



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

Luminaire:

Report No:

Voltage(V): 120.02

Test No:

Current(A): 0.0454

LampCAT:

Power (W): 4.8710

Lamp flux(lm): 251.9

PF: 0.8939

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 251.88

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 51.71

Central intensity(cd): 96.536

Maximum intensity(cd): 96.536

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=106.9

[C90/270]Total=108.1

Field angle(10%Imax): [C0/180]Total=156.2

[C90/270]Total=155.5

Maximum s/h(1/2): C0_180=1.24 C90_270=1.22

Maximum s/h(1/4): C0_180=1.77 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 : 81.359%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

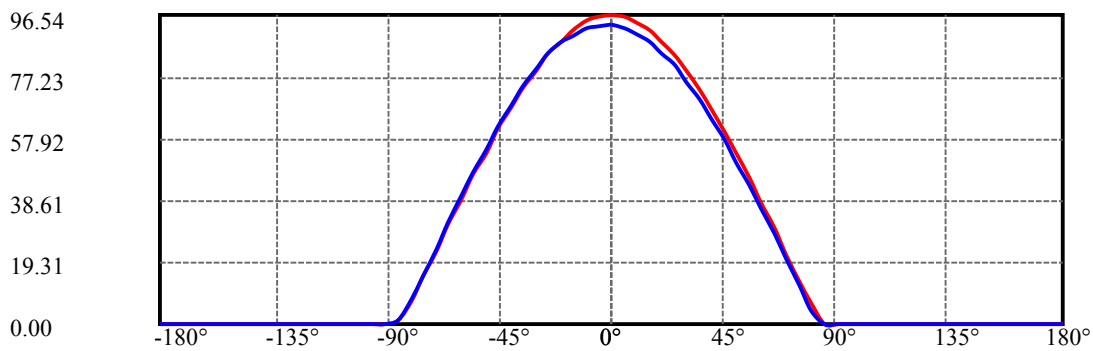
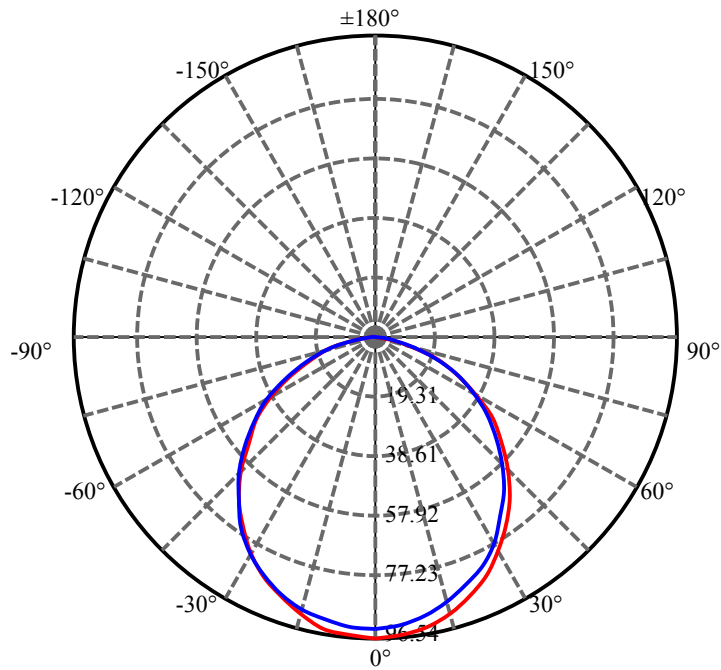
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	94.922	.000	.000	.000%	.000%
5.0	94.419	2.264	2.264	.899%	.899%
10.0	92.977	6.704	8.967	2.661%	3.560%
15.0	90.371	10.876	19.843	4.318%	7.878%
20.0	87.182	14.633	34.476	5.809%	13.688%
25.0	82.934	17.842	52.318	7.084%	20.771%
30.0	78.092	20.378	72.696	8.090%	28.861%
35.0	72.442	22.167	94.863	8.801%	37.662%
40.0	66.422	23.168	118.032	9.198%	46.860%
45.0	59.832	23.377	141.409	9.281%	56.141%
50.0	52.833	22.766	164.174	9.038%	65.180%
55.0	45.635	21.410	185.585	8.500%	73.680%
60.0	38.040	19.341	204.926	7.679%	81.359%
65.0	30.273	16.607	221.533	6.593%	87.952%
70.0	22.149	13.274	234.807	5.270%	93.222%
75.0	14.039	9.459	244.266	3.755%	96.977%
80.0	6.483	5.491	249.757	2.180%	99.157%
85.0	.662	1.942	251.698	.771%	99.928%
90.0	.000	.181	251.880	.072%	100.000%
95.0	.000	.000	251.880	.000%	100.000%
100.0	.000	.000	251.880	.000%	100.000%
105.0	.000	.000	251.880	.000%	100.000%
110.0	.000	.000	251.880	.000%	100.000%
115.0	.000	.000	251.880	.000%	100.000%
120.0	.000	.000	251.880	.000%	100.000%
125.0	.000	.000	251.880	.000%	100.000%
130.0	.000	.000	251.880	.000%	100.000%
135.0	.000	.000	251.880	.000%	100.000%
140.0	.000	.000	251.880	.000%	100.000%
145.0	.000	.000	251.880	.000%	100.000%
150.0	.000	.000	251.880	.000%	100.000%
155.0	.000	.000	251.880	.000%	100.000%
160.0	.000	.000	251.880	.000%	100.000%
165.0	.000	.000	251.880	.000%	100.000%
170.0	.000	.000	251.880	.000%	100.000%
175.0	.000	.000	251.880	.000%	100.000%
180.0	.000	.000	251.880	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	72.70	28.86%	28.86%
0-40	118.03	46.86%	46.86%
0-60	204.93	81.36%	81.36%
0-90	251.88	100.00%	100.00%
0-120	251.88	100.00%	100.00%
0-180	251.88	100.00%	100.00%
60-90	66.29	26.32%	26.32%
90-120	0.18	0.07%	0.07%
90-130	0.18	0.07%	0.07%
90-150	0.18	0.07%	0.07%
90-180	0.18	0.07%	0.07%
0-59.12	201.50	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	8.97
10-20	25.51
20-30	38.22
30-40	45.34
40-50	46.14
50-60	40.75
60-70	29.88
70-80	14.95
80-90	2.12
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

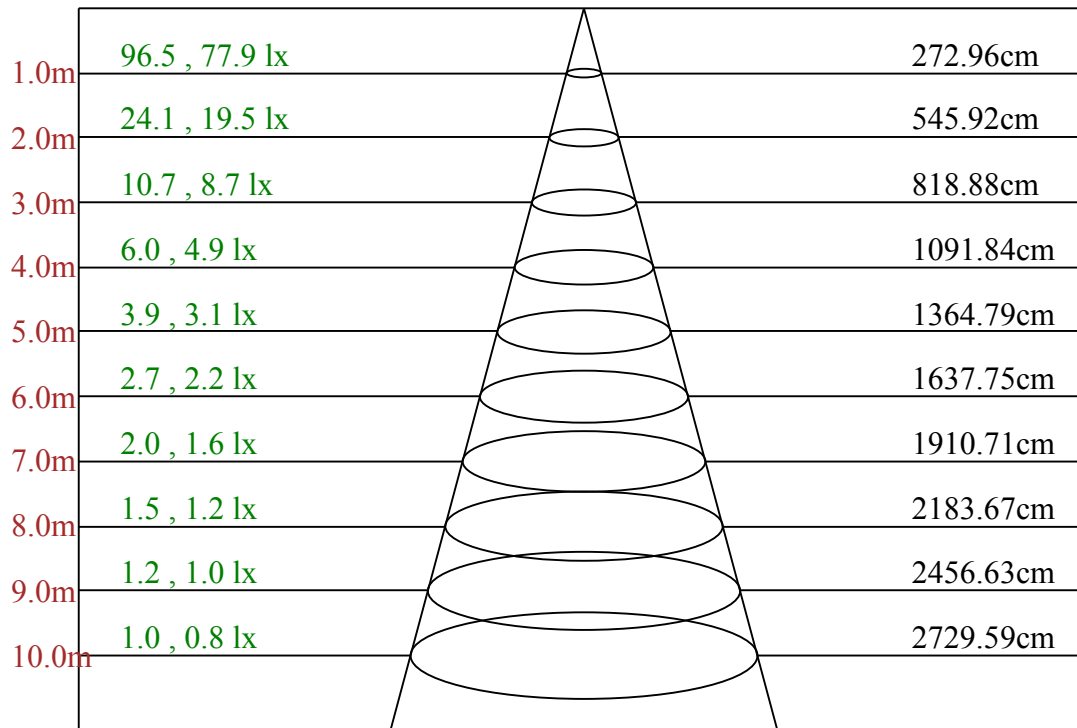


C0/C180: —

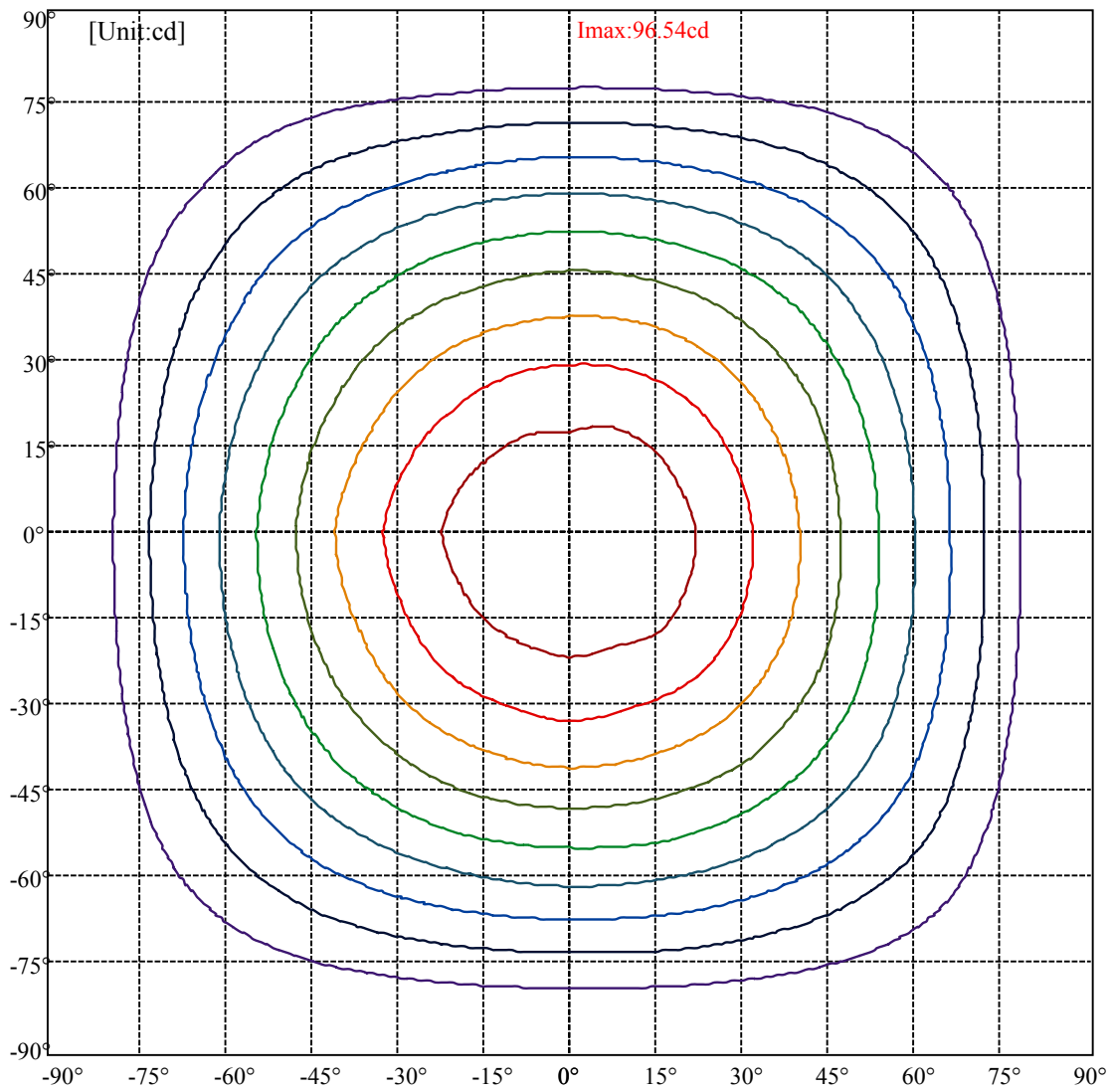
C90/C270: —

Field angle(10%Imax):C0/180Left:78.5 Right:77.6
 :C90/270Left:78.8 Right:76.7

Beam Angle(50%Imax):C0/180Left:53.8 Right:53.2
 :C90/270Left:55.5 Right:52.6



Max , Ave Beam angle of C0plane107.53



(10%Imax) 9.63668	—
(20%Imax) 19.2734	—
(30%Imax) 28.91	—
(40%Imax) 38.5467	—
(50%Imax) 48.1834	—
(60%Imax) 57.8201	—
(70%Imax) 67.4568	—
(80%Imax) 77.0934	—
(90%Imax) 86.7301	—

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	96.54	95.69	94.42	91.88	88.28	83.83	78.97	73.25	67.11
22.5	94.84	94.42	92.94	90.19	87.01	82.78	77.70	71.98	65.84
45.0	94.84	94.21	92.73	89.76	86.80	81.93	77.27	71.77	65.20
67.5	94.84	94.42	92.73	89.97	86.38	81.72	76.64	70.92	64.78
90.0	93.57	92.30	90.82	88.07	84.68	80.87	75.79	69.86	63.93
112.5	94.42	93.78	91.67	88.92	85.32	80.87	75.58	69.65	63.72
135.0	95.05	94.00	92.30	89.34	85.53	80.87	75.58	70.07	63.93
157.5	95.27	94.84	92.94	89.97	86.80	82.14	77.06	70.92	64.78
180.0	96.54	95.69	94.63	91.67	88.28	84.47	79.39	73.88	67.96
202.5	94.84	94.84	92.94	90.61	87.43	83.41	78.33	72.83	66.69
225.0	94.84	94.63	93.15	90.61	87.43	83.20	78.97	73.46	67.32
247.5	94.84	94.42	93.15	90.40	87.43	83.41	78.97	73.25	67.53
270.0	93.57	93.15	92.09	90.19	87.86	84.26	80.02	74.52	68.38
292.5	94.42	94.42	92.94	90.61	87.65	83.83	79.18	73.88	68.38
315.0	95.05	94.84	94.21	92.09	89.34	85.10	80.45	74.52	68.80
337.5	95.27	95.05	94.00	91.67	88.70	84.26	79.60	74.31	68.38
360.0	96.54	95.69	94.42	91.88	88.28	83.83	78.97	73.25	67.11
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	60.12	53.14	45.52	37.68	29.85	21.81	13.34	6.35	0.00
22.5	59.70	52.71	45.09	37.47	29.85	21.81	13.76	6.14	0.42
45.0	58.64	51.87	44.46	36.84	29.22	21.17	13.13	5.93	0.00
67.5	58.01	51.02	43.61	35.99	28.37	20.32	12.28	4.87	0.00
90.0	57.80	50.60	43.40	35.99	28.37	20.11	11.86	4.45	0.00
112.5	56.74	50.39	42.76	35.57	27.31	19.48	11.64	4.45	0.00
135.0	57.58	50.17	42.76	35.57	27.52	20.11	12.49	4.66	0.00
157.5	58.22	51.02	43.61	35.78	28.16	20.32	12.07	5.08	0.00
180.0	60.97	53.35	46.58	38.95	31.33	22.86	15.03	7.41	1.06
202.5	60.34	53.14	46.58	38.95	31.33	23.08	15.03	7.41	1.06
225.0	60.55	53.56	46.79	38.95	31.76	23.29	15.24	7.41	1.06
247.5	61.18	54.41	47.21	39.17	31.54	23.29	15.03	7.41	1.06
270.0	61.61	54.41	47.42	40.44	31.97	23.50	15.03	7.62	1.27
292.5	61.39	55.04	48.27	40.44	32.39	24.13	16.09	7.83	1.27
315.0	62.45	55.47	48.06	40.44	32.60	24.35	16.09	8.26	1.69
337.5	62.03	55.04	48.06	40.44	32.81	24.77	16.51	8.47	1.69
360.0	60.12	53.14	45.52	37.68	29.85	21.81	13.34	6.35	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	0.00	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)

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
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