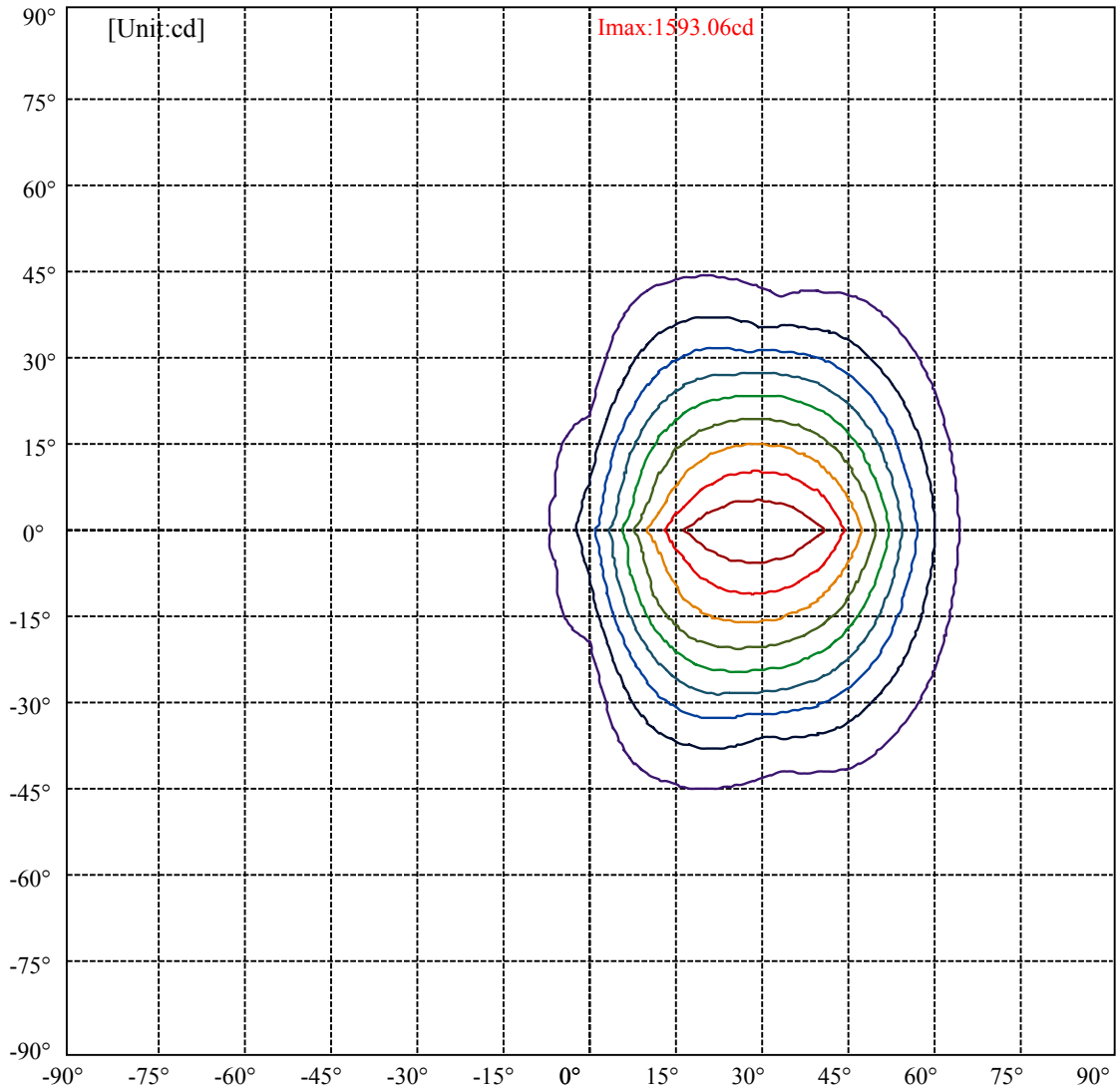
:C90/270Left:44.0 Right:43.1

Beam Angle(50%Imax):C0/180Left:5.5 Right:51.5

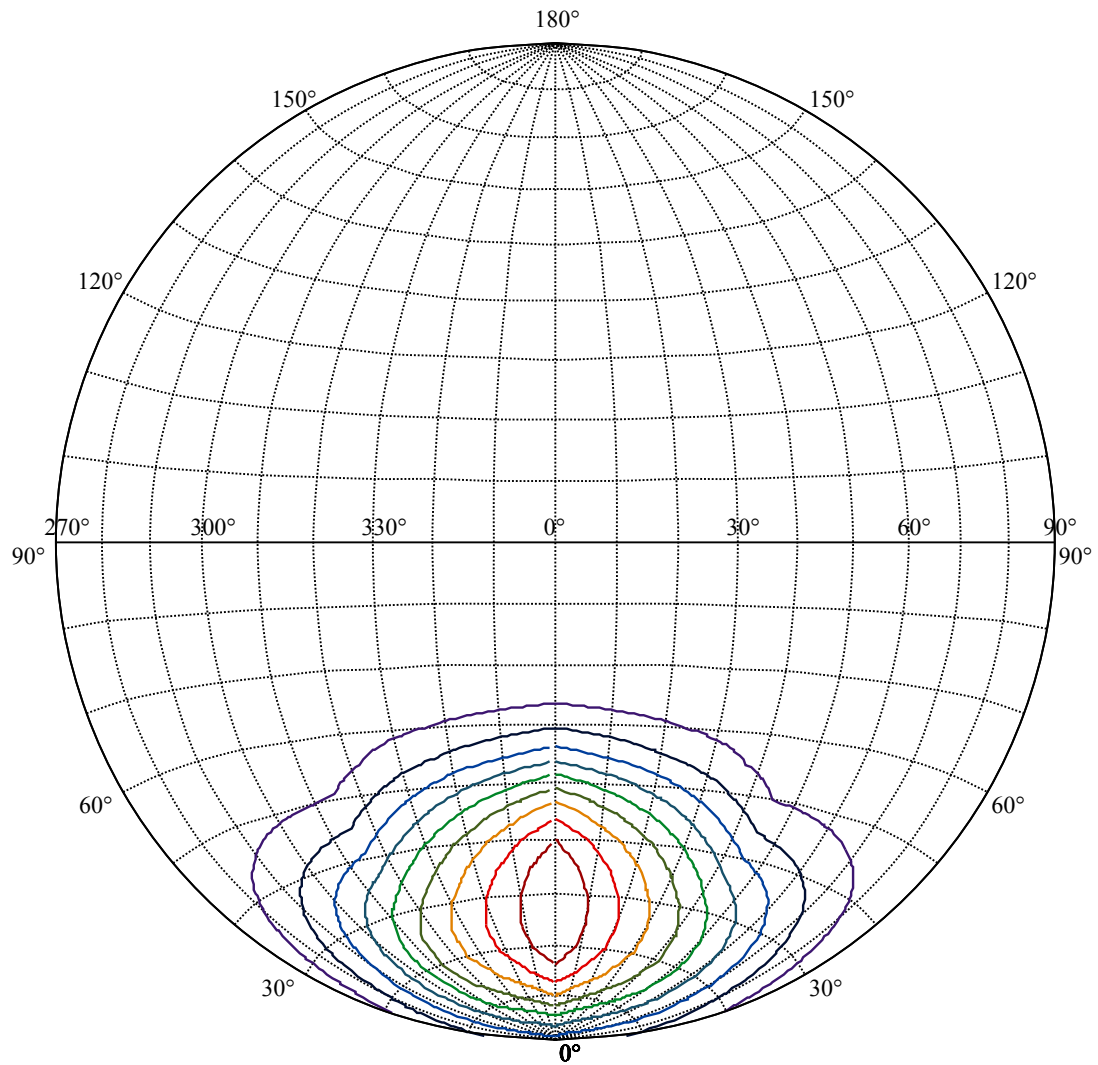
:C90/270Left:17.1 Right:17.6



Max , Ave      Beam angle of C0 plane 74.66



(10%Imax) 159.306	—
(20%Imax) 318.612	—
(30%Imax) 477.918	—
(40%Imax) 637.224	—
(50%Imax) 796.531	—
(60%Imax) 955.837	—
(70%Imax) 1115.14	—
(80%Imax) 1274.45	—
(90%Imax) 1433.75	—



House

[Unit:cd]

Road

**Imax:1593.06**

(10%Imax) 159.306	—
(20%Imax) 318.612	—
(30%Imax) 477.918	—
(40%Imax) 637.224	—
(50%Imax) 796.531	—
(60%Imax) 955.837	—
(70%Imax) 1115.14	—
(80%Imax) 1274.45	—
(90%Imax) 1433.75	—

LRG3-HO-5CCT-4RSL-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	417.05	760.01	1124.56	1398.51	1540.35	1593.06	1592.43	1549.66	1439.15
45.0	388.47	570.75	747.73	877.08	923.45	892.54	800.02	652.04	476.33
90.0	380.43	356.30	298.50	227.37	157.08	99.92	64.78	48.90	41.71
135.0	415.78	238.17	122.79	63.30	45.09	37.47	33.03	28.79	24.35
180.0	417.05	199.00	84.26	49.75	40.44	34.51	29.22	24.35	19.90
225.0	388.47	229.06	117.71	61.39	46.15	39.38	34.51	29.43	24.35
270.0	380.43	354.60	297.44	221.65	146.08	88.70	58.85	47.85	41.92
315.0	415.78	620.92	814.84	946.10	1003.47	970.66	869.25	707.30	511.05
360.0	417.05	760.01	1124.56	1398.51	1540.35	1593.06	1592.43	1549.66	1439.15

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1216.02	901.43	549.16	286.86	104.58	25.40	13.34	4.87	0.00
45.0	297.44	157.93	74.94	46.58	28.58	18.84	8.26	2.75	0.00
90.0	35.78	31.12	26.46	21.17	13.97	7.83	3.39	0.64	0.00
135.0	19.90	15.88	12.28	8.26	4.45	2.54	1.69	0.21	0.00
180.0	15.24	12.07	8.68	5.29	3.60	2.75	1.48	0.64	0.00
225.0	19.48	15.45	12.07	7.62	4.02	2.33	1.27	0.42	0.00
270.0	37.05	31.97	25.62	18.00	11.43	5.72	1.69	0.85	0.00
315.0	323.69	177.83	88.70	48.06	28.58	18.42	8.26	2.33	0.00
360.0	1216.02	901.43	549.16	286.86	104.58	25.40	13.34	4.87	0.00

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	0.21
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.21	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	0.00	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	0.21	0.42
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	0.21	0.21	0.21	0.21
180.0	0.42	0.42	0.64	0.85	0.85	0.64	0.64	0.64	0.00
225.0	0.42	0.42	0.64	1.06	0.85	0.85	0.64	0.64	0.64
270.0	0.00	0.00	0.42	0.21	0.21	0.21	0.85	0.64	0.42
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(°)	180.0
0.0	0.21
45.0	0.42
90.0	0.42
135.0	0.21
180.0	0.21
225.0	0.42
270.0	0.42
315.0	0.21
360.0	0.21