



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Report No	:	Voltage	:	120.05 V
Test No	:	Current	:	0.1249 A
LumCAT	:	Power	:	14.827 W
Luminaire	:	PF	:	0.9885
LampCAT	:	Ballast type	:	
Lamp flux	:	Width	:	0 mm
Number of Lamps	:	Length	:	0 mm
Phm Type	:	Height	:	0 mm

Photometric Results

Lumens(lm)	:	1253.63	Central intensity(cd)	:	3934.222
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	4085.503
Luminous Efficacy(lm/W)	:	84.55	Angle of maximum intensity	:	C=112.5 γ =5.0
Beam Angle(50%Imax)	:	[C0/180]Total=32.9 [C90/270]Total=32.6			
Field angle(10%Imax)	:	[C0/180]Total=49.5 [C90/270]Total=48.4			
Maximum s/h(1/2)	:	C0_180=0.64 C90_270=0.64			
Maximum s/h(1/4)	:	C0_180=0.58 C90_270=0.58			
Up flux rate of lamp(%)	:	0.04%			
Down flux rate of lamp(%)	:	99.96%			
Up flux rate of LUM(%)	:	0.04%			
Down flux rate of LUM(%)	:	99.96%			
CIE Type	:	Direct lighting			
Output flux ratio in π solid angle	:	98.687%			

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

Date:
Humidity(%): 59%

Operator: jarvis

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	3934.222	0.000	0	0.00%	0.00%
5.0	3719.746	91.501	91.501	7.30%	7.30%
10.0	3163.999	246.253	337.754	19.64%	26.94%
15.0	2273.384	322.542	660.296	25.73%	52.67%
20.0	1189.627	285.401	945.697	22.77%	75.44%
25.0	380.506	164.678	1110.375	13.14%	88.57%
30.0	94.132	60.066	1170.441	4.79%	93.36%
35.0	45.342	20.539	1190.979	1.64%	95.00%
40.0	30.618	12.673	1203.653	1.01%	96.01%
45.0	23.977	10.109	1213.761	0.81%	96.82%
50.0	19.717	8.829	1222.591	0.70%	97.52%
55.0	16.268	7.824	1230.415	0.62%	98.15%
60.0	12.947	6.753	1237.168	0.54%	98.69%
65.0	9.923	5.560	1242.728	0.44%	99.13%
70.0	7.195	4.334	1247.062	0.35%	99.48%
75.0	4.710	3.112	1250.174	0.25%	99.72%
80.0	2.523	1.935	1252.109	0.15%	99.88%
85.0	0.618	0.853	1252.962	0.07%	99.95%
90.0	0.000	0.169	1253.132	0.01%	99.96%
95.0	0.000	0.000	1253.132	0.00%	99.96%
100.0	0.000	0.000	1253.132	0.00%	99.96%
105.0	0.000	0.000	1253.132	0.00%	99.96%
110.0	0.000	0.000	1253.132	0.00%	99.96%
115.0	0.000	0.000	1253.132	0.00%	99.96%
120.0	0.000	0.000	1253.132	0.00%	99.96%
125.0	0.000	0.000	1253.132	0.00%	99.96%
130.0	0.000	0.000	1253.132	0.00%	99.96%
135.0	0.000	0.000	1253.132	0.00%	99.96%
140.0	0.000	0.000	1253.132	0.00%	99.96%
145.0	0.026	0.004	1253.136	0.00%	99.96%
150.0	0.103	0.019	1253.155	0.00%	99.96%
155.0	0.283	0.049	1253.204	0.00%	99.97%
160.0	0.631	0.096	1253.3	0.01%	99.97%
165.0	0.837	0.121	1253.42	0.01%	99.98%
170.0	0.991	0.108	1253.529	0.01%	99.99%
175.0	1.081	0.074	1253.603	0.01%	100.00%
180.0	1.127	0.026	1253.629	0.00%	100.00%

Equipment: GMS-3000
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 59%

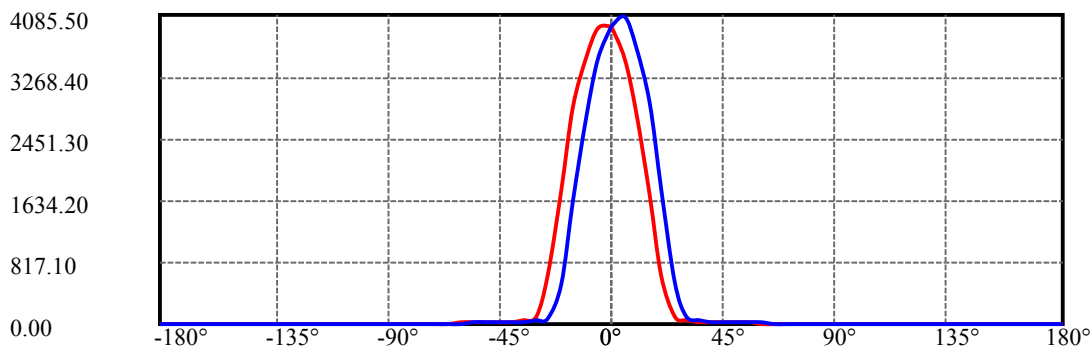
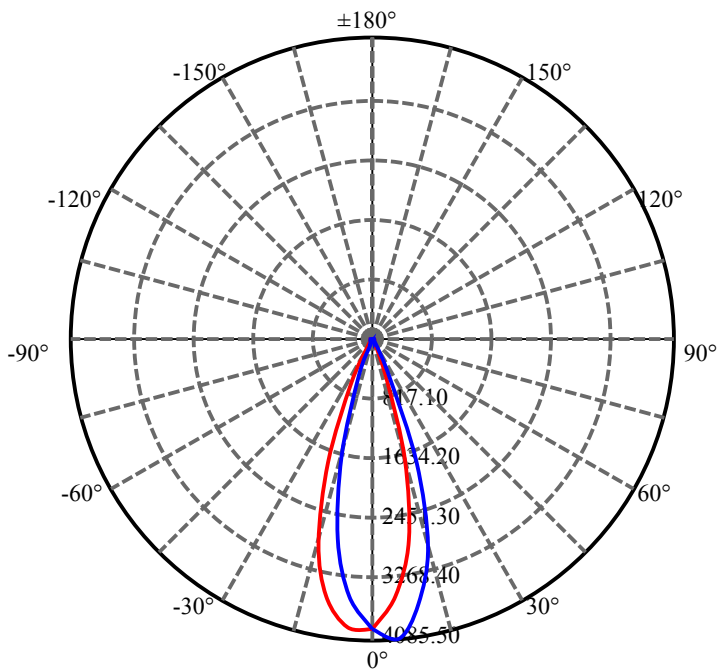
Operator: jarvis

ZONAL LUMEN SUMMARY

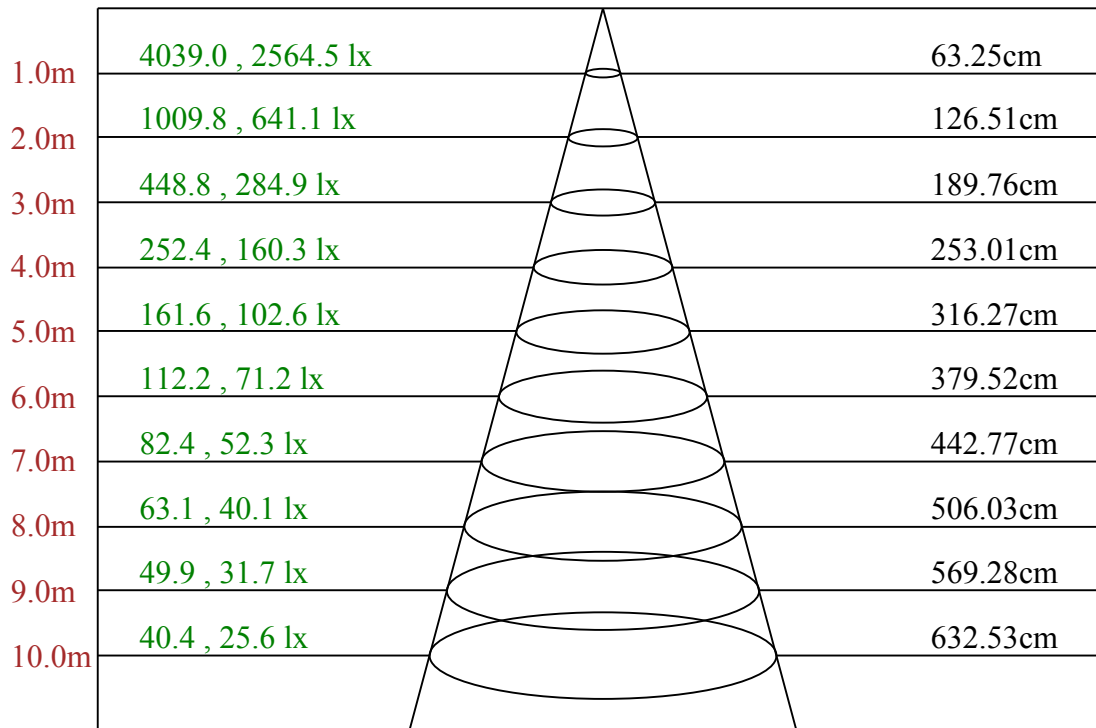
Zone	Lumens	%Lamp	%Fixt
0-30	1170.44	93.36%	93.36%
0-40	1203.65	96.01%	96.01%
0-60	1237.17	98.69%	98.69%
0-90	1253.13	99.96%	99.96%
0-120	1253.13	99.96%	99.96%
0-180	1253.63	100.00%	100.00%
60-90	15.96	1.27%	1.27%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.02	0.00%	0.00%
90-180	0.47	0.04%	0.04%
0-21.74	1002.90	80.00%	80.00%

ZONAL LUMEN SUMMARY

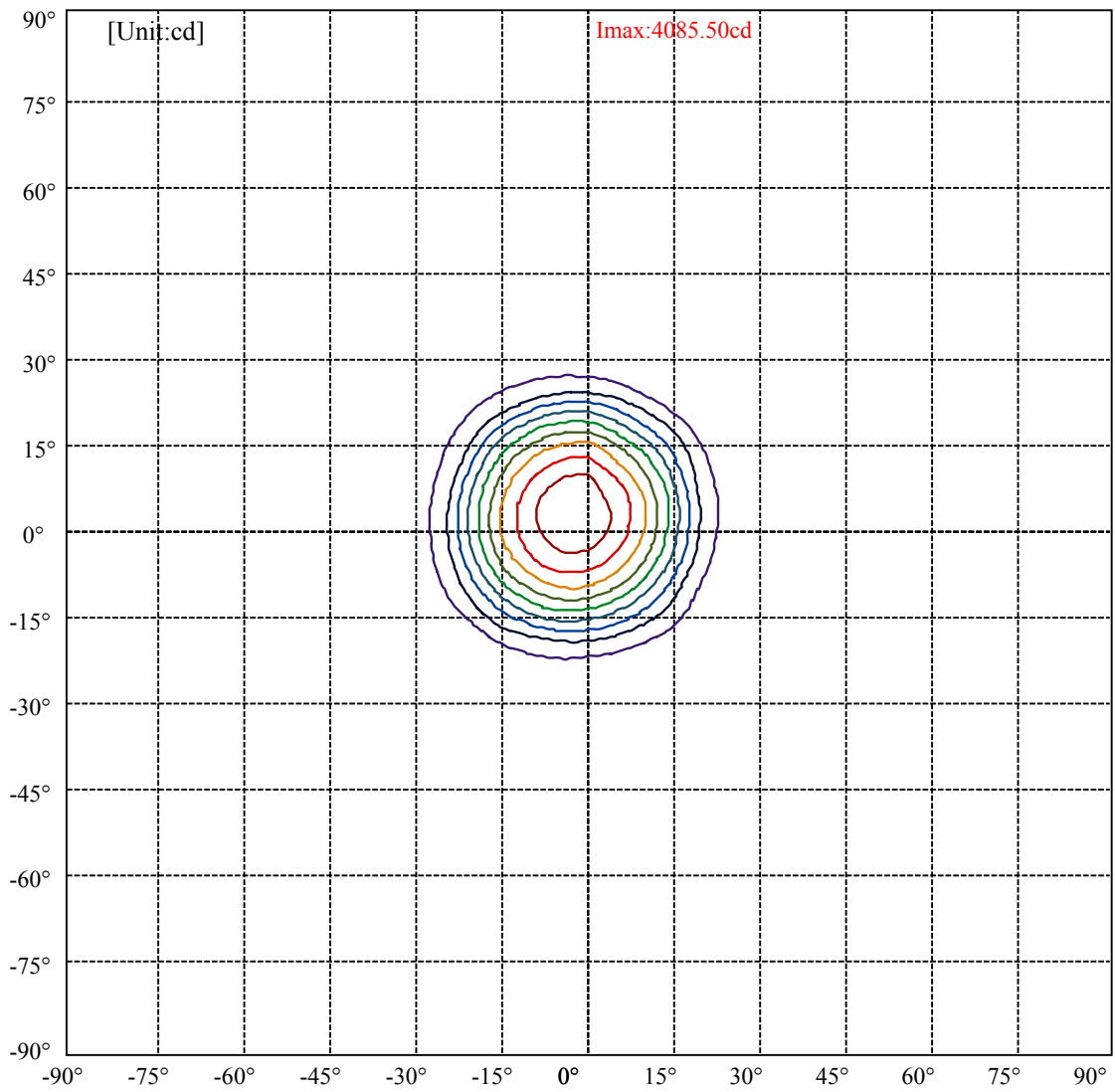
0-10	337.75
10-20	607.94
20-30	224.74
30-40	33.21
40-50	18.94
50-60	14.58
60-70	9.89
70-80	5.05
80-90	1.02
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.02
150-160	0.14
160-170	0.23
170-180	0.07



C0/C180: ———
 C90/C270: ———
 Field angle(10%Imax):C0/180Left:27.3 Right:22.2
 :C90/270Left:21.6 Right:26.8
 Beam Angle(50%Imax):C0/180Left:19.1 Right:13.8
 :C90/270Left:13.5 Right:19.1



Max , Ave Beam angle of C112.5 plane 35.10



(10%Imax) 406.646	—
(20%Imax) 813.293	—
(30%Imax) 1219.94	—
(40%Imax) 1626.59	—
(50%Imax) 2033.23	—
(60%Imax) 2439.88	—
(70%Imax) 2846.52	—
(80%Imax) 3253.17	—
(90%Imax) 3659.82	—

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	3934.22	3510.57	2778.72	1702.36	624.56	110.58	53.13	32.74	26.36
22.5	3934.22	3597.06	3000.09	2013.72	831.31	200.36	59.72	36.24	27.59
45.0	3934.22	3704.75	3189.53	2267.21	1193.73	367.16	91.43	49.01	32.54
67.5	3934.22	3798.65	3361.27	2512.67	1397.18	428.11	103.17	47.77	31.09
90.0	3934.22	4062.85	3659.24	2922.04	1768.87	560.52	89.37	50.04	33.15
112.5	3934.22	4085.50	3700.43	3010.59	1962.44	715.99	141.26	56.01	34.39
135.0	3934.22	4051.53	3688.07	3033.86	2022.37	867.96	213.54	73.31	45.51
157.5	3934.22	3989.13	3644.01	2998.85	1945.14	734.73	168.86	57.25	33.36
180.0	3934.22	3906.76	3534.66	2863.35	1770.52	648.04	91.84	45.92	31.09
202.5	3934.22	3800.30	3362.10	2623.66	1502.41	530.87	125.41	52.10	30.89
225.0	3934.22	3677.36	3159.68	2250.73	1165.11	333.59	96.37	50.86	31.09
247.5	3934.22	3568.64	2945.72	1952.76	762.94	152.59	59.10	35.83	27.59
270.0	3934.22	3512.01	2745.57	1635.85	532.31	88.55	52.51	33.98	26.77
292.5	3934.22	3419.14	2614.19	1507.35	504.30	111.82	52.30	33.77	26.56
315.0	3934.22	3400.60	2592.15	1500.76	557.84	113.88	55.60	37.68	25.95
337.5	3934.22	3431.08	2648.58	1578.40	492.98	123.35	52.51	32.95	25.95
360.0	3934.22	3510.57	2778.72	1702.36	624.56	110.58	53.13	32.74	26.36
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	22.03	18.95	15.44	12.36	9.27	6.59	4.12	1.85	0.21
22.5	22.65	19.56	16.06	12.77	9.88	7.21	4.74	2.47	0.62
45.0	24.30	19.36	16.06	12.97	10.09	7.41	5.15	2.88	1.03
67.5	25.12	20.18	17.09	13.80	10.71	7.83	5.35	3.30	1.24
90.0	26.36	22.03	18.12	14.62	11.33	8.24	5.56	3.30	1.65
112.5	27.39	21.62	18.12	14.83	11.53	8.44	5.77	3.71	1.44
135.0	27.39	21.62	17.50	14.21	11.12	8.24	5.56	3.50	1.44
157.5	26.36	21.21	17.71	14.00	10.91	8.03	5.35	2.88	0.82
180.0	24.71	20.80	17.09	13.59	10.50	7.62	4.94	2.68	0.41
202.5	24.51	19.97	16.47	12.97	9.68	7.21	4.74	2.27	0.41
225.0	23.48	18.12	15.03	12.15	9.27	6.59	4.12	1.85	0.41
247.5	21.83	18.53	15.03	11.74	8.65	5.97	3.71	1.65	0.00
270.0	22.24	18.95	15.65	12.15	9.27	6.59	4.32	2.47	0.21
292.5	22.03	18.33	15.03	11.53	8.65	6.38	3.91	2.06	0.00
315.0	21.62	17.71	14.62	11.53	8.86	6.18	3.91	1.85	0.00
337.5	21.62	18.53	15.24	11.94	9.06	6.59	4.12	1.65	0.00
360.0	22.03	18.95	15.44	12.36	9.27	6.59	4.12	1.85	0.21
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)

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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	0.21	0.41	0.82	1.03	0.82	1.03
22.5	0.00	0.00	0.00	0.21	0.41	0.62	0.62	1.03	1.03
45.0	0.00	0.00	0.00	0.00	0.21	0.41	0.82	0.82	1.03
67.5	0.00	0.00	0.00	0.00	0.21	0.62	0.62	0.62	1.03
90.0	0.00	0.00	0.00	0.00	0.21	0.62	0.82	1.44	1.44
112.5	0.00	0.00	0.00	0.00	0.21	0.41	0.62	1.03	1.24
135.0	0.00	0.00	0.00	0.00	0.00	0.41	0.62	0.82	1.03
157.5	0.00	0.00	0.00	0.00	0.00	0.41	0.82	0.82	1.24
180.0	0.00	0.00	0.00	0.00	0.00	0.41	0.62	1.03	0.62
202.5	0.00	0.00	0.00	0.00	0.00	0.41	0.62	0.82	0.82
225.0	0.00	0.00	0.00	0.00	0.21	0.41	0.62	0.82	0.82
247.5	0.00	0.00	0.00	0.00	0.00	0.62	0.82	0.82	1.03
270.0	0.00	0.00	0.21	0.62	0.82	1.24	1.44	1.65	1.65
292.5	0.00	0.00	0.21	0.21	0.82	0.82	1.24	1.24	1.24
315.0	0.00	0.00	0.00	0.21	0.41	1.03	1.03	1.03	1.03
337.5	0.00	0.00	0.00	0.21	0.62	0.82	1.03	1.03	1.03
360.0	0.00	0.00	0.00	0.21	0.41	0.82	1.03	0.82	1.03

C/γ(°)	180.0
0.0	1.13
22.5	1.13
45.0	1.13
67.5	1.13
90.0	1.13
112.5	1.13
135.0	1.13
157.5	1.13
180.0	1.13
202.5	1.13
225.0	1.13
247.5	1.13
270.0	1.13
292.5	1.13
315.0	1.13
337.5	1.13
360.0	1.13