



Shenzhen Belling Efficiency Testing Lab Co.,Ltd  
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Report No	:	Voltage	:	120.01 V
Test No	:	Current	:	0.1248 A
LumCAT	:	Power	:	14.829 W
Luminaire	:	PF	:	0.99
LampCAT	:	Ballast type	:	
Lamp flux	:	Width	:	0 mm
Number of Lamps	:	Length	:	0 mm
Phm Type	:	Height	:	0 mm

### Photometric Results

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Lumens(lm)	:	1136.68	Central intensity(cd)	:	3640.768
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	3640.768
Luminous Efficacy(lm/W)	:	76.65	Angle of maximum intensity	:	C=0.0 $\gamma$ =0.0
Beam Angle(50%Imax)	:	[C0/180]Total=32.4 [C90/270]Total=32.7			
Field angle(10%Imax)	:	[C0/180]Total=50.1 [C90/270]Total=50.3			
Maximum s/h(1/2)	:	C0_180=0.52 C90_270=0.60			
Maximum s/h(1/4)	:	C0_180=0.49 C90_270=0.55			
Up flux rate of lamp(%)	:	0.03%			
Down flux rate of lamp(%)	:	99.97%			
Up flux rate of LUM(%)	:	0.03%			
Down flux rate of LUM(%)	:	99.97%			
CIE Type	:	Direct lighting			
Output flux ratio in $\pi$ solid angle	:	99.215%			

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

Date:  
Humidity(%): 59%

Operator: jarvis

Zonal flux distribution table

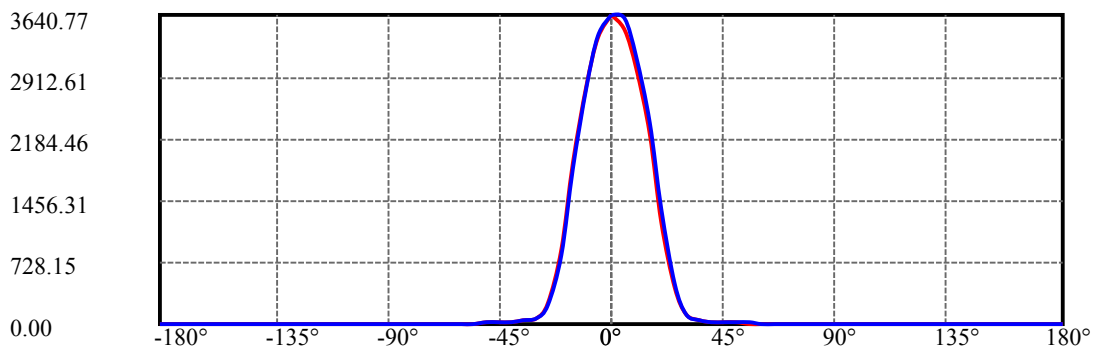
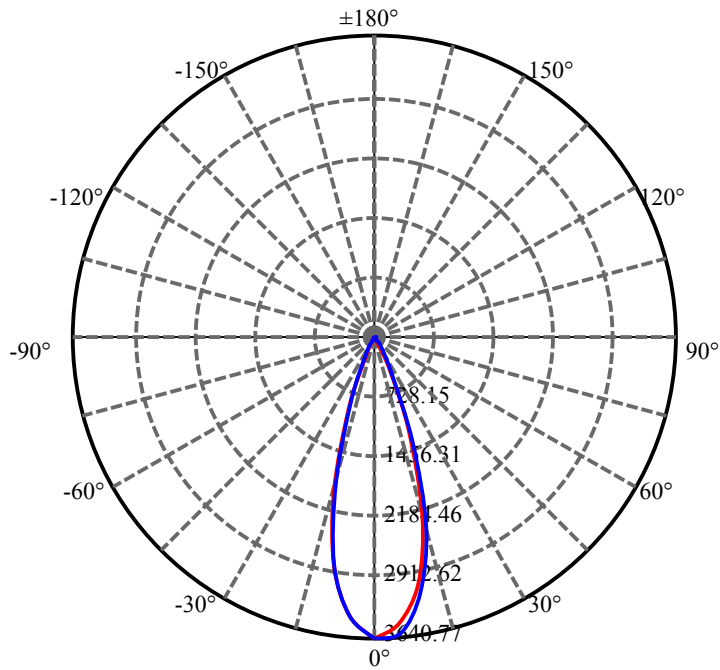
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3640.768	0.000	0	0.00%	0.00%
5.0	3426.207	84.484	84.484	7.43%	7.43%
10.0	2924.607	227.189	311.672	19.99%	27.42%
15.0	2087.740	297.329	609.001	26.16%	53.58%
20.0	1065.735	259.891	868.892	22.86%	76.44%
25.0	347.299	148.201	1017.093	13.04%	89.48%
30.0	91.845	55.574	1072.667	4.89%	94.37%
35.0	40.778	19.530	1092.197	1.72%	96.09%
40.0	25.460	11.051	1103.248	0.97%	97.06%
45.0	18.780	8.191	1111.439	0.72%	97.78%
50.0	13.803	6.584	1118.023	0.58%	98.36%
55.0	10.812	5.352	1123.375	0.47%	98.83%
60.0	8.129	4.378	1127.753	0.39%	99.21%
65.0	5.808	3.388	1131.141	0.30%	99.51%
70.0	3.917	2.462	1133.604	0.22%	99.73%
75.0	2.240	1.609	1135.213	0.14%	99.87%
80.0	0.845	0.825	1136.039	0.07%	99.94%
85.0	0.081	0.252	1136.29	0.02%	99.97%
90.0	0.000	0.022	1136.312	0.00%	99.97%
95.0	0.000	0.000	1136.312	0.00%	99.97%
100.0	0.000	0.000	1136.312	0.00%	99.97%
105.0	0.000	0.000	1136.312	0.00%	99.97%
110.0	0.000	0.000	1136.312	0.00%	99.97%
115.0	0.000	0.000	1136.312	0.00%	99.97%
120.0	0.000	0.000	1136.312	0.00%	99.97%
125.0	0.000	0.000	1136.312	0.00%	99.97%
130.0	0.000	0.000	1136.312	0.00%	99.97%
135.0	0.000	0.000	1136.312	0.00%	99.97%
140.0	0.000	0.000	1136.312	0.00%	99.97%
145.0	0.027	0.004	1136.317	0.00%	99.97%
150.0	0.040	0.010	1136.326	0.00%	99.97%
155.0	0.175	0.027	1136.354	0.00%	99.97%
160.0	0.456	0.066	1136.42	0.01%	99.98%
165.0	0.657	0.092	1136.512	0.01%	99.99%
170.0	0.805	0.087	1136.598	0.01%	99.99%
175.0	0.872	0.060	1136.658	0.01%	100.00%
180.0	1.010	0.022	1136.681	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1072.67	94.37%	94.37%
0-40	1103.25	97.06%	97.06%
0-60	1127.75	99.21%	99.21%
0-90	1136.31	99.97%	99.97%
0-120	1136.31	99.97%	99.97%
0-180	1136.68	100.00%	100.00%
60-90	8.56	0.75%	0.75%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.01	0.00%	0.00%
90-180	0.35	0.03%	0.03%
0-21.36	909.34	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	311.67
10-20	557.22
20-30	203.78
30-40	30.58
40-50	14.77
50-60	9.73
60-70	5.85
70-80	2.43
80-90	0.27
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.01
150-160	0.09
160-170	0.18
170-180	0.06

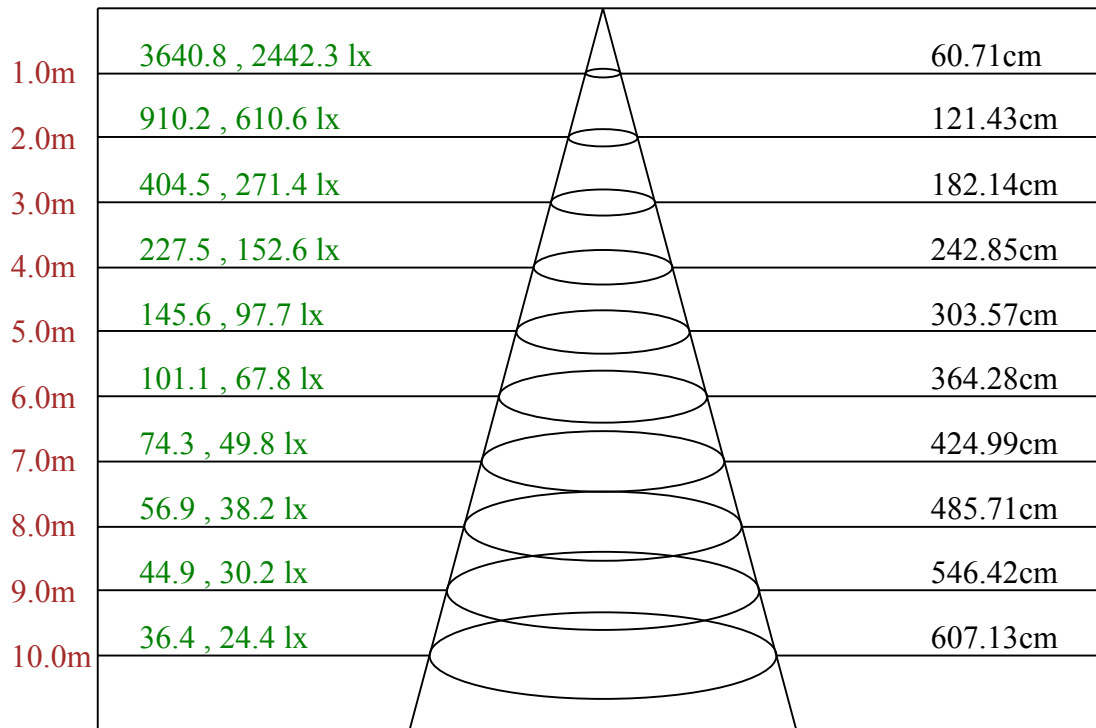


C0/C180: —

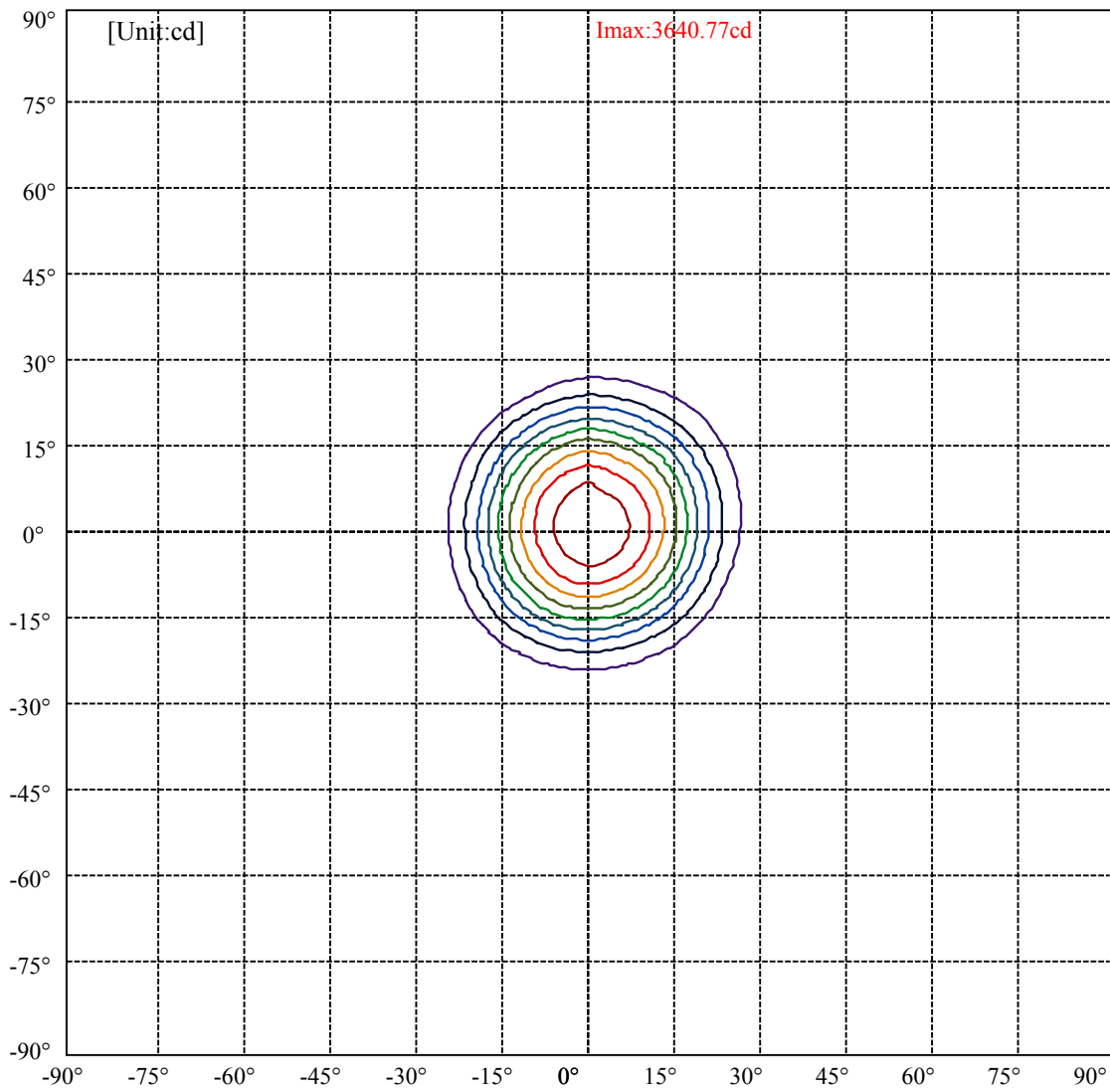
C90/C270: —

Field angle(10%Imax):C0/180Left:24.0 Right:26.1  
 :C90/270Left:23.8 Right:26.5

Beam Angle(50%Imax):C0/180Left:15.4 Right:17.0  
 :C90/270Left:15.0 Right:17.7



Max , Ave      Beam angle of C0 plane 33.77



(10%Imax)	364.077	—
(20%Imax)	728.154	—
(30%Imax)	1092.23	—
(40%Imax)	1456.31	—
(50%Imax)	1820.38	—
(60%Imax)	2184.46	—
(70%Imax)	2548.54	—
(80%Imax)	2912.61	—
(90%Imax)	3276.69	—

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

Date:  
Humidity(%): 59%

Operator: jarvis

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	3640.77	3457.35	3012.87	2236.37	1198.67	437.19	112.68	43.57	25.97
22.5	3640.77	3471.52	3060.52	2336.38	1352.77	528.83	152.17	50.65	29.62
45.0	3640.77	3477.31	3070.39	2387.89	1412.22	569.39	170.20	51.51	31.76
67.5	3640.77	3458.43	3050.00	2331.44	1338.82	495.35	136.29	45.93	30.26
90.0	3640.77	3592.57	3142.93	2384.24	1349.76	474.10	118.90	45.29	30.91
112.5	3640.77	3524.53	3037.12	2256.54	1230.65	391.69	94.22	39.92	27.69
135.0	3640.77	3460.57	2957.28	2123.26	1097.15	341.04	86.06	40.56	25.11
157.5	3640.77	3404.77	2872.08	1995.99	956.79	286.52	70.40	36.70	23.18
180.0	3640.77	3365.07	2809.19	1908.64	885.10	239.95	63.53	35.63	22.11
202.5	3640.77	3336.31	2786.66	1900.05	856.34	235.23	63.53	36.92	22.11
225.0	3640.77	3337.59	2797.18	1867.00	868.58	247.67	64.17	39.06	22.54
247.5	3640.77	3324.72	2802.33	1886.32	838.75	228.14	63.10	36.70	22.32
270.0	3640.77	3382.88	2790.09	1820.86	809.34	216.55	57.09	35.63	23.18
292.5	3640.77	3384.81	2800.61	1879.23	826.73	232.44	59.67	35.41	22.97
315.0	3640.77	3399.84	2867.57	1989.77	941.33	278.58	72.11	38.42	23.39
337.5	3640.77	3441.04	2936.89	2099.87	1088.78	354.13	85.42	40.56	24.25
360.0	3640.77	3457.35	3012.87	2236.37	1198.67	437.19	112.68	43.57	25.97
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	19.10	14.17	11.16	8.37	6.01	4.29	2.58	1.07	0.00
22.5	20.18	14.81	11.59	8.80	6.65	4.29	2.58	1.29	0.43
45.0	20.60	15.24	11.80	8.80	6.44	4.72	2.79	1.50	0.43
67.5	20.18	15.45	11.80	9.23	6.44	4.72	3.01	1.50	0.22
90.0	21.03	15.88	12.02	9.23	6.65	4.72	2.79	1.29	0.22
112.5	20.18	14.81	11.59	8.80	6.44	4.29	2.58	1.07	0.00
135.0	18.89	14.17	11.38	8.37	6.01	4.08	2.15	0.64	0.00
157.5	18.03	13.52	10.73	7.94	5.58	3.65	1.93	0.64	0.00
180.0	17.17	12.88	10.30	7.73	5.37	3.65	1.72	0.22	0.00
202.5	17.17	12.88	9.87	7.51	5.37	3.22	1.50	0.22	0.00
225.0	17.60	12.23	9.66	7.30	4.94	3.22	1.72	0.00	0.00
247.5	17.17	12.23	9.44	6.87	4.94	2.79	1.50	0.22	0.00
270.0	18.03	13.09	10.30	7.73	5.37	3.65	2.58	1.07	0.00
292.5	18.03	12.66	10.09	7.51	5.58	3.86	2.15	0.64	0.00
315.0	18.24	13.09	10.52	7.73	5.37	3.65	2.15	0.86	0.00
337.5	18.89	13.74	10.73	8.16	5.80	3.86	2.15	1.29	0.00
360.0	19.10	14.17	11.16	8.37	6.01	4.29	2.58	1.07	0.00
C/ $\gamma$ (°)	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	0.64	0.64	0.64	0.86
22.5	0.00	0.00	0.00	0.00	0.22	0.43	0.43	0.43	0.86
45.0	0.00	0.00	0.00	0.00	0.22	0.43	0.64	1.07	0.86
67.5	0.00	0.00	0.00	0.00	0.22	0.43	0.86	0.86	0.86
90.0	0.00	0.00	0.00	0.00	0.22	0.43	0.86	1.07	1.07
112.5	0.00	0.00	0.00	0.00	0.00	0.22	0.43	0.64	0.86
135.0	0.00	0.00	0.00	0.00	0.00	0.22	0.43	0.64	0.86
157.5	0.00	0.00	0.00	0.00	0.00	0.43	0.64	0.86	0.86
180.0	0.00	0.00	0.00	0.00	0.22	0.43	0.43	0.64	0.64
202.5	0.00	0.00	0.00	0.00	0.22	0.64	0.64	0.86	0.86
225.0	0.00	0.00	0.00	0.00	0.22	0.22	0.64	0.64	0.86
247.5	0.00	0.00	0.00	0.00	0.00	0.43	0.64	0.86	0.86
270.0	0.00	0.00	0.43	0.43	0.64	0.86	1.29	1.29	1.29
292.5	0.00	0.00	0.00	0.22	0.22	0.43	0.64	0.86	0.86
315.0	0.00	0.00	0.00	0.00	0.22	0.64	0.64	0.64	0.64
337.5	0.00	0.00	0.00	0.00	0.22	0.43	0.64	0.86	0.86
360.0	0.00	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.86

C/γ(°)	180.0
0.0	1.01
22.5	1.01
45.0	1.01
67.5	1.01
90.0	1.01
112.5	1.01
135.0	1.01
157.5	1.01
180.0	1.01
202.5	1.01
225.0	1.01
247.5	1.01
270.0	1.01
292.5	1.01
315.0	1.01
337.5	1.01
360.0	1.01