



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

LumCAT: LL3G-HO-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.12

LampCAT:

Current(A): 0.0910

Lamp flux(lm): -1.0

Power (W): 10.70

Number of Lamps: 0

PF: 0.9750

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 782.75, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 73.19

Central intensity(cd): 1239.892, Maximum intensity(cd): 1247.787

Angle of maximum intensity: C=45.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.0

[C90/270]Total=44.7

Field angle(10%Imax): [C0/180]Total=70.9

[C90/270]Total=72.7

Maximum s/h(1/2): C0_180=0.73 C90_270=0.70

Maximum s/h(1/4): C0_180=0.71 C90_270=0.68

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 : 96.393%

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

Date:
Humidity(%): 59%

Operator: Tester

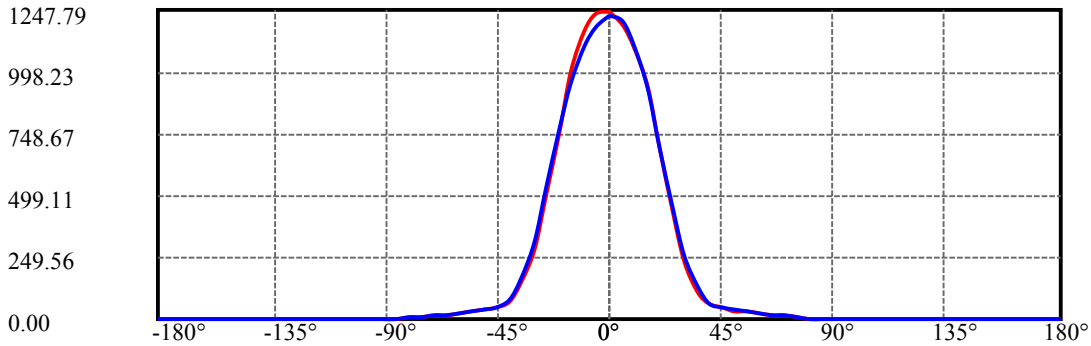
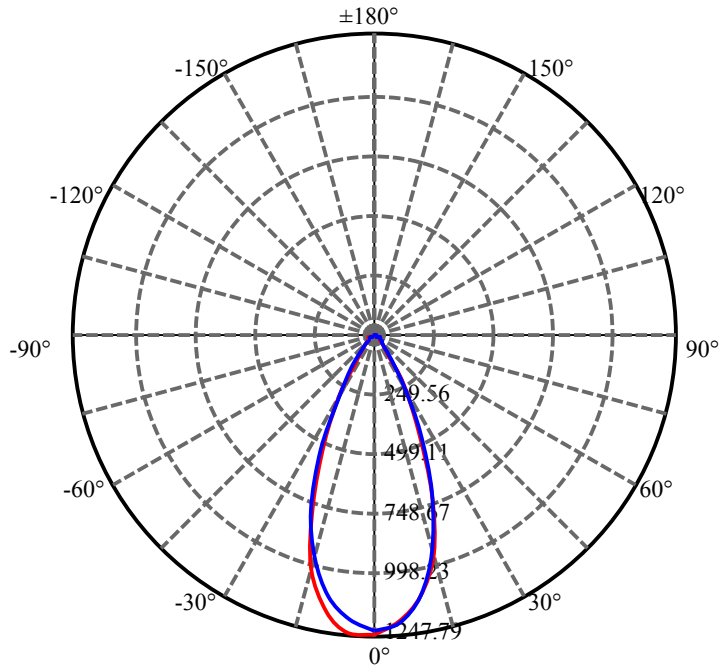
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1236.029	0.000	0	0.00%	0.00%
5.0	1205.439	29.187	29.187	0.00%	3.73%
10.0	1117.742	83.108	112.295	0.00%	14.35%
15.0	957.801	123.120	235.414	0.00%	30.08%
20.0	733.593	139.395	374.809	0.00%	47.88%
25.0	477.956	127.069	501.878	0.00%	64.12%
30.0	271.426	94.835	596.713	0.00%	76.23%
35.0	136.658	60.093	656.806	0.00%	83.91%
40.0	68.381	34.209	691.015	0.00%	88.28%
45.0	44.342	20.872	711.887	0.00%	90.95%
50.0	35.860	16.206	728.093	0.00%	93.02%
55.0	29.435	14.197	742.29	0.00%	94.83%
60.0	23.431	12.220	754.51	0.00%	96.39%
65.0	17.531	9.958	764.468	0.00%	97.66%
70.0	12.240	7.538	772.006	0.00%	98.63%
75.0	7.852	5.252	777.258	0.00%	99.30%
80.0	4.073	3.191	780.449	0.00%	99.71%
85.0	1.176	1.426	781.875	0.00%	99.89%
90.0	0.000	0.322	782.197	0.00%	99.93%
95.0	0.000	0.000	782.197	0.00%	99.93%
100.0	0.000	0.000	782.197	0.00%	99.93%
105.0	0.000	0.000	782.197	0.00%	99.93%
110.0	0.000	0.000	782.197	0.00%	99.93%
115.0	0.000	0.000	782.197	0.00%	99.93%
120.0	0.000	0.000	782.197	0.00%	99.93%
125.0	0.000	0.000	782.197	0.00%	99.93%
130.0	0.000	0.000	782.197	0.00%	99.93%
135.0	0.021	0.004	782.201	0.00%	99.93%
140.0	0.084	0.019	782.221	0.00%	99.93%
145.0	0.147	0.039	782.259	0.00%	99.94%
150.0	0.189	0.049	782.309	0.00%	99.94%
155.0	0.378	0.072	782.381	0.00%	99.95%
160.0	0.588	0.101	782.482	0.00%	99.97%
165.0	0.672	0.104	782.586	0.00%	99.98%
170.0	0.714	0.082	782.668	0.00%	99.99%
175.0	0.861	0.056	782.724	0.00%	100.00%
180.0	0.924	0.021	782.746	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	596.71	N.A.	76.23%
0-40	691.02	N.A.	88.28%
0-60	754.51	N.A.	96.39%
0-90	782.20	N.A.	99.93%
0-120	782.20	N.A.	99.93%
0-180	782.75	N.A.	100.00%
60-90	27.69	N.A.	3.54%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.11	N.A.	0.01%
90-180	0.53	N.A.	0.07%
0-32.45	626.20	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	112.29
10-20	262.51
20-30	221.90
30-40	94.30
40-50	37.08
50-60	26.42
60-70	17.50
70-80	8.44
80-90	1.75
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.02
140-150	0.09
150-160	0.17
160-170	0.19
170-180	0.06



C0/C180: —

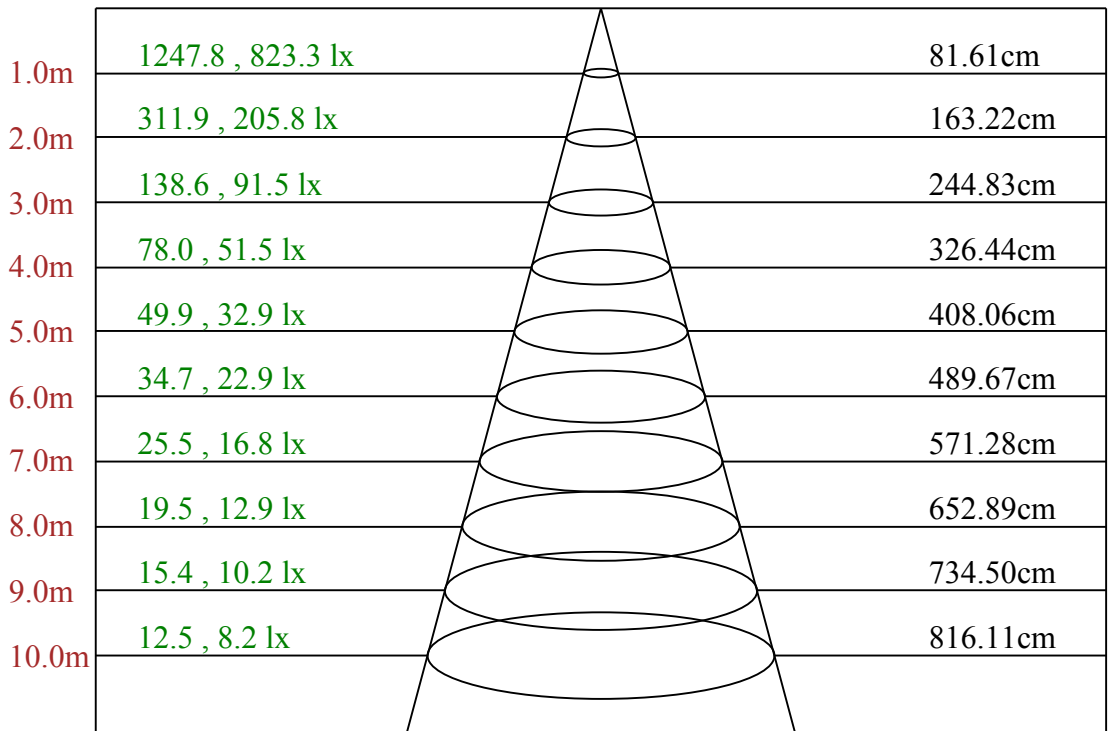
C90/C270: —

Field angle(10%Imax):C0/180Left:36.4 Right:34.5

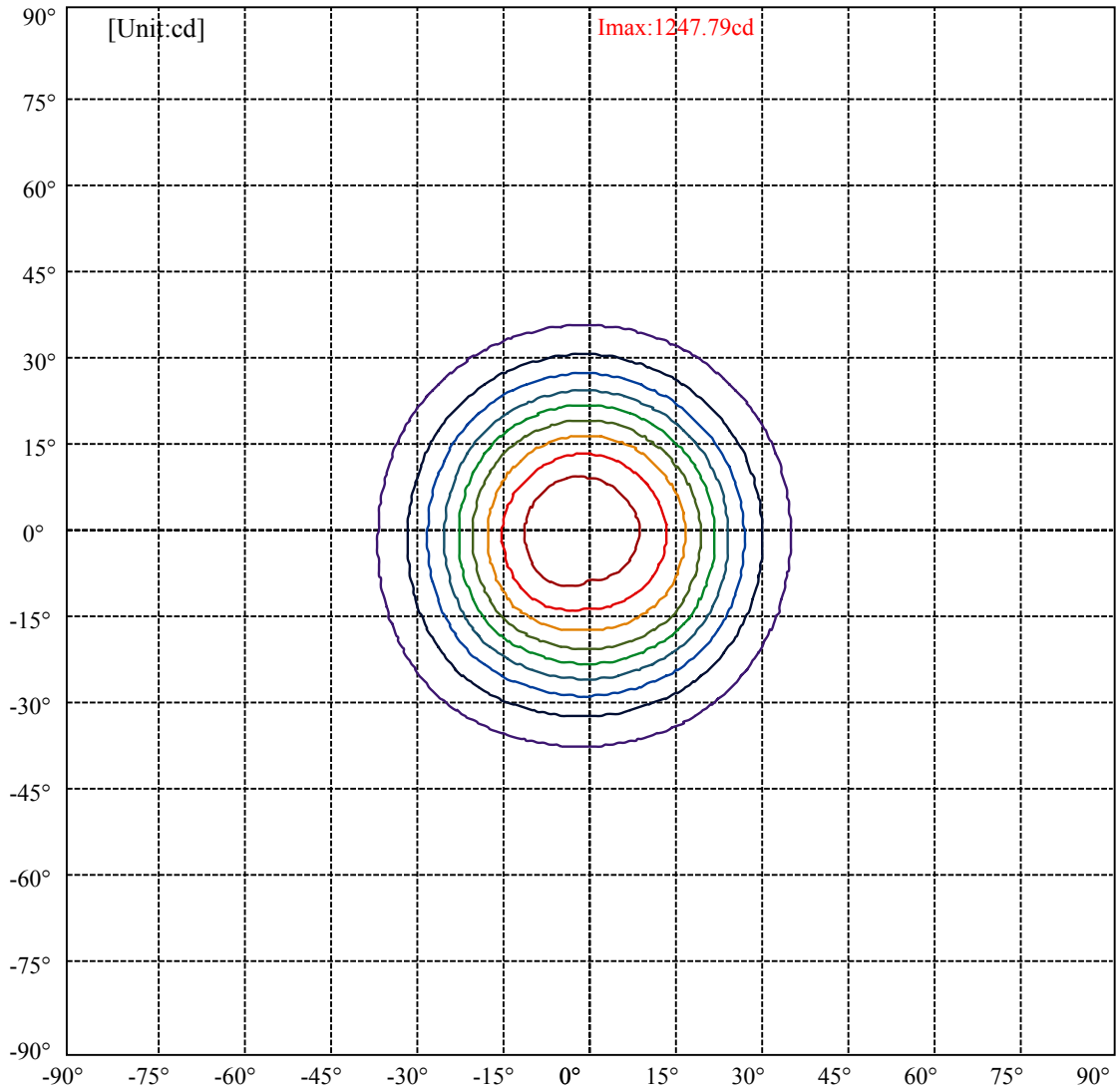
:C90/270Left:37.3 Right:35.4

Beam Angle(50%Imax):C0/180Left:22.5 Right:21.5

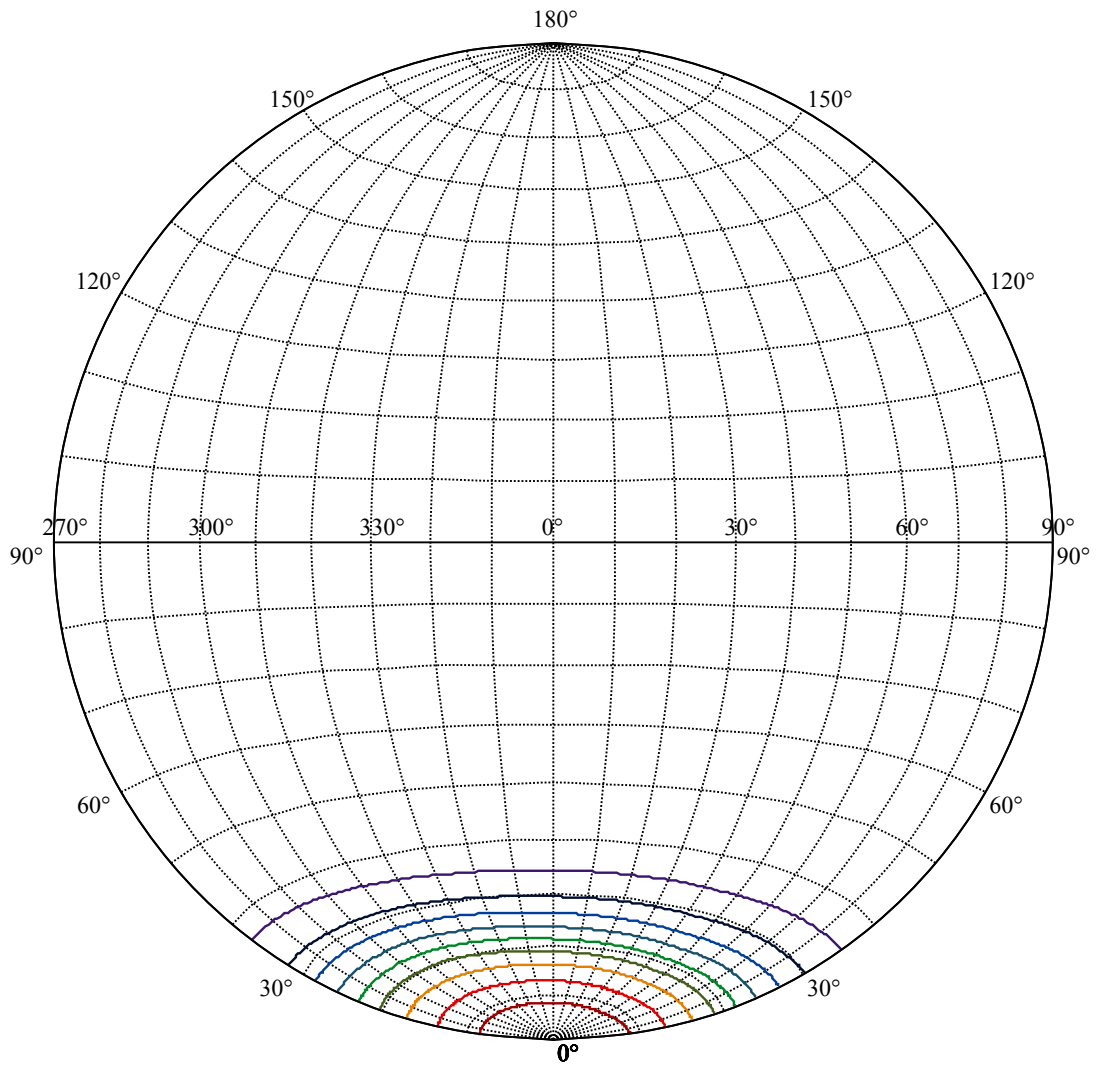
:C90/270Left:23.1 Right:21.6



Max , Ave Beam angle of C45 plane 44.40



(10%Imax) 124.636	—
(20%Imax) 249.272	—
(30%Imax) 373.908	—
(40%Imax) 498.544	—
(50%Imax) 623.181	—
(60%Imax) 747.817	—
(70%Imax) 872.453	—
(80%Imax) 997.089	—
(90%Imax) 1121.72	—



House

[Unit:cd]

Road

Imax:1247.79

(10%Imax) 124.779	—
(20%Imax) 249.557	—
(30%Imax) 374.336	—
(40%Imax) 499.115	—
(50%Imax) 623.893	—
(60%Imax) 748.672	—
(70%Imax) 873.451	—
(80%Imax) 998.23	—
(90%Imax) 1123.01	—

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	1239.89	1187.66	1093.77	938.57	701.24	434.18	233.97	111.86	58.62
45.0	1247.79	1193.03	1081.17	915.73	665.80	404.79	214.66	105.14	57.78
90.0	1227.63	1199.58	1101.16	928.16	695.19	447.62	255.97	128.32	65.00
135.0	1228.81	1221.75	1134.92	953.52	726.10	470.46	262.86	129.50	64.67
180.0	1239.89	1236.03	1163.13	999.71	751.46	493.47	282.68	145.12	69.87
225.0	1247.79	1242.75	1167.84	1019.70	802.52	547.05	336.09	178.38	86.00
270.0	1227.63	1180.60	1099.48	951.84	766.24	523.54	308.04	161.24	77.60
315.0	1228.81	1182.11	1100.48	955.20	760.19	502.54	277.14	133.70	67.52
360.0	1239.89	1187.66	1093.77	938.57	701.24	434.18	233.97	111.86	58.62
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	43.00	34.60	28.22	22.17	16.80	11.76	7.39	3.70	0.50
45.0	43.17	35.44	28.72	22.34	15.96	10.92	6.72	3.02	0.84
90.0	44.01	36.45	30.07	23.52	17.47	11.93	7.56	3.70	1.01
135.0	42.83	35.61	29.39	23.18	16.80	11.76	7.56	3.70	0.84
180.0	43.50	35.61	29.39	23.52	18.14	12.93	8.73	4.70	1.51
225.0	48.54	37.79	30.91	25.36	19.65	14.11	9.24	5.21	1.85
270.0	45.69	36.28	30.07	24.02	17.97	12.60	8.23	4.37	1.51
315.0	44.01	35.10	28.72	23.35	17.47	11.93	7.39	4.20	1.34
360.0	43.00	34.60	28.22	22.17	16.80	11.76	7.39	3.70	0.50
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	0.00	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	0.00	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	0.17	0.17	0.17	0.67	0.50	0.84	0.67	0.84
45.0	0.00	0.17	0.34	0.34	0.50	0.67	0.84	0.84	0.84
90.0	0.00	0.00	0.00	0.00	0.34	0.50	0.50	0.67	0.84
135.0	0.00	0.00	0.00	0.00	0.34	0.50	0.50	0.67	0.84
180.0	0.00	0.00	0.00	0.17	0.17	0.67	0.67	0.67	0.84
225.0	0.00	0.00	0.00	0.00	0.17	0.50	0.50	0.67	0.84
270.0	0.17	0.17	0.34	0.50	0.50	0.67	0.84	0.84	0.84
315.0	0.00	0.17	0.34	0.34	0.34	0.67	0.67	0.67	1.01
360.0	0.00	0.17	0.17	0.17	0.67	0.50	0.84	0.67	0.84
C/ γ (°)	180.0								
0.0	0.84								
45.0	0.84								
90.0	1.01								
135.0	1.01								
180.0	0.84								
225.0	0.84								
270.0	1.01								
315.0	1.01								
360.0	0.84								