



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

Tel: 0755-21038430

Address: 1 F, No. 1 building, Meibaohe industrial park, Dalang street, Longhua district, Shenzhen, China

LumCAT:

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 858.5

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.18

Current(A): 0.0556

Power (W): 6.1060

PF: 0.9138

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 858.52

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 140.60

Central intensity(cd): 296.917

Maximum intensity(cd): 297.544

Angle of maximum intensity: $C=202.5$ $\gamma=5.0$

Beam Angle(50%Imax): [C0/180]Total=113.7

[C90/270]Total=116.2

Field angle(10%Imax): [C0/180]Total=157.1

[C90/270]Total=159.9

Maximum s/h(1/2): C0_180=1.30 C90_270=1.26

Maximum s/h(1/4): C0_180=1.85 C90_270=1.39

Up flux rate of lamp(%): 0.02%

Down flux rate of lamp(%): 99.98%

Up flux rate of LUM(%): 0.02%

Down flux rate of LUM(%): 99.98%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.098%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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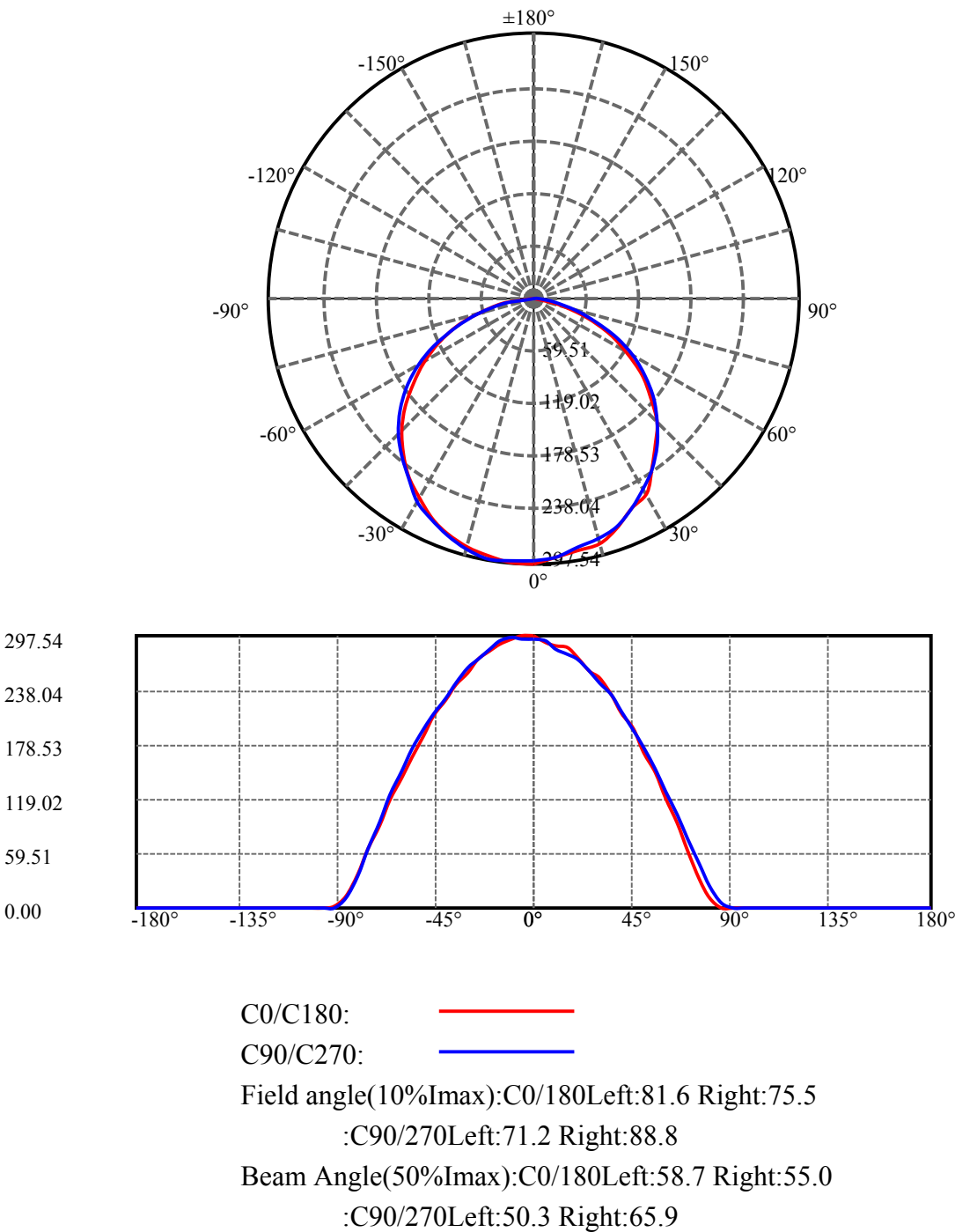
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	295.299	.000	.000	.000%	.000%
5.0	292.820	7.031	7.031	.819%	.819%
10.0	288.826	20.807	27.838	2.424%	3.243%
15.0	283.998	33.980	61.818	3.958%	7.200%
20.0	276.637	46.204	108.022	5.382%	12.582%
25.0	265.362	56.846	164.868	6.621%	19.204%
30.0	253.643	65.681	230.548	7.650%	26.854%
35.0	238.805	72.516	303.064	8.447%	35.301%
40.0	221.252	76.757	379.822	8.941%	44.241%
45.0	203.060	78.565	458.387	9.151%	53.393%
50.0	182.546	77.917	536.304	9.076%	62.468%
55.0	159.930	74.466	610.769	8.674%	71.142%
60.0	135.578	68.306	679.075	7.956%	79.098%
65.0	109.687	59.624	738.700	6.945%	86.043%
70.0	82.281	48.607	787.307	5.662%	91.705%
75.0	54.563	35.769	823.076	4.166%	95.871%
80.0	29.050	22.372	845.448	2.606%	98.477%
85.0	8.952	10.326	855.774	1.203%	99.680%
90.0	.483	2.583	858.358	.301%	99.981%
95.0	.000	.132	858.490	.015%	99.996%
100.0	.000	.000	858.490	.000%	99.996%
105.0	.000	.000	858.490	.000%	99.996%
110.0	.000	.000	858.490	.000%	99.996%
115.0	.000	.000	858.490	.000%	99.996%
120.0	.000	.000	858.490	.000%	99.996%
125.0	.013	.003	858.493	.000%	99.997%
130.0	.000	.003	858.496	.000%	99.997%
135.0	.000	.000	858.496	.000%	99.997%
140.0	.013	.002	858.498	.000%	99.997%
145.0	.000	.002	858.500	.000%	99.998%
150.0	.026	.004	858.504	.000%	99.998%
155.0	.026	.007	858.511	.001%	99.999%
160.0	.013	.004	858.515	.000%	99.999%
165.0	.013	.002	858.517	.000%	100.000%
170.0	.013	.002	858.518	.000%	100.000%
175.0	.026	.001	858.520	.000%	100.000%
180.0	.000	.000	858.520	.000%	100.000%

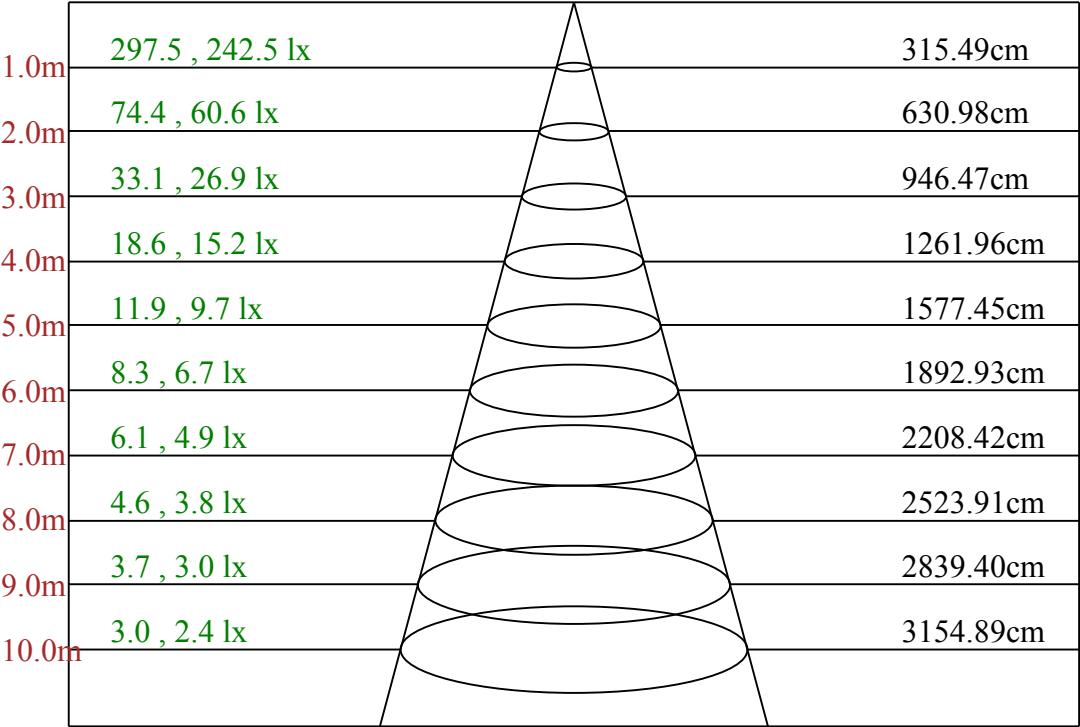
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	230.55	26.85%	26.85%
0-40	379.82	44.24%	44.24%
0-60	679.08	79.10%	79.10%
0-90	858.36	99.98%	99.98%
0-120	858.49	100.00%	100.00%
0-180	858.52	100.00%	100.00%
60-90	247.59	28.84%	28.84%
90-120	2.72	0.32%	0.32%
90-130	2.72	0.32%	0.32%
90-150	2.73	0.32%	0.32%
90-180	2.75	0.32%	0.32%
0-60.65	686.82	80.00%	80.00%

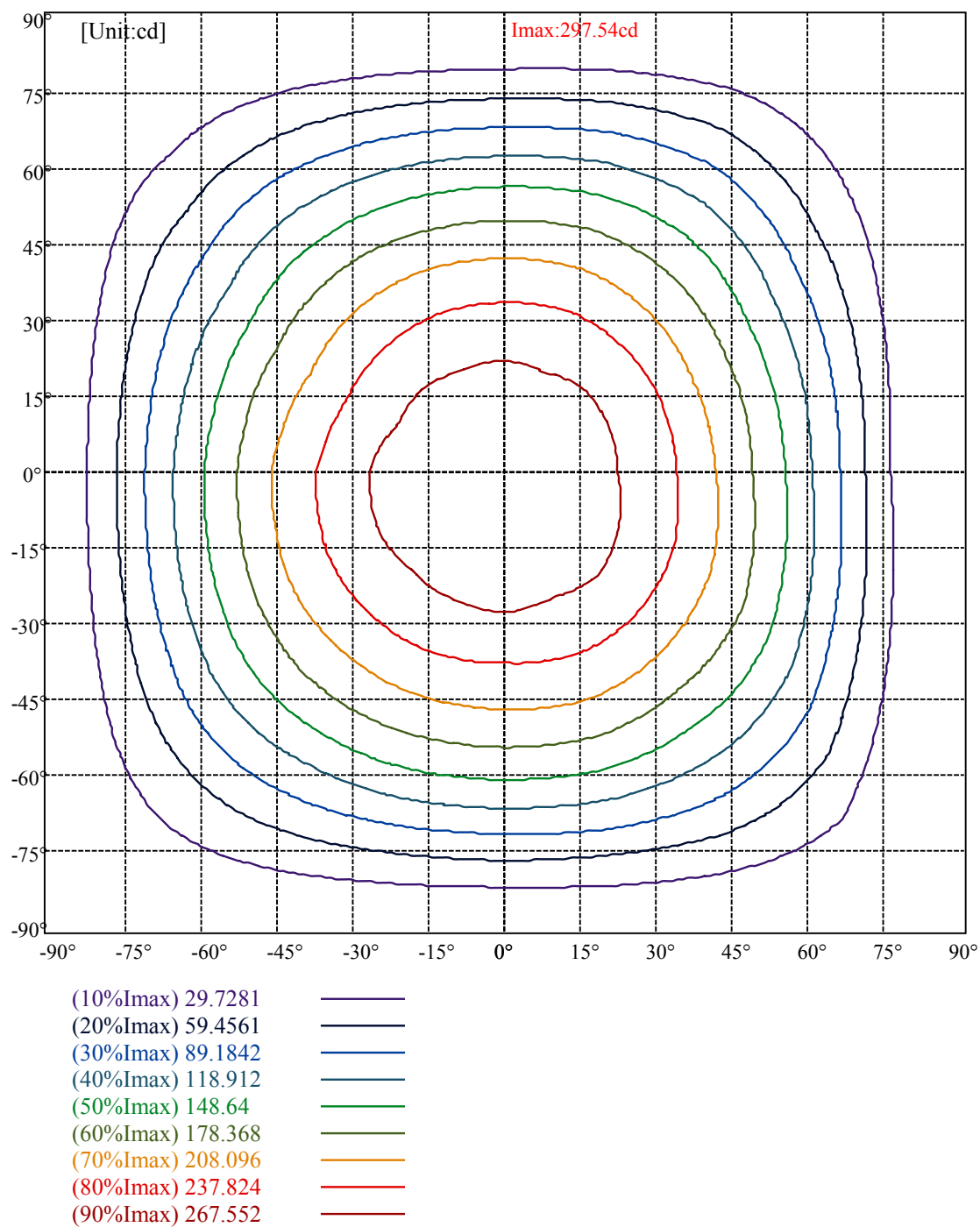
ZONAL LUMEN SUMMARY

0-10	27.84
10-20	80.18
20-30	122.53
30-40	149.27
40-50	156.48
50-60	142.77
60-70	108.23
70-80	58.14
80-90	12.91
90-100	0.13
100-110	0.00
110-120	0.00
120-130	0.01
130-140	0.00
140-150	0.01
150-160	0.01
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C202.5plane114.81



Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	296.92	291.07	286.48	285.22	273.32	259.54	252.23	232.40	212.14
22.5	297.13	290.44	285.64	284.81	274.16	259.33	250.56	231.14	209.64
45.0	293.99	286.69	282.30	277.29	274.37	259.12	245.76	233.02	212.14
67.5	294.20	290.65	282.72	278.75	269.56	258.50	248.48	233.65	215.07
90.0	293.99	291.91	283.14	277.71	272.49	258.71	245.97	232.82	215.28
112.5	292.95	290.03	285.43	277.71	270.40	260.17	246.81	232.61	215.28
135.0	296.71	294.41	289.61	282.30	273.74	261.21	247.85	231.98	215.48
157.5	296.50	294.41	289.82	282.93	273.74	262.67	249.10	233.02	215.07
180.0	296.92	296.71	293.16	288.98	280.84	271.23	257.04	243.05	228.22
202.5	297.13	297.54	293.99	288.98	282.09	272.49	260.17	246.39	229.68
225.0	293.99	293.99	292.12	286.48	280.21	269.98	258.50	245.76	229.47
247.5	294.20	294.41	291.70	287.31	279.80	271.65	259.75	246.60	229.68
270.0	293.99	294.20	296.08	291.28	282.72	272.49	262.47	245.55	228.85
292.5	292.95	293.37	289.82	285.22	278.54	270.40	259.54	246.81	231.98
315.0	296.71	293.37	289.19	284.60	280.42	272.07	260.38	244.51	229.47
337.5	296.50	291.91	290.03	284.39	279.80	266.22	253.70	241.59	222.58
360.0	296.92	291.07	286.48	285.22	273.32	259.54	252.23	232.40	212.14
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	196.69	170.38	148.25	119.44	93.13	63.06	31.74	10.44	0.00
22.5	189.38	169.34	142.82	117.35	90.41	63.06	39.26	19.84	5.85
45.0	194.81	172.89	152.01	128.00	103.15	76.84	50.32	26.31	7.31
67.5	197.32	176.65	154.72	130.71	105.45	78.09	51.57	26.31	6.89
90.0	194.60	174.98	152.43	128.21	101.69	75.17	48.23	23.60	5.85
112.5	195.44	173.72	151.38	127.16	101.69	74.75	48.44	23.18	5.64
135.0	195.65	174.77	150.55	126.53	101.48	74.33	47.61	22.97	5.85
157.5	196.07	175.39	152.01	126.74	101.69	74.75	48.03	23.18	6.06
180.0	210.26	188.76	165.37	142.61	117.56	90.83	63.89	37.17	13.78
202.5	212.56	192.31	169.13	146.58	120.69	92.50	63.48	37.17	13.16
225.0	211.31	192.10	170.17	144.91	117.97	91.25	63.06	35.91	12.32
247.5	212.35	192.93	172.05	148.04	121.52	92.08	62.64	35.08	10.65
270.0	213.19	195.23	173.10	149.50	123.40	93.54	65.15	35.08	11.69
292.5	215.07	195.44	173.31	149.50	123.19	96.47	64.10	36.96	12.32
315.0	209.64	188.76	166.62	143.24	118.60	93.13	65.15	36.96	12.95
337.5	204.63	187.09	164.95	140.73	113.38	86.65	60.34	34.66	12.95
360.0	196.69	170.38	148.25	119.44	93.13	63.06	31.74	10.44	0.00
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
22.5	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
67.5	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
112.5	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
180.0	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.63	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

Intensity data(cd)									Page: 8 Total:8
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	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
67.5	0.00	0.00	0.00	0.21	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	0.21
112.5	0.00	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.21
135.0	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.21	0.21	0.00	0.21	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	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
247.5	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	0.00
292.5	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
337.5	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(°)	180.0								
0.0	0.00								
22.5	0.00								
45.0	0.00								
67.5	0.00								
90.0	0.00								
112.5	0.00								
135.0	0.00								
157.5	0.00								
180.0	0.00								
202.5	0.00								
225.0	0.00								
247.5	0.00								
270.0	0.00								
292.5	0.00								
315.0	0.00								
337.5	0.00								
360.0	0.00								