



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

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 629.5

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.01

Current(A): 0.1048

Power (W): 11.5580

PF: 0.9193

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 629.54

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 54.47

Central intensity(cd): 231.684

Maximum intensity(cd): 233.701

Angle of maximum intensity: C=67.5 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=110.2

[C90/270]Total=108.6

Field angle(10%Imax): [C0/180]Total=158.4

[C90/270]Total=157.0

Maximum s/h(1/2): C0_180=1.26 C90_270=1.22

Maximum s/h(1/4): C0_180=1.80 C90_270=1.34

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 100.00%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 80.427%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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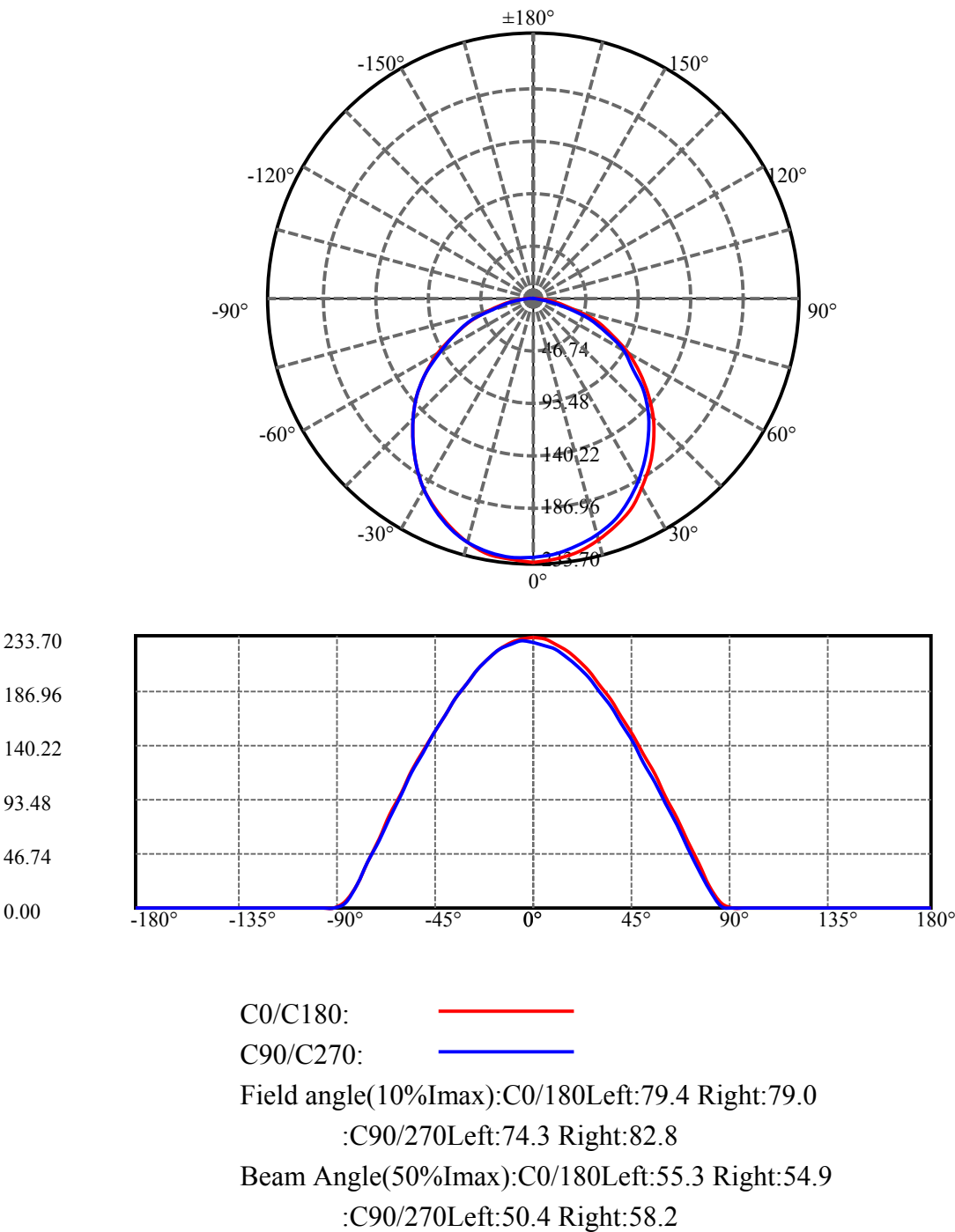
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	231.987	.000	.000	.000%	.000%
5.0	230.878	5.533	5.533	.879%	.879%
10.0	227.400	16.394	21.927	2.604%	3.483%
15.0	221.577	26.633	48.560	4.231%	7.714%
20.0	213.587	35.864	84.424	5.697%	13.410%
25.0	203.720	43.768	128.192	6.952%	20.363%
30.0	192.024	50.082	178.274	7.955%	28.318%
35.0	178.666	54.587	232.860	8.671%	36.989%
40.0	164.135	57.194	290.054	9.085%	46.074%
45.0	148.395	57.867	347.921	9.192%	55.266%
50.0	131.570	56.571	404.492	8.986%	64.252%
55.0	113.990	53.393	457.885	8.481%	72.733%
60.0	95.577	48.441	506.326	7.695%	80.427%
65.0	76.472	41.826	548.152	6.644%	87.071%
70.0	57.001	33.796	581.948	5.368%	92.439%
75.0	37.543	24.712	606.660	3.925%	96.365%
80.0	19.320	15.215	621.875	2.417%	98.782%
85.0	4.436	6.455	628.330	1.025%	99.807%
90.0	.000	1.215	629.545	.193%	100.000%
95.0	.000	.000	629.545	.000%	100.000%
100.0	.000	.000	629.545	.000%	100.000%
105.0	.000	.000	629.545	.000%	100.000%
110.0	.000	.000	629.545	.000%	100.000%
115.0	.000	.000	629.545	.000%	100.000%
120.0	.000	.000	629.545	.000%	100.000%
125.0	.000	.000	629.545	.000%	100.000%
130.0	.000	.000	629.545	.000%	100.000%
135.0	.000	.000	629.545	.000%	100.000%
140.0	.000	.000	629.545	.000%	100.000%
145.0	.000	.000	629.545	.000%	100.000%
150.0	.000	.000	629.545	.000%	100.000%
155.0	.000	.000	629.545	.000%	100.000%
160.0	.000	.000	629.545	.000%	100.000%
165.0	.000	.000	629.545	.000%	100.000%
170.0	.000	.000	629.545	.000%	100.000%
175.0	.000	.000	629.545	.000%	100.000%
180.0	.000	.000	629.545	.000%	100.000%

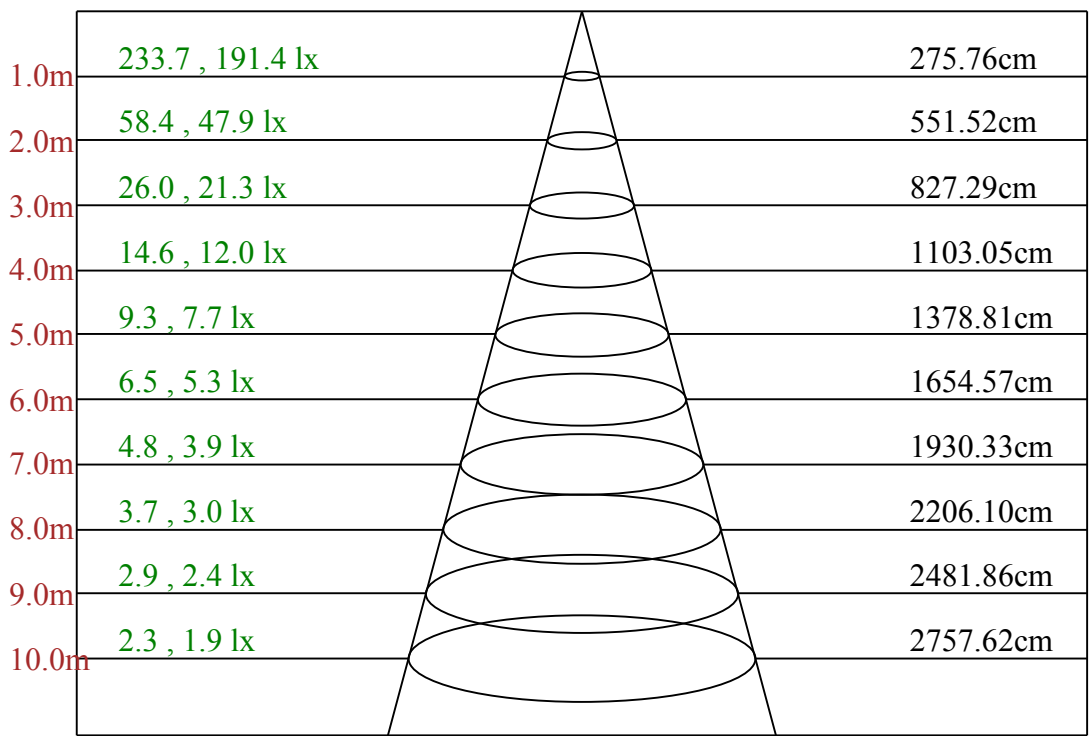
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	178.27	28.32%	28.32%
0-40	290.05	46.07%	46.07%
0-60	506.33	80.43%	80.43%
0-90	629.54	100.00%	100.00%
0-120	629.54	100.00%	100.00%
0-180	629.54	100.00%	100.00%
60-90	171.66	27.27%	27.27%
90-120	1.21	0.19%	0.19%
90-130	1.21	0.19%	0.19%
90-150	1.21	0.19%	0.19%
90-180	1.21	0.19%	0.19%
0-59.72	503.64	80.00%	80.00%

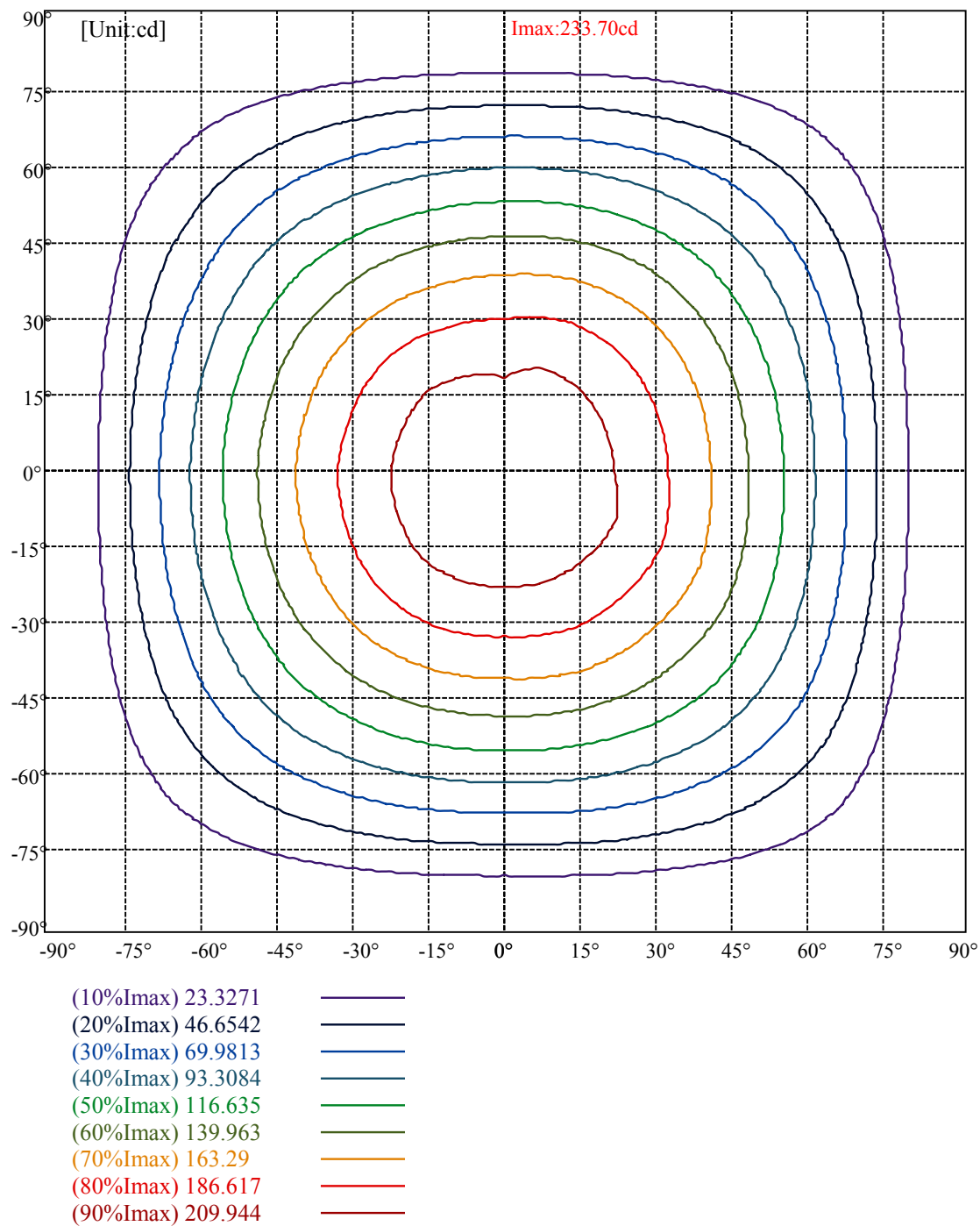
ZONAL LUMEN SUMMARY

0-10	21.93
10-20	62.50
20-30	93.85
30-40	111.78
40-50	114.44
50-60	101.83
60-70	75.62
70-80	39.93
80-90	7.67
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C67.5plane108.07



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	231.68	230.48	226.85	220.80	212.73	203.05	191.76	178.65	164.34
22.5	231.68	230.27	226.44	220.39	212.53	202.65	190.95	178.25	164.14
45.0	232.49	230.68	226.85	220.39	212.73	202.45	191.16	177.44	163.53
67.5	233.70	231.68	228.26	221.80	212.93	202.25	190.35	176.23	161.31
90.0	228.06	225.64	221.40	215.15	207.08	197.20	185.51	172.20	158.29
112.5	231.89	229.67	224.83	218.18	209.71	199.22	186.52	172.60	157.68
135.0	233.50	231.89	227.65	221.60	212.73	202.25	189.74	175.43	159.90
157.5	232.89	231.68	227.25	221.20	212.93	202.45	190.95	177.65	162.93
180.0	231.68	230.68	227.65	221.80	214.14	204.26	193.17	180.07	165.55
202.5	231.68	231.08	228.26	222.41	214.55	205.07	193.98	180.27	165.75
225.0	232.49	231.68	228.66	223.62	215.96	206.48	194.99	181.48	167.16
247.5	233.70	233.30	229.47	224.02	215.96	206.08	194.38	181.27	166.15
270.0	228.06	228.66	226.85	222.21	215.15	205.27	192.97	179.66	165.14
292.5	231.89	231.28	228.66	223.42	215.76	206.48	194.99	182.08	167.77
315.0	233.50	232.69	229.47	223.62	215.76	206.28	194.58	182.08	167.56
337.5	232.89	232.69	229.87	224.63	216.76	208.09	196.40	183.29	168.97
360.0	231.68	230.48	226.85	220.80	212.73	203.05	191.76	178.65	164.34
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	148.61	132.48	115.34	95.98	77.03	57.87	37.91	19.36	4.84
22.5	148.21	130.86	113.12	95.17	76.22	56.66	37.30	19.36	4.64
45.0	147.60	130.26	112.31	93.56	75.21	55.65	35.89	17.54	3.43
67.5	145.18	128.65	110.30	91.75	72.59	53.44	34.08	16.13	2.42
90.0	142.36	125.42	108.08	90.34	71.18	51.62	32.26	15.33	1.82
112.5	142.36	124.41	107.07	89.13	70.78	51.82	32.87	15.33	2.22
135.0	143.77	126.83	108.48	90.34	71.58	52.02	33.47	15.73	2.42
157.5	146.79	129.66	112.31	93.36	73.40	53.44	34.48	16.74	2.62
180.0	150.22	134.29	116.95	98.80	79.45	59.69	39.52	20.97	5.85
202.5	150.83	133.89	116.55	98.20	79.25	59.28	39.32	21.58	6.05
225.0	151.23	134.09	116.35	98.60	78.84	59.28	39.52	20.97	5.44
247.5	150.22	133.49	115.94	97.39	78.04	59.08	39.52	20.77	4.64
270.0	149.21	133.28	115.74	96.79	77.43	57.87	38.51	20.16	4.64
292.5	151.84	134.90	116.95	98.80	79.85	60.29	41.14	21.78	5.65
315.0	152.24	135.70	118.97	100.42	81.26	61.30	42.14	23.39	6.86
337.5	153.65	136.91	119.37	100.62	81.46	62.71	42.75	24.00	7.46
360.0	148.61	132.48	115.34	95.98	77.03	57.87	37.91	19.36	4.84
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	0.00	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
157.5	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
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	0.00	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

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	0.00	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	0.00	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
157.5	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
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	0.00	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								
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360.0	0.00								