



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

LumCAT: LSG3-HO-5CCT-5SSL-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.0900

Lamp flux(lm): -1.0

Power (W): 10.50

Number of Lamps: 0

PF: 0.9741

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 963.09, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 91.77

Central intensity(cd): 574.349, Maximum intensity(cd): 1712.885

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

Beam Angle(50%Imax): [C0/180]Total=51.1

[C90/270]Total=37.5

Field angle(10%Imax): [C0/180]Total=64.5

[C90/270]Total=90.7

Maximum s/h(1/2): C0\_180=0.20 C90\_270=0.59

Maximum s/h(1/4): C0\_180=0.26 C90\_270=0.62

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.06%

Down flux rate of LUM(%): 99.94%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.018%

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

Date:  
Humidity(%): 59%

Operator: Tester

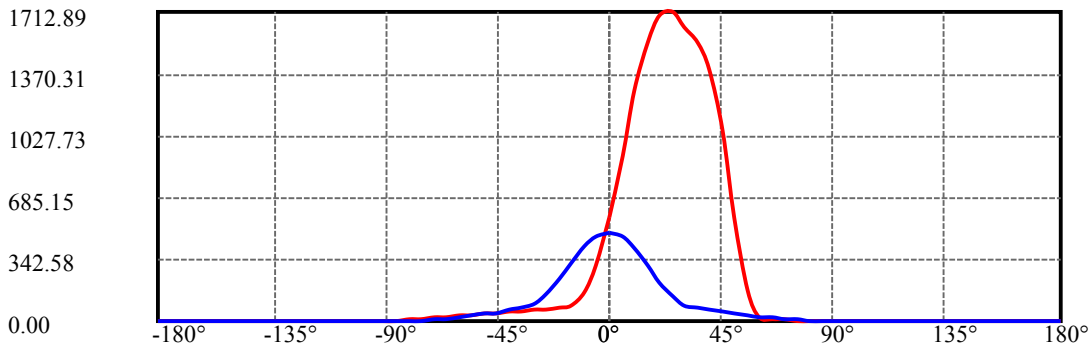
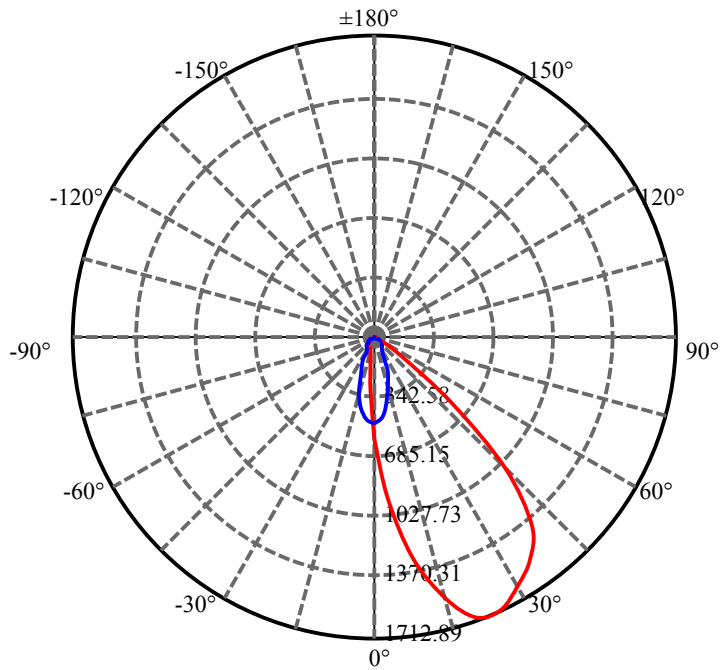
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	538.677	0.000	0	0.00%	0.00%
5.0	546.060	12.968	12.968	0.00%	1.35%
10.0	564.134	39.715	52.683	0.00%	5.47%
15.0	573.238	67.468	120.151	0.00%	12.48%
20.0	564.955	93.803	213.954	0.00%	22.22%
25.0	529.203	114.757	328.711	0.00%	34.13%
30.0	468.048	126.203	454.914	0.00%	47.23%
35.0	396.995	127.384	582.298	0.00%	60.46%
40.0	320.491	119.707	702.005	0.00%	72.89%
45.0	228.057	101.568	803.573	0.00%	83.44%
50.0	129.879	72.326	875.899	0.00%	90.95%
55.0	54.011	39.984	915.883	0.00%	95.10%
60.0	25.987	18.491	934.374	0.00%	97.02%
65.0	17.730	10.628	945.002	0.00%	98.12%
70.0	11.935	7.511	952.513	0.00%	98.90%
75.0	7.277	5.022	957.535	0.00%	99.42%
80.0	4.049	3.031	960.565	0.00%	99.74%
85.0	1.535	1.517	962.082	0.00%	99.90%
90.0	0.132	0.456	962.539	0.00%	99.94%
95.0	0.000	0.036	962.575	0.00%	99.95%
100.0	0.000	0.000	962.575	0.00%	99.95%
105.0	0.000	0.000	962.575	0.00%	99.95%
110.0	0.000	0.000	962.575	0.00%	99.95%
115.0	0.000	0.000	962.575	0.00%	99.95%
120.0	0.000	0.000	962.575	0.00%	99.95%
125.0	0.000	0.000	962.575	0.00%	99.95%
130.0	0.027	0.006	962.581	0.00%	99.95%
135.0	0.079	0.021	962.602	0.00%	99.95%
140.0	0.159	0.044	962.646	0.00%	99.95%
145.0	0.265	0.071	962.717	0.00%	99.96%
150.0	0.318	0.086	962.803	0.00%	99.97%
155.0	0.318	0.080	962.883	0.00%	99.98%
160.0	0.344	0.069	962.953	0.00%	99.99%
165.0	0.344	0.057	963.009	0.00%	99.99%
170.0	0.397	0.044	963.053	0.00%	100.00%
175.0	0.423	0.029	963.083	0.00%	100.00%
180.0	0.476	0.011	963.093	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	454.91	N.A.	47.23%
0-40	702.00	N.A.	72.89%
0-60	934.37	N.A.	97.02%
0-90	962.54	N.A.	99.94%
0-120	962.58	N.A.	99.95%
0-180	963.09	N.A.	100.00%
60-90	28.16	N.A.	2.92%
90-120	0.04	N.A.	0.00%
90-130	0.04	N.A.	0.00%
90-150	0.26	N.A.	0.03%
90-180	0.54	N.A.	0.06%
0-43.37	770.47	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	52.68
10-20	161.27
20-30	240.96
30-40	247.09
40-50	173.89
50-60	58.47
60-70	18.14
70-80	8.05
80-90	1.97
90-100	0.04
100-110	0.00
110-120	0.00
120-130	0.01
130-140	0.07
140-150	0.16
150-160	0.15
160-170	0.10
170-180	0.03



C0/C180: —

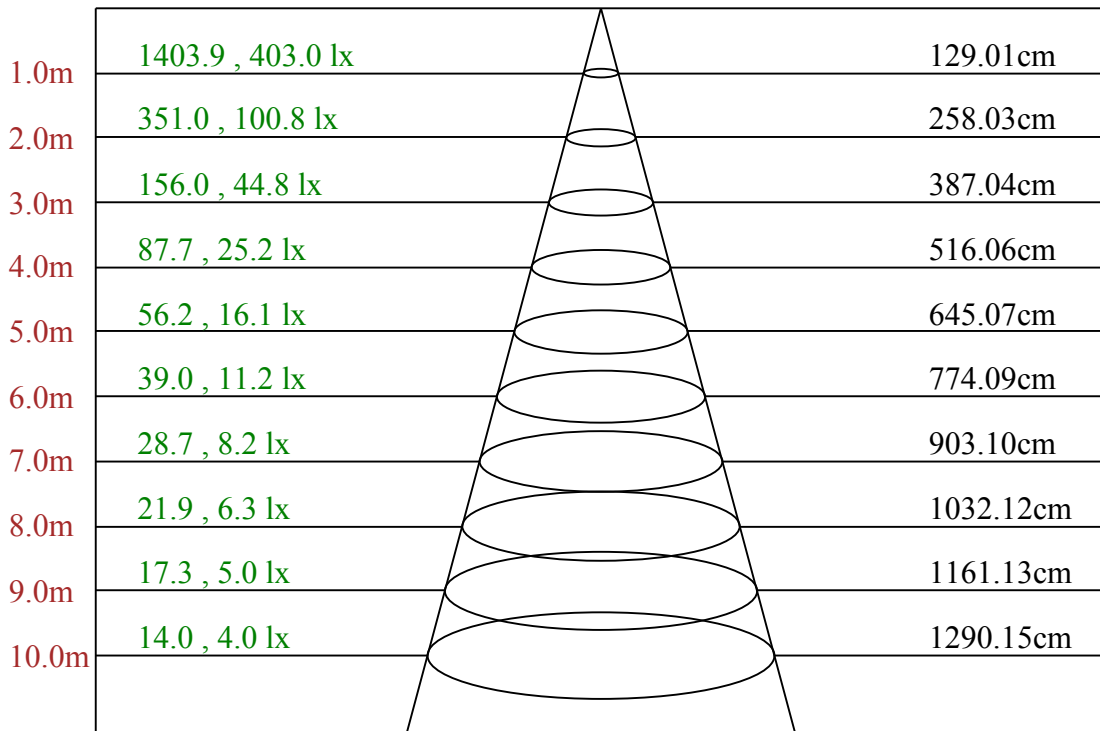
C90/C270: —

Field angle(10%Imax):C0/180Left:9.5 Right:55.0

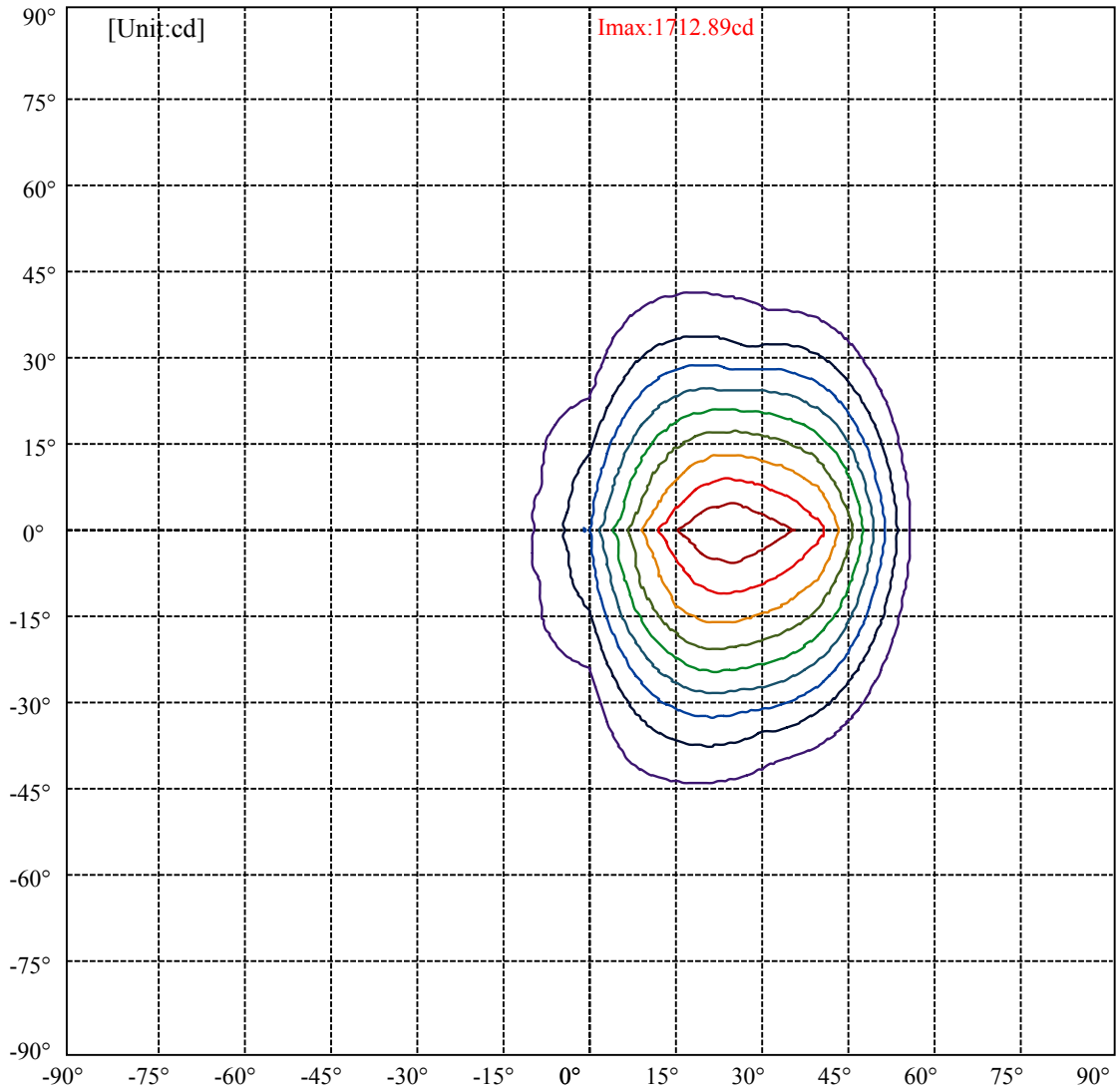
:C90/270Left:44.3 Right:46.4

Beam Angle(50%Imax):C0/180Left:4.1 Right:47.0

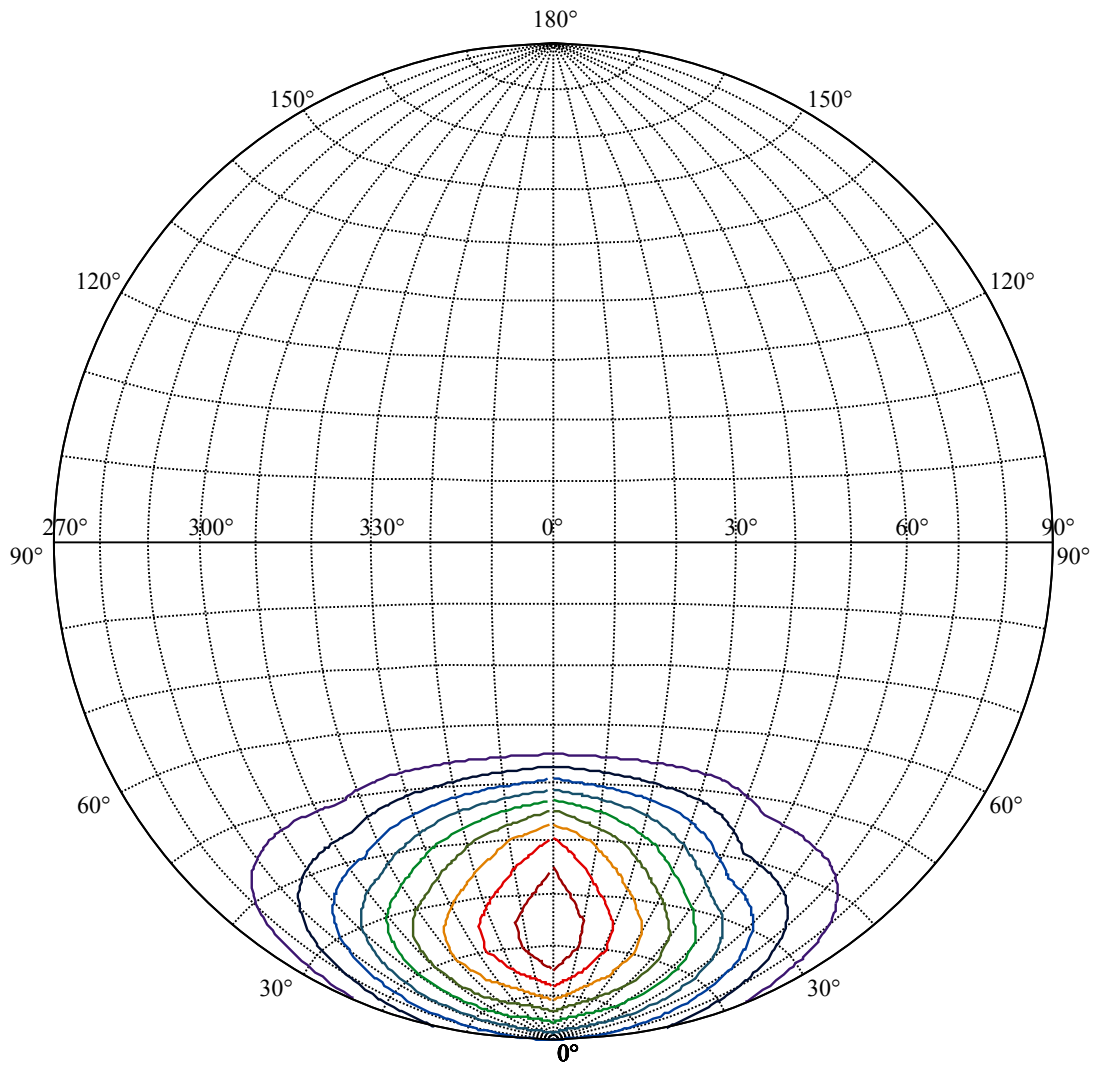
:C90/270Left:19.2 Right:18.3



Max , Ave      Beam angle of C0 plane 65.65



(10%Imax)	171.288	—
(20%Imax)	342.577	—
(30%Imax)	513.865	—
(40%Imax)	685.154	—
(50%Imax)	856.443	—
(60%Imax)	1027.73	—
(70%Imax)	1199.02	—
(80%Imax)	1370.31	—
(90%Imax)	1541.6	—



House

[Unit:cd]

Road

**Imax:1712.89**

(10%Imax) 171.288	—
(20%Imax) 342.577	—
(30%Imax) 513.865	—
(40%Imax) 685.154	—
(50%Imax) 856.443	—
(60%Imax) 1027.73	—
(70%Imax) 1199.02	—
(80%Imax) 1370.31	—
(90%Imax) 1541.6	—

LSG3-HO-5CCT-5SSL-3500K

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	574.35	920.06	1272.33	1539.71	1691.93	1712.89	1628.20	1543.74	1391.31
45.0	537.09	730.16	891.69	988.65	999.87	933.19	781.18	570.54	368.57
90.0	492.21	464.05	400.54	306.97	214.03	136.34	88.70	69.44	60.12
135.0	551.06	346.98	195.83	111.78	80.02	71.13	64.99	59.28	53.14
180.0	574.35	310.78	156.66	89.97	74.94	67.96	62.24	56.53	50.81
225.0	537.09	351.64	211.91	122.15	83.41	71.77	64.78	58.01	50.60
270.0	492.21	473.16	410.07	323.27	231.81	149.46	95.69	70.92	59.70
315.0	551.06	771.66	974.04	1103.39	1143.62	1090.90	958.59	747.52	529.68
360.0	574.35	920.06	1272.33	1539.71	1691.93	1712.89	1628.20	1543.74	1391.31

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1048.77	573.08	171.48	26.46	15.45	7.83	1.91	0.64	0.00
45.0	221.23	118.13	49.33	30.27	17.15	9.32	4.02	1.69	0.21
90.0	51.87	42.55	34.08	23.71	17.15	11.43	7.20	3.60	1.27
135.0	47.00	41.07	35.78	29.22	22.02	17.36	12.28	6.99	2.54
180.0	45.73	40.44	33.24	28.79	24.77	19.90	14.40	8.89	4.23
225.0	44.03	37.47	32.39	26.89	19.05	14.61	9.95	5.29	1.91
270.0	47.42	37.47	27.10	18.00	11.64	7.41	4.45	2.75	0.85
315.0	318.40	148.83	48.69	24.56	14.61	7.62	4.02	2.54	1.27
360.0	1048.77	573.08	171.48	26.46	15.45	7.83	1.91	0.64	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	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.85	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	0.21	0.21
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.64	0.64
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
135.0	0.00	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.42
180.0	0.64	0.64	0.85	1.06	1.06	0.85	0.85	0.64	0.64
225.0	0.00	0.42	0.85	1.06	1.06	1.27	1.06	0.64	0.85
270.0	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.21	0.21
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.42
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21

C/γ(°)	180.0
0.0	0.42
45.0	0.85
90.0	0.42
135.0	0.21
180.0	0.42
225.0	0.85
270.0	0.42
315.0	0.21
360.0	0.42