



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

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 904.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.04

Current(A): 0.1396

Power (W): 15.4240

PF: 0.9204

Ballast type:

Width(mm): 0

Height(mm): 0

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### Photometric Results

Lumens(lm): 904.02

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 58.61

Central intensity(cd): 326.657

Maximum intensity(cd): 333.513

Angle of maximum intensity: C=67.5  $\gamma$ =0.0

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

[C90/270]Total=109.5

Field angle(10%Imax): [C0/180]Total=158.8

[C90/270]Total=157.9

Maximum s/h(1/2): C0\_180=1.24 C90\_270=1.24

Maximum s/h(1/4): C0\_180=1.77 C90\_270=1.37

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  $\pi$  solid angle : 80.139%

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

Date:  
Humidity(%): 58%

Operator: Zac

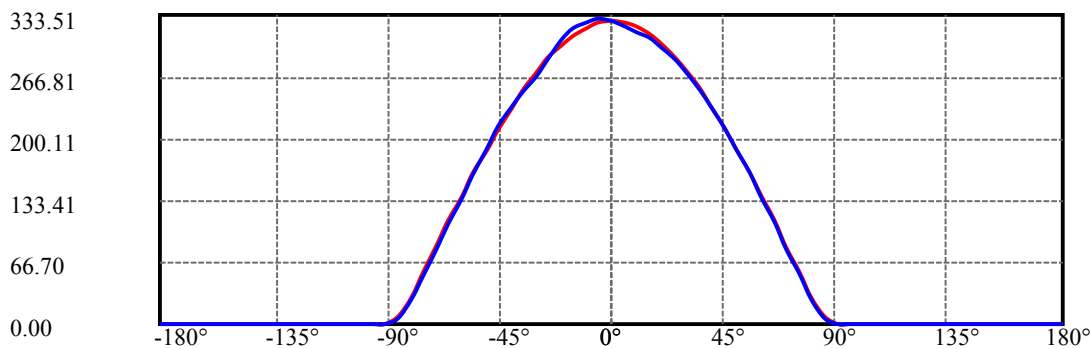
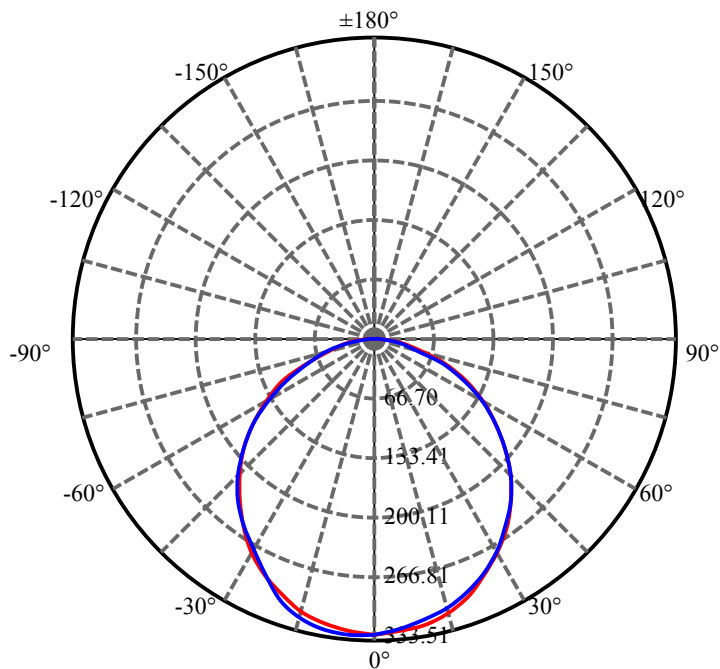
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	330.211	.000	.000	.000%	.000%
5.0	328.333	7.873	7.873	.871%	.871%
10.0	323.519	23.319	31.191	2.579%	3.450%
15.0	315.504	37.906	69.098	4.193%	7.643%
20.0	304.401	51.089	120.187	5.651%	13.295%
25.0	290.147	62.357	182.544	6.898%	20.192%
30.0	273.689	71.354	253.898	7.893%	28.085%
35.0	255.276	77.894	331.792	8.616%	36.702%
40.0	235.011	81.801	413.592	9.049%	45.750%
45.0	212.982	82.950	496.542	9.176%	54.926%
50.0	189.176	81.262	577.804	8.989%	63.915%
55.0	164.236	76.844	654.648	8.500%	72.415%
60.0	137.846	69.825	724.473	7.724%	80.139%
65.0	110.726	60.428	784.901	6.684%	86.823%
70.0	82.799	49.002	833.903	5.420%	92.244%
75.0	55.023	36.024	869.927	3.985%	96.228%
80.0	28.696	22.401	892.328	2.478%	98.706%
85.0	7.146	9.739	902.067	1.077%	99.784%
90.0	.000	1.957	904.023	.216%	100.000%
95.0	.000	.000	904.023	.000%	100.000%
100.0	.000	.000	904.023	.000%	100.000%
105.0	.000	.000	904.023	.000%	100.000%
110.0	.000	.000	904.023	.000%	100.000%
115.0	.000	.000	904.023	.000%	100.000%
120.0	.000	.000	904.023	.000%	100.000%
125.0	.000	.000	904.023	.000%	100.000%
130.0	.000	.000	904.023	.000%	100.000%
135.0	.000	.000	904.023	.000%	100.000%
140.0	.000	.000	904.023	.000%	100.000%
145.0	.000	.000	904.023	.000%	100.000%
150.0	.000	.000	904.023	.000%	100.000%
155.0	.000	.000	904.023	.000%	100.000%
160.0	.000	.000	904.023	.000%	100.000%
165.0	.000	.000	904.023	.000%	100.000%
170.0	.000	.000	904.023	.000%	100.000%
175.0	.000	.000	904.023	.000%	100.000%
180.0	.000	.000	904.023	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	253.90	28.09%	28.09%
0-40	413.59	45.75%	45.75%
0-60	724.47	80.14%	80.14%
0-90	904.02	100.00%	100.00%
0-120	904.02	100.00%	100.00%
0-180	904.02	100.00%	100.00%
60-90	249.38	27.59%	27.59%
90-120	1.96	0.22%	0.22%
90-130	1.96	0.22%	0.22%
90-150	1.96	0.22%	0.22%
90-180	1.96	0.22%	0.22%
0-59.91	723.22	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	31.19
10-20	89.00
20-30	133.71
30-40	159.69
40-50	164.21
50-60	146.67
60-70	109.43
70-80	58.42
80-90	11.70
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

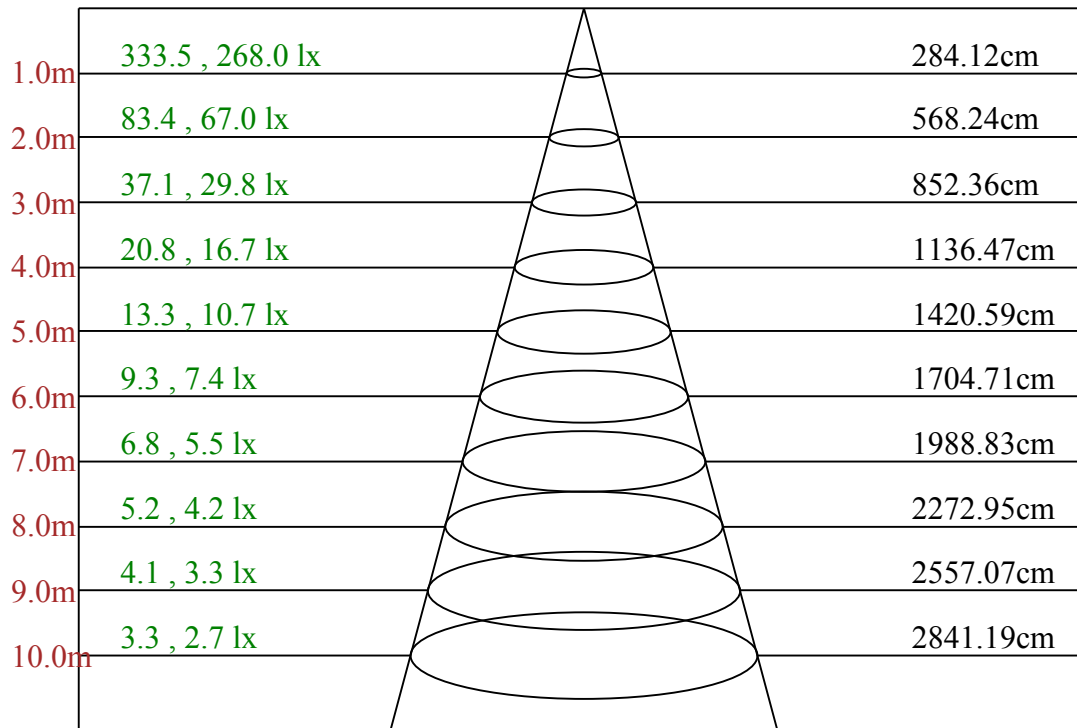


C0/C180: —

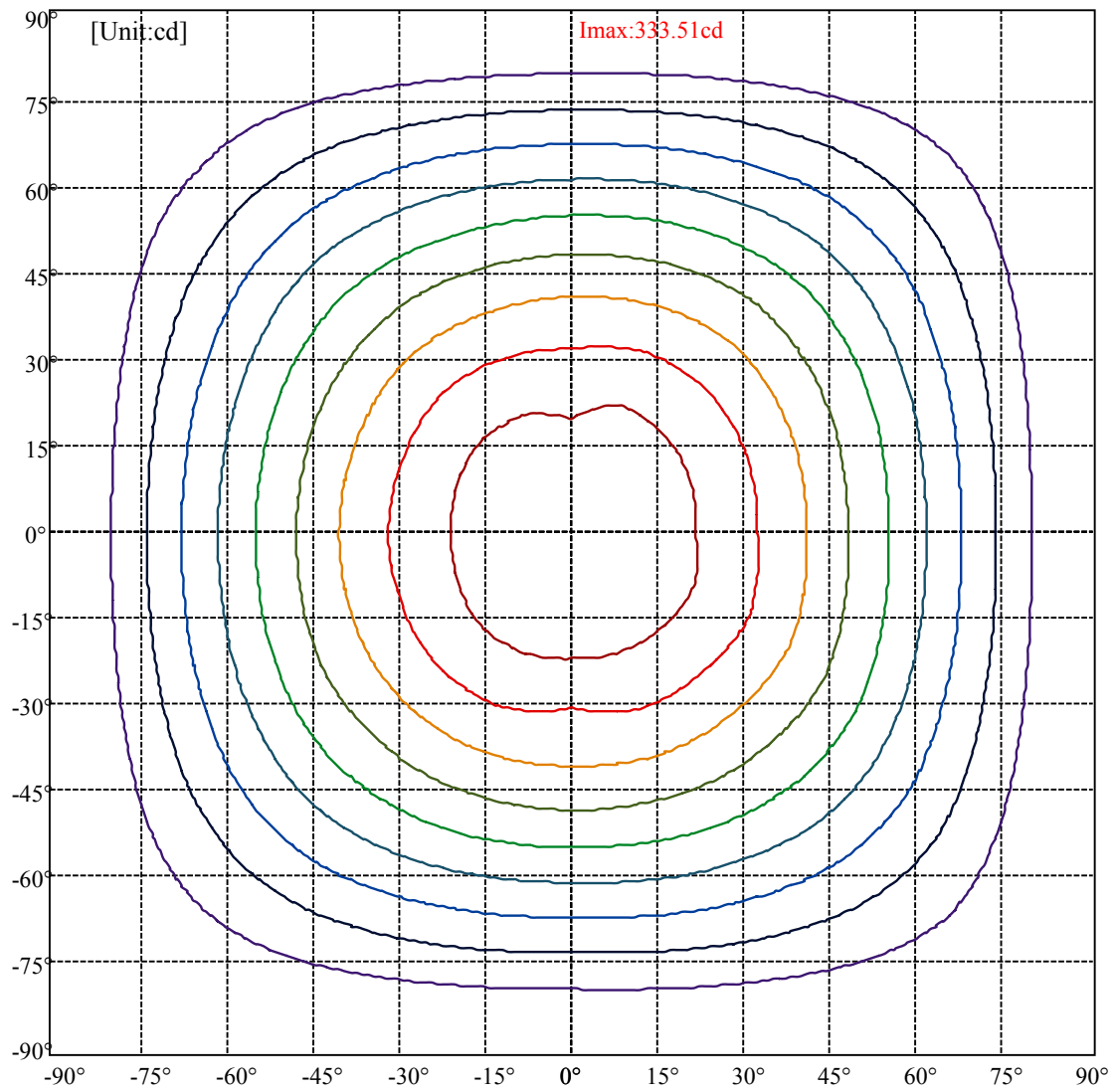
C90/C270: —

Field angle(10%Imax):C0/180Left:79.4 Right:79.4  
 :C90/270Left:73.8 Right:84.0

Beam Angle(50%Imax):C0/180Left:55.0 Right:55.2  
 :C90/270Left:49.6 Right:59.8



Max , Ave      Beam angle of C67.5plane109.71



(10%Imax)	33.2169	—
(20%Imax)	66.4337	—
(30%Imax)	99.6506	—
(40%Imax)	132.867	—
(50%Imax)	166.084	—
(60%Imax)	199.301	—
(70%Imax)	232.518	—
(80%Imax)	265.735	—
(90%Imax)	298.952	—

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	326.66	325.04	321.01	313.55	302.66	288.95	273.02	254.67	234.51
22.5	330.09	329.28	324.24	316.37	305.08	291.98	275.24	257.29	236.73
45.0	331.30	329.68	324.84	316.98	306.70	292.78	277.66	259.51	239.75
67.5	333.51	331.30	327.67	319.40	308.71	294.39	278.06	258.50	237.73
90.0	326.86	321.62	315.16	308.71	297.42	285.72	270.60	253.66	234.71
112.5	331.09	329.28	324.04	315.16	303.47	289.96	272.82	253.66	232.29
135.0	331.30	329.28	324.44	315.97	304.07	289.76	273.83	254.27	233.10
157.5	330.89	327.87	322.83	313.95	302.66	287.54	270.60	252.05	231.28
180.0	326.66	324.64	319.40	311.53	300.65	287.34	271.21	252.86	232.49
202.5	330.09	328.07	322.83	313.55	302.46	288.35	271.41	252.86	232.89
225.0	331.30	329.28	324.24	316.17	305.28	291.17	274.23	254.47	233.50
247.5	333.51	330.89	325.45	317.58	306.09	291.17	274.23	255.68	234.51
270.0	326.86	328.88	325.04	317.99	306.70	285.93	266.77	251.04	233.90
292.5	331.09	329.48	324.84	316.17	305.49	291.57	275.44	256.29	232.32
315.0	331.30	329.88	325.04	317.18	305.69	291.98	275.04	256.89	236.32
337.5	330.89	328.88	325.25	317.79	307.30	293.79	278.87	260.72	240.15
360.0	326.66	325.04	321.01	313.55	302.66	288.95	273.02	254.67	234.51
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	211.92	187.93	164.54	139.13	111.71	83.68	56.26	29.44	7.46
22.5	214.34	190.35	166.56	140.14	113.32	85.50	57.06	31.25	8.67
45.0	218.58	193.78	168.17	140.95	113.93	85.09	56.66	29.84	8.27
67.5	214.95	191.76	166.35	139.54	111.71	82.87	55.65	29.04	6.45
90.0	212.33	188.74	163.53	136.71	109.69	81.26	53.44	27.83	5.44
112.5	210.51	186.52	159.90	134.90	108.48	80.45	52.23	26.62	5.24
135.0	209.71	186.11	160.51	134.29	106.06	79.25	51.62	25.81	5.24
157.5	209.50	185.51	161.11	133.89	106.67	78.44	50.81	24.80	5.24
180.0	209.71	187.32	163.13	137.32	111.71	84.08	56.06	29.24	8.07
202.5	211.72	188.53	163.33	136.91	111.10	82.27	54.24	28.63	7.26
225.0	210.71	186.72	162.72	137.12	109.69	82.27	54.04	27.63	6.45
247.5	211.92	188.33	163.13	135.70	108.08	81.46	53.84	27.22	6.05
270.0	214.14	189.34	162.52	135.10	108.28	80.05	52.43	27.02	6.05
292.5	213.94	189.95	164.94	139.13	111.31	83.48	56.46	29.44	7.66
315.0	214.75	191.16	167.36	141.55	114.33	85.90	58.68	31.25	9.28
337.5	218.98	194.78	169.98	143.16	115.54	88.72	60.90	34.08	11.49
360.0	211.92	187.93	164.54	139.13	111.71	83.68	56.26	29.44	7.46
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

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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