



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

LumCAT: LSG3-HO-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.0900

Lamp flux(lm): -1.0

Power (W): 10.56

Number of Lamps: 0

PF: 0.9744

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1034.32, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 97.97

Central intensity(cd): 1556.437, Maximum intensity(cd): 1564.270

Angle of maximum intensity: C=135.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=46.0

[C90/270]Total=45.0

Field angle(10%Imax): [C0/180]Total=73.4

[C90/270]Total=72.9

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

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

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.08%

Down flux rate of LUM(%): 99.92%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.889%

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

Date:  
Humidity(%): 59%

Operator: Tester

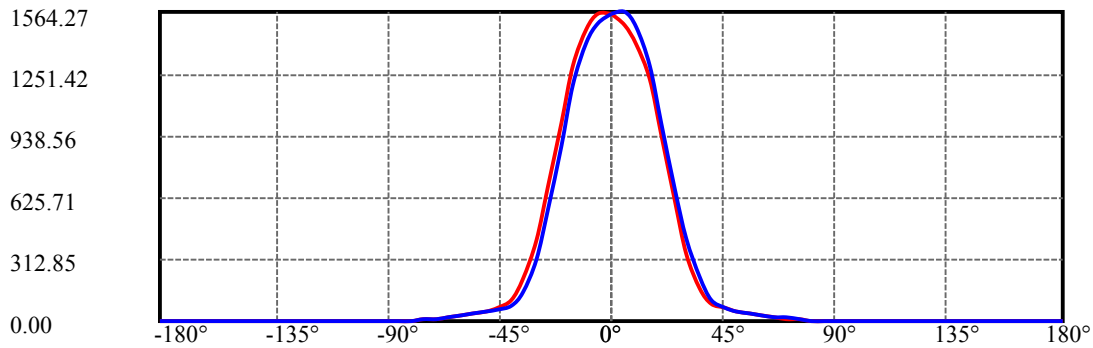
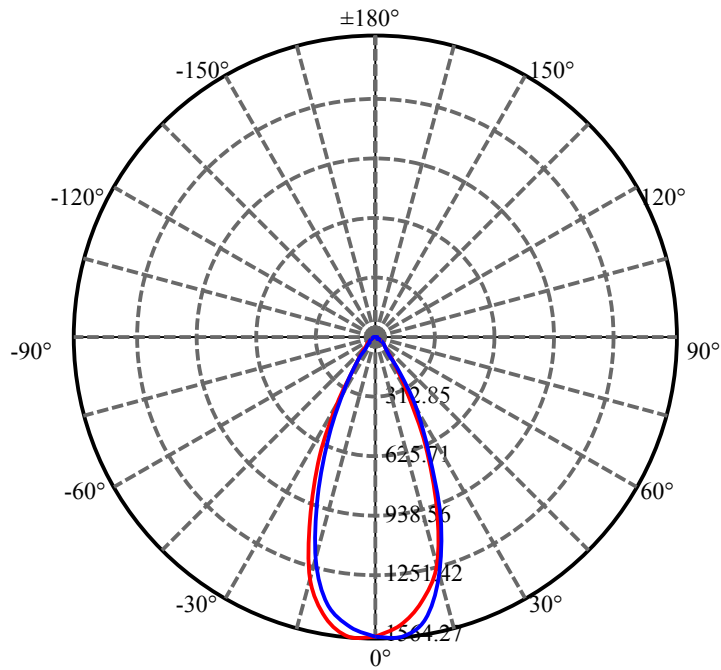
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1552.891	0.000	0	0.00%	0.00%
5.0	1528.916	36.842	36.842	0.00%	3.56%
10.0	1437.698	106.125	142.967	0.00%	13.82%
15.0	1244.705	159.118	302.086	0.00%	29.21%
20.0	954.911	181.279	483.365	0.00%	46.73%
25.0	630.371	166.267	649.632	0.00%	62.81%
30.0	370.215	126.625	776.256	0.00%	75.05%
35.0	194.872	83.213	859.469	0.00%	83.10%
40.0	101.273	49.410	908.879	0.00%	87.87%
45.0	66.607	31.084	939.963	0.00%	90.88%
50.0	53.376	24.244	964.208	0.00%	93.22%
55.0	42.208	20.783	984.991	0.00%	95.23%
60.0	31.967	17.145	1002.136	0.00%	96.89%
65.0	22.097	13.143	1015.279	0.00%	98.16%
70.0	13.099	8.912	1024.191	0.00%	99.02%
75.0	6.483	5.118	1029.309	0.00%	99.52%
80.0	3.282	2.613	1031.922	0.00%	99.77%
85.0	1.218	1.222	1033.145	0.00%	99.89%
90.0	0.080	0.355	1033.5	0.00%	99.92%
95.0	0.000	0.022	1033.521	0.00%	99.92%
100.0	0.000	0.000	1033.521	0.00%	99.92%
105.0	0.000	0.000	1033.521	0.00%	99.92%
110.0	0.000	0.000	1033.521	0.00%	99.92%
115.0	0.000	0.000	1033.521	0.00%	99.92%
120.0	0.000	0.000	1033.521	0.00%	99.92%
125.0	0.027	0.006	1033.528	0.00%	99.92%
130.0	0.027	0.012	1033.539	0.00%	99.92%
135.0	0.027	0.011	1033.55	0.00%	99.93%
140.0	0.053	0.015	1033.565	0.00%	99.93%
145.0	0.185	0.040	1033.604	0.00%	99.93%
150.0	0.344	0.078	1033.682	0.00%	99.94%
155.0	0.662	0.127	1033.809	0.00%	99.95%
160.0	0.794	0.153	1033.962	0.00%	99.97%
165.0	0.927	0.142	1034.104	0.00%	99.98%
170.0	0.953	0.111	1034.215	0.00%	99.99%
175.0	1.085	0.073	1034.288	0.00%	100.00%
180.0	1.270	0.028	1034.316	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	776.26	N.A.	75.05%
0-40	908.88	N.A.	87.87%
0-60	1002.14	N.A.	96.89%
0-90	1033.50	N.A.	99.92%
0-120	1033.52	N.A.	99.92%
0-180	1034.32	N.A.	100.00%
60-90	31.36	N.A.	3.03%
90-120	0.02	N.A.	0.00%
90-130	0.04	N.A.	0.00%
90-150	0.18	N.A.	0.02%
90-180	0.79	N.A.	0.08%
0-33.08	827.45	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	142.97
10-20	340.40
20-30	292.89
30-40	132.62
40-50	55.33
50-60	37.93
60-70	22.05
70-80	7.73
80-90	1.58
90-100	0.02
100-110	0.00
110-120	0.00
120-130	0.02
130-140	0.03
140-150	0.12
150-160	0.28
160-170	0.25
170-180	0.07



C0/C180: —

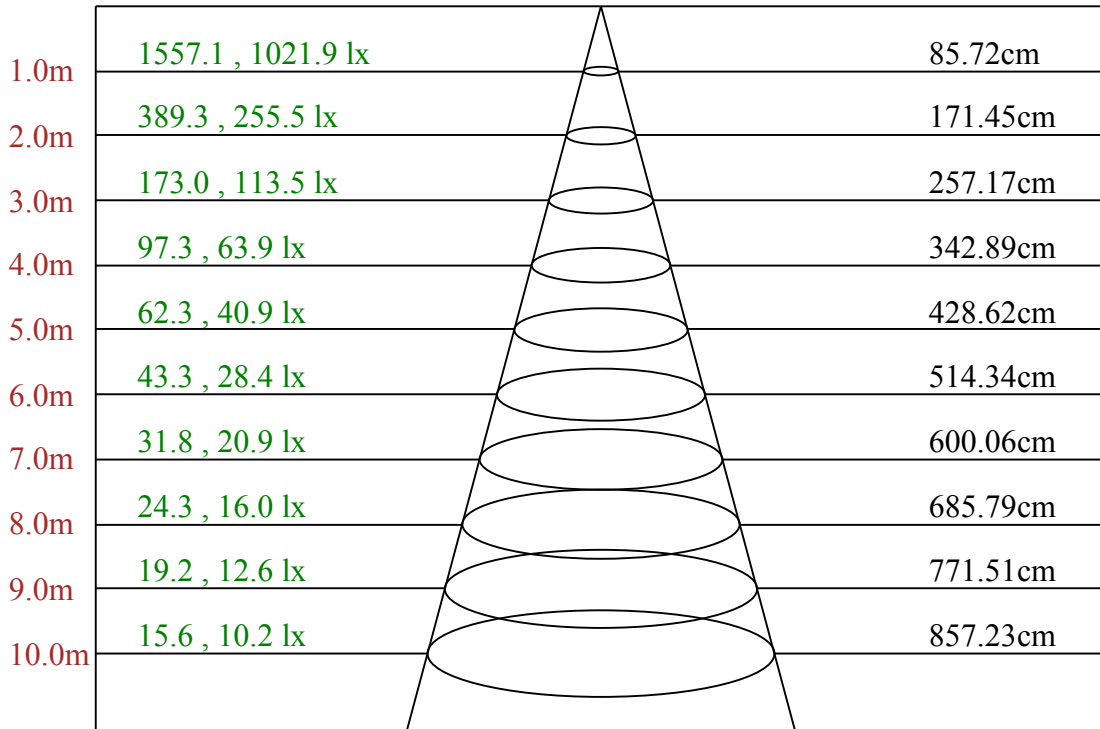
C90/C270: —

Field angle(10%Imax):C0/180Left:37.7 Right:35.7

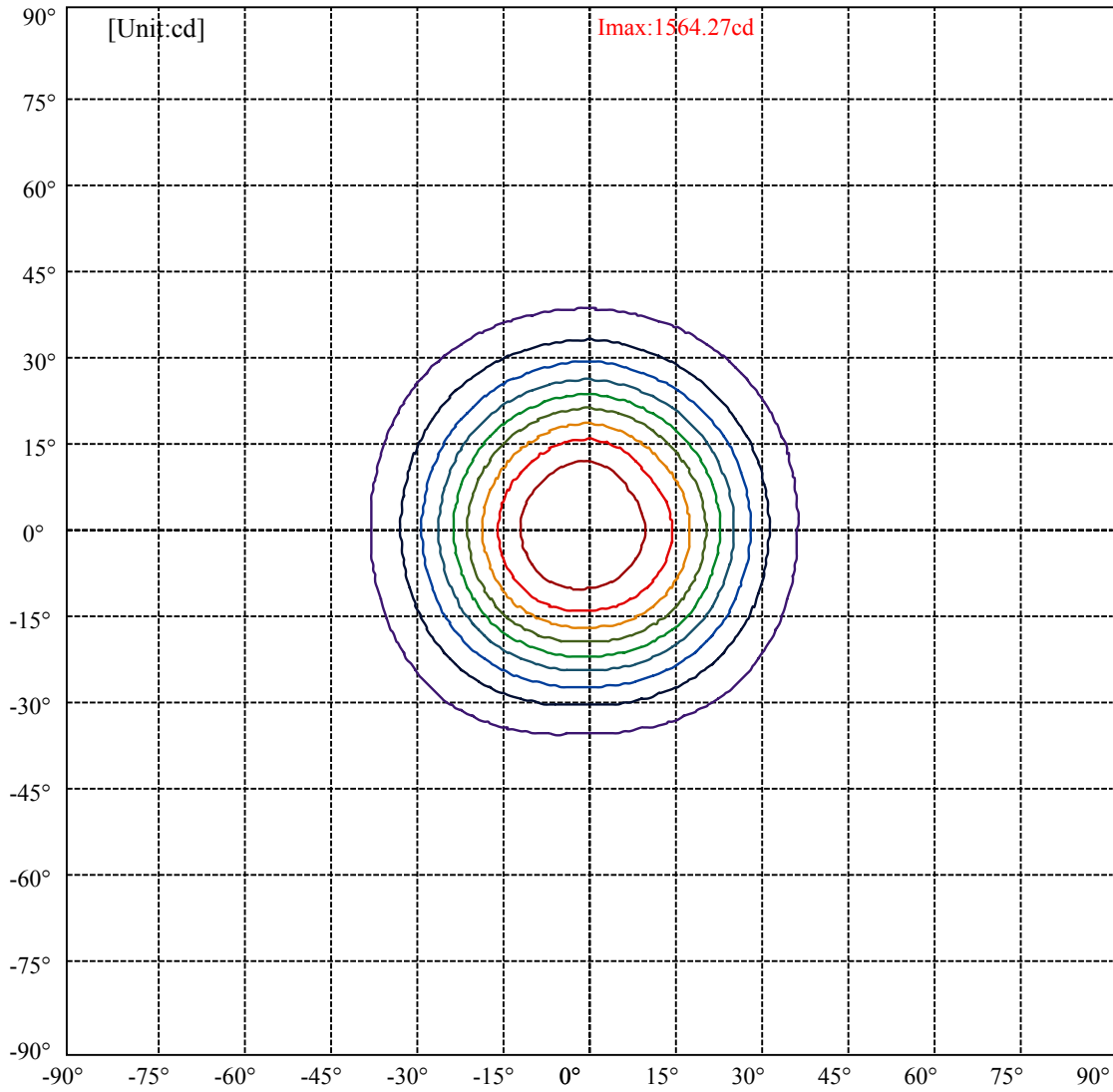
:C90/270Left:34.8 Right:38.1

Beam Angle(50%Imax):C0/180Left:23.5 Right:22.5

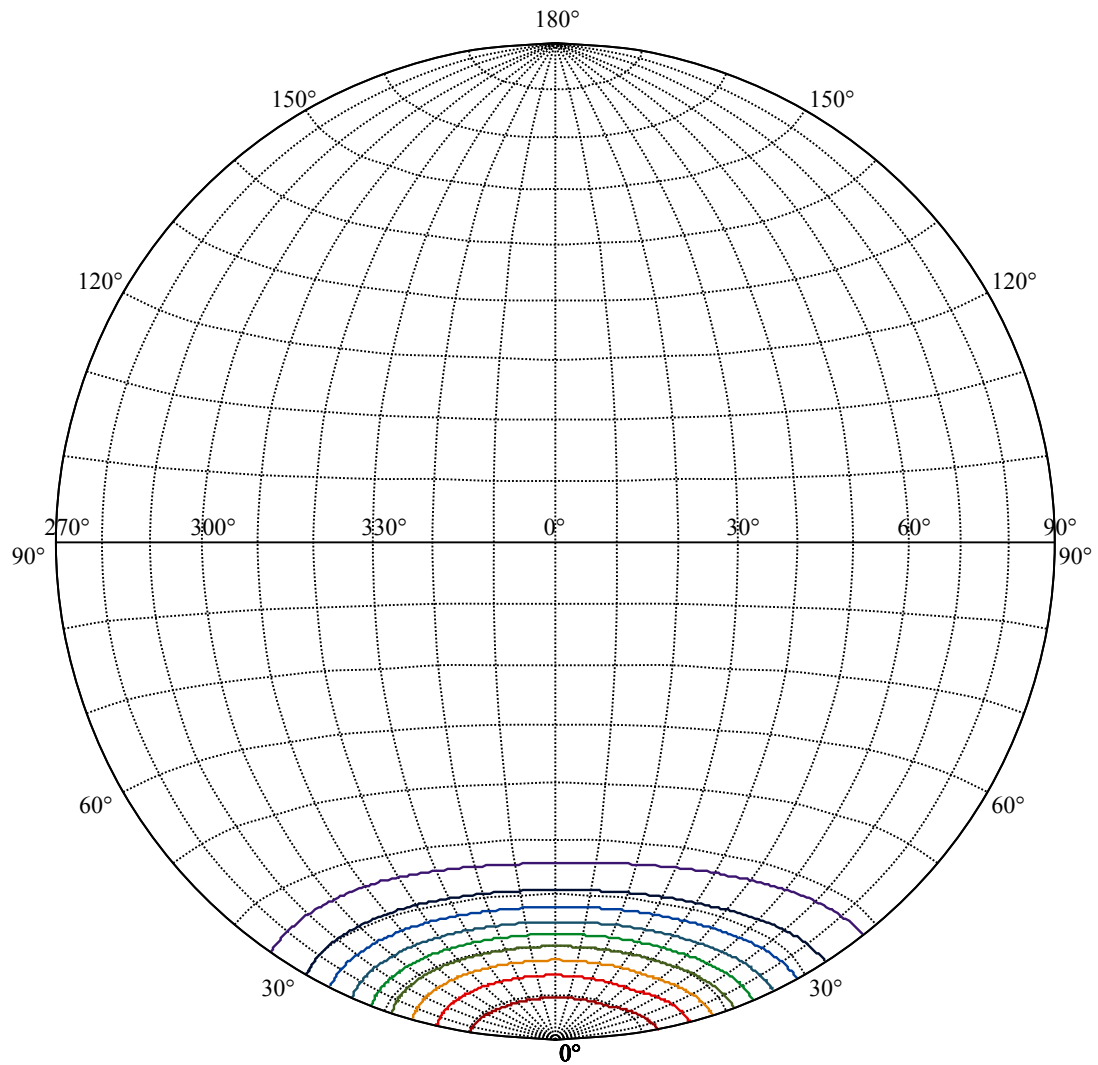
:C90/270Left:21.6 Right:23.4



Max , Ave      Beam angle of C135 plane 46.40



(10%Imax)	156.355	—
(20%Imax)	312.709	—
(30%Imax)	469.064	—
(40%Imax)	625.418	—
(50%Imax)	781.773	—
(60%Imax)	938.127	—
(70%Imax)	1094.48	—
(80%Imax)	1250.84	—
(90%Imax)	1407.19	—












House

[Unit:cd]

Road

**Imax:1564.27**

(10%Imax)	156.427	
(20%Imax)	312.854	
(30%Imax)	469.281	
(40%Imax)	625.708	
(50%Imax)	782.135	
(60%Imax)	938.562	
(70%Imax)	1094.99	
(80%Imax)	1251.42	
(90%Imax)	1407.84	

LSG3-HO-5CCT-4000K

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	1556.44	1499.70	1396.18	1222.79	940.38	612.46	341.26	167.03	90.40
45.0	1542.46	1508.17	1397.87	1199.51	927.26	616.05	353.33	187.78	102.04
90.0	1557.07	1560.25	1483.40	1289.06	1001.35	671.31	417.05	226.95	111.36
135.0	1555.59	1564.27	1481.28	1274.66	988.44	667.71	407.32	231.60	115.80
180.0	1556.44	1556.01	1479.80	1296.68	1004.95	678.30	408.16	214.24	105.43
225.0	1542.46	1545.85	1462.65	1263.44	974.04	642.73	386.99	210.22	112.41
270.0	1557.07	1505.42	1406.34	1199.08	885.13	564.82	310.36	150.31	78.75
315.0	1555.59	1491.66	1394.06	1212.42	917.73	589.59	337.24	170.84	94.00
360.0	1556.44	1499.70	1396.18	1222.79	940.38	612.46	341.26	167.03	90.40

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	63.93	50.81	40.65	32.39	21.59	13.13	6.35	3.60	1.48
45.0	72.61	59.07	45.73	33.45	23.71	14.18	7.20	3.18	1.06
90.0	66.69	52.93	42.34	31.97	22.44	14.61	7.20	3.81	1.06
135.0	71.77	57.80	46.15	34.93	24.98	14.82	7.83	3.60	1.27
180.0	65.20	51.44	41.28	31.33	21.38	12.70	5.50	3.60	1.48
225.0	69.86	54.83	43.40	33.66	23.50	13.34	6.77	3.39	1.48
270.0	55.89	45.09	36.20	26.04	17.15	9.53	4.87	2.33	0.85
315.0	66.90	55.04	41.92	31.97	22.02	12.49	6.14	2.75	1.06
360.0	63.93	50.81	40.65	32.39	21.59	13.13	6.35	3.60	1.48

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	0.21
45.0	0.21	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	0.21	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	0.21	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	0.21

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

C/γ(°)	180.0
0.0	1.27
45.0	1.06
90.0	1.27
135.0	1.48
180.0	1.27
225.0	1.06
270.0	1.27
315.0	1.48
360.0	1.27