



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

LumCAT: LL4G-HO-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.12

LampCAT:

Current(A): 0.1260

Lamp flux(lm): -1.0

Power (W): 14.72

Number of Lamps: 0

PF: 0.9751

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1248.10, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 84.82

Central intensity(cd): 1874.837, Maximum intensity(cd): 2074.685

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.3

[C90/270]Total=37.8

Field angle(10%Imax): [C0/180]Total=77.2

[C90/270]Total=77.4

Maximum s/h(1/2): C0_180=0.65 C90_270=0.63

Maximum s/h(1/4): C0_180=0.75 C90_270=0.68

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.12%

Down flux rate of LUM(%): 99.88%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 93.763%

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

Date:
Humidity(%): 59%

Operator: Tester

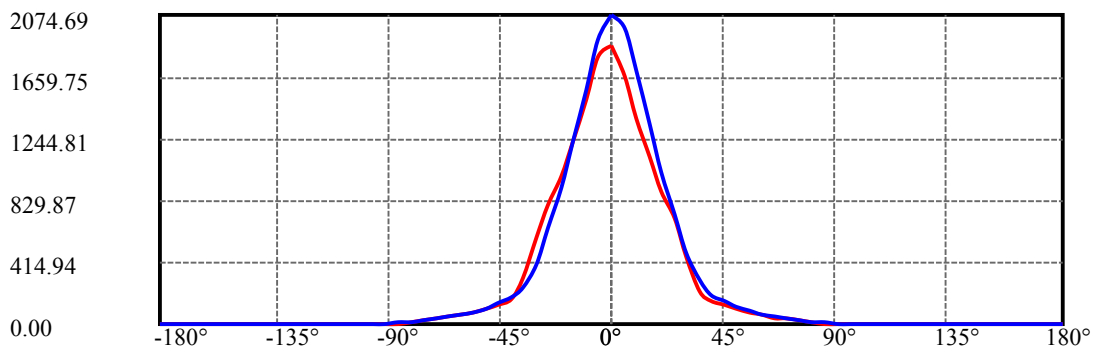
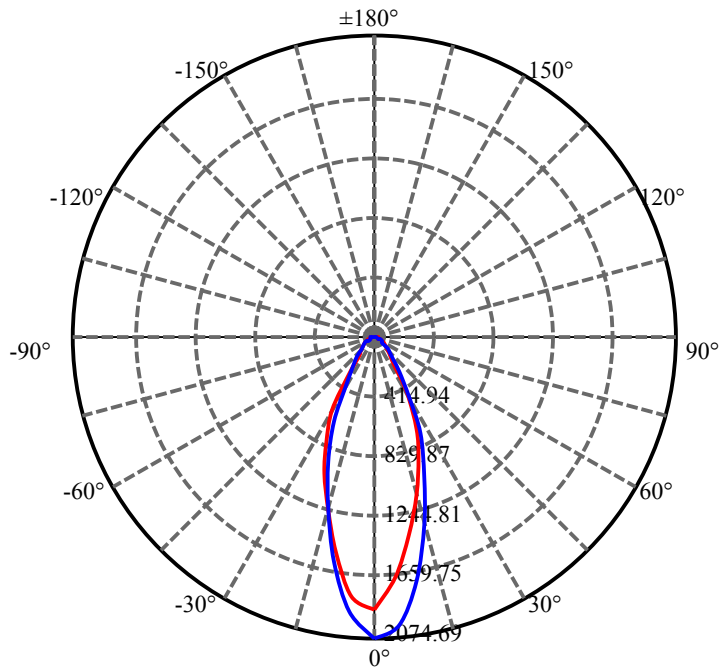
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1918.078	0.000	0	0.00%	0.00%
5.0	1783.514	44.251	44.251	0.00%	3.55%
10.0	1497.134	117.359	161.611	0.00%	12.95%
15.0	1204.720	160.272	321.883	0.00%	25.79%
20.0	951.497	177.703	499.585	0.00%	40.03%
25.0	710.077	174.268	673.854	0.00%	53.99%
30.0	453.229	147.217	821.071	0.00%	65.79%
35.0	250.497	103.629	924.699	0.00%	74.09%
40.0	171.982	70.487	995.187	0.00%	79.74%
45.0	132.949	56.460	1051.647	0.00%	84.26%
50.0	102.305	47.537	1099.184	0.00%	88.07%
55.0	78.145	39.236	1138.42	0.00%	91.21%
60.0	59.594	31.838	1170.258	0.00%	93.76%
65.0	45.675	25.591	1195.849	0.00%	95.81%
70.0	33.528	20.055	1215.903	0.00%	97.42%
75.0	22.388	14.616	1230.519	0.00%	98.59%
80.0	12.464	9.325	1239.844	0.00%	99.34%
85.0	5.716	4.940	1244.784	0.00%	99.73%
90.0	0.953	1.826	1246.61	0.00%	99.88%
95.0	0.318	0.348	1246.958	0.00%	99.91%
100.0	0.000	0.086	1247.044	0.00%	99.92%
105.0	0.000	0.000	1247.044	0.00%	99.92%
110.0	0.000	0.000	1247.044	0.00%	99.92%
115.0	0.053	0.013	1247.058	0.00%	99.92%
120.0	0.027	0.019	1247.077	0.00%	99.92%
125.0	0.027	0.012	1247.089	0.00%	99.92%
130.0	0.079	0.023	1247.112	0.00%	99.92%
135.0	0.079	0.032	1247.144	0.00%	99.92%
140.0	0.185	0.049	1247.193	0.00%	99.93%
145.0	0.291	0.079	1247.273	0.00%	99.93%
150.0	0.503	0.117	1247.39	0.00%	99.94%
155.0	0.714	0.154	1247.544	0.00%	99.96%
160.0	0.874	0.167	1247.71	0.00%	99.97%
165.0	1.032	0.157	1247.867	0.00%	99.98%
170.0	1.085	0.126	1247.993	0.00%	99.99%
175.0	1.165	0.080	1248.073	0.00%	100.00%
180.0	1.218	0.028	1248.102	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	821.07	N.A.	65.79%
0-40	995.19	N.A.	79.74%
0-60	1170.26	N.A.	93.76%
0-90	1246.61	N.A.	99.88%
0-120	1247.08	N.A.	99.92%
0-180	1248.10	N.A.	100.00%
60-90	76.35	N.A.	6.12%
90-120	0.47	N.A.	0.04%
90-130	0.50	N.A.	0.04%
90-150	0.78	N.A.	0.06%
90-180	1.46	N.A.	0.12%
0-40.29	998.48	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	161.61
10-20	337.97
20-30	321.49
30-40	174.12
40-50	104.00
50-60	71.07
60-70	45.65
70-80	23.94
80-90	6.77
90-100	0.43
100-110	0.00
110-120	0.03
120-130	0.04
130-140	0.08
140-150	0.20
150-160	0.32
160-170	0.28
170-180	0.08



C0/C180: —

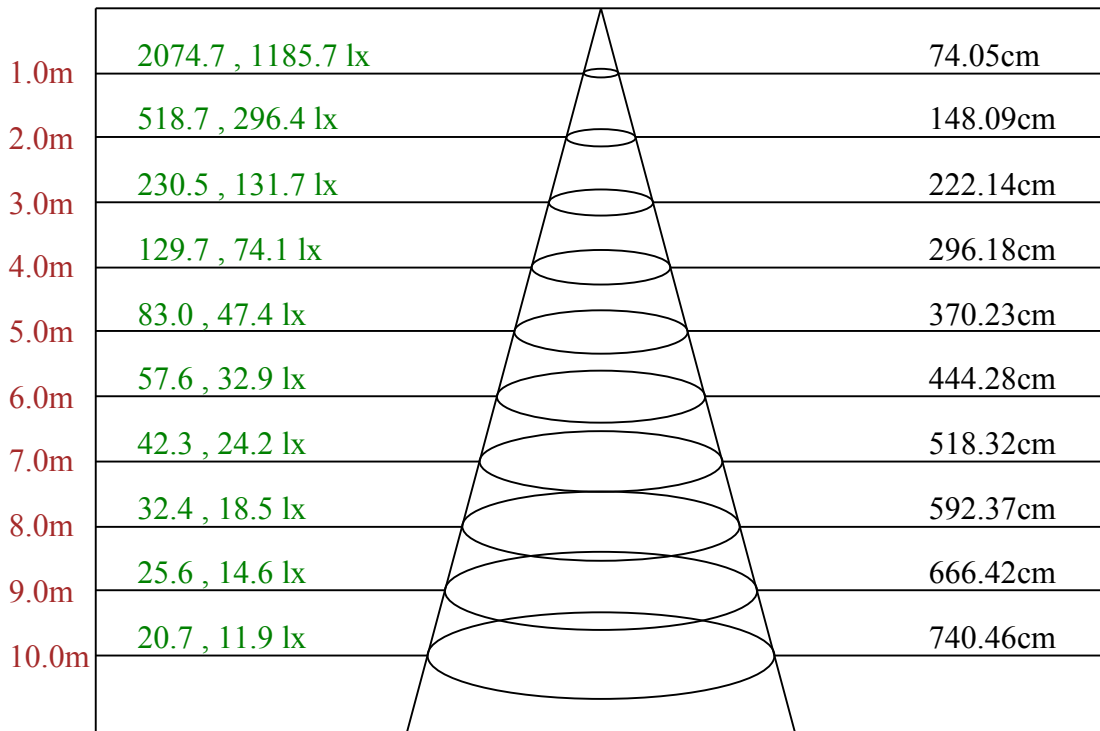
C90/C270: —

Field angle(10%Imax):C0/180Left:39.5 Right:37.7

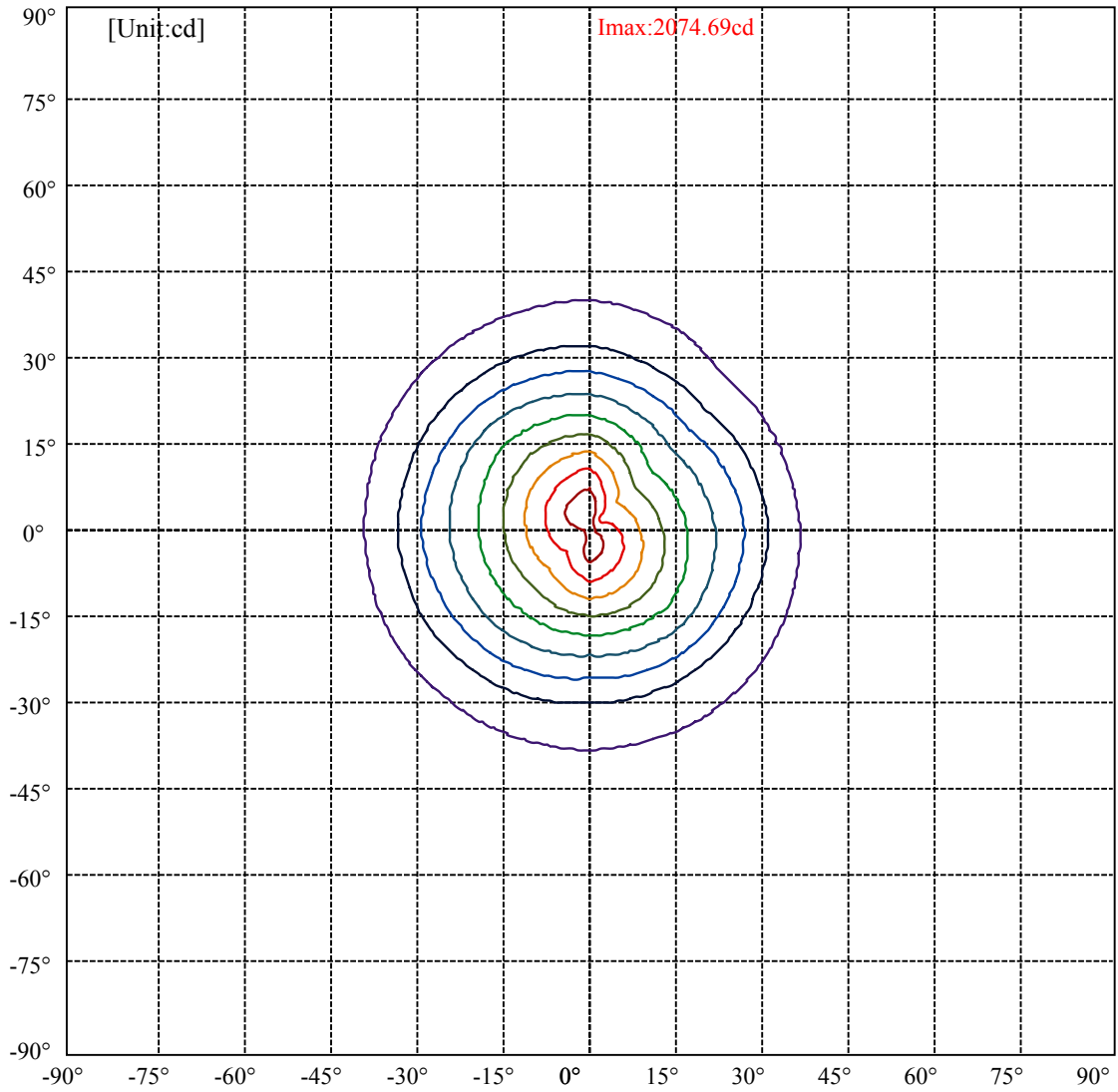
:C90/270Left:37.8 Right:39.6

Beam Angle(50%Imax):C0/180Left:21.4 Right:18.9

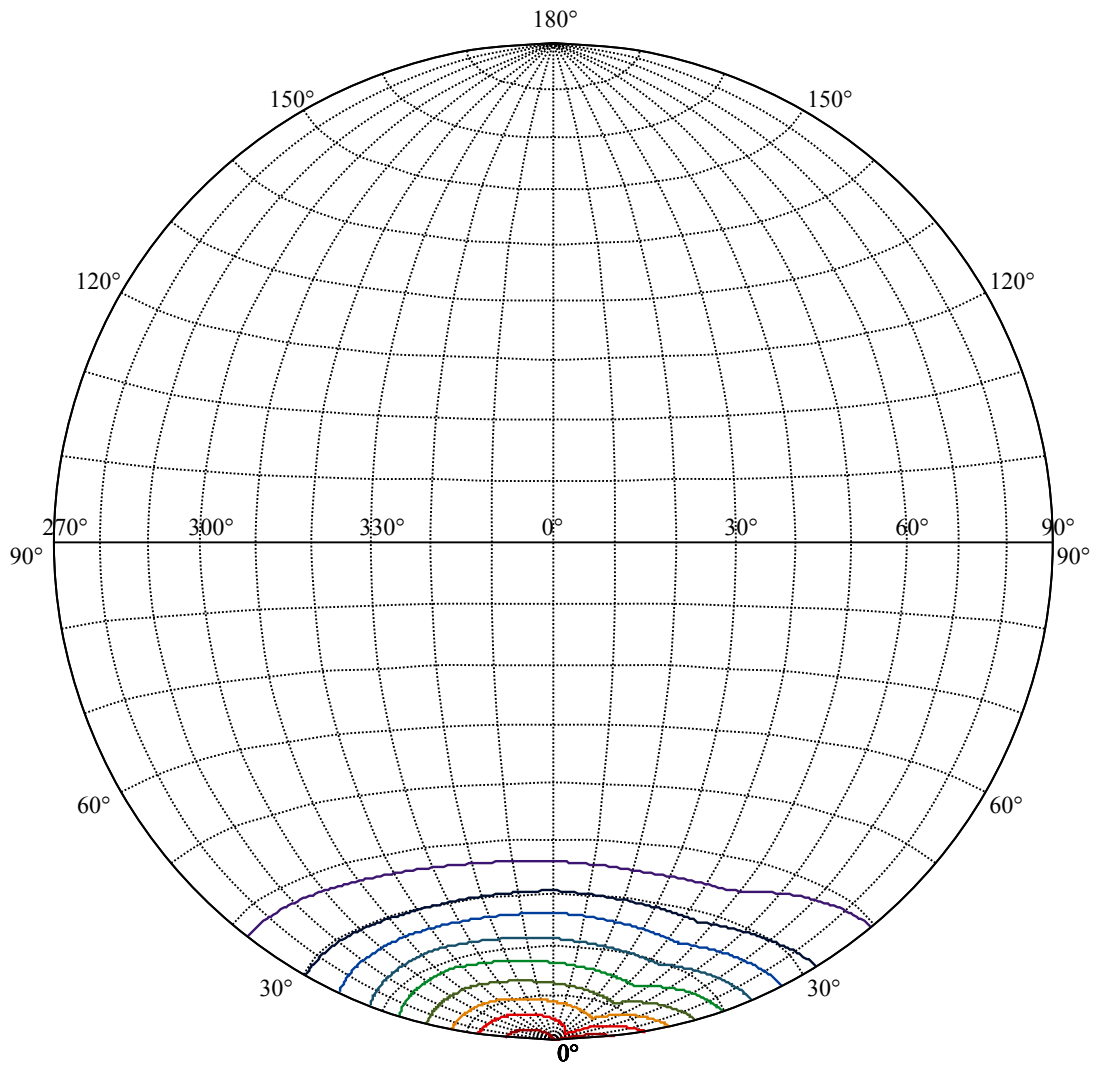
:C90/270Left:18.0 Right:19.8



Max , Ave Beam angle of C90 plane 40.63



(10%I _{max}) 207.469	—
(20%I _{max}) 414.937	—
(30%I _{max}) 622.406	—
(40%I _{max}) 829.874	—
(50%I _{max}) 1037.34	—
(60%I _{max}) 1244.81	—
(70%I _{max}) 1452.28	—
(80%I _{max}) 1659.75	—
(90%I _{max}) 1867.22	—



House

[Unit:cd]

Road

Imax:2074.69

(10%Imax) 207.469	—
(20%Imax) 414.937	—
(30%Imax) 622.406	—
(40%Imax) 829.874	—
(50%Imax) 1037.34	—
(60%Imax) 1244.81	—
(70%Imax) 1452.28	—
(80%Imax) 1659.75	—
(90%Imax) 1867.22	—

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	1874.84	1655.94	1375.86	1116.31	888.94	702.43	448.60	221.86	158.35
45.0	1727.07	1534.84	1271.49	1018.08	809.13	573.93	334.07	194.56	147.13
90.0	2074.69	1987.04	1704.42	1346.43	1023.58	736.09	480.57	292.36	199.64
135.0	1995.72	1911.67	1605.98	1310.02	1066.13	809.13	522.06	275.85	183.33
180.0	1874.84	1790.37	1501.82	1225.76	992.04	795.58	581.12	307.60	173.17
225.0	1727.07	1679.86	1436.19	1175.58	952.03	725.50	457.70	242.19	163.65
270.0	2074.69	1903.42	1576.55	1224.28	913.29	643.36	401.18	243.03	179.10
315.0	1995.72	1804.98	1504.78	1221.31	966.85	694.60	400.54	226.52	171.48
360.0	1874.84	1655.94	1375.86	1116.31	888.94	702.43	448.60	221.86	158.35
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	124.69	98.65	76.00	58.64	44.46	32.39	21.38	11.64	4.45
45.0	114.53	82.78	63.51	48.90	37.47	27.52	17.78	9.32	3.18
90.0	153.91	118.13	88.28	68.38	52.08	38.32	26.89	14.82	6.56
135.0	143.32	110.51	85.95	63.93	48.69	35.99	23.50	12.91	5.29
180.0	130.62	102.68	79.39	59.70	46.36	34.08	22.02	12.07	4.87
225.0	125.12	95.48	72.19	55.25	41.71	30.70	20.96	12.07	6.35
270.0	137.61	105.64	79.81	61.61	47.85	34.93	23.50	13.97	7.62
315.0	133.80	104.58	80.02	60.34	46.79	34.30	23.08	12.91	7.41
360.0	124.69	98.65	76.00	58.64	44.46	32.39	21.38	11.64	4.45
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	0.21	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	0.42	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	2.33	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	2.33	1.27	0.00	0.00	0.00	0.21	0.21	0.21	0.42
315.0	2.54	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.21
360.0	0.00	0.00	0.00	0.00	0.00	0.21	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	0.64	0.85	0.85	1.06	1.27	1.06
45.0	0.00	0.21	0.21	0.64	0.64	0.85	0.85	0.64	1.06
90.0	0.00	0.00	0.42	0.64	0.64	1.06	1.06	1.27	1.27
135.0	0.00	0.00	0.21	0.21	0.64	0.85	1.06	1.06	1.06
180.0	0.00	0.00	0.21	0.21	0.42	0.64	0.64	1.06	1.06
225.0	0.00	0.00	0.00	0.21	0.42	0.64	0.85	0.85	0.85
270.0	0.42	0.64	0.85	0.85	1.27	1.06	1.48	1.48	1.69
315.0	0.21	0.42	0.00	0.64	0.85	1.06	1.27	1.06	1.27
360.0	0.00	0.21	0.42	0.64	0.85	0.85	1.06	1.27	1.06
C/ γ (°)	180.0								
0.0	1.06								
45.0	0.85								
90.0	1.69								
135.0	1.27								
180.0	1.06								
225.0	0.85								
270.0	1.69								
315.0	1.27								
360.0	1.06								