



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

LumCAT: LSG3-HO-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.81

Number of Lamps: 0

PF: 0.9780

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1039.72, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.20

Central intensity(cd): 1569.986, Maximum intensity(cd): 1575.702

Angle of maximum intensity: C=45.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.1

[C90/270]Total=45.5

Field angle(10%Imax): [C0/180]Total=73.5

[C90/270]Total=73.5

Maximum s/h(1/2): C0_180=0.75 C90_270=0.77

Maximum s/h(1/4): C0_180=0.72 C90_270=0.74

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 π solid angle : 96.871%

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

Date:
Humidity(%): 59%

Operator: Tester

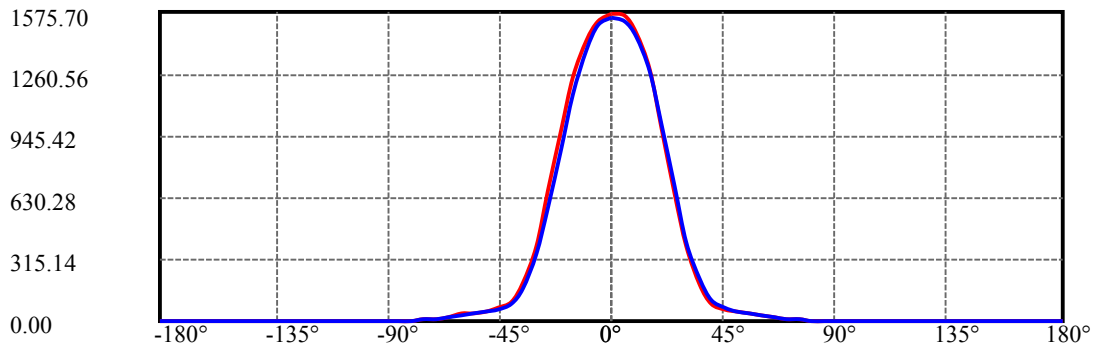
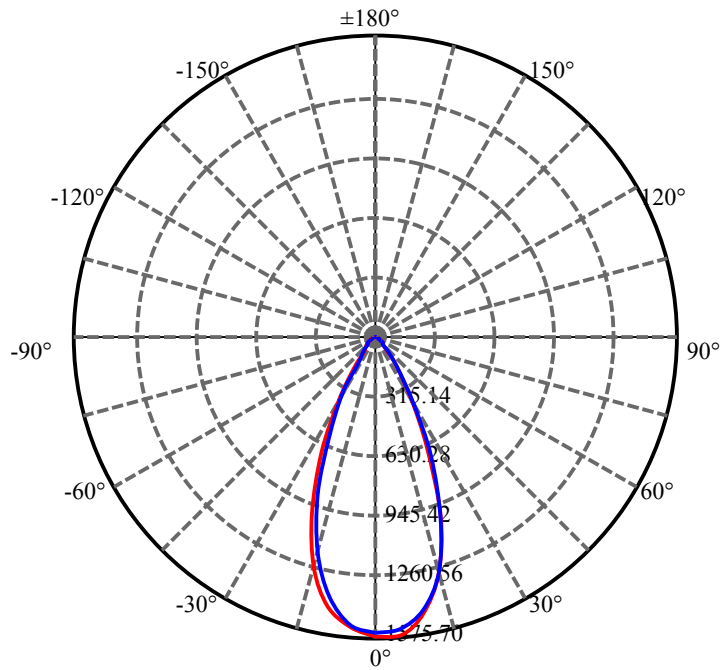
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1561.888	0.000	0	0.00%	0.00%
5.0	1535.690	37.031	37.031	0.00%	3.56%
10.0	1435.343	106.283	143.314	0.00%	13.78%
15.0	1237.957	158.578	301.892	0.00%	29.04%
20.0	959.833	181.129	483.021	0.00%	46.46%
25.0	638.363	167.621	650.642	0.00%	62.58%
30.0	376.592	128.443	779.086	0.00%	74.93%
35.0	196.142	84.339	863.425	0.00%	83.04%
40.0	101.247	49.617	913.042	0.00%	87.82%
45.0	67.612	31.266	944.307	0.00%	90.82%
50.0	53.799	24.533	968.84	0.00%	93.18%
55.0	42.791	21.002	989.842	0.00%	95.20%
60.0	32.258	17.347	1007.189	0.00%	96.87%
65.0	22.361	13.278	1020.467	0.00%	98.15%
70.0	13.258	9.019	1029.486	0.00%	99.02%
75.0	6.563	5.181	1034.667	0.00%	99.51%
80.0	3.361	2.655	1037.323	0.00%	99.77%
85.0	1.191	1.237	1038.559	0.00%	99.89%
90.0	0.079	0.348	1038.907	0.00%	99.92%
95.0	0.000	0.022	1038.929	0.00%	99.92%
100.0	0.000	0.000	1038.929	0.00%	99.92%
105.0	0.000	0.000	1038.929	0.00%	99.92%
110.0	0.000	0.000	1038.929	0.00%	99.92%
115.0	0.000	0.000	1038.929	0.00%	99.92%
120.0	0.000	0.000	1038.929	0.00%	99.92%
125.0	0.000	0.000	1038.929	0.00%	99.92%
130.0	0.000	0.000	1038.929	0.00%	99.92%
135.0	0.027	0.005	1038.934	0.00%	99.92%
140.0	0.106	0.025	1038.959	0.00%	99.93%
145.0	0.212	0.053	1039.012	0.00%	99.93%
150.0	0.397	0.090	1039.101	0.00%	99.94%
155.0	0.582	0.124	1039.225	0.00%	99.95%
160.0	0.768	0.142	1039.367	0.00%	99.97%
165.0	0.874	0.135	1039.502	0.00%	99.98%
170.0	1.059	0.115	1039.617	0.00%	99.99%
175.0	1.085	0.077	1039.693	0.00%	100.00%
180.0	1.217	0.028	1039.721	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	779.09	N.A.	74.93%
0-40	913.04	N.A.	87.82%
0-60	1007.19	N.A.	96.87%
0-90	1038.91	N.A.	99.92%
0-120	1038.93	N.A.	99.92%
0-180	1039.72	N.A.	100.00%
60-90	31.72	N.A.	3.05%
90-120	0.02	N.A.	0.00%
90-130	0.02	N.A.	0.00%
90-150	0.19	N.A.	0.02%
90-180	0.79	N.A.	0.08%
0-33.12	831.78	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	143.31
10-20	339.71
20-30	296.06
30-40	133.96
40-50	55.80
50-60	38.35
60-70	22.30
70-80	7.84
80-90	1.58
90-100	0.02
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.03
140-150	0.14
150-160	0.27
160-170	0.25
170-180	0.08

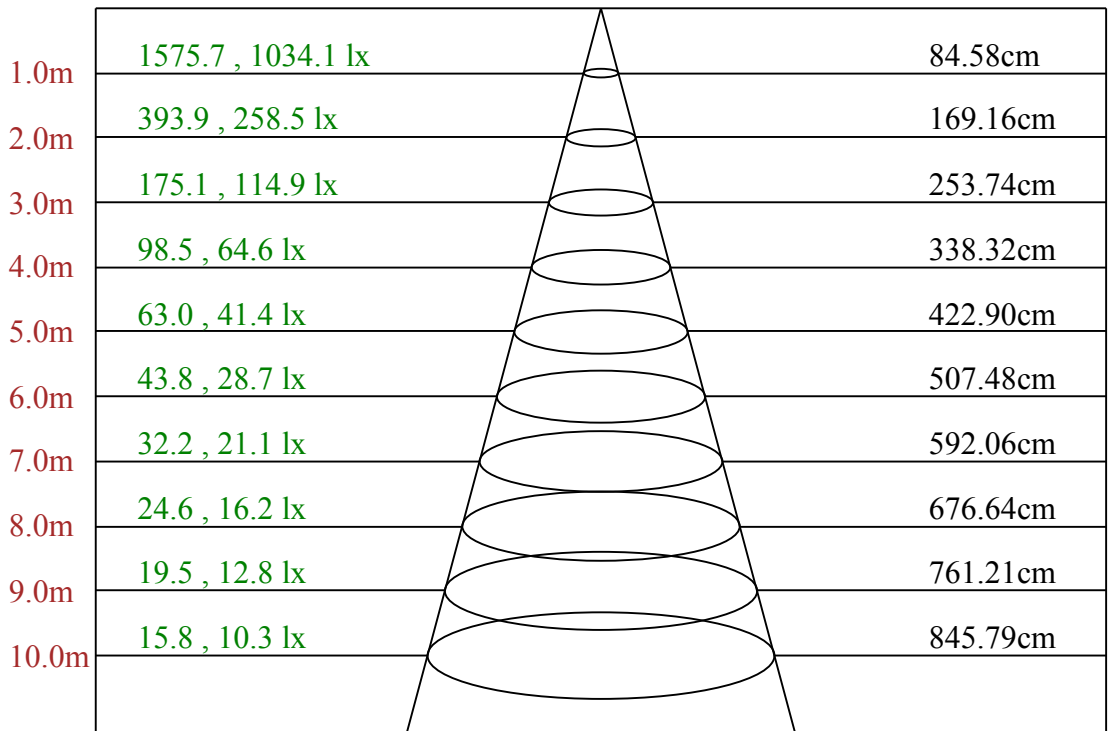


C0/C180: —

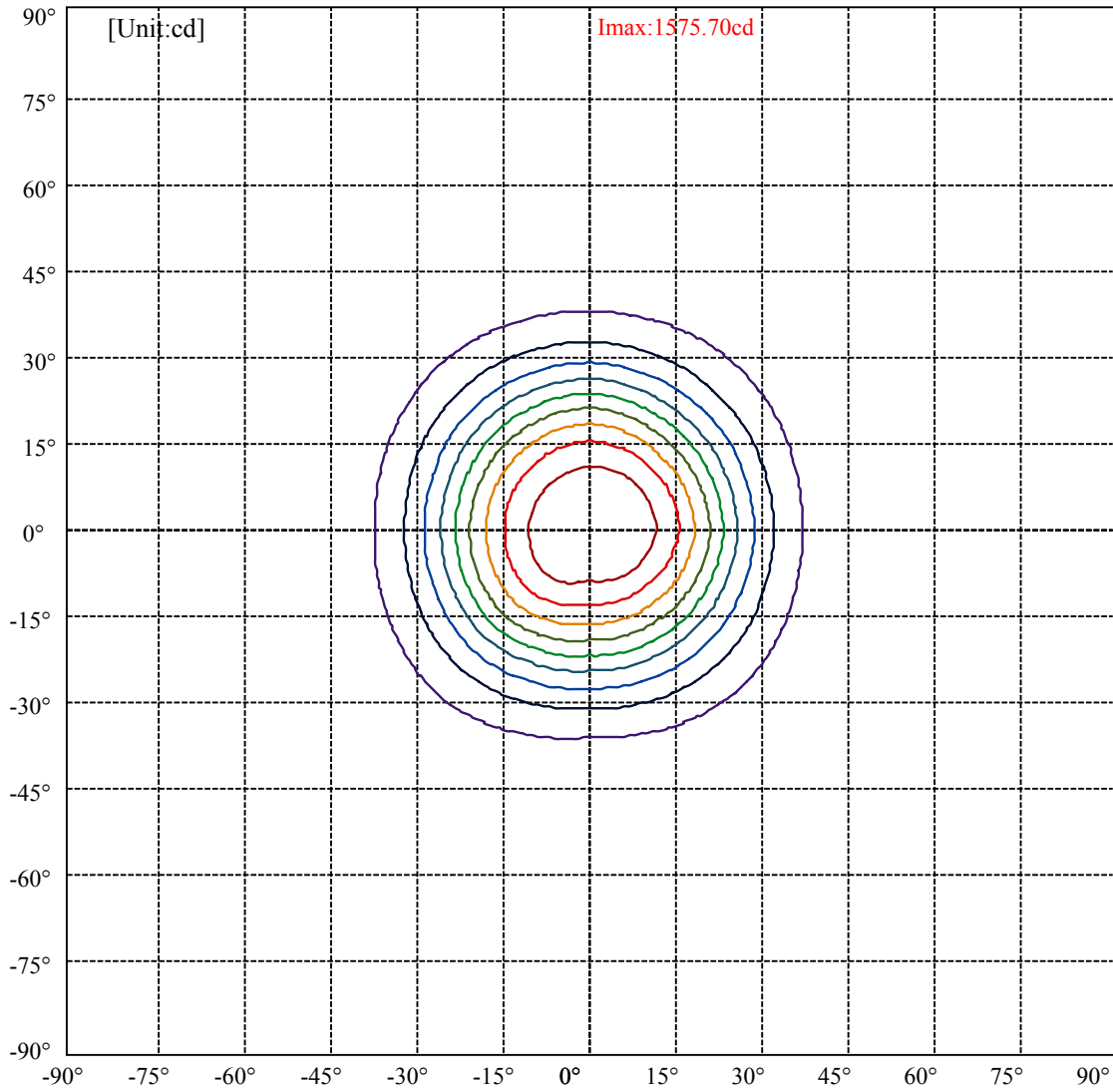
C90/C270: —

Field angle(10%Imax):C0/180Left:37.0 Right:36.5
:C90/270Left:35.7 Right:37.8

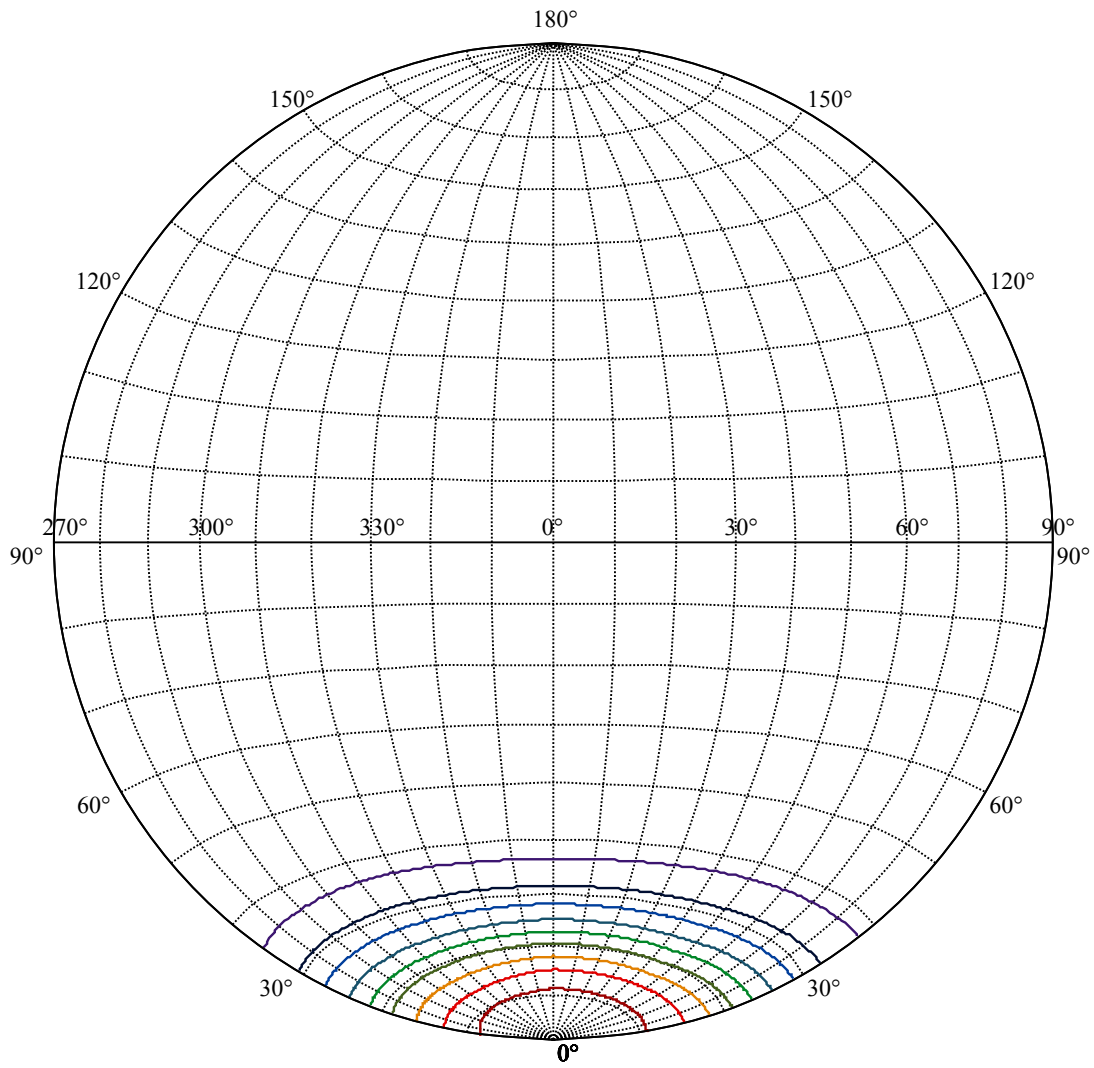
Beam Angle(50%Imax):C0/180Left:23.1 Right:23.0
:C90/270Left:21.8 Right:23.7



Max , Ave Beam angle of C45 plane 45.85



(10%Imax) 157.145	—
(20%Imax) 314.29	—
(30%Imax) 471.435	—
(40%Imax) 628.58	—
(50%Imax) 785.725	—
(60%Imax) 942.87	—
(70%Imax) 1100.02	—
(80%Imax) 1257.16	—
(90%Imax) 1414.31	—



House

[Unit:cd]

Road

Imax:1575.70

(10%Imax) 157.57	—
(20%Imax) 315.14	—
(30%Imax) 472.711	—
(40%Imax) 630.281	—
(50%Imax) 787.851	—
(60%Imax) 945.421	—
(70%Imax) 1102.99	—
(80%Imax) 1260.56	—
(90%Imax) 1418.13	—

LSG3-HO-5CCT-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	1569.99	1557.28	1472.60	1278.90	988.02	647.18	377.25	186.09	91.46
45.0	1575.70	1560.67	1464.35	1258.15	948.22	624.73	365.19	196.88	105.43
90.0	1543.52	1527.86	1445.29	1273.18	1010.24	685.07	404.56	214.24	106.49
135.0	1558.34	1514.10	1430.47	1249.89	976.37	664.96	396.94	209.80	108.82
180.0	1569.99	1525.11	1431.74	1243.12	982.30	660.94	382.97	194.34	99.71
225.0	1575.70	1549.24	1444.23	1248.41	983.57	653.31	386.99	210.22	115.80
270.0	1543.52	1507.96	1376.49	1159.07	879.41	577.74	338.30	166.19	85.95
315.0	1558.34	1543.31	1417.56	1192.94	910.53	592.98	360.53	191.38	96.33
360.0	1569.99	1557.28	1472.60	1278.90	988.02	647.18	377.25	186.09	91.46

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	62.03	49.96	40.01	28.79	19.48	11.01	5.72	3.60	0.85
45.0	69.02	54.41	42.98	32.39	22.02	12.28	5.72	3.18	1.91
90.0	63.72	49.75	40.22	31.33	21.17	12.91	6.14	3.39	1.27
135.0	74.10	58.43	46.58	35.14	24.98	15.45	8.05	3.18	1.48
180.0	67.32	53.14	42.34	34.51	24.35	14.61	7.41	4.02	1.69
225.0	75.37	61.18	49.12	35.99	26.25	16.30	8.26	3.60	0.85
270.0	61.18	48.69	38.11	27.73	19.05	10.80	5.50	2.75	0.64
315.0	68.17	54.83	42.98	32.18	21.59	12.70	5.72	3.18	0.85
360.0	62.03	49.96	40.01	28.79	19.48	11.01	5.72	3.60	0.85

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.42	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	0.00	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	0.21	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	0.21	0.21	0.42	0.64	1.06	1.06	1.06	1.06
45.0	0.00	0.21	0.42	0.64	0.85	0.64	1.06	1.06	1.27
90.0	0.00	0.00	0.00	0.21	0.42	0.64	0.85	1.06	0.85
135.0	0.00	0.00	0.00	0.21	0.42	0.64	1.06	1.06	1.06
180.0	0.00	0.00	0.21	0.42	0.42	0.64	0.64	1.06	1.06
225.0	0.00	0.00	0.00	0.21	0.42	0.64	0.64	0.85	1.06
270.0	0.21	0.21	0.42	0.64	0.85	1.06	0.85	1.06	1.27
315.0	0.00	0.21	0.42	0.42	0.64	0.85	0.85	1.27	1.06
360.0	0.00	0.21	0.21	0.42	0.64	1.06	1.06	1.06	1.06

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