



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

LumCAT: LSG3-HO-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.0910

Lamp flux(lm): -1.0

Power (W): 10.69

Number of Lamps: 0

PF: 0.9749

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 939.46, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 87.87

Central intensity(cd): 1379.877, Maximum intensity(cd): 1419.254

Angle of maximum intensity: C=180.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=45.7

[C90/270]Total=45.0

Field angle(10%Imax): [C0/180]Total=73.6

[C90/270]Total=72.9

Maximum s/h(1/2): C0\_180=0.84 C90\_270=0.76

Maximum s/h(1/4): C0\_180=0.79 C90\_270=0.73

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.855%

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

Date:  
Humidity(%): 59%

Operator: Tester

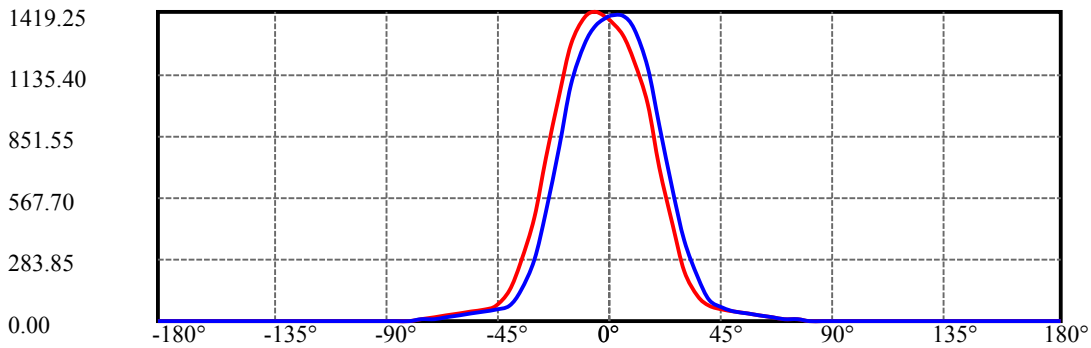
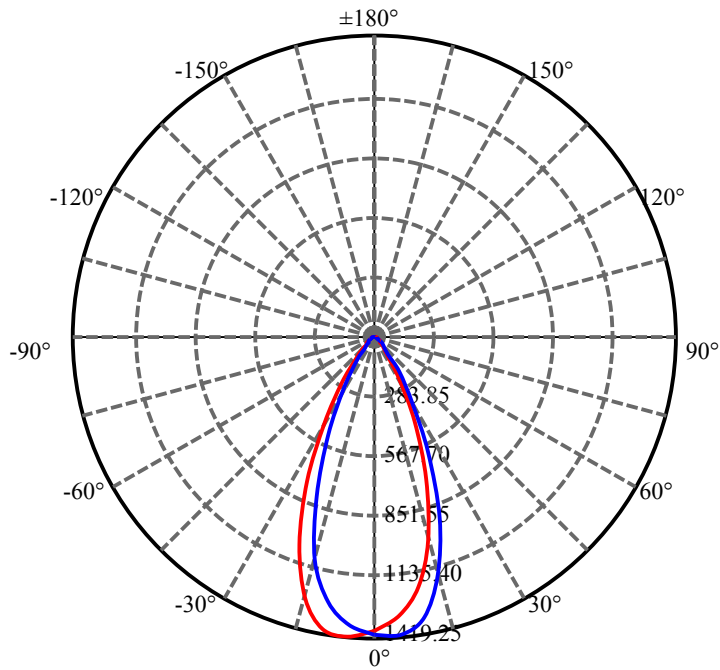
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1388.028	0.000	0	0.00%	0.00%
5.0	1373.182	33.009	33.009	0.00%	3.51%
10.0	1297.683	95.545	128.555	0.00%	13.68%
15.0	1122.817	143.582	272.137	0.00%	28.97%
20.0	857.183	163.180	435.317	0.00%	46.34%
25.0	570.935	149.783	585.1	0.00%	62.28%
30.0	337.930	115.018	700.118	0.00%	74.52%
35.0	182.408	76.623	776.741	0.00%	82.68%
40.0	98.548	46.875	823.617	0.00%	87.67%
45.0	61.896	29.707	853.324	0.00%	90.83%
50.0	48.321	22.271	875.595	0.00%	93.20%
55.0	38.133	18.798	894.393	0.00%	95.20%
60.0	28.977	15.512	909.905	0.00%	96.85%
65.0	19.953	11.895	921.8	0.00%	98.12%
70.0	12.014	8.094	929.895	0.00%	98.98%
75.0	6.113	4.738	934.633	0.00%	99.49%
80.0	2.937	2.422	937.054	0.00%	99.74%
85.0	1.085	1.093	938.147	0.00%	99.86%
90.0	0.132	0.333	938.48	0.00%	99.90%
95.0	0.027	0.044	938.524	0.00%	99.90%
100.0	0.027	0.014	938.538	0.00%	99.90%
105.0	0.027	0.014	938.553	0.00%	99.90%
110.0	0.027	0.014	938.566	0.00%	99.91%
115.0	0.000	0.007	938.573	0.00%	99.91%
120.0	0.027	0.006	938.58	0.00%	99.91%
125.0	0.027	0.012	938.592	0.00%	99.91%
130.0	0.027	0.012	938.603	0.00%	99.91%
135.0	0.159	0.037	938.641	0.00%	99.91%
140.0	0.132	0.054	938.695	0.00%	99.92%
145.0	0.265	0.066	938.761	0.00%	99.93%
150.0	0.370	0.094	938.854	0.00%	99.94%
155.0	0.582	0.121	938.975	0.00%	99.95%
160.0	0.688	0.133	939.108	0.00%	99.96%
165.0	0.926	0.133	939.241	0.00%	99.98%
170.0	0.979	0.113	939.354	0.00%	99.99%
175.0	1.112	0.075	939.429	0.00%	100.00%
180.0	1.112	0.027	939.456	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	700.12	N.A.	74.52%
0-40	823.62	N.A.	87.67%
0-60	909.91	N.A.	96.85%
0-90	938.48	N.A.	99.90%
0-120	938.58	N.A.	99.91%
0-180	939.46	N.A.	100.00%
60-90	28.58	N.A.	3.04%
90-120	0.10	N.A.	0.01%
90-130	0.12	N.A.	0.01%
90-150	0.37	N.A.	0.04%
90-180	0.95	N.A.	0.10%
0-33.36	751.56	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	128.55
10-20	306.76
20-30	264.80
30-40	123.50
40-50	51.98
50-60	34.31
60-70	19.99
70-80	7.16
80-90	1.43
90-100	0.06
100-110	0.03
110-120	0.01
120-130	0.02
130-140	0.09
140-150	0.16
150-160	0.25
160-170	0.25
170-180	0.07

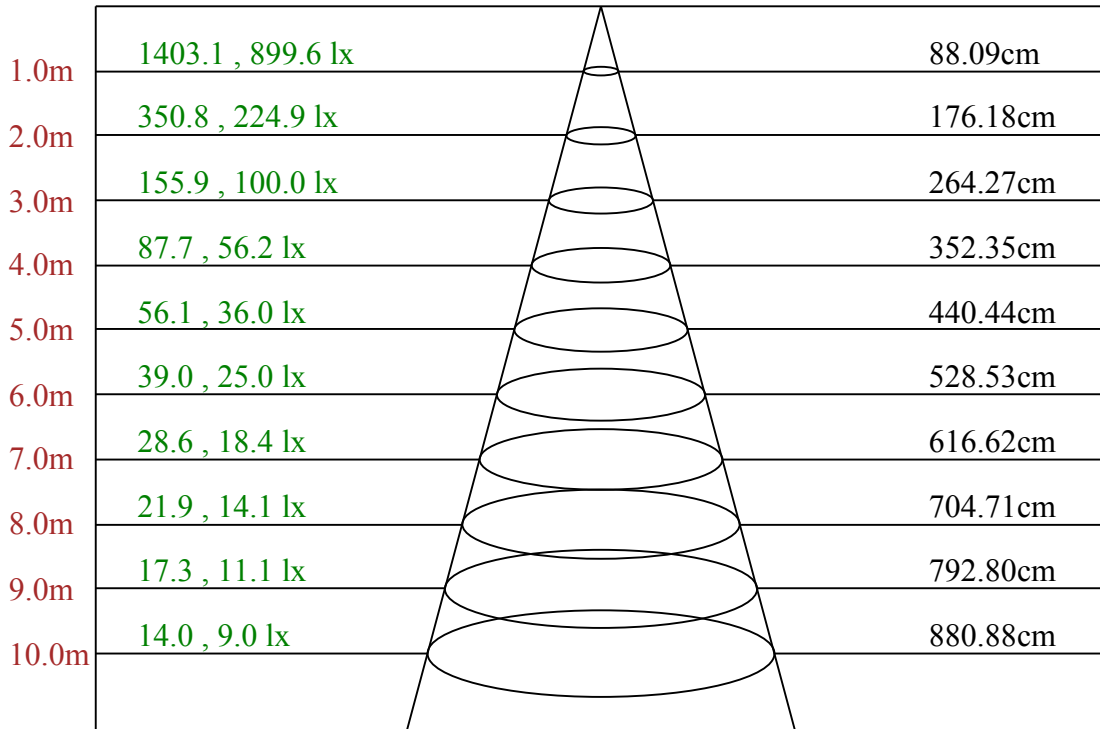


C0/C180: —

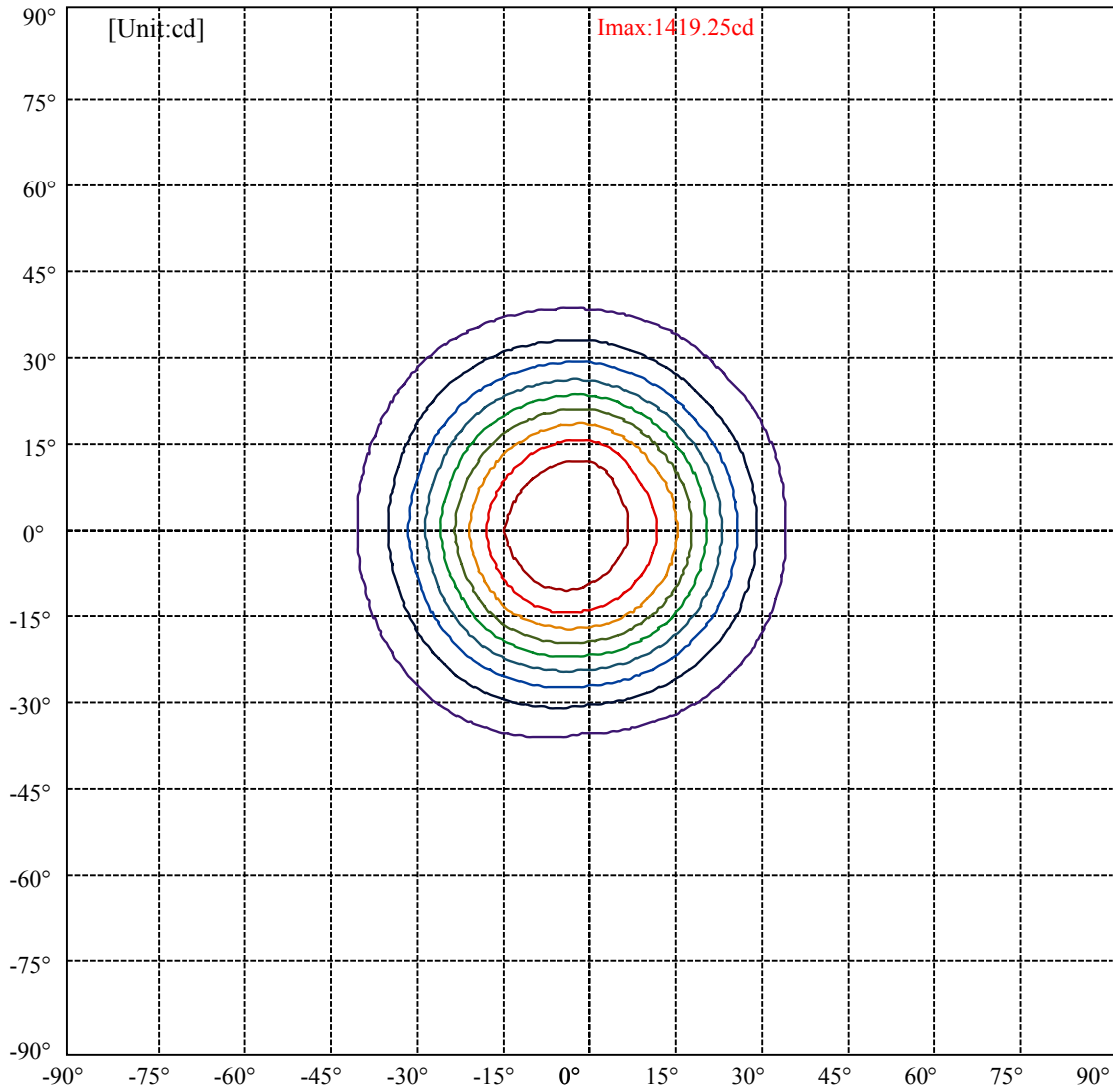
C90/C270: —

Field angle(10%Imax):C0/180Left:40.0 Right:33.6  
 :C90/270Left:34.9 Right:38.0

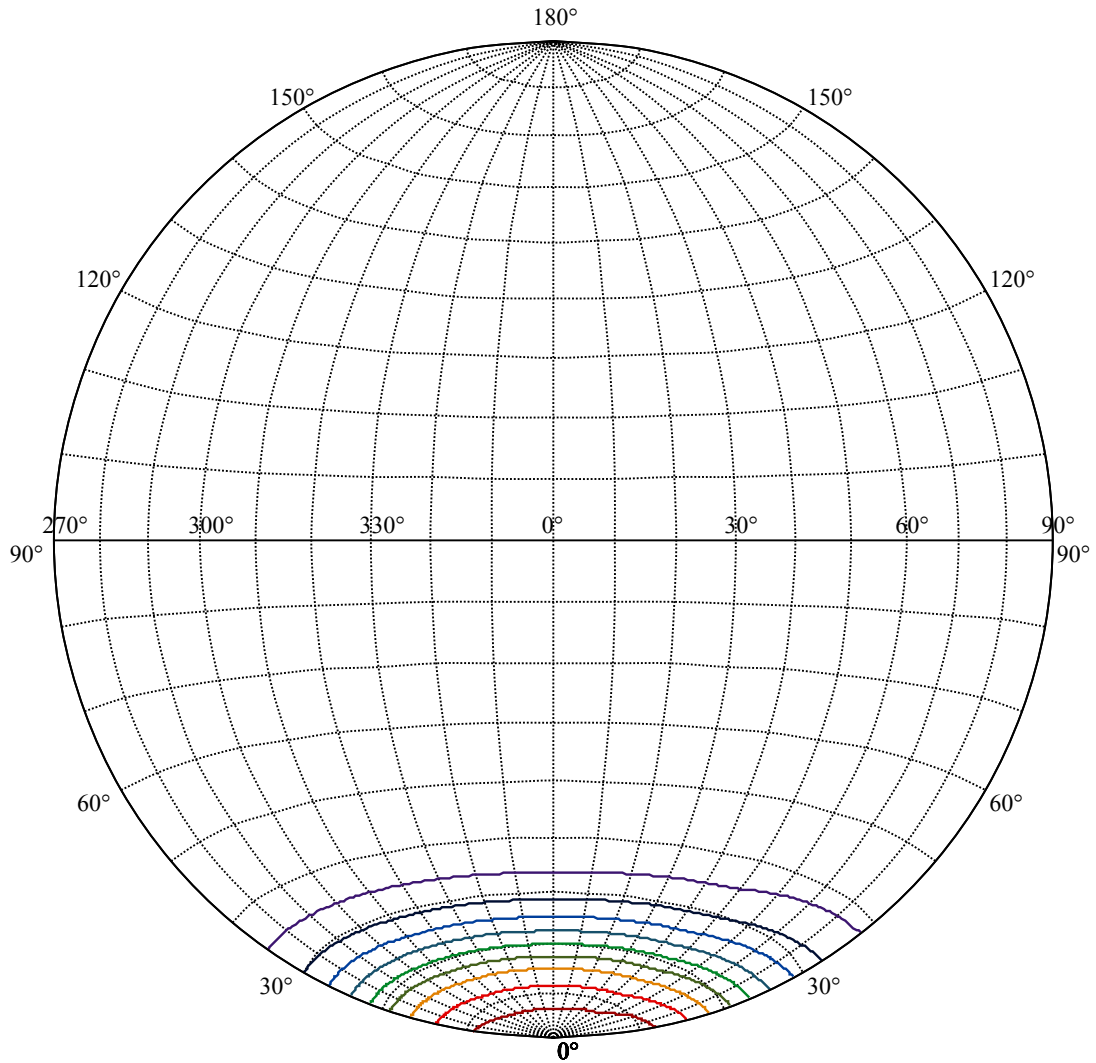
Beam Angle(50%Imax):C0/180Left:25.7 Right:20.0  
 :C90/270Left:21.7 Right:23.3



Max , Ave      Beam angle of C180 plane 47.54



(10%Imax) 141.925	—
(20%Imax) 283.851	—
(30%Imax) 425.776	—
(40%Imax) 567.702	—
(50%Imax) 709.627	—
(60%Imax) 851.552	—
(70%Imax) 993.478	—
(80%Imax) 1135.4	—
(90%Imax) 1277.33	—



House

[Unit:cd]

Road

I<sub>max</sub>:1419.25

(10%I <sub>max</sub> )	141.925	—
(20%I <sub>max</sub> )	283.851	—
(30%I <sub>max</sub> )	425.776	—
(40%I <sub>max</sub> )	567.702	—
(50%I <sub>max</sub> )	709.627	—
(60%I <sub>max</sub> )	851.552	—
(70%I <sub>max</sub> )	993.478	—
(80%I <sub>max</sub> )	1135.4	—
(90%I <sub>max</sub> )	1277.33	—

LSG3-HO-5CCT-3000K

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	1379.88	1317.21	1192.94	994.16	707.72	438.86	226.52	110.51	66.69
45.0	1386.44	1342.83	1213.90	1023.79	746.25	462.78	258.28	134.22	79.81
90.0	1399.14	1405.07	1343.25	1161.61	901.85	600.18	370.48	201.33	100.98
135.0	1386.65	1416.08	1387.71	1216.23	965.36	693.96	439.28	257.01	135.49
180.0	1379.88	1419.25	1396.81	1268.73	1039.67	747.95	473.58	269.50	140.78
225.0	1386.44	1406.13	1372.04	1215.17	966.21	665.59	410.49	225.68	117.71
270.0	1399.14	1358.71	1265.13	1088.36	800.24	504.91	282.20	137.61	71.77
315.0	1386.65	1320.18	1209.67	1014.48	730.16	453.26	242.61	123.42	75.15
360.0	1379.88	1317.21	1192.94	994.16	707.72	438.86	226.52	110.51	66.69

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	52.08	41.28	33.87	24.77	15.67	8.89	4.45	2.12	0.64
45.0	61.18	49.33	36.84	27.10	18.63	10.37	5.08	2.12	0.42
90.0	61.18	48.06	38.32	29.00	20.32	13.13	6.77	3.39	1.06
135.0	72.40	55.68	44.46	35.14	25.40	16.30	9.10	4.02	1.48
180.0	70.92	51.23	41.71	32.81	22.86	14.82	6.99	4.02	2.12
225.0	69.44	53.77	41.71	33.45	24.35	14.82	7.83	3.39	1.69
270.0	51.02	41.07	33.03	23.71	15.67	8.68	4.66	2.33	0.85
315.0	56.95	46.15	35.14	25.83	16.72	9.10	4.02	2.12	0.42
360.0	52.08	41.28	33.87	24.77	15.67	8.89	4.45	2.12	0.64

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	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.42	0.21	0.21	0.21	0.21	0.00	0.21	0.21	0.21
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	0.21	0.21	0.21	0.64	0.64	0.85	0.85	0.85	1.06
45.0	0.00	0.00	0.64	0.42	0.64	0.85	0.85	0.85	1.06
90.0	0.00	0.00	0.21	0.42	0.42	0.64	0.85	1.27	1.27
135.0	0.00	0.00	0.00	0.21	0.42	0.42	0.85	0.85	0.85
180.0	0.00	0.00	0.00	0.00	0.42	0.21	0.64	1.06	0.85
225.0	0.00	0.00	0.00	0.00	0.21	0.42	0.64	0.64	0.85
270.0	0.64	0.64	0.64	0.85	1.06	1.27	1.69	1.48	1.69
315.0	0.42	0.21	0.42	0.42	0.85	0.85	1.06	0.85	1.27
360.0	0.21	0.21	0.21	0.64	0.64	0.85	0.85	0.85	1.06

C/γ(°)	180.0
0.0	0.85
45.0	1.06
90.0	1.48
135.0	1.06
180.0	0.85
225.0	1.06
270.0	1.48
315.0	1.06
360.0	0.85