



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
www.bellingeel.com

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Client:

LumCAT: LSG3-HO-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.0890

Lamp flux(lm): -1.0

Power (W): 10.46

Number of Lamps: 0

PF: 0.9739

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1004.81, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.09

Central intensity(cd): 1518.965, Maximum intensity(cd): 1523.411

Angle of maximum intensity: C=45.0 γ =0.0

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

[C90/270]Total=45.2

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

[C90/270]Total=73.5

Maximum s/h(1/2): C0_180=0.72 C90_270=0.77

Maximum s/h(1/4): C0_180=0.70 C90_270=0.74

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 π solid angle : 96.848%

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

Date:
Humidity(%): 59%

Operator: Tester

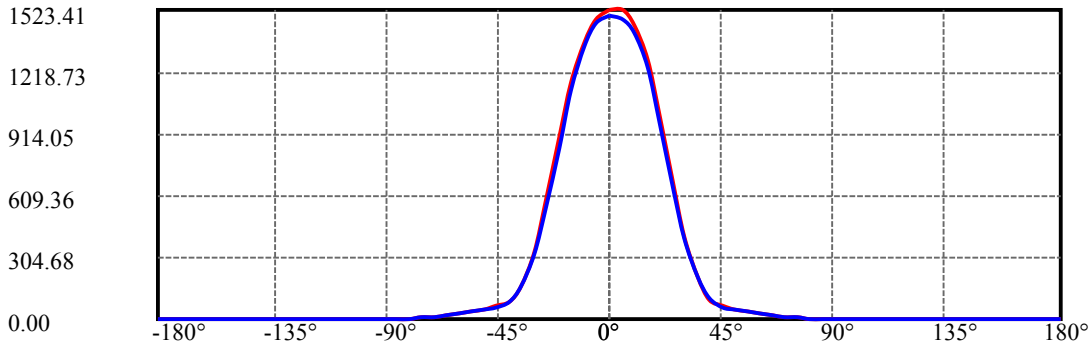
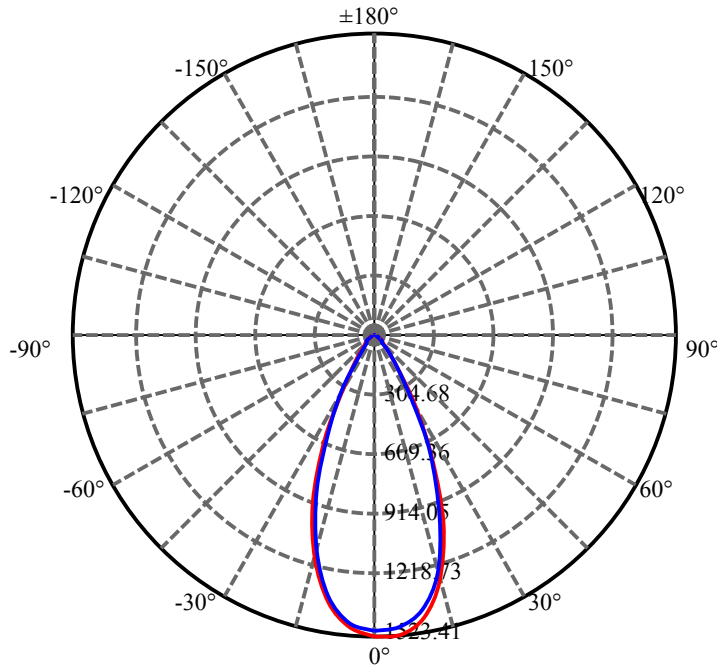
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1510.762	0.000	0	0.00%	0.00%
5.0	1488.824	35.859	35.859	0.00%	3.57%
10.0	1397.554	103.255	139.114	0.00%	13.84%
15.0	1203.449	154.290	293.404	0.00%	29.20%
20.0	928.501	175.703	469.106	0.00%	46.69%
25.0	614.228	161.804	630.91	0.00%	62.79%
30.0	361.614	123.494	754.404	0.00%	75.08%
35.0	188.045	80.941	835.345	0.00%	83.13%
40.0	96.642	47.498	882.843	0.00%	87.86%
45.0	64.675	29.869	912.712	0.00%	90.83%
50.0	51.761	23.528	936.24	0.00%	93.18%
55.0	41.123	20.196	956.436	0.00%	95.19%
60.0	31.120	16.699	973.135	0.00%	96.85%
65.0	21.620	12.821	985.956	0.00%	98.12%
70.0	12.649	8.677	994.633	0.00%	98.99%
75.0	6.298	4.953	999.586	0.00%	99.48%
80.0	3.282	2.563	1002.149	0.00%	99.74%
85.0	1.297	1.244	1003.393	0.00%	99.86%
90.0	0.132	0.391	1003.784	0.00%	99.90%
95.0	0.000	0.036	1003.821	0.00%	99.90%
100.0	0.027	0.007	1003.828	0.00%	99.90%
105.0	0.000	0.007	1003.835	0.00%	99.90%
110.0	0.027	0.007	1003.842	0.00%	99.90%
115.0	0.027	0.013	1003.855	0.00%	99.91%
120.0	0.053	0.019	1003.875	0.00%	99.91%
125.0	0.079	0.031	1003.905	0.00%	99.91%
130.0	0.053	0.029	1003.934	0.00%	99.91%
135.0	0.053	0.021	1003.955	0.00%	99.92%
140.0	0.132	0.034	1003.99	0.00%	99.92%
145.0	0.291	0.071	1004.06	0.00%	99.93%
150.0	0.397	0.101	1004.162	0.00%	99.94%
155.0	0.582	0.124	1004.285	0.00%	99.95%
160.0	0.768	0.142	1004.427	0.00%	99.96%
165.0	0.979	0.144	1004.571	0.00%	99.98%
170.0	1.138	0.126	1004.697	0.00%	99.99%
175.0	1.165	0.082	1004.779	0.00%	100.00%
180.0	1.376	0.030	1004.809	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	754.40	N.A.	75.08%
0-40	882.84	N.A.	87.86%
0-60	973.13	N.A.	96.85%
0-90	1003.78	N.A.	99.90%
0-120	1003.87	N.A.	99.91%
0-180	1004.81	N.A.	100.00%
60-90	30.65	N.A.	3.05%
90-120	0.09	N.A.	0.01%
90-130	0.15	N.A.	0.01%
90-150	0.38	N.A.	0.04%
90-180	0.99	N.A.	0.10%
0-33.05	803.85	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	139.11
10-20	329.99
20-30	285.30
30-40	128.44
40-50	53.40
50-60	36.89
60-70	21.50
70-80	7.52
80-90	1.64
90-100	0.04
100-110	0.01
110-120	0.03
120-130	0.06
130-140	0.06
140-150	0.17
150-160	0.27
160-170	0.27
170-180	0.08

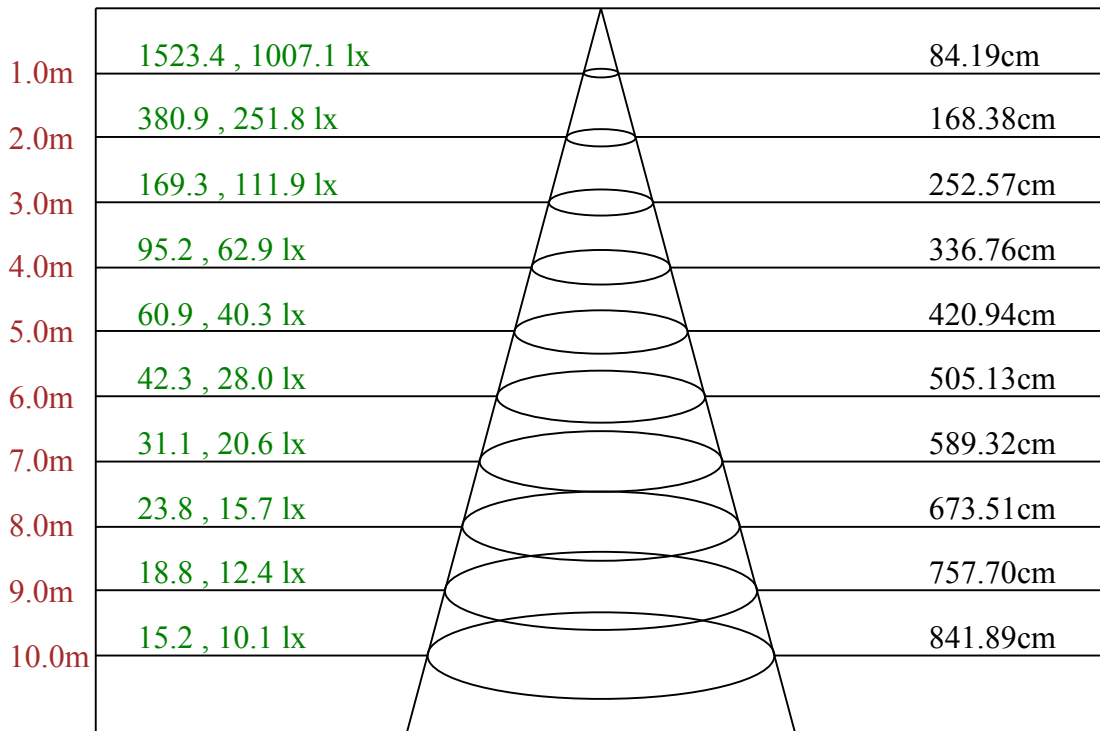


C0/C180: —

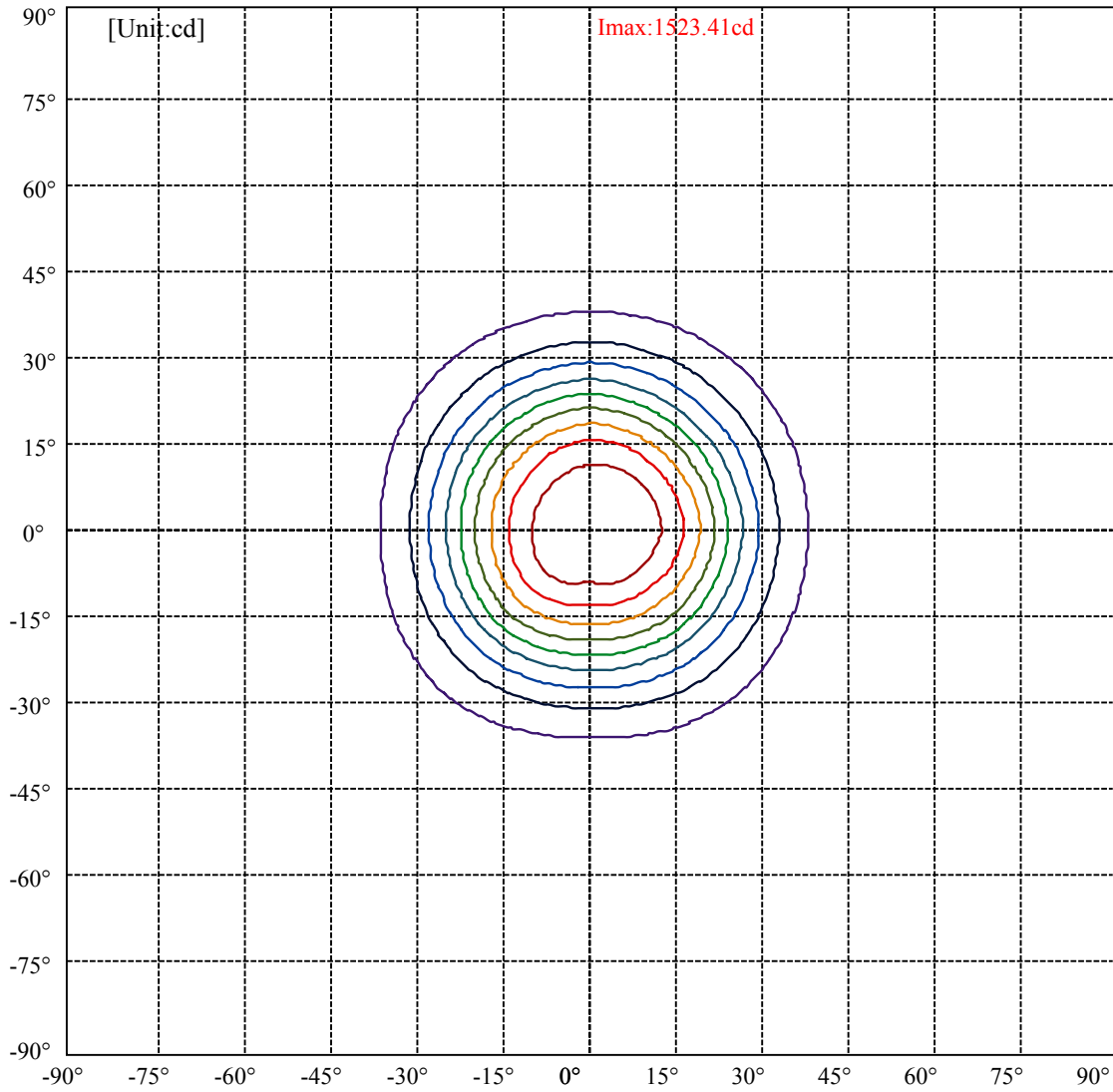
C90/C270: —

Field angle(10%Imax):C0/180Left:35.9 Right:37.6
:C90/270Left:35.7 Right:37.8

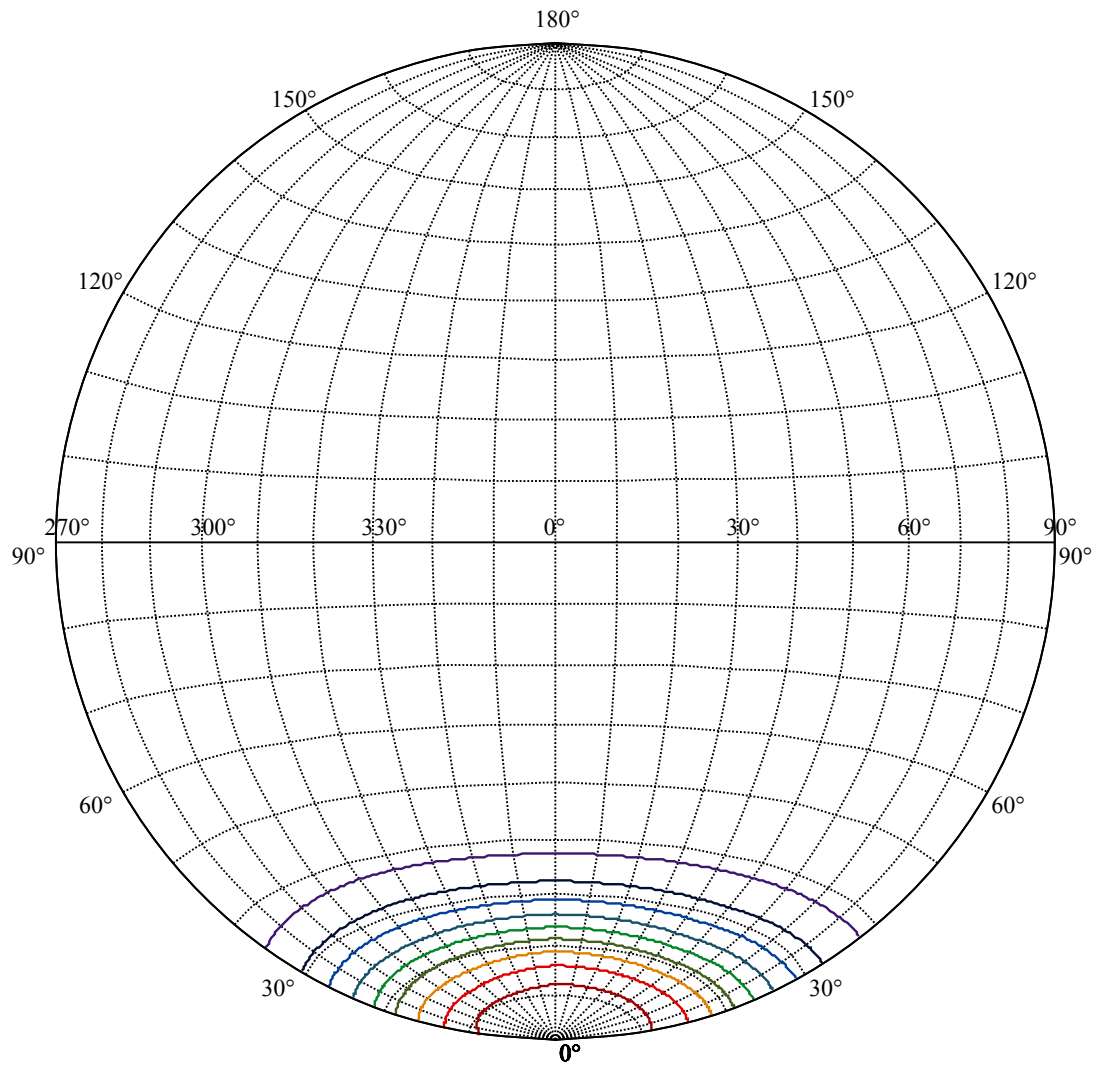
Beam Angle(50%Imax):C0/180Left:22.2 Right:23.8
:C90/270Left:21.6 Right:23.6



Max , Ave Beam angle of C45 plane 45.66



(10%Imax) 152.191	—
(20%Imax) 304.383	—
(30%Imax) 456.574	—
(40%Imax) 608.766	—
(50%Imax) 760.957	—
(60%Imax) 913.148	—
(70%Imax) 1065.34	—
(80%Imax) 1217.53	—
(90%Imax) 1369.72	—



House

[Unit:cd]

Road

Imax:1523.41

(10%Imax) 152.341	—
(20%Imax) 304.682	—
(30%Imax) 457.023	—
(40%Imax) 609.364	—
(50%Imax) 761.706	—
(60%Imax) 914.047	—
(70%Imax) 1066.39	—
(80%Imax) 1218.73	—
(90%Imax) 1371.07	—

LSG3-HO-5CCT-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	1518.97	1519.18	1449.74	1281.44	1015.11	682.32	403.51	207.26	98.87
45.0	1523.41	1518.12	1446.35	1251.80	956.90	625.16	369.63	197.10	102.89
90.0	1492.08	1478.95	1411.00	1242.27	975.95	657.34	394.83	205.99	102.89
135.0	1508.59	1459.90	1374.58	1189.35	914.34	619.23	358.20	186.72	98.23
180.0	1518.97	1477.47	1367.18	1167.75	898.68	587.26	331.53	165.13	88.92
225.0	1523.41	1492.93	1392.58	1188.29	905.45	585.57	345.08	184.61	101.62
270.0	1492.08	1457.57	1341.98	1124.56	838.98	546.62	321.15	159.84	80.45
315.0	1508.59	1506.48	1397.03	1182.15	922.60	610.34	369.00	197.73	99.29
360.0	1518.97	1519.18	1449.74	1281.44	1015.11	682.32	403.51	207.26	98.87

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	63.09	49.96	40.22	29.85	20.11	12.07	5.93	3.81	1.48
45.0	67.53	53.14	42.13	32.39	22.23	12.28	6.14	3.60	1.69
90.0	61.39	48.27	39.17	30.27	20.75	12.70	6.14	3.18	1.27
135.0	69.02	55.25	43.40	32.81	23.50	13.76	7.20	3.18	1.06
180.0	62.03	49.54	39.80	31.76	22.02	12.70	5.93	3.18	1.27
225.0	70.07	57.16	44.88	33.24	23.71	14.61	7.20	3.39	1.27
270.0	58.01	46.58	36.84	26.68	18.42	10.59	5.50	2.75	1.06
315.0	66.26	54.20	42.55	31.97	22.23	12.49	6.35	3.18	1.27
360.0	63.09	49.96	40.22	29.85	20.11	12.07	5.93	3.81	1.48

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.21	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	0.21	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	0.21	0.00	0.21	0.00	0.21	0.21	0.42	0.42	0.42
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	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	0.42	0.42	0.64	1.06	0.64	1.27	1.27
45.0	0.00	0.42	0.42	0.64	0.64	0.85	0.85	1.27	1.06
90.0	0.00	0.00	0.21	0.21	0.64	0.64	1.06	1.06	1.27
135.0	0.00	0.00	0.00	0.21	0.42	0.64	1.06	0.85	1.06
180.0	0.00	0.00	0.00	0.00	0.42	0.42	0.85	1.06	0.85
225.0	0.00	0.00	0.00	0.21	0.42	0.64	0.85	1.06	1.06
270.0	0.42	0.42	0.85	0.85	0.85	1.06	1.69	1.48	1.48
315.0	0.00	0.00	0.42	0.64	0.64	0.85	0.85	1.06	1.27
360.0	0.00	0.21	0.42	0.42	0.64	1.06	0.64	1.27	1.27

C/γ(°)	180.0
0.0	1.27
45.0	1.27
90.0	1.69
135.0	1.27
180.0	1.27
225.0	1.27
270.0	1.69
315.0	1.27
360.0	1.27