



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

Tel:0755-21038430

Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

Client:

LumCAT:LD8R-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1570

Lamp flux(lm): -1.0

Power (W): 18.60

Number of Lamps: 1

PF: 0.9852

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1549.14, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 83.29

Central intensity(cd): 2568.798, Maximum intensity(cd): 2577.055

Angle of maximum intensity: C=135.0 $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=43.4

[C90/270]Total=44.5

Field angle(10%Imax): [C0/180]Total=73.3

[C90/270]Total=73.8

Maximum s/h(1/2): C0_180=0.70 C90_270=0.71

Maximum s/h(1/4): C0_180=0.75 C90_270=0.76

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.09%

Down flux rate of LUM(%): 99.91%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.433%

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

Date:
Humidity(%): 59%

Operator: Tester

Zonal flux distribution table

Appendix Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2566.152	0.000	0	0.00%	0.00%
5.0	2415.235	59.551	59.551	0.00%	3.84%
10.0	2100.512	161.542	221.094	0.00%	14.27%
15.0	1745.037	228.115	449.209	0.00%	29.00%
20.0	1405.043	259.611	708.82	0.00%	45.76%
25.0	1079.603	260.594	969.413	0.00%	62.58%
30.0	718.148	227.507	1196.92	0.00%	77.26%
35.0	349.071	157.155	1354.076	0.00%	87.41%
40.0	119.983	78.258	1432.334	0.00%	92.46%
45.0	74.017	35.920	1468.254	0.00%	94.78%
50.0	53.058	25.677	1493.931	0.00%	96.44%
55.0	32.126	18.522	1512.453	0.00%	97.63%
60.0	21.541	12.405	1524.858	0.00%	98.43%
65.0	14.740	8.820	1533.678	0.00%	99.00%
70.0	9.738	6.198	1539.876	0.00%	99.40%
75.0	5.875	4.081	1543.957	0.00%	99.67%
80.0	3.096	2.400	1546.357	0.00%	99.82%
85.0	0.953	1.100	1547.458	0.00%	99.89%
90.0	0.000	0.261	1547.719	0.00%	99.91%
95.0	0.000	0.000	1547.719	0.00%	99.91%
100.0	0.000	0.000	1547.719	0.00%	99.91%
105.0	0.000	0.000	1547.719	0.00%	99.91%
110.0	0.000	0.000	1547.719	0.00%	99.91%
115.0	0.000	0.000	1547.719	0.00%	99.91%
120.0	0.027	0.006	1547.725	0.00%	99.91%
125.0	0.000	0.006	1547.731	0.00%	99.91%
130.0	0.027	0.006	1547.737	0.00%	99.91%
135.0	0.106	0.027	1547.764	0.00%	99.91%
140.0	0.185	0.054	1547.818	0.00%	99.91%
145.0	0.503	0.115	1547.932	0.00%	99.92%
150.0	0.715	0.179	1548.112	0.00%	99.93%
155.0	1.006	0.218	1548.329	0.00%	99.95%
160.0	1.270	0.239	1548.568	0.00%	99.96%
165.0	1.509	0.229	1548.797	0.00%	99.98%
170.0	1.588	0.184	1548.981	0.00%	99.99%
175.0	1.641	0.116	1549.096	0.00%	100.00%
180.0	1.852	0.042	1549.138	0.00%	100.00%

Equipment: GMS-3000
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 59%

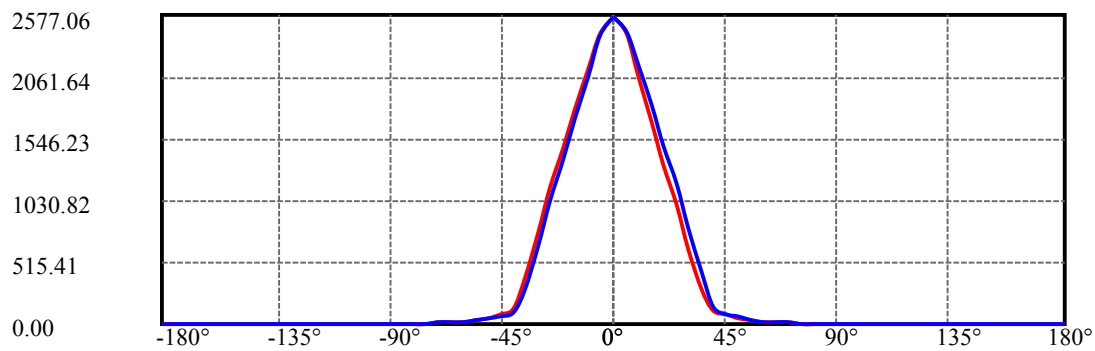
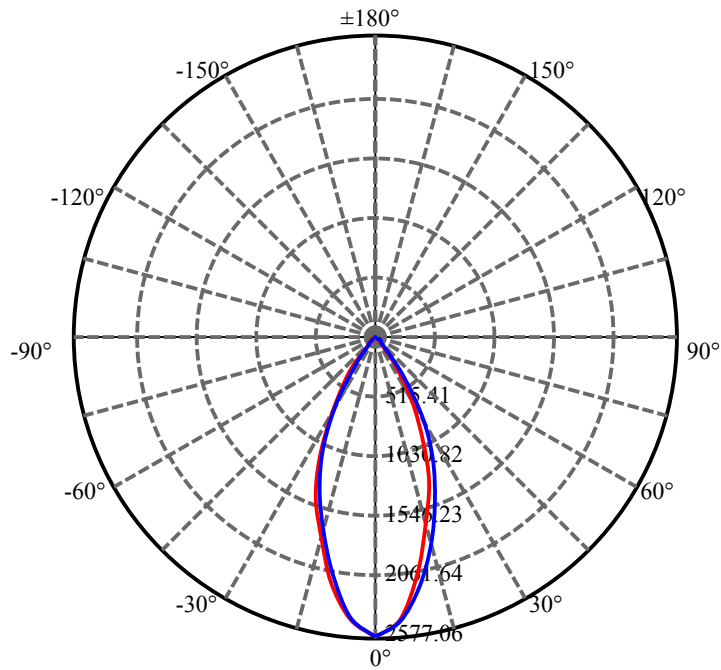
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1196.92	N.A.	77.26%
0-40	1432.33	N.A.	92.46%
0-60	1524.86	N.A.	98.43%
0-90	1547.72	N.A.	99.91%
0-120	1547.72	N.A.	99.91%
0-180	1549.14	N.A.	100.00%
60-90	22.86	N.A.	1.48%
90-120	0.01	N.A.	0.00%
90-130	0.02	N.A.	0.00%
90-150	0.39	N.A.	0.03%
90-180	1.38	N.A.	0.09%
0-31.35	1239.31	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	221.09
10-20	487.73
20-30	488.10
30-40	235.41
40-50	61.60
50-60	30.93
60-70	15.02
70-80	6.48
80-90	1.36
90-100	0.00
100-110	0.00
110-120	0.01
120-130	0.01
130-140	0.08
140-150	0.29
150-160	0.46
160-170	0.41
170-180	0.12



C0/C180: —

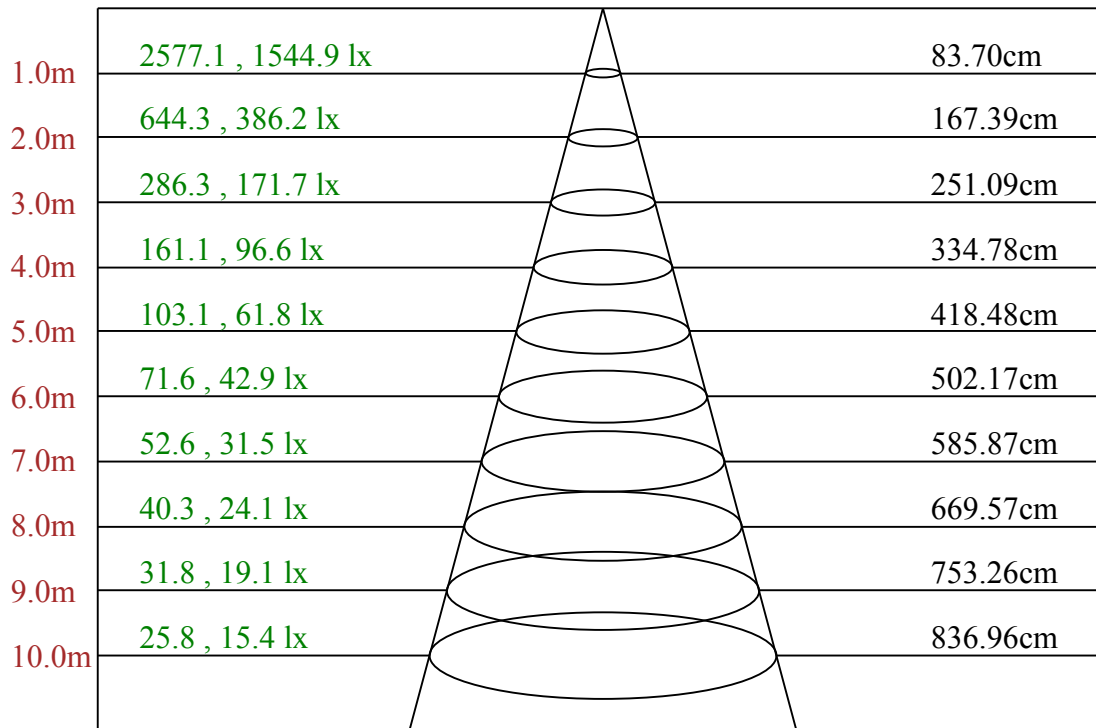
C90/C270: —

Field angle(10%Imax):C0/180Left:37.5 Right:35.8

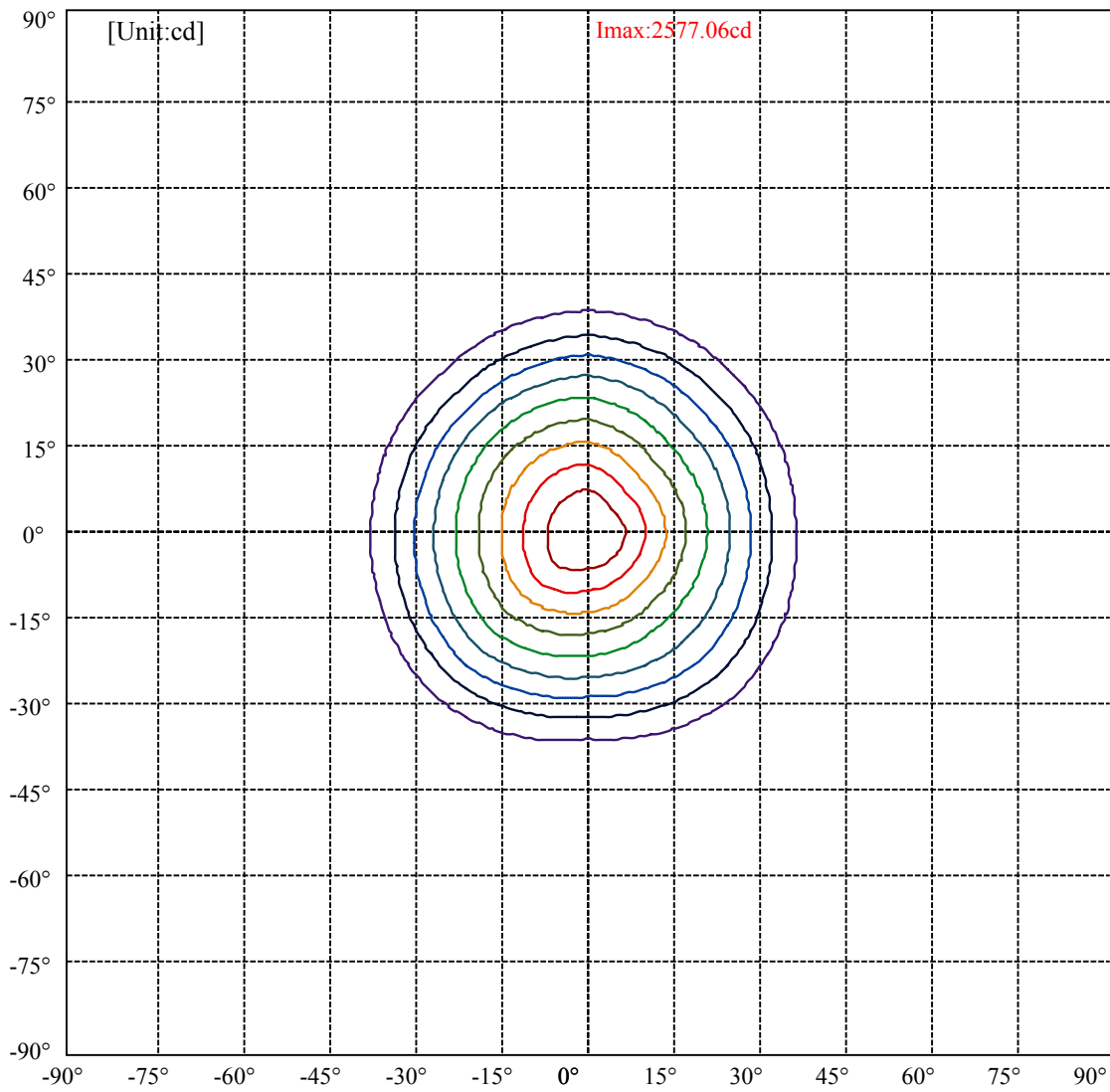
:C90/270Left:35.7 Right:38.1

Beam Angle(50%Imax):C0/180Left:22.8 Right:20.6

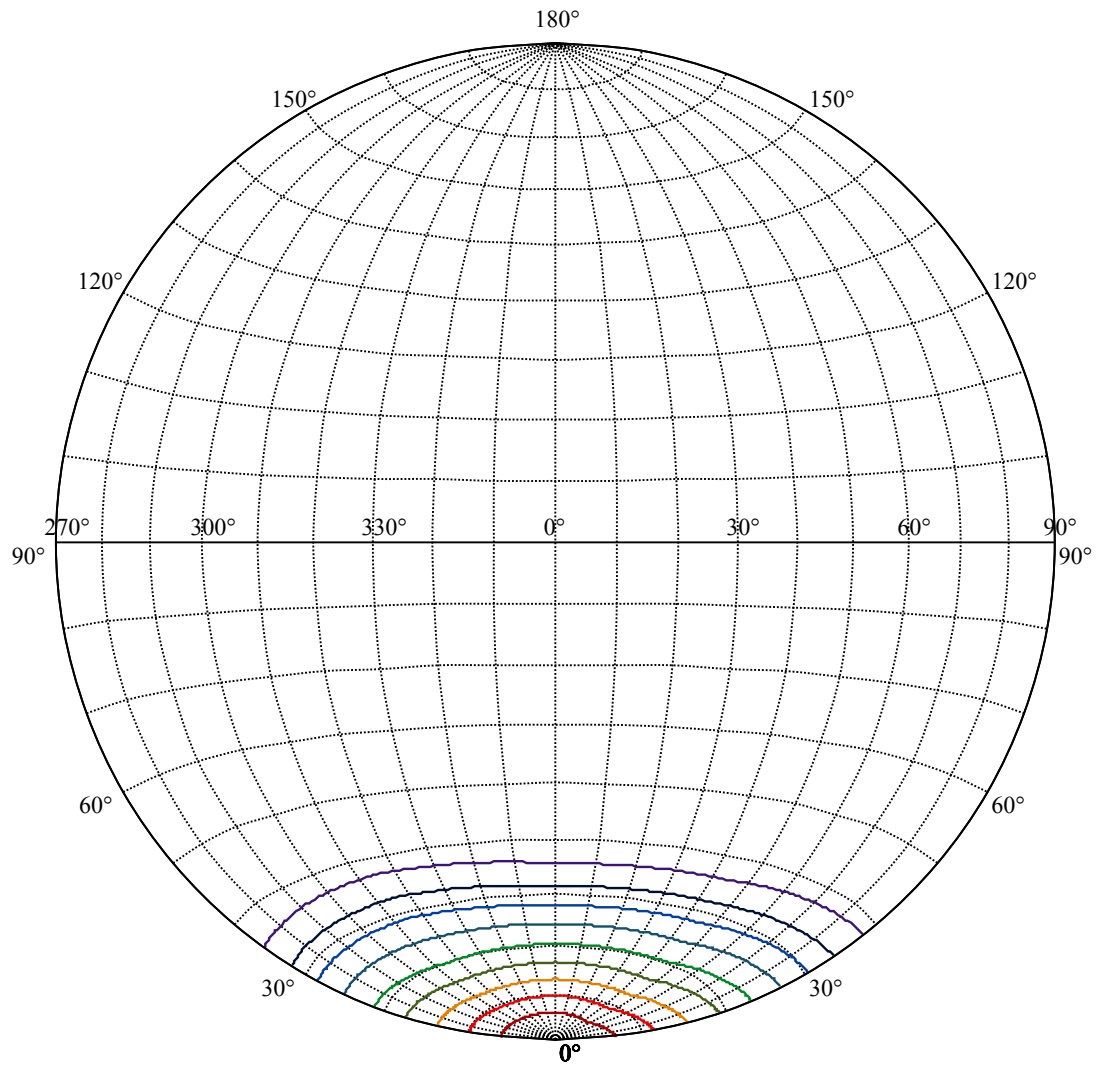
:C90/270Left:21.3 Right:23.2



Max , Ave Beam angle of C135 plane 45.42



(10%Imax) 256.837	—
(20%Imax) 513.675	—
(30%Imax) 770.513	—
(40%Imax) 1027.35	—
(50%Imax) 1284.19	—
(60%Imax) 1541.03	—
(70%Imax) 1797.86	—
(80%Imax) 2054.7	—
(90%Imax) 2311.54	—



House

[Unit:cd]

Road

Imax:2577.06

(10%Imax) 257.706	—
(20%Imax) 515.411	—
(30%Imax) 773.116	—
(40%Imax) 1030.82	—
(50%Imax) 1288.53	—
(60%Imax) 1546.23	—
(70%Imax) 1803.94	—
(80%Imax) 2061.64	—
(90%Imax) 2319.35	—

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	2568.80	2416.58	2056.90	1677.74	1323.35	988.44	620.08	283.68	108.60
45.0	2550.38	2351.59	2003.34	1639.00	1299.43	984.21	649.08	299.77	109.24
90.0	2568.38	2432.46	2162.75	1831.23	1494.62	1165.42	806.16	430.39	149.04
135.0	2577.06	2411.29	2152.59	1819.58	1483.61	1128.16	706.03	312.90	116.86
180.0	2568.80	2421.24	2130.36	1789.95	1469.43	1144.46	771.02	386.99	125.54
225.0	2550.38	2479.04	2215.26	1851.97	1512.61	1182.57	830.51	428.70	133.37
270.0	2568.38	2404.73	2063.25	1716.48	1376.28	1031.20	653.31	281.35	102.68
315.0	2577.06	2404.94	2019.64	1634.34	1281.01	1012.36	708.99	368.79	114.53
360.0	2568.80	2416.58	2056.90	1677.74	1323.35	988.44	620.08	283.68	108.60

C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	73.04	52.93	32.18	21.38	14.82	9.95	5.72	3.18	1.06
45.0	74.94	53.14	30.91	21.17	14.61	9.74	5.93	3.18	1.06
90.0	80.87	58.01	35.78	22.65	15.67	10.37	6.35	3.39	1.06
135.0	74.73	52.29	32.18	21.59	14.82	9.95	6.14	2.96	0.64
180.0	72.19	51.02	31.54	21.38	14.61	9.53	5.50	2.96	0.85
225.0	74.52	53.35	33.24	21.81	15.03	9.74	6.14	2.96	0.85
270.0	69.23	51.02	29.85	20.75	13.97	9.32	5.50	2.96	1.06
315.0	72.61	52.71	31.33	21.59	14.40	9.32	5.72	3.18	1.06
360.0	73.04	52.93	32.18	21.38	14.82	9.95	5.72	3.18	1.06

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	0.21	0.00	0.21
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	0.21	0.21	0.64	0.85	1.27	1.48	1.27	1.69	1.48
45.0	0.21	0.21	0.64	0.85	1.06	1.27	1.69	1.48	1.69
90.0	0.00	0.00	0.42	0.64	0.85	1.48	1.06	1.48	1.69
135.0	0.00	0.00	0.21	0.42	0.85	1.06	1.27	1.48	1.48
180.0	0.00	0.00	0.42	0.64	0.85	1.27	1.69	1.69	1.69
225.0	0.00	0.00	0.21	0.42	0.85	1.06	1.48	1.48	1.48
270.0	0.42	0.64	0.85	1.06	1.27	1.27	1.91	1.69	1.91
315.0	0.00	0.42	0.64	0.85	1.06	1.27	1.69	1.69	1.69
360.0	0.21	0.21	0.64	0.85	1.27	1.48	1.27	1.69	1.48

C/ γ (°)	180.0
0.0	1.91
45.0	1.91
90.0	1.91
135.0	1.69
180.0	1.91
225.0	1.91
270.0	1.91
315.0	1.69
360.0	1.91