



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

LumCAT: LSG3-HO-5CCT-5SSL-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.0930

Lamp flux(lm): -1.0

Power (W): 10.89

Number of Lamps: 0

PF: 0.9783

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 997.73, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 91.64

Central intensity(cd): 595.059, Maximum intensity(cd): 1774.648

Angle of maximum intensity: C=0.0 γ =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=0.61

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 π solid angle : 97.018%

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

Date:
Humidity(%): 59%

Operator: Tester

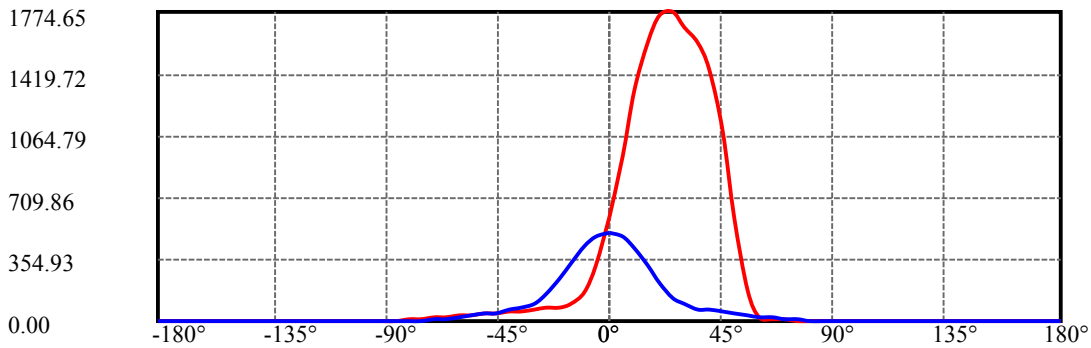
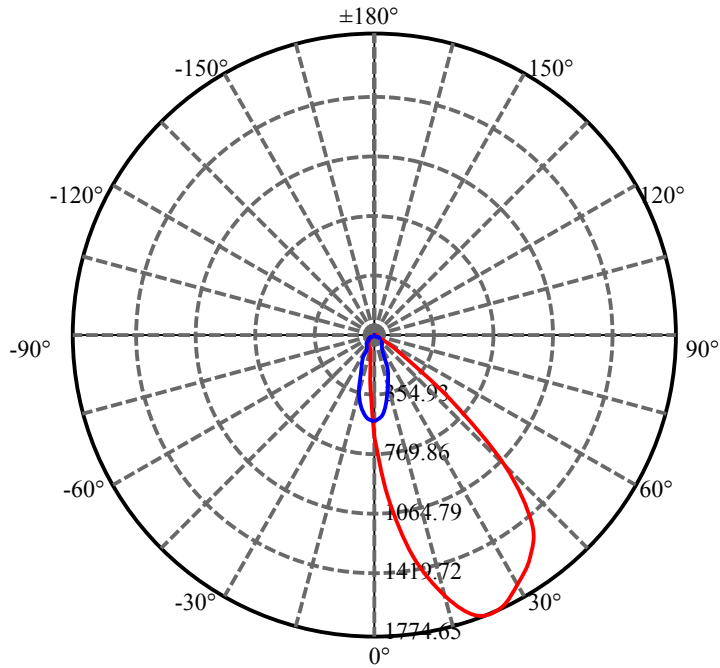
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	558.101	0.000	0	0.00%	0.00%
5.0	565.750	13.435	13.435	0.00%	1.35%
10.0	584.476	41.147	54.583	0.00%	5.47%
15.0	594.730	69.950	124.532	0.00%	12.48%
20.0	585.326	97.253	221.785	0.00%	22.23%
25.0	547.874	118.852	340.637	0.00%	34.14%
30.0	485.473	130.771	471.408	0.00%	47.25%
35.0	410.488	131.936	603.345	0.00%	60.47%
40.0	332.047	123.886	727.231	0.00%	72.89%
45.0	236.280	105.230	832.461	0.00%	83.44%
50.0	134.563	74.934	907.395	0.00%	90.95%
55.0	55.958	41.426	948.821	0.00%	95.10%
60.0	26.924	19.158	967.979	0.00%	97.02%
65.0	18.369	11.011	978.99	0.00%	98.12%
70.0	12.365	7.782	986.772	0.00%	98.90%
75.0	7.540	5.203	991.974	0.00%	99.42%
80.0	4.195	3.140	995.114	0.00%	99.74%
85.0	1.590	1.572	996.686	0.00%	99.90%
90.0	0.137	0.473	997.159	0.00%	99.94%
95.0	0.000	0.038	997.196	0.00%	99.95%
100.0	0.000	0.000	997.196	0.00%	99.95%
105.0	0.000	0.000	997.196	0.00%	99.95%
110.0	0.000	0.000	997.196	0.00%	99.95%
115.0	0.000	0.000	997.196	0.00%	99.95%
120.0	0.000	0.000	997.196	0.00%	99.95%
125.0	0.000	0.000	997.196	0.00%	99.95%
130.0	0.027	0.006	997.202	0.00%	99.95%
135.0	0.082	0.022	997.225	0.00%	99.95%
140.0	0.165	0.046	997.27	0.00%	99.95%
145.0	0.274	0.073	997.343	0.00%	99.96%
150.0	0.329	0.089	997.432	0.00%	99.97%
155.0	0.329	0.083	997.515	0.00%	99.98%
160.0	0.356	0.072	997.587	0.00%	99.99%
165.0	0.356	0.059	997.646	0.00%	99.99%
170.0	0.411	0.046	997.692	0.00%	100.00%
175.0	0.439	0.030	997.722	0.00%	100.00%
180.0	0.494	0.011	997.733	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	471.41	N.A.	47.25%
0-40	727.23	N.A.	72.89%
0-60	967.98	N.A.	97.02%
0-90	997.16	N.A.	99.94%
0-120	997.20	N.A.	99.95%
0-180	997.73	N.A.	100.00%
60-90	29.18	N.A.	2.92%
90-120	0.04	N.A.	0.00%
90-130	0.04	N.A.	0.00%
90-150	0.27	N.A.	0.03%
90-180	0.56	N.A.	0.06%
0-43.37	798.19	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	54.58
10-20	167.20
20-30	249.62
30-40	255.82
40-50	180.16
50-60	60.58
60-70	18.79
70-80	8.34
80-90	2.04
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	0.16
160-170	0.10
170-180	0.03



C0/C180: ————

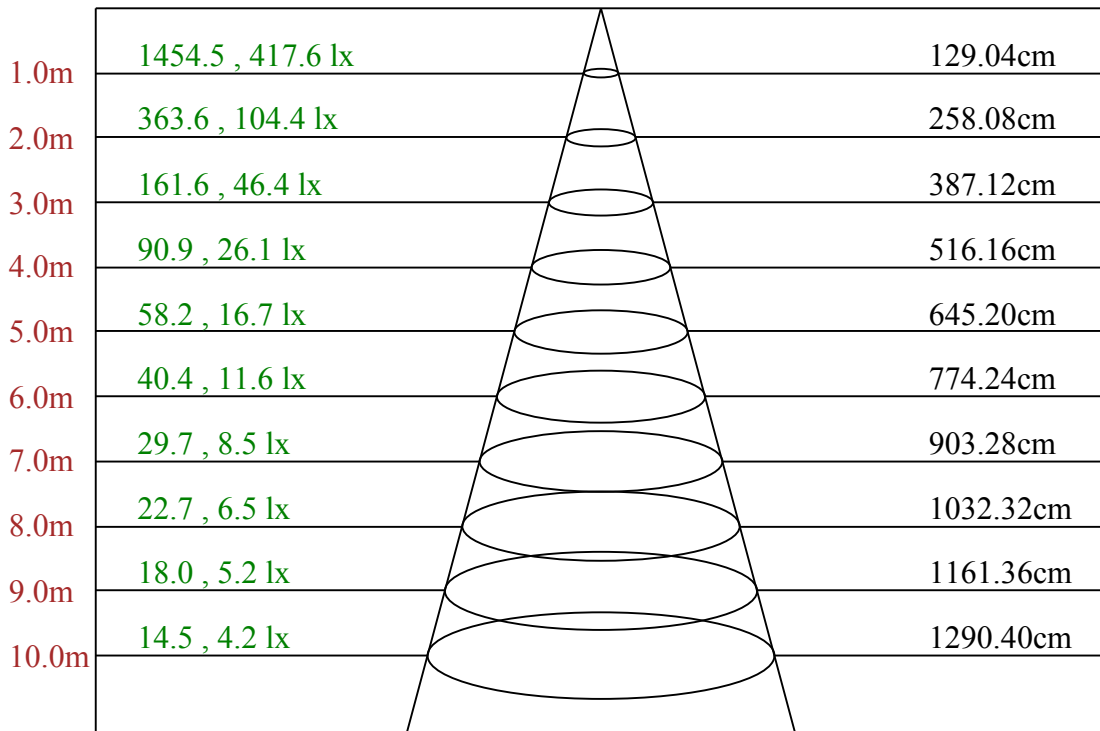
C90/C270: ————

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

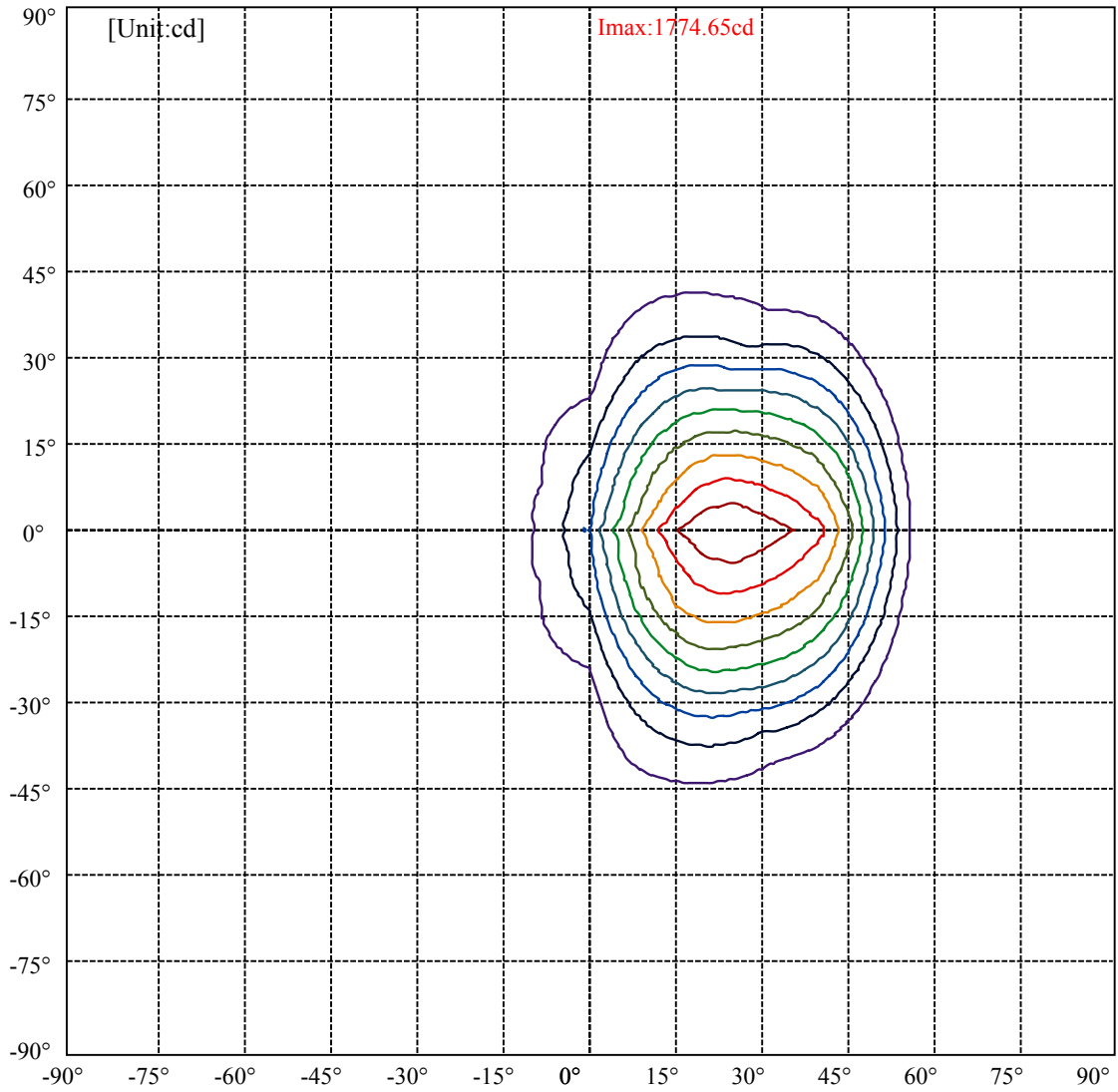
:C90/270Left:44.3 Right:46.4

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

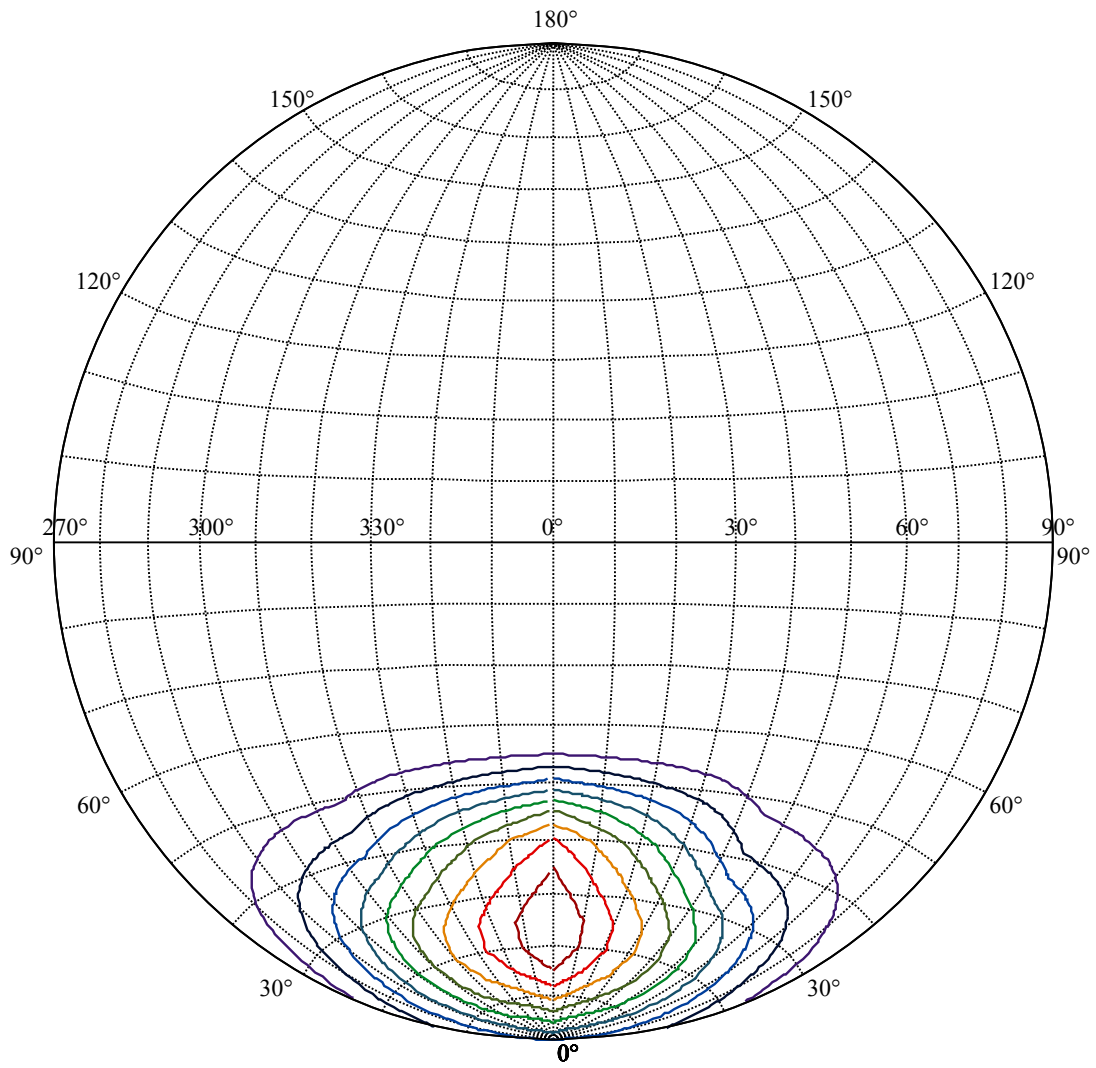
:C90/270Left:19.2 Right:18.3



Max , Ave Beam angle of C0 plane 65.66



(10%Imax) 177.465	—
(20%Imax) 354.93	—
(30%Imax) 532.394	—
(40%Imax) 709.859	—
(50%Imax) 887.324	—
(60%Imax) 1064.79	—
(70%Imax) 1242.25	—
(80%Imax) 1419.72	—
(90%Imax) 1597.18	—



House

[Unit:cd]

Road

Imax:1774.65

(10%Imax) 177.465	—
(20%Imax) 354.93	—
(30%Imax) 532.394	—
(40%Imax) 709.859	—
(50%Imax) 887.324	—
(60%Imax) 1064.79	—
(70%Imax) 1242.25	—
(80%Imax) 1419.72	—
(90%Imax) 1597.18	—

LSG3-HO-5CCT-5SSL-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	595.06	953.24	1318.21	1595.23	1752.93	1774.65	1686.91	1599.40	1441.48
45.0	556.46	756.49	923.84	1024.30	1035.92	966.83	809.35	591.11	381.86
90.0	509.96	480.79	414.98	318.04	221.75	136.87	96.29	69.75	62.29
135.0	570.93	359.49	202.89	115.81	82.91	73.70	67.34	61.41	55.05
180.0	595.06	321.99	162.31	99.80	79.84	72.60	62.29	56.37	52.64
225.0	556.46	364.32	219.56	126.56	84.23	73.26	69.31	57.91	52.42
270.0	509.96	490.22	424.85	334.93	240.17	154.85	99.14	73.48	61.85
315.0	570.93	799.48	1009.17	1143.18	1184.85	1130.24	993.15	774.48	548.78
360.0	595.06	953.24	1318.21	1595.23	1752.93	1774.65	1686.91	1599.40	1441.48

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1086.59	593.74	177.66	27.42	16.01	8.12	1.97	0.66	0.00
45.0	229.21	122.39	51.11	31.37	17.77	9.65	4.17	1.76	0.22
90.0	53.74	44.09	35.31	24.57	17.77	11.84	7.46	3.73	1.32
135.0	48.69	42.55	37.07	30.27	22.81	17.99	12.72	7.24	2.63
180.0	47.38	41.89	34.44	29.83	25.66	20.62	14.92	9.21	4.39
225.0	45.62	38.82	33.56	27.86	19.74	15.13	10.31	5.48	1.97
270.0	49.13	38.82	28.08	18.64	12.06	7.68	4.61	2.85	0.88
315.0	329.88	154.19	50.45	25.44	15.13	7.90	4.17	2.63	1.32
360.0	1086.59	593.74	177.66	27.42	16.01	8.12	1.97	0.66	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	0.22
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.88	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	0.22	0.22
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.66	0.66
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
135.0	0.00	0.22	0.22	0.22	0.22	0.44	0.22	0.44	0.44
180.0	0.66	0.66	0.88	1.10	1.10	0.88	0.88	0.66	0.66
225.0	0.00	0.44	0.88	1.10	1.10	1.32	1.10	0.66	0.88
270.0	0.00	0.00	0.22	0.22	0.22	0.22	0.22	0.22	0.22
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.44
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22

C/γ(°)	180.0
0.0	0.44
45.0	0.88
90.0	0.44
135.0	0.22
180.0	0.44
225.0	0.88
270.0	0.44
315.0	0.22
360.0	0.44