



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

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 1073.5

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.02

Current(A): 0.1738

Power (W): 19.2750

PF: 0.9239

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1073.47

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 55.69

Central intensity(cd): 390.040

Maximum intensity(cd): 393.960

Angle of maximum intensity: C=22.5 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=109.9

[C90/270]Total=109.5

Field angle(10%Imax): [C0/180]Total=158.9

[C90/270]Total=158.6

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

Maximum s/h(1/4): C0_180=1.80 C90_270=1.33

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 : 79.910%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

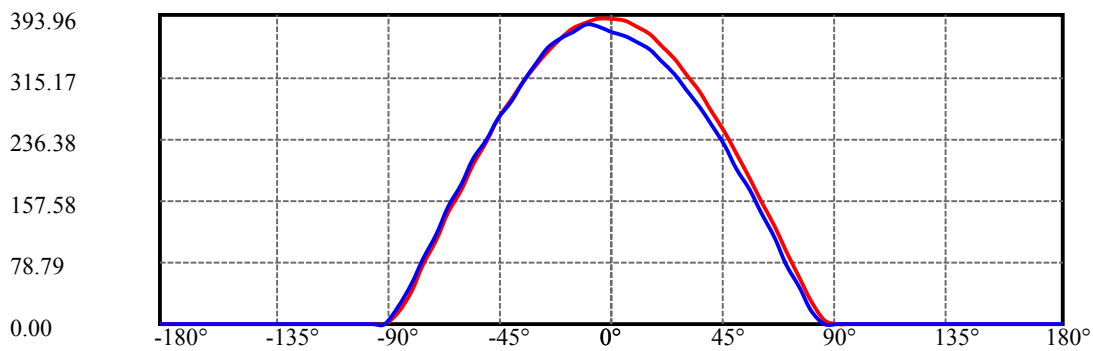
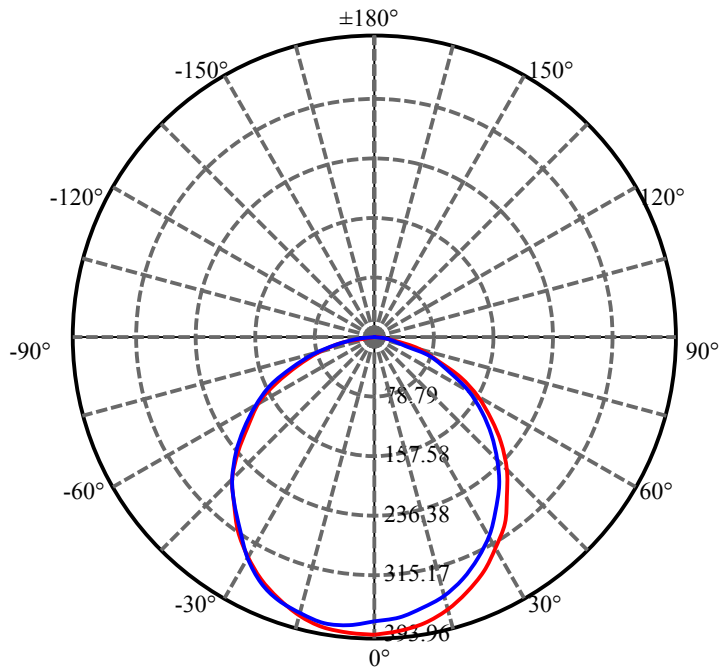
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	389.893	.000	.000	.000%	.000%
5.0	388.190	9.302	9.302	.867%	.867%
10.0	382.886	27.584	36.886	2.570%	3.436%
15.0	373.392	44.862	81.748	4.179%	7.615%
20.0	360.285	60.465	142.213	5.633%	13.248%
25.0	343.968	73.863	216.076	6.881%	20.129%
30.0	324.454	84.589	300.665	7.880%	28.009%
35.0	302.171	92.275	392.940	8.596%	36.605%
40.0	277.940	96.787	489.727	9.016%	45.621%
45.0	251.860	98.097	587.824	9.138%	54.759%
50.0	223.906	96.135	683.959	8.956%	63.715%
55.0	194.628	91.003	774.962	8.477%	72.192%
60.0	163.783	82.846	857.808	7.718%	79.910%
65.0	131.786	71.853	929.661	6.694%	86.603%
70.0	98.613	58.338	987.999	5.435%	92.038%
75.0	65.991	43.025	1031.024	4.008%	96.046%
80.0	35.182	27.071	1058.095	2.522%	98.568%
85.0	10.658	12.456	1070.551	1.160%	99.728%
90.0	.000	2.918	1073.469	.272%	100.000%
95.0	.000	.000	1073.469	.000%	100.000%
100.0	.000	.000	1073.469	.000%	100.000%
105.0	.000	.000	1073.469	.000%	100.000%
110.0	.000	.000	1073.469	.000%	100.000%
115.0	.000	.000	1073.469	.000%	100.000%
120.0	.000	.000	1073.469	.000%	100.000%
125.0	.000	.000	1073.469	.000%	100.000%
130.0	.000	.000	1073.469	.000%	100.000%
135.0	.000	.000	1073.469	.000%	100.000%
140.0	.000	.000	1073.469	.000%	100.000%
145.0	.000	.000	1073.469	.000%	100.000%
150.0	.000	.000	1073.469	.000%	100.000%
155.0	.000	.000	1073.469	.000%	100.000%
160.0	.000	.000	1073.469	.000%	100.000%
165.0	.000	.000	1073.469	.000%	100.000%
170.0	.000	.000	1073.469	.000%	100.000%
175.0	.000	.000	1073.469	.000%	100.000%
180.0	.000	.000	1073.469	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	300.67	28.01%	28.01%
0-40	489.73	45.62%	45.62%
0-60	857.81	79.91%	79.91%
0-90	1073.47	100.00%	100.00%
0-120	1073.47	100.00%	100.00%
0-180	1073.47	100.00%	100.00%
60-90	298.51	27.81%	27.81%
90-120	2.92	0.27%	0.27%
90-130	2.92	0.27%	0.27%
90-150	2.92	0.27%	0.27%
90-180	2.92	0.27%	0.27%
0-60.07	858.78	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	36.89
10-20	105.33
20-30	158.45
30-40	189.06
40-50	194.23
50-60	173.85
60-70	130.19
70-80	70.10
80-90	15.37
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

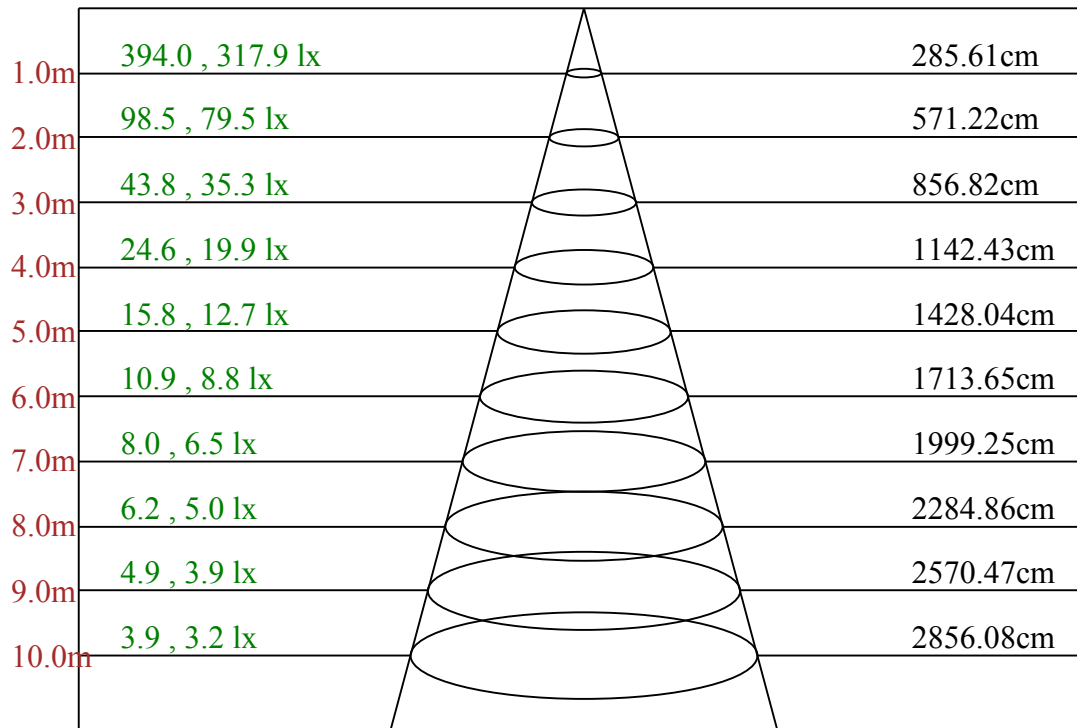


C0/C180: —

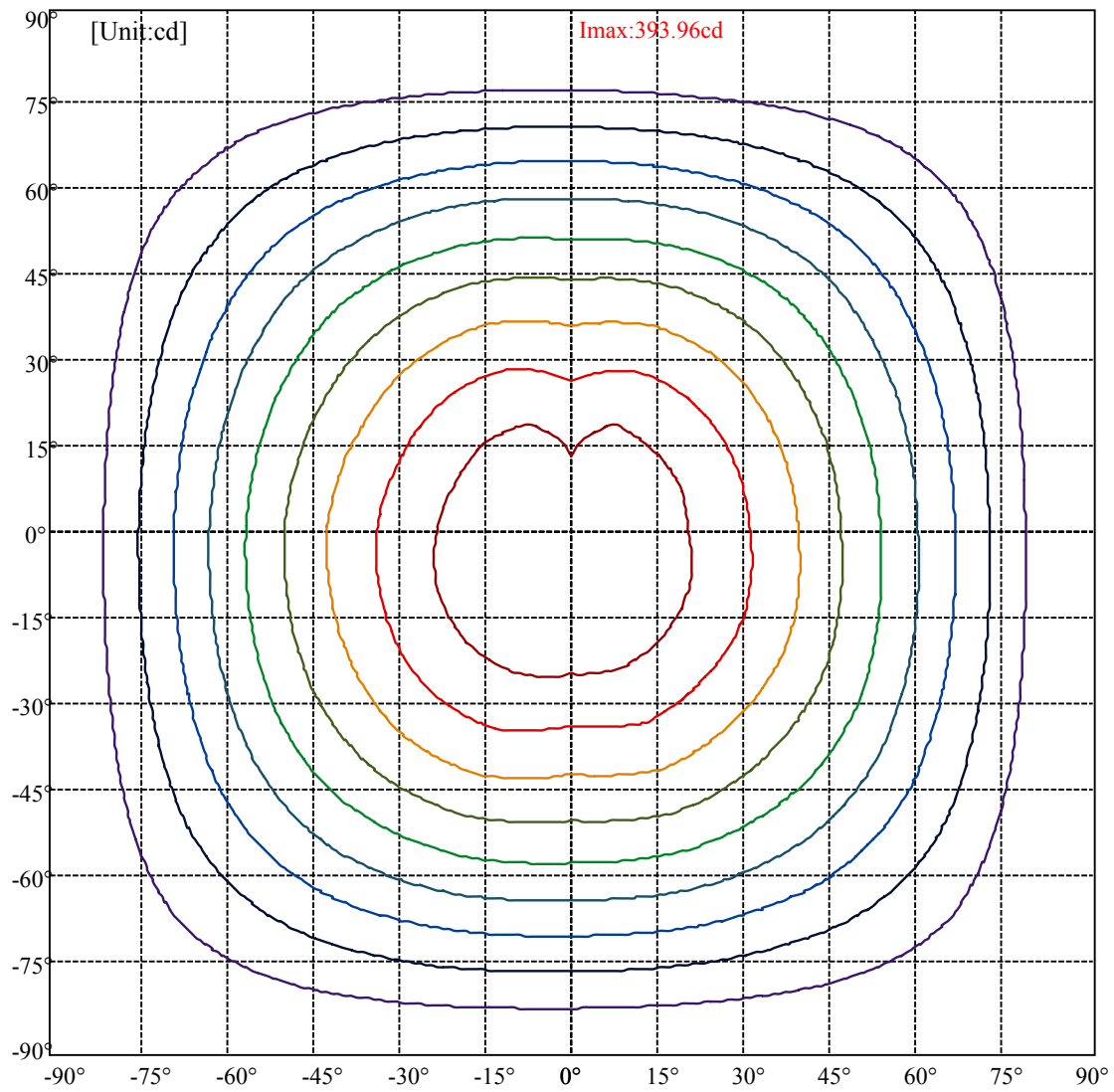
C90/C270: —

Field angle(10%Imax):C0/180Left:80.6 Right:78.3
 :C90/270Left:72.3 Right:86.3

Beam Angle(50%Imax):C0/180Left:56.4 Right:53.6
 :C90/270Left:48.1 Right:61.4



Max , Ave Beam angle of C22.5plane109.71



(10%I _{max}) 39.366	—
(20%I _{max}) 78.7321	—
(30%I _{max}) 118.098	—
(40%I _{max}) 157.464	—
(50%I _{max}) 196.83	—
(60%I _{max}) 236.196	—
(70%I _{max}) 275.562	—
(80%I _{max}) 314.928	—
(90%I _{max}) 354.294	—

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	390.04	386.51	379.65	368.87	354.37	338.10	318.30	296.55	270.87
22.5	393.96	390.04	381.61	369.66	355.15	336.73	316.34	293.02	267.74
45.0	392.78	387.88	380.04	368.48	353.19	335.75	315.56	292.82	267.54
67.5	391.41	387.10	380.24	369.07	354.17	334.96	313.40	289.30	263.82
90.0	372.01	368.09	360.44	350.45	335.94	318.70	298.70	277.54	253.62
112.5	393.18	389.26	381.22	369.26	354.17	335.94	314.97	290.86	265.78
135.0	393.57	390.04	383.57	372.20	358.09	340.26	319.68	296.16	270.09
157.5	392.20	389.65	383.18	373.58	359.66	342.22	322.42	299.88	274.60
180.0	390.04	388.67	384.16	376.32	363.97	348.68	330.06	308.50	286.16
202.5	393.96	393.76	389.45	382.00	369.85	354.37	335.36	313.99	290.47
225.0	392.78	392.59	389.84	382.59	371.62	357.31	340.65	319.87	296.35
247.5	391.41	393.76	391.02	383.18	372.60	358.29	340.26	320.07	297.72
270.0	372.01	379.06	380.83	372.99	364.56	353.19	332.02	307.33	283.22
292.5	393.18	392.00	389.26	381.61	369.26	354.17	336.34	315.17	292.04
315.0	393.57	392.59	387.10	378.67	365.54	349.66	330.46	308.50	285.38
337.5	392.20	390.04	384.55	375.34	362.40	345.16	326.73	305.17	281.65
360.0	390.04	386.51	379.65	368.87	354.37	338.10	318.30	296.55	270.87
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	244.22	216.58	186.40	155.62	125.24	92.12	59.00	28.42	5.49
22.5	240.10	211.68	181.69	150.33	117.80	86.83	53.90	23.91	2.35
45.0	239.51	210.70	180.12	147.59	114.27	80.16	48.80	19.40	0.00
67.5	235.59	205.80	174.44	144.06	111.13	77.42	44.88	16.46	0.00
90.0	227.36	198.35	170.72	141.71	110.54	76.24	45.28	16.66	0.00
112.5	237.55	207.76	177.77	146.80	113.48	80.36	48.02	19.80	0.00
135.0	243.24	214.03	183.85	151.90	119.56	85.65	52.92	23.13	2.35
157.5	247.74	220.89	190.90	160.13	127.01	93.69	59.78	29.20	5.68
180.0	261.07	232.85	203.45	172.48	140.92	107.60	75.85	42.53	14.70
202.5	265.78	239.32	210.70	179.93	146.61	114.27	80.16	47.63	19.21
225.0	272.24	243.43	214.03	183.06	152.10	118.38	83.89	51.74	21.95
247.5	271.07	243.63	214.62	184.63	152.29	118.58	86.04	53.31	23.13
270.0	260.88	235.00	209.33	178.95	148.18	115.84	83.89	52.14	22.15
292.5	266.56	240.69	210.70	179.93	148.96	115.64	82.32	49.98	20.97
315.0	260.88	233.83	205.21	174.83	143.86	110.94	78.01	47.24	18.23
337.5	255.98	227.95	200.12	168.56	136.61	104.08	73.11	41.36	14.31
360.0	244.22	216.58	186.40	155.62	125.24	92.12	59.00	28.42	5.49
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

Equipment: GMS-3000
Temperature(°C): 25Date:
Humidity(%): 58%

Operator: Zac

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