



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

Luminaire:

Report No:

Voltage(V): 120.02

Test No:

Current(A): 0.0416

LampCAT:

Power (W): 4.7650

Lamp flux(lm): 380.9

PF: 0.9554

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 380.94

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 79.95

Central intensity(cd): 1497.300

Maximum intensity(cd): 1497.300

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=22.6

[C90/270]Total=22.3

Field angle(10%Imax): [C0/180]Total=50.6

[C90/270]Total=50.9

Maximum s/h(1/2): C0_180=0.36 C90_270=0.40

Maximum s/h(1/4): C0_180=0.52 C90_270=0.41

Up flux rate of lamp(%): 0.09%

Down flux rate of lamp(%): 99.91%

Up flux rate of LUM(%): 0.09%

Down flux rate of LUM(%): 99.91%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.219%

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

Date:
Humidity(%): 58%

Operator: Zac

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	1436.784	.000	.000	.000%	.000%
5.0	1242.932	32.035	32.035	8.409%	8.409%
10.0	820.429	73.813	105.848	19.376%	27.786%
15.0	460.829	76.003	181.852	19.951%	47.737%
20.0	260.891	59.480	241.331	15.614%	63.351%
25.0	148.920	42.982	284.313	11.283%	74.634%
30.0	81.159	29.117	313.430	7.643%	82.277%
35.0	45.908	18.711	332.141	4.912%	87.189%
40.0	29.048	12.506	344.647	3.283%	90.472%
45.0	20.105	9.101	353.748	2.389%	92.861%
50.0	14.457	6.984	360.732	1.833%	94.694%
55.0	10.472	5.420	366.152	1.423%	96.117%
60.0	7.682	4.196	370.349	1.102%	97.219%
65.0	5.715	3.257	373.605	.855%	98.074%
70.0	4.438	2.571	376.176	.675%	98.748%
75.0	3.396	2.047	378.224	.537%	99.286%
80.0	1.967	1.435	379.659	.377%	99.663%
85.0	.723	.731	380.390	.192%	99.854%
90.0	.050	.212	380.601	.056%	99.910%
95.0	.017	.018	380.620	.005%	99.915%
100.0	.017	.009	380.629	.002%	99.917%
105.0	.017	.009	380.638	.002%	99.920%
110.0	.017	.009	380.647	.002%	99.922%
115.0	.017	.009	380.655	.002%	99.924%
120.0	.067	.020	380.676	.005%	99.930%
125.0	.017	.019	380.695	.005%	99.935%
130.0	.017	.007	380.702	.002%	99.937%
135.0	.050	.014	380.716	.004%	99.940%
140.0	.067	.022	380.738	.006%	99.946%
145.0	.050	.020	380.757	.005%	99.951%
150.0	.084	.020	380.777	.005%	99.956%
155.0	.118	.026	380.803	.007%	99.963%
160.0	.202	.034	380.836	.009%	99.972%
165.0	.269	.039	380.875	.010%	99.982%
170.0	.353	.037	380.912	.010%	99.992%
175.0	.319	.024	380.936	.006%	99.998%
180.0	.336	.008	380.944	.002%	100.000%

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

Date:
Humidity(%): 58%

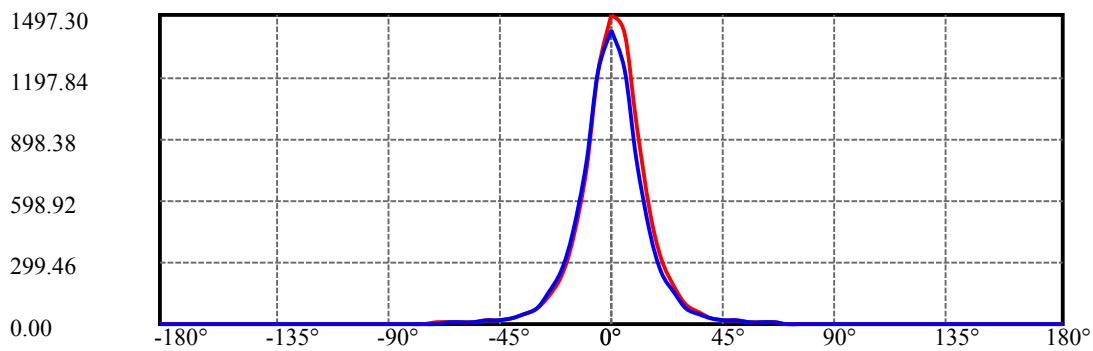
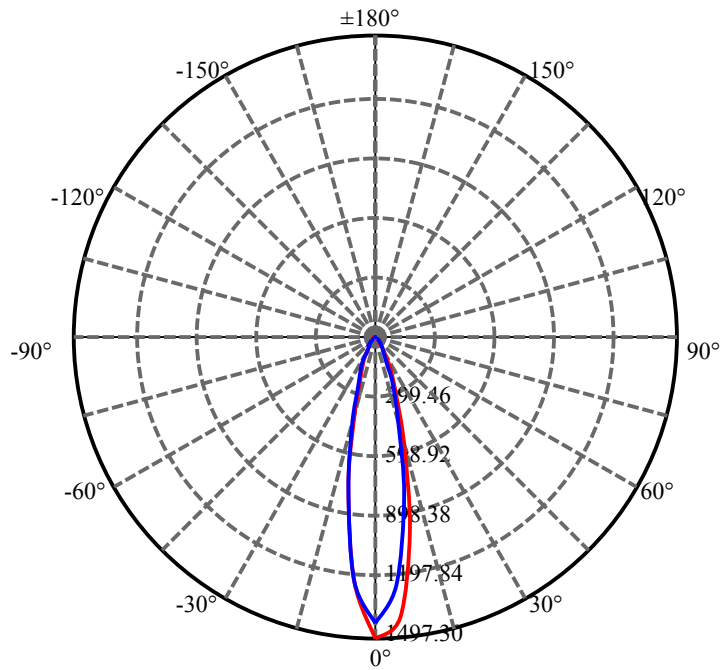
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	313.43	82.28%	82.28%
0-40	344.65	90.47%	90.47%
0-60	370.35	97.22%	97.22%
0-90	380.60	99.91%	99.91%
0-120	380.68	99.93%	99.93%
0-180	380.94	100.00%	100.00%
60-90	14.45	3.79%	3.79%
90-120	0.29	0.08%	0.08%
90-130	0.31	0.08%	0.08%
90-150	0.39	0.10%	0.10%
90-180	0.55	0.14%	0.14%
0-28.51	304.75	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	105.85
10-20	135.48
20-30	72.10
30-40	31.22
40-50	16.08
50-60	9.62
60-70	5.83
70-80	3.48
80-90	0.94
90-100	0.03
100-110	0.02
110-120	0.03
120-130	0.03
130-140	0.04
140-150	0.04
150-160	0.06
160-170	0.08
170-180	0.02

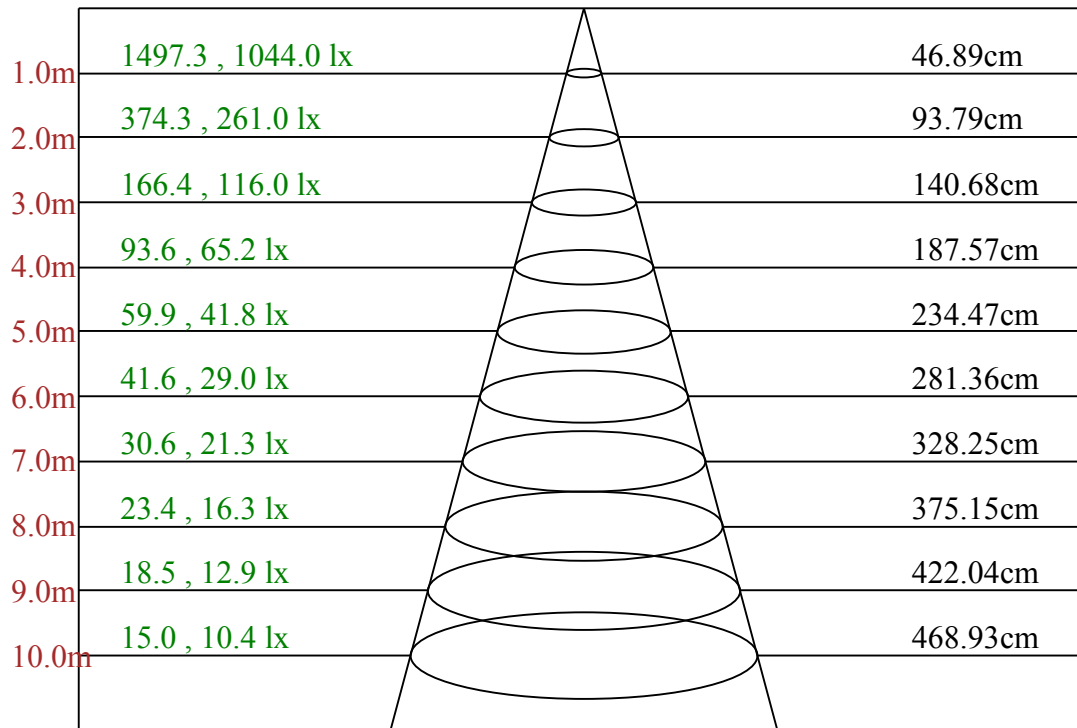


C0/C180: —

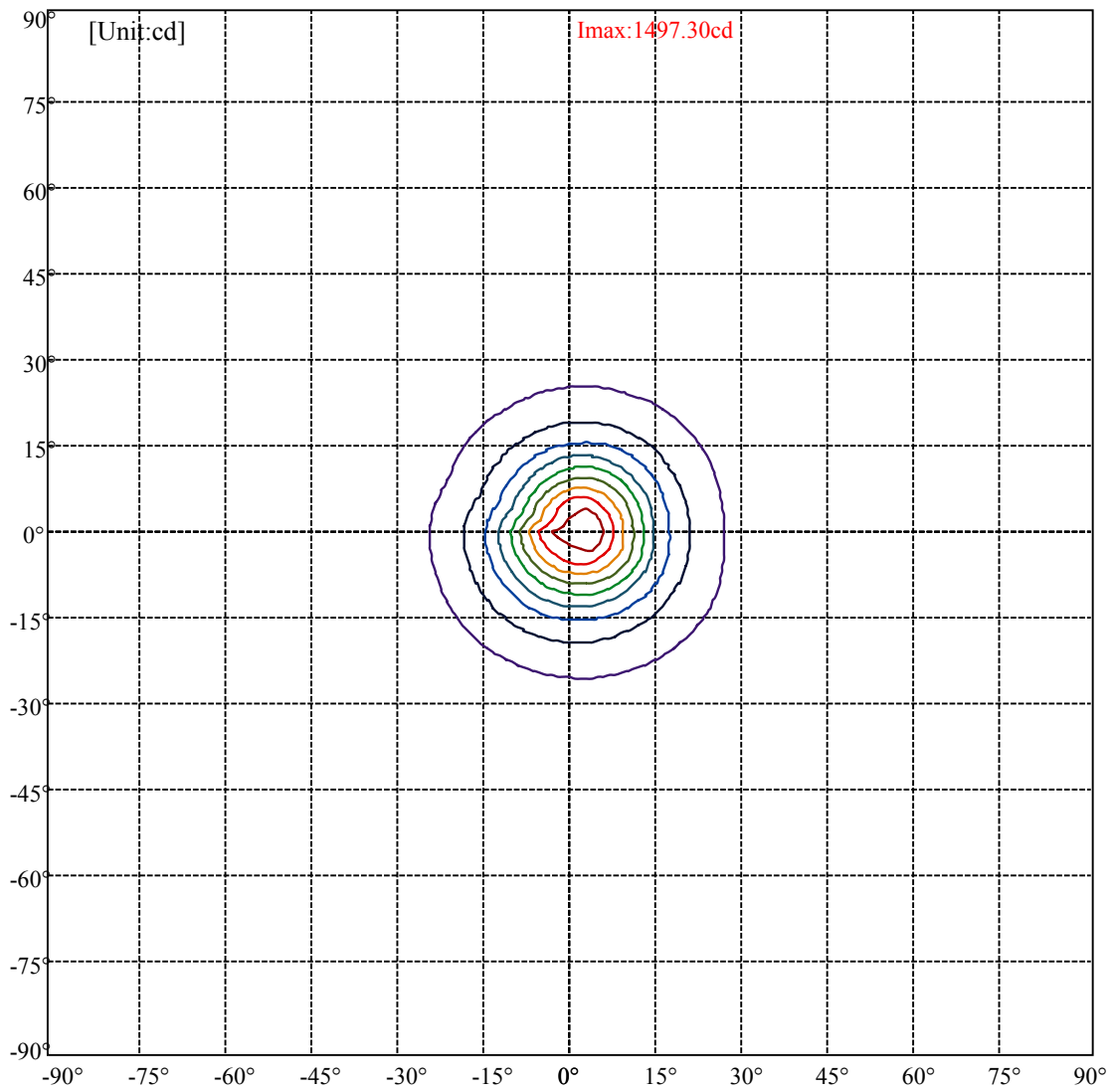
C90/C270: —

Field angle(10%Imax):C0/180Left:24.0 Right:26.6
 :C90/270Left:25.6 Right:25.3

Beam Angle(50%Imax):C0/180Left:10.0 Right:12.7
 :C90/270Left:11.0 Right:11.3



Max , Ave Beam angle of C0plane26.38



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	1497.30	1400.48	977.13	548.41	317.64	174.29	95.21	51.91	31.47
22.5	1461.26	1379.77	972.56	558.09	309.57	179.40	95.48	52.18	31.74
45.0	1444.32	1343.72	943.78	540.61	299.08	169.71	93.33	51.37	31.47
67.5	1430.33	1290.74	887.84	494.35	277.30	157.88	87.14	48.95	30.12
90.0	1418.50	1231.03	801.50	442.44	247.44	146.31	78.54	43.57	27.43
112.5	1413.39	1159.22	723.77	394.03	223.24	127.49	69.39	39.27	26.09
135.0	1412.04	1103.27	658.95	361.21	206.83	115.92	63.48	36.85	24.21
157.5	1417.15	1067.50	623.72	342.12	191.50	108.93	58.63	34.70	23.40
180.0	1497.30	1215.16	745.83	412.05	229.69	130.72	72.35	41.96	27.17
202.5	1461.26	1182.08	731.84	405.05	232.65	128.83	70.20	43.57	27.43
225.0	1444.32	1155.99	733.19	416.35	235.88	131.79	71.81	41.69	28.24
247.5	1430.33	1172.40	751.47	431.41	246.64	137.17	76.12	44.38	28.78
270.0	1418.50	1215.97	776.76	448.63	261.70	149.81	78.54	46.53	29.86
292.5	1413.39	1267.34	857.98	477.94	277.84	161.38	87.95	49.22	31.20
315.0	1412.04	1325.44	935.71	525.01	298.01	174.56	96.29	52.45	32.28
337.5	1417.15	1376.81	1004.84	575.57	319.26	188.54	104.09	55.94	33.89
360.0	1497.30	1400.48	977.13	548.41	317.64	174.29	95.21	51.91	31.47
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	21.25	14.26	10.76	7.53	5.38	4.03	3.23	1.88	0.81
22.5	21.25	14.79	10.49	7.80	5.38	4.03	3.23	1.88	0.81
45.0	21.25	15.60	11.03	7.80	5.65	4.03	3.23	1.35	0.81
67.5	20.44	14.79	10.49	7.80	5.92	4.57	3.50	1.88	0.81
90.0	19.37	14.26	10.49	7.80	5.92	3.77	3.23	1.61	0.54
112.5	18.29	13.18	9.41	6.99	5.65	4.57	3.23	1.88	0.54
135.0	16.68	12.37	9.15	6.99	5.11	4.03	3.23	1.88	0.81
157.5	16.94	12.64	8.61	6.72	5.11	4.30	3.23	1.61	0.54
180.0	19.37	13.99	10.22	7.53	5.92	5.11	3.77	2.15	0.54
202.5	19.37	13.99	10.49	7.80	5.92	4.84	3.50	1.88	0.54
225.0	20.17	14.26	10.49	7.80	6.19	4.84	3.50	2.42	0.54
247.5	20.17	14.52	10.49	7.80	5.65	4.57	3.50	1.88	0.54
270.0	20.71	14.79	10.76	7.80	5.65	4.57	3.50	2.42	0.81
292.5	21.52	15.60	11.57	8.07	5.65	4.57	3.77	2.42	0.81
315.0	22.06	16.14	11.57	8.34	6.19	4.57	3.50	2.15	1.08
337.5	22.86	16.14	11.57	8.34	6.19	4.57	3.23	2.15	1.08
360.0	21.25	14.26	10.76	7.53	5.38	4.03	3.23	1.88	0.81
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	0.27	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	0.27
112.5	0.54	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.00
157.5	0.00	0.00	0.27	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	0.27	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.27	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	0.27	0.00	0.00
315.0	0.00	0.27	0.00	0.00	0.27	0.00	0.00	0.00	0.00
337.5	0.27	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	0.00	0.00	0.00	0.27	0.00	0.27
22.5	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.54	0.27
45.0	0.27	0.00	0.00	0.00	0.00	0.27	0.27	0.54	0.27
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27
90.0	0.00	0.00	0.00	0.27	0.00	0.81	0.54	0.00	0.54
112.5	0.27	0.54	0.00	0.00	0.00	0.27	0.54	0.54	0.27
135.0	0.27	0.27	0.00	0.27	0.27	0.27	0.27	0.27	0.54
157.5	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.54	0.27
180.0	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.27
202.5	0.00	0.00	0.27	0.00	0.54	0.00	0.27	0.27	0.27
225.0	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.27
247.5	0.00	0.00	0.00	0.00	0.27	0.00	0.27	0.54	0.27
270.0	0.00	0.27	0.27	0.00	0.27	0.00	0.27	0.27	0.54
292.5	0.00	0.00	0.00	0.27	0.27	0.27	0.27	0.54	0.27
315.0	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.54	0.27
337.5	0.00	0.00	0.00	0.27	0.00	0.27	0.27	0.27	0.27
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.27
C/γ(°)	180.0								
0.0	0.27								
22.5	0.27								
45.0	0.27								
67.5	0.27								
90.0	0.27								
112.5	0.27								
135.0	0.54								
157.5	0.54								
180.0	0.27								
202.5	0.27								
225.0	0.27								
247.5	0.27								
270.0	0.27								
292.5	0.27								
315.0	0.54								
337.5	0.54								
360.0	0.27								