



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

LumCAT: LL2G-HO-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.02

LampCAT:

Current(A): 0.0490

Lamp flux(lm): -1.0

Power (W): 5.45

Number of Lamps: 0

PF: 0.9346

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 428.81, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 78.71

Central intensity(cd): 1022.946, Maximum intensity(cd): 1022.946

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=31.2

[C90/270]Total=31.6

Field angle(10%Imax): [C0/180]Total=63.8

[C90/270]Total=63.9

Maximum s/h(1/2): C0_180=0.49 C90_270=0.61

Maximum s/h(1/4): C0_180=0.53 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.823%

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

Date:
Humidity(%): 59%

Operator: Tester

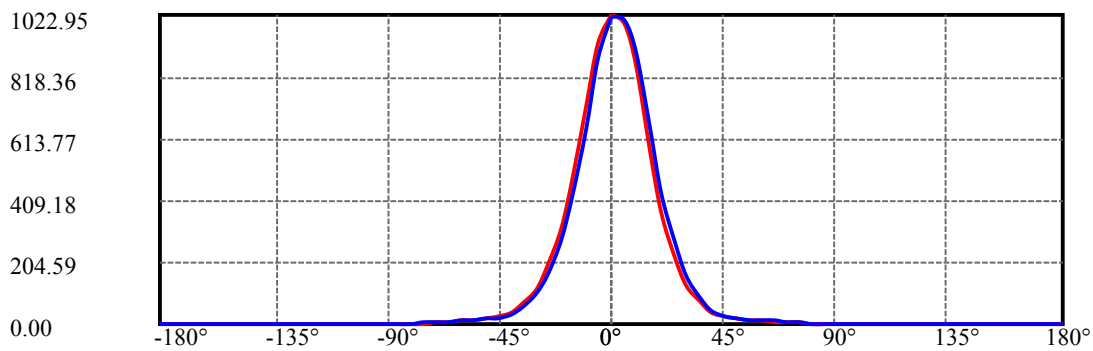
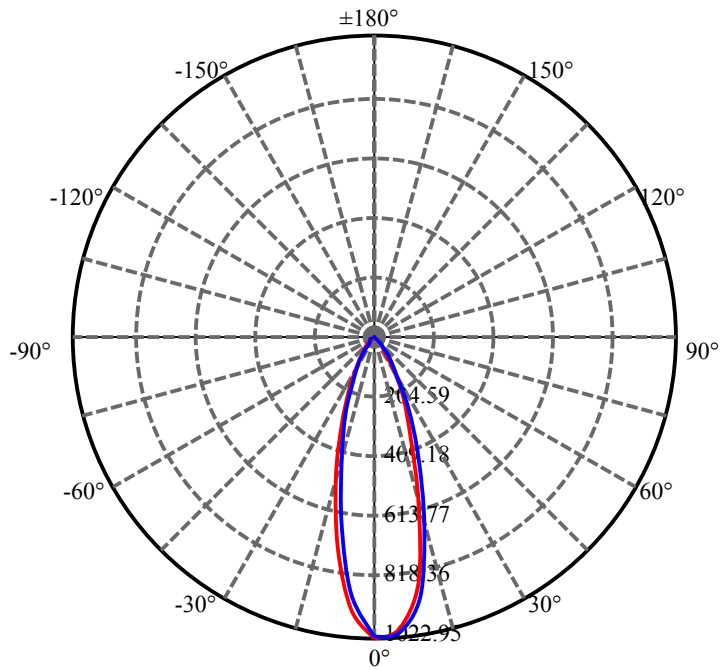
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1018.607	0.000	0	0.00%	0.00%
5.0	954.620	23.589	23.589	0.00%	5.50%
10.0	774.593	61.859	85.449	0.00%	19.93%
15.0	534.231	77.639	163.087	0.00%	38.03%
20.0	346.610	72.594	235.681	0.00%	54.96%
25.0	211.703	58.557	294.238	0.00%	68.62%
30.0	122.788	42.330	336.568	0.00%	78.49%
35.0	68.909	28.229	364.796	0.00%	85.07%
40.0	38.715	17.956	382.753	0.00%	89.26%
45.0	23.579	11.534	394.287	0.00%	91.95%
50.0	17.333	8.267	402.554	0.00%	93.88%
55.0	13.999	6.813	409.366	0.00%	95.47%
60.0	11.194	5.823	415.189	0.00%	96.82%
65.0	8.468	4.780	419.969	0.00%	97.94%
70.0	6.113	3.692	423.661	0.00%	98.80%
75.0	3.864	2.608	426.269	0.00%	99.41%
80.0	1.826	1.522	427.791	0.00%	99.76%
85.0	0.371	0.597	428.388	0.00%	99.90%
90.0	0.000	0.101	428.489	0.00%	99.93%
95.0	0.000	0.000	428.489	0.00%	99.93%
100.0	0.000	0.000	428.489	0.00%	99.93%
105.0	0.000	0.000	428.489	0.00%	99.93%
110.0	0.000	0.000	428.489	0.00%	99.93%
115.0	0.027	0.007	428.496	0.00%	99.93%
120.0	0.027	0.013	428.509	0.00%	99.93%
125.0	0.053	0.018	428.527	0.00%	99.93%
130.0	0.053	0.023	428.55	0.00%	99.94%
135.0	0.027	0.016	428.566	0.00%	99.94%
140.0	0.053	0.015	428.581	0.00%	99.95%
145.0	0.079	0.022	428.603	0.00%	99.95%
150.0	0.079	0.023	428.627	0.00%	99.96%
155.0	0.132	0.027	428.653	0.00%	99.96%
160.0	0.238	0.039	428.692	0.00%	99.97%
165.0	0.318	0.046	428.738	0.00%	99.98%
170.0	0.344	0.039	428.777	0.00%	99.99%
175.0	0.344	0.025	428.802	0.00%	100.00%
180.0	0.371	0.009	428.81	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	336.57	N.A.	78.49%
0-40	382.75	N.A.	89.26%
0-60	415.19	N.A.	96.82%
0-90	428.49	N.A.	99.93%
0-120	428.51	N.A.	99.93%
0-180	428.81	N.A.	100.00%
60-90	13.30	N.A.	3.10%
90-120	0.02	N.A.	0.00%
90-130	0.06	N.A.	0.01%
90-150	0.14	N.A.	0.03%
90-180	0.31	N.A.	0.07%
0-31.15	343.05	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	85.45
10-20	150.23
20-30	100.89
30-40	46.18
40-50	19.80
50-60	12.64
60-70	8.47
70-80	4.13
80-90	0.70
90-100	0.00
100-110	0.00
110-120	0.02
120-130	0.04
130-140	0.03
140-150	0.05
150-160	0.07
160-170	0.09
170-180	0.02

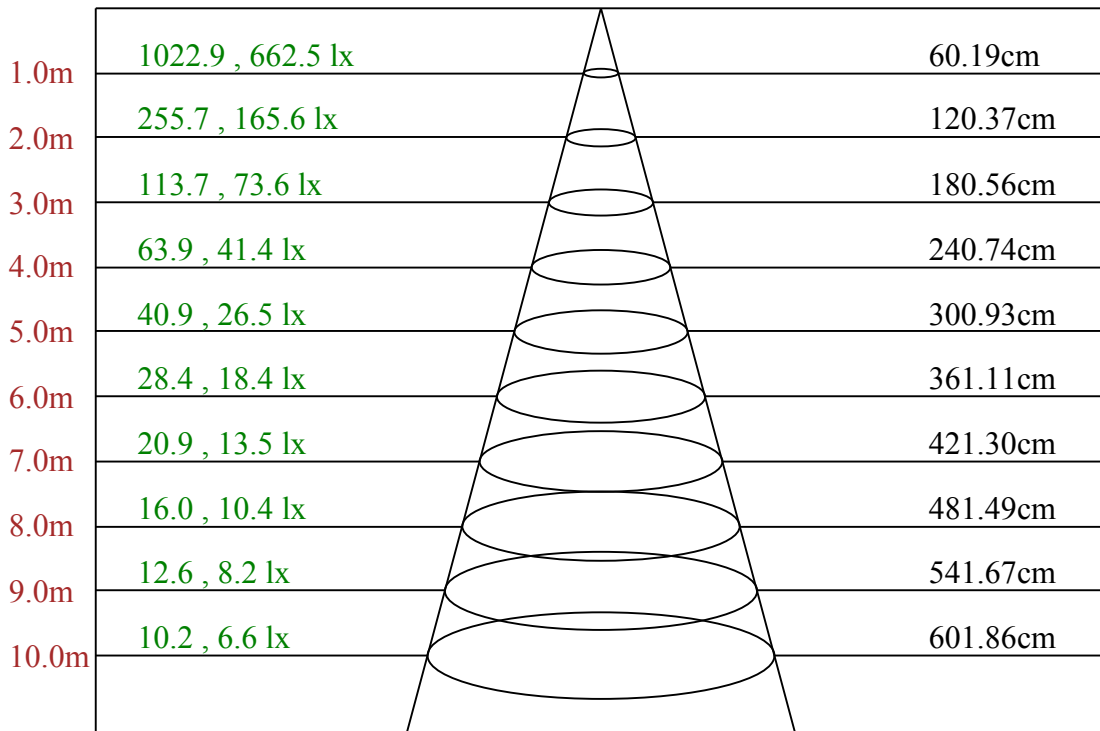


C0/C180: —

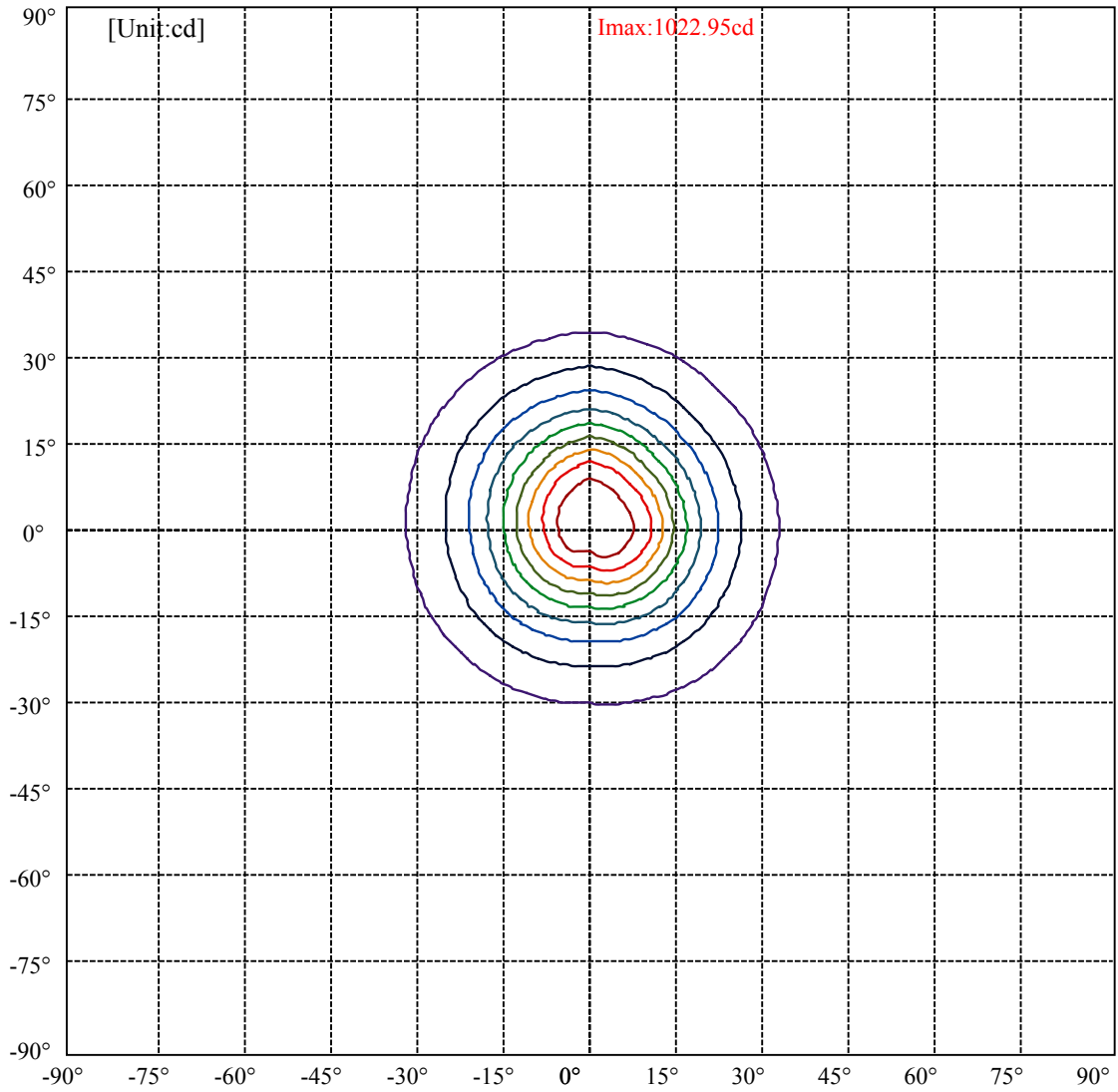
C90/C270: —

Field angle(10%Imax):C0/180Left:31.4 Right:32.4
 :C90/270Left:29.8 Right:34.1

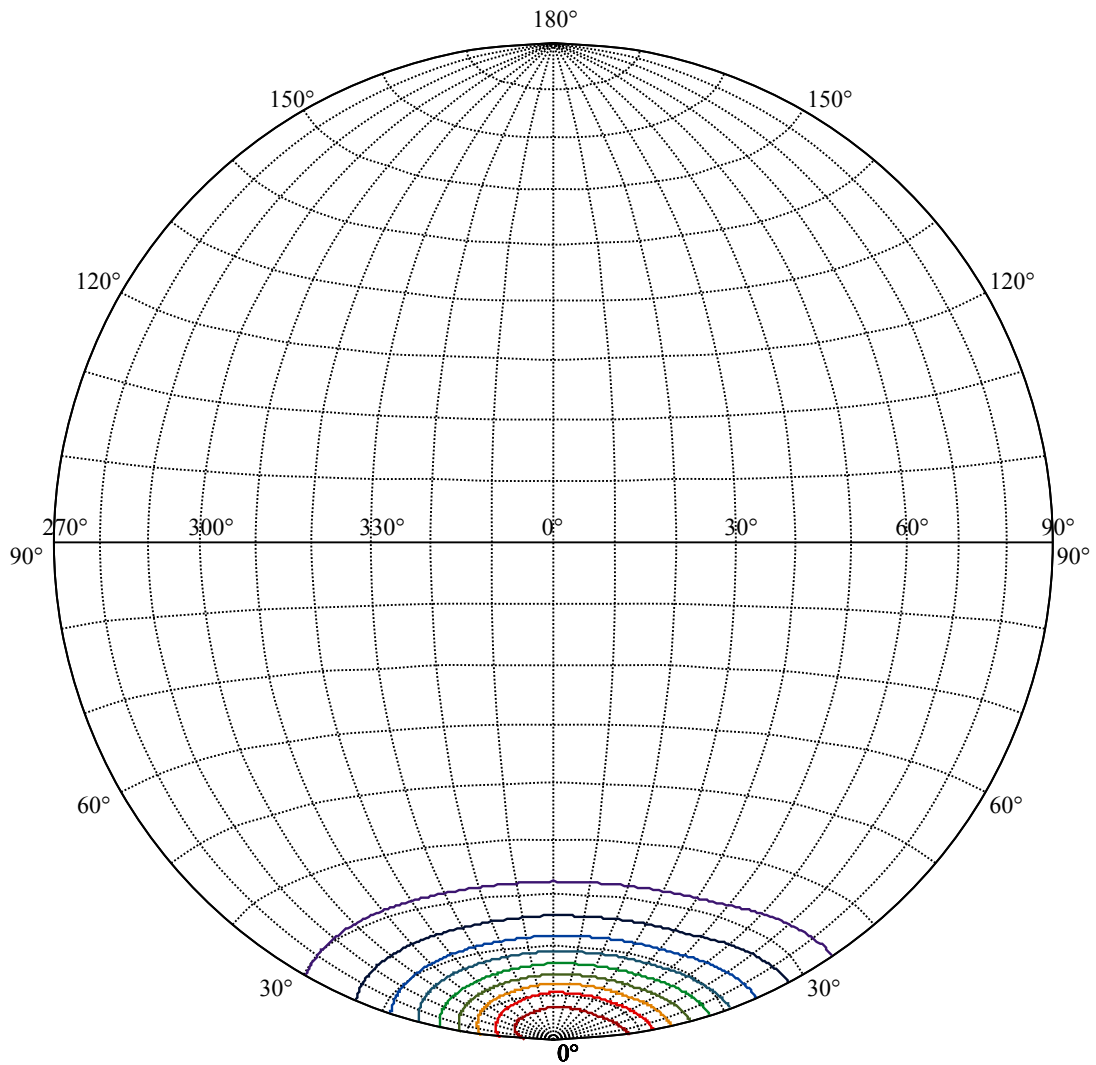
Beam Angle(50%Imax):C0/180Left:14.6 Right:16.6
 :C90/270Left:13.2 Right:18.4



Max , Ave Beam angle of C0 plane 33.50



(10%Imax) 101.689	—
(20%Imax) 203.378	—
(30%Imax) 305.067	—
(40%Imax) 406.757	—
(50%Imax) 508.446	—
(60%Imax) 610.135	—
(70%Imax) 711.824	—
(80%Imax) 813.513	—
(90%Imax) 915.202	—



House

[Unit:cd]

Road

I_{max}:1022.95

(10%I _{max}) 102.295	—
(20%I _{max}) 204.589	—
(30%I _{max}) 306.884	—
(40%I _{max}) 409.178	—
(50%I _{max}) 511.473	—
(60%I _{max}) 613.768	—
(70%I _{max}) 716.062	—
(80%I _{max}) 818.357	—
(90%I _{max}) 920.651	—

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	1022.95	992.67	849.56	578.37	367.30	223.98	129.77	73.67	39.80
45.0	1019.56	986.96	843.21	585.36	369.84	220.59	125.33	69.02	38.32
90.0	1013.42	1005.59	893.39	656.91	434.41	275.43	161.74	87.22	47.00
135.0	1018.50	977.64	798.54	558.90	377.25	233.51	131.89	70.92	39.38
180.0	1022.95	928.74	726.56	491.79	319.46	194.98	116.44	67.32	37.68
225.0	1019.56	912.23	679.57	462.99	300.62	177.83	101.62	60.55	37.05
270.0	1013.42	873.91	645.27	432.09	276.48	167.25	98.65	58.22	33.87
315.0	1018.50	959.22	760.65	507.45	327.50	200.06	116.86	64.36	36.63
360.0	1022.95	992.67	849.56	578.37	367.30	223.98	129.77	73.67	39.80

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	23.50	17.36	14.18	11.64	9.10	6.77	4.66	2.54	0.85
45.0	22.86	16.94	13.97	11.43	8.68	6.77	4.23	2.33	0.85
90.0	27.31	19.27	15.45	12.70	9.74	6.99	4.87	2.54	0.64
135.0	23.29	17.36	13.76	10.80	8.26	5.72	3.39	1.48	0.21
180.0	23.08	16.94	13.55	10.59	7.62	5.50	2.96	1.06	0.00
225.0	23.71	17.36	13.55	10.80	7.83	5.29	3.18	1.06	0.00
270.0	22.02	16.72	13.55	10.59	8.05	5.72	3.60	1.69	0.00
315.0	22.86	16.72	13.97	11.01	8.47	6.14	4.02	1.91	0.42
360.0	23.50	17.36	14.18	11.64	9.10	6.77	4.66	2.54	0.85

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

C/γ(°)	180.0
0.0	0.21
45.0	0.21
90.0	0.85
135.0	0.21
180.0	0.21
225.0	0.21
270.0	0.85
315.0	0.21
360.0	0.21