



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

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Client:

LumCAT: LSG3-HO-3018K

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

Photometric Results

Lumens(lm): 751.11, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 70.25

Central intensity(cd): 1103.237, Maximum intensity(cd): 1134.720

Angle of maximum intensity: C=180.0 γ =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 π solid angle : 96.854%

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

Date:
Humidity(%): 59%

Operator: Tester

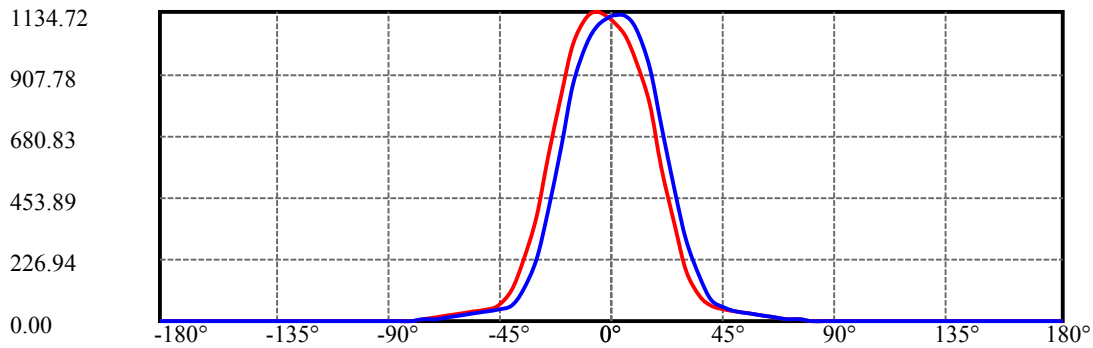
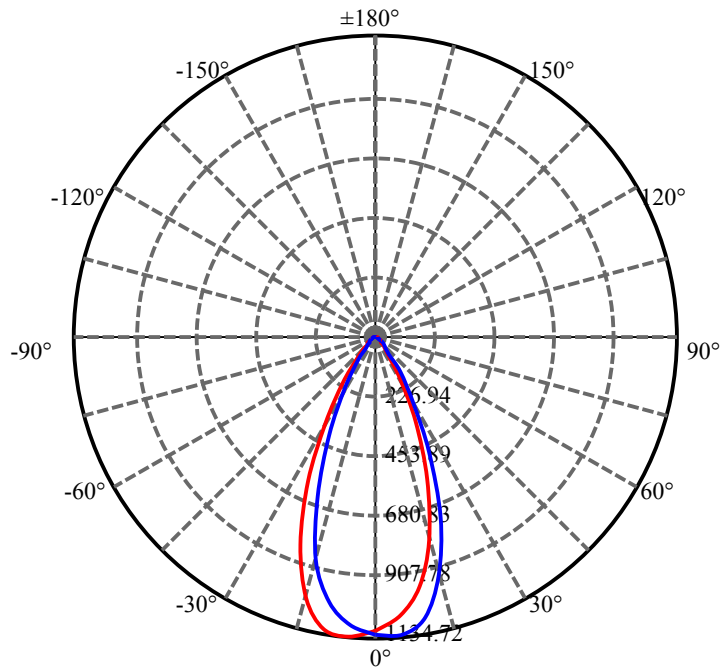
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1109.754	0.000	0	0.00%	0.00%
5.0	1097.885	26.392	26.392	0.00%	3.51%
10.0	1037.522	76.390	102.782	0.00%	13.68%
15.0	897.713	114.797	217.579	0.00%	28.97%
20.0	685.334	130.465	348.044	0.00%	46.34%
25.0	456.473	119.755	467.799	0.00%	62.28%
30.0	270.181	91.959	559.757	0.00%	74.52%
35.0	145.839	61.262	621.019	0.00%	82.68%
40.0	78.791	37.478	658.497	0.00%	87.67%
45.0	49.487	23.752	682.249	0.00%	90.83%
50.0	38.634	17.806	700.055	0.00%	93.20%
55.0	30.488	15.029	715.084	0.00%	95.20%
60.0	23.167	12.402	727.486	0.00%	96.85%
65.0	15.953	9.510	736.997	0.00%	98.12%
70.0	9.606	6.472	743.468	0.00%	98.98%
75.0	4.887	3.788	747.256	0.00%	99.49%
80.0	2.349	1.936	749.192	0.00%	99.74%
85.0	0.868	0.874	750.066	0.00%	99.86%
90.0	0.106	0.267	750.333	0.00%	99.90%
95.0	0.021	0.035	750.368	0.00%	99.90%
100.0	0.021	0.011	750.379	0.00%	99.90%
105.0	0.021	0.011	750.39	0.00%	99.90%
110.0	0.021	0.011	750.401	0.00%	99.91%
115.0	0.000	0.005	750.407	0.00%	99.91%
120.0	0.021	0.005	750.412	0.00%	99.91%
125.0	0.021	0.010	750.422	0.00%	99.91%
130.0	0.021	0.009	750.431	0.00%	99.91%
135.0	0.127	0.030	750.461	0.00%	99.91%
140.0	0.106	0.043	750.504	0.00%	99.92%
145.0	0.212	0.053	750.557	0.00%	99.93%
150.0	0.296	0.075	750.632	0.00%	99.94%
155.0	0.466	0.096	750.728	0.00%	99.95%
160.0	0.550	0.107	750.835	0.00%	99.96%
165.0	0.741	0.106	750.941	0.00%	99.98%
170.0	0.783	0.090	751.031	0.00%	99.99%
175.0	0.889	0.060	751.091	0.00%	100.00%
180.0	0.889	0.021	751.112	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	559.76	N.A.	74.52%
0-40	658.50	N.A.	87.67%
0-60	727.49	N.A.	96.85%
0-90	750.33	N.A.	99.90%
0-120	750.41	N.A.	99.91%
0-180	751.11	N.A.	100.00%
60-90	22.85	N.A.	3.04%
90-120	0.08	N.A.	0.01%
90-130	0.10	N.A.	0.01%
90-150	0.30	N.A.	0.04%
90-180	0.76	N.A.	0.10%
0-33.36	600.89	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	102.78
10-20	245.26
20-30	211.71
30-40	98.74
40-50	41.56
50-60	27.43
60-70	15.98
70-80	5.72
80-90	1.14
90-100	0.05
100-110	0.02
110-120	0.01
120-130	0.02
130-140	0.07
140-150	0.13
150-160	0.20
160-170	0.20
170-180	0.06

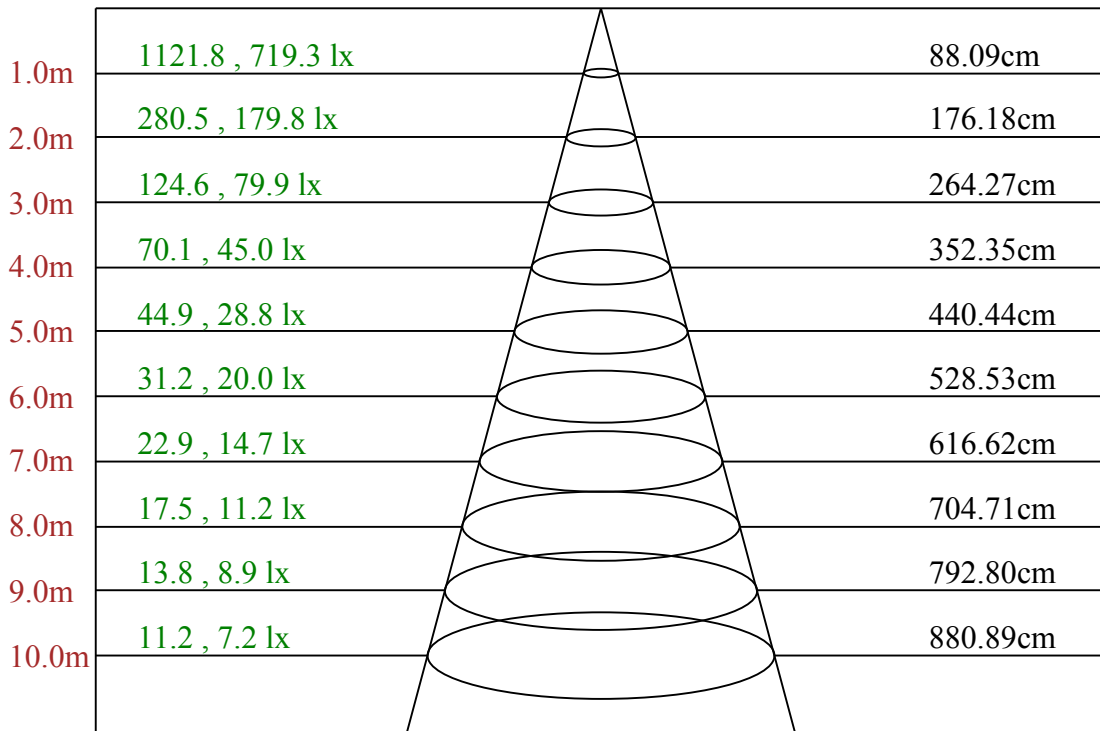


C0/C180: —

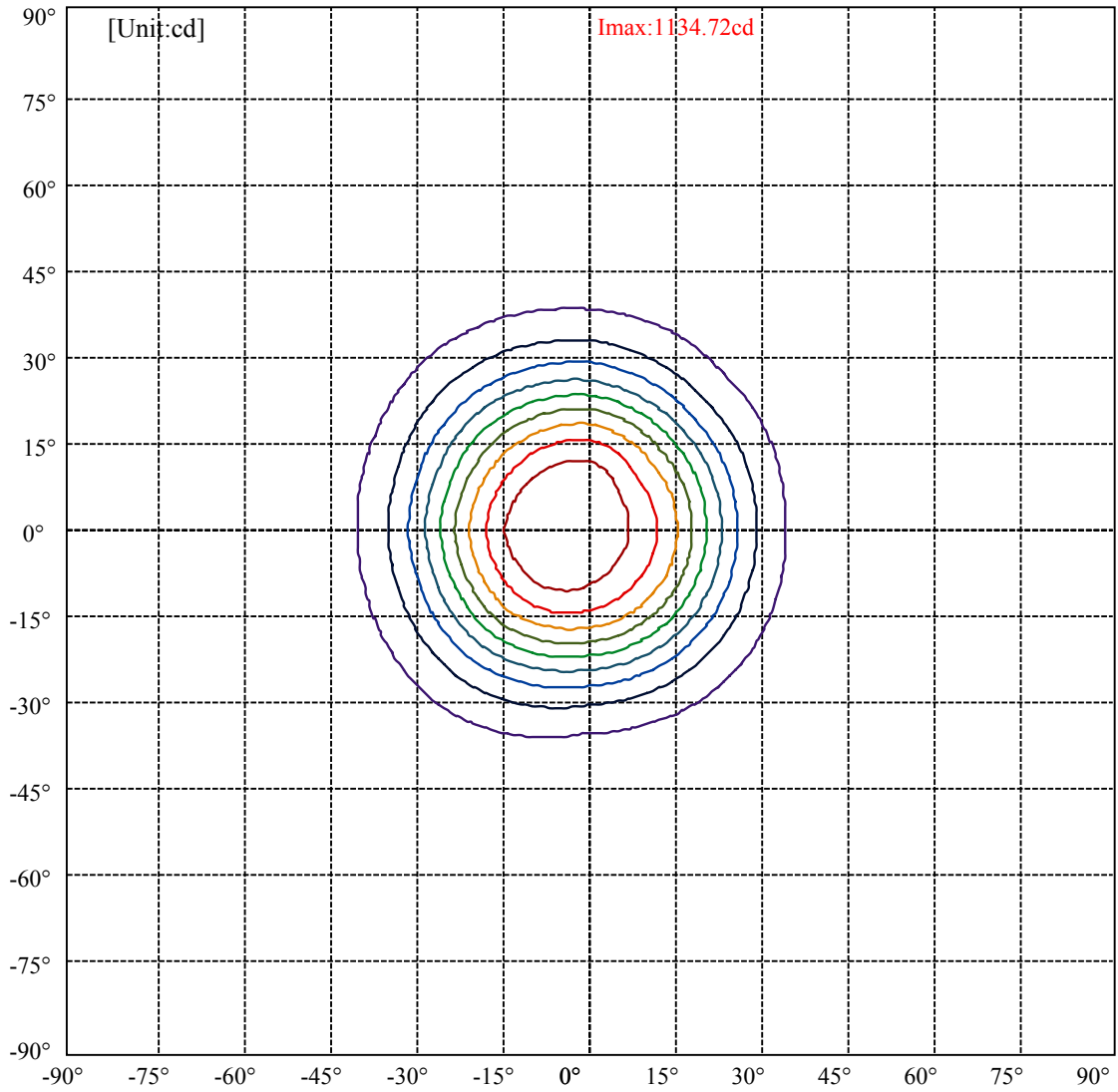
C90/C270: —

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

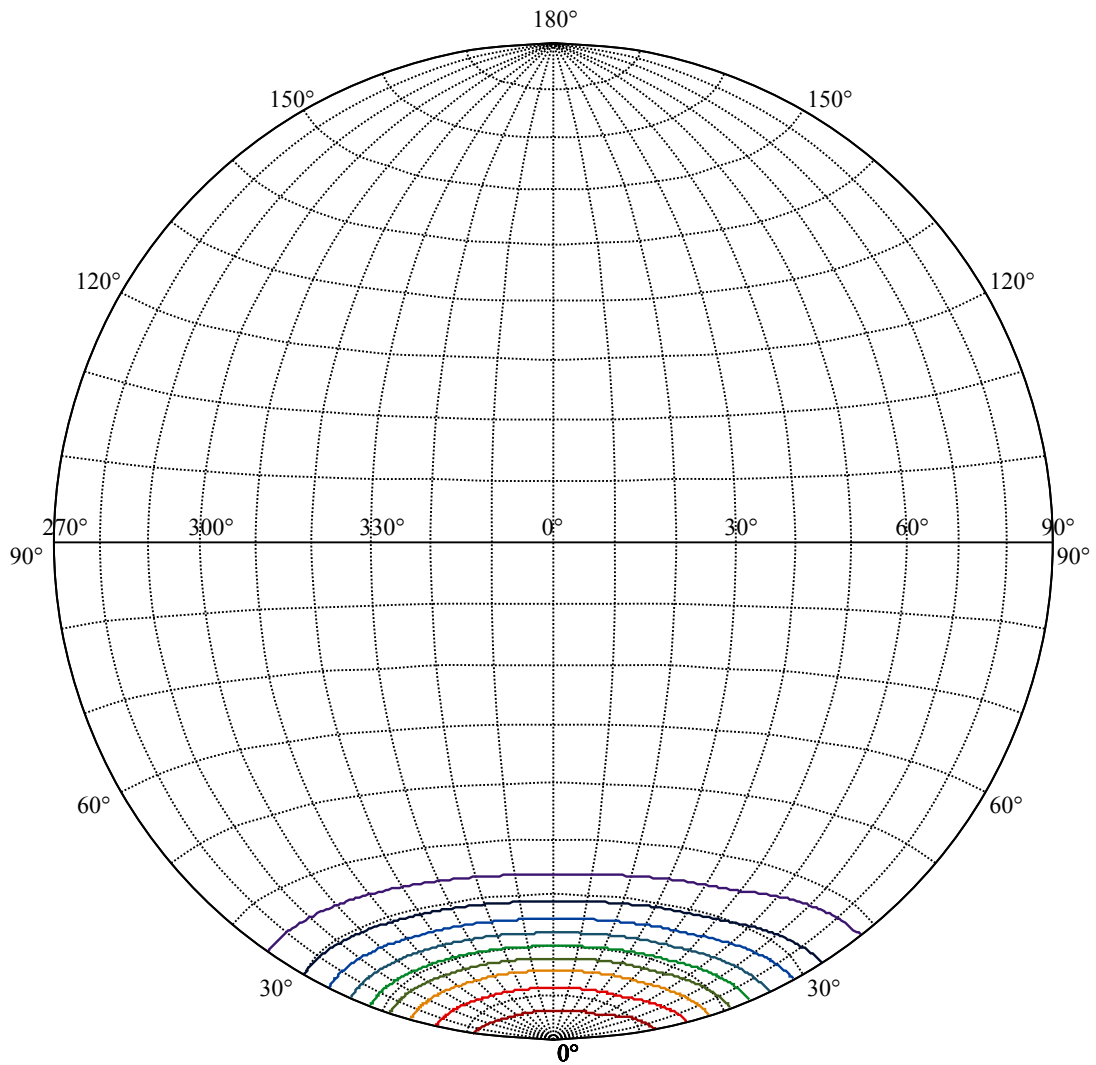
Beam Angle(50%Imax):C0/180Left:25.7 Right:20.0
 :C90/270Left:21.7 Right:23.3



Max , Ave Beam angle of C180 plane 47.54



(10%Imax) 113.472	—
(20%Imax) 226.944	—
(30%Imax) 340.416	—
(40%Imax) 453.888	—
(50%Imax) 567.36	—
(60%Imax) 680.832	—
(70%Imax) 794.304	—
(80%Imax) 907.776	—
(90%Imax) 1021.25	—












House

[Unit:cd]

Road

Imax:1134.72

(10%Imax)	113.472	
(20%Imax)	226.944	
(30%Imax)	340.416	
(40%Imax)	453.888	
(50%Imax)	567.36	
(60%Imax)	680.832	
(70%Imax)	794.304	
(80%Imax)	907.776	
(90%Imax)	1021.25	

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	1103.24	1053.14	953.78	794.85	565.84	350.88	181.11	88.35	53.32
45.0	1108.48	1073.62	970.54	818.54	596.64	370.00	206.50	107.31	63.81
90.0	1118.64	1123.38	1073.96	928.73	721.05	479.85	296.21	160.97	80.74
135.0	1108.65	1132.18	1109.50	972.40	771.83	554.84	351.22	205.48	108.33
180.0	1103.24	1134.72	1116.78	1014.38	831.24	598.00	378.64	215.47	112.56
225.0	1108.48	1124.23	1096.98	971.55	772.50	532.15	328.20	180.43	94.11
270.0	1118.64	1086.31	1011.50	870.17	639.80	403.69	225.62	110.02	57.38
315.0	1108.65	1055.51	967.15	811.09	583.78	362.39	193.97	98.68	60.09
360.0	1103.24	1053.14	953.78	794.85	565.84	350.88	181.11	88.35	53.32
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	41.64	33.01	27.08	19.80	12.53	7.11	3.55	1.69	0.51
45.0	48.92	39.44	29.45	21.67	14.90	8.29	4.06	1.69	0.34
90.0	48.92	38.42	30.64	23.19	16.25	10.49	5.42	2.71	0.85
135.0	57.89	44.52	35.55	28.10	20.31	13.03	7.28	3.22	1.19
180.0	56.70	40.96	33.34	26.24	18.28	11.85	5.59	3.22	1.69
225.0	55.52	42.99	33.34	26.74	19.47	11.85	6.26	2.71	1.35
270.0	40.79	32.84	26.41	18.96	12.53	6.94	3.72	1.86	0.68
315.0	45.53	36.90	28.10	20.65	13.37	7.28	3.22	1.69	0.34
360.0	41.64	33.01	27.08	19.80	12.53	7.11	3.55	1.69	0.51
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	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.34	0.17	0.17	0.17	0.17	0.00	0.17	0.17	0.17
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	0.17	0.17	0.17	0.51	0.51	0.68	0.68	0.68	0.85
45.0	0.00	0.00	0.51	0.34	0.51	0.68	0.68	0.68	0.85
90.0	0.00	0.00	0.17	0.34	0.34	0.51	0.68	1.02	1.02
135.0	0.00	0.00	0.00	0.17	0.34	0.34	0.68	0.68	0.68
180.0	0.00	0.00	0.00	0.00	0.34	0.17	0.51	0.85	0.68
225.0	0.00	0.00	0.00	0.00	0.17	0.34	0.51	0.51	0.68
270.0	0.51	0.51	0.51	0.68	0.85	1.02	1.35	1.19	1.35
315.0	0.34	0.17	0.34	0.34	0.68	0.68	0.85	0.68	1.02
360.0	0.17	0.17	0.17	0.51	0.51	0.68	0.68	0.68	0.85
C/ γ (°)	180.0								
0.0	0.68								
45.0	0.85								
90.0	1.19								
135.0	0.85								
180.0	0.68								
225.0	0.85								
270.0	1.19								
315.0	0.85								
360.0	0.68								