



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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LumCAT:

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 879.1

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.07

Current(A): 0.1381

Power (W): 15.2050

PF: 0.9171

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 879.14

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 57.82

Central intensity(cd): 304.434

Maximum intensity(cd): 304.643

Angle of maximum intensity: C=180.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=114.7

[C90/270]Total=115.0

Field angle(10%Imax): [C0/180]Total=162.0

[C90/270]Total=161.6

Maximum s/h(1/2): C0_180=1.32 C90_270=1.30

Maximum s/h(1/4): C0_180=1.88 C90_270=1.41

Up flux rate of lamp(%): 0.67%

Down flux rate of lamp(%): 99.33%

Up flux rate of LUM(%): 0.67%

Down flux rate of LUM(%): 99.33%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 78.522%

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	296.656	.000	.000	.000%	.000%
5.0	295.612	7.080	7.080	.805%	.805%
10.0	292.715	21.046	28.127	2.394%	3.199%
15.0	287.834	34.438	62.565	3.917%	7.117%
20.0	280.865	46.869	109.433	5.331%	12.448%
25.0	271.182	57.900	167.333	6.586%	19.034%
30.0	259.176	67.117	234.450	7.634%	26.668%
35.0	244.273	74.136	308.587	8.433%	35.101%
40.0	227.282	78.675	387.262	8.949%	44.050%
45.0	207.472	80.498	467.760	9.156%	53.207%
50.0	184.608	79.225	546.985	9.012%	62.218%
55.0	160.543	75.047	622.033	8.536%	70.755%
60.0	134.886	68.288	690.320	7.768%	78.522%
65.0	108.343	59.129	749.450	6.726%	85.248%
70.0	81.511	48.072	797.522	5.468%	90.716%
75.0	56.011	35.946	833.468	4.089%	94.805%
80.0	32.599	23.710	857.178	2.697%	97.502%
85.0	12.868	12.354	869.532	1.405%	98.907%
90.0	.679	3.709	873.241	.422%	99.329%
95.0	.653	.364	873.606	.041%	99.370%
100.0	.705	.369	873.975	.042%	99.412%
105.0	.757	.391	874.366	.044%	99.457%
110.0	.809	.409	874.775	.047%	99.503%
115.0	.861	.423	875.198	.048%	99.552%
120.0	.913	.431	875.629	.049%	99.601%
125.0	.913	.422	876.051	.048%	99.649%
130.0	.966	.409	876.460	.046%	99.695%
135.0	1.096	.417	876.877	.047%	99.743%
140.0	1.175	.420	877.297	.048%	99.790%
145.0	1.227	.401	877.698	.046%	99.836%
150.0	1.227	.361	878.059	.041%	99.877%
155.0	1.331	.324	878.383	.037%	99.914%
160.0	1.305	.277	878.659	.031%	99.945%
165.0	1.253	.211	878.870	.024%	99.969%
170.0	1.253	.149	879.019	.017%	99.986%
175.0	1.305	.092	879.110	.010%	99.997%
180.0	1.201	.030	879.140	.003%	100.000%

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

Date:
Humidity(%): 58%

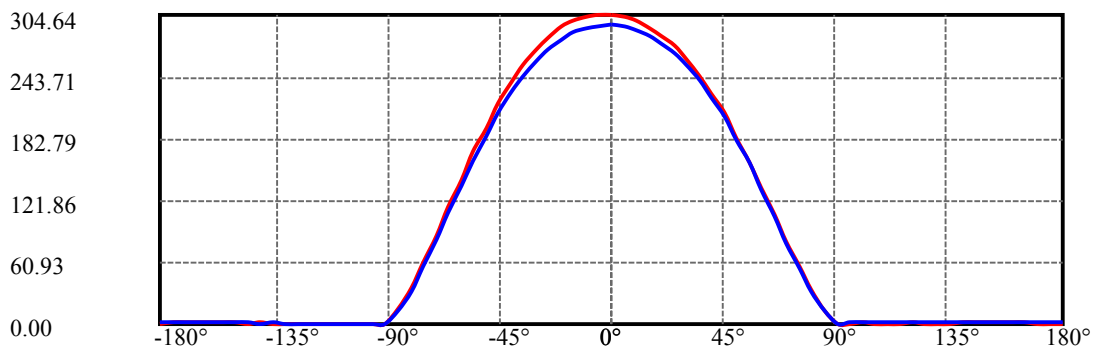
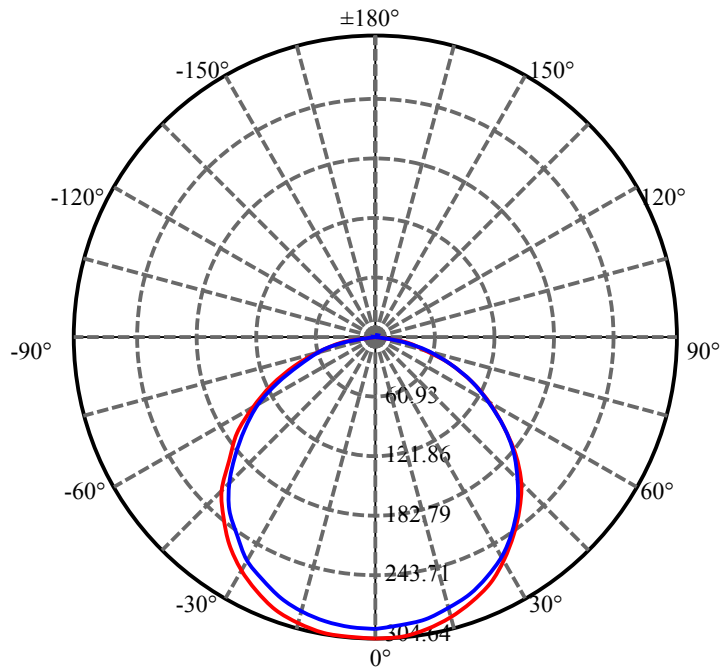
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	234.45	26.67%	26.67%
0-40	387.26	44.05%	44.05%
0-60	690.32	78.52%	78.52%
0-90	873.24	99.33%	99.33%
0-120	875.63	99.60%	99.60%
0-180	879.14	100.00%	100.00%
60-90	251.21	28.57%	28.57%
90-120	6.10	0.69%	0.69%
90-130	6.93	0.79%	0.79%
90-150	8.53	0.97%	0.97%
90-180	9.58	1.09%	1.09%
0-61.10	703.31	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	28.13
10-20	81.31
20-30	125.02
30-40	152.81
40-50	159.72
50-60	143.34
60-70	107.20
70-80	59.66
80-90	16.06
90-100	0.73
100-110	0.80
110-120	0.85
120-130	0.83
130-140	0.84
140-150	0.76
150-160	0.60
160-170	0.36
170-180	0.09

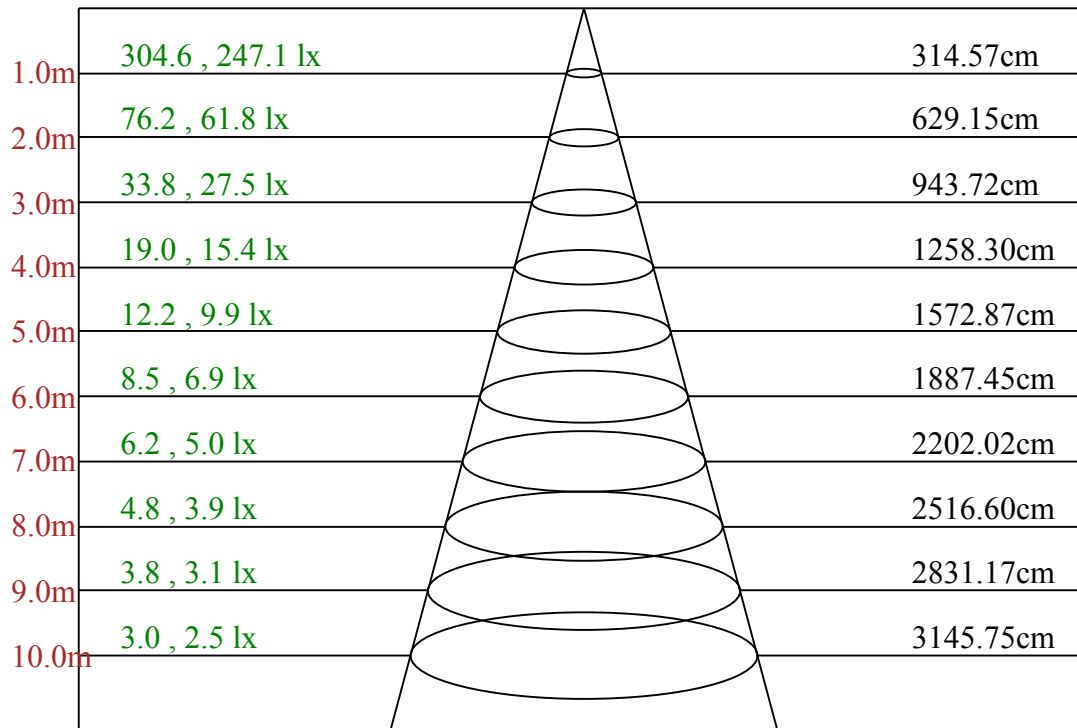


C0/C180: —

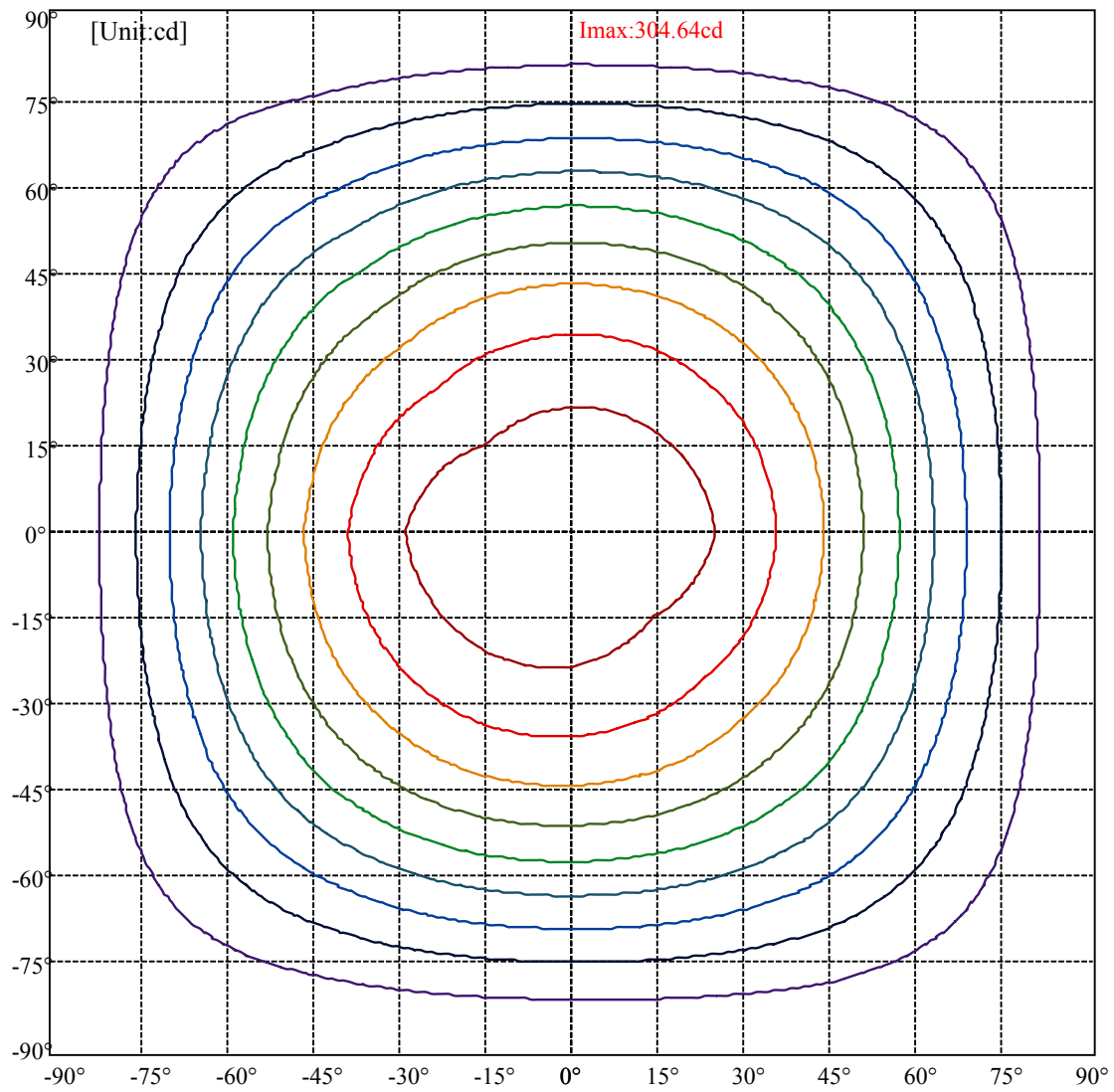
C90/C270: —

Field angle(10%Imax):C0/180Left:76.3 Right:85.7
:C90/270Left:80.9 Right:80.7

Beam Angle(50%Imax):C0/180Left:53.2 Right:61.5
:C90/270Left:57.9 Right:57.2



Max , Ave Beam angle of C180plane115.06



(10%Imax) 30.4643	—
(20%Imax) 60.9286	—
(30%Imax) 91.3929	—
(40%Imax) 121.857	—
(50%Imax) 152.322	—
(60%Imax) 182.786	—
(70%Imax) 213.25	—
(80%Imax) 243.714	—
(90%Imax) 274.179	—

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	304.43	302.97	298.59	292.32	284.18	273.74	261.00	244.93	227.39
45.0	297.34	295.25	291.91	286.27	278.75	268.73	256.41	241.17	223.84
90.0	294.41	292.74	289.61	284.18	276.66	267.48	255.57	240.96	223.63
135.0	290.44	289.40	286.69	281.68	275.62	265.81	253.49	238.24	221.96
180.0	304.43	304.64	303.18	298.80	292.53	282.72	270.82	255.57	238.45
225.0	297.34	297.34	294.83	291.28	284.60	275.20	263.09	249.31	231.56
270.0	294.41	293.58	291.07	286.90	280.21	270.82	259.54	244.72	228.22
315.0	290.44	288.98	285.85	281.26	274.37	264.97	253.49	239.29	223.21
360.0	304.43	302.97	298.59	292.32	284.18	273.74	261.00	244.93	227.39

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	207.76	184.37	159.73	134.89	108.37	80.60	56.59	33.41	13.36
45.0	204.84	182.70	158.48	133.01	107.33	80.81	55.54	31.95	13.36
90.0	204.42	182.08	158.06	133.01	106.49	79.55	55.12	32.36	12.74
135.0	201.08	176.86	152.64	126.53	100.85	74.33	49.70	27.56	9.81
180.0	218.20	193.77	169.97	142.82	115.05	87.28	60.55	35.91	14.20
225.0	211.10	188.55	163.91	136.77	109.20	82.06	55.54	31.53	11.07
270.0	208.18	185.83	161.61	136.35	109.83	82.90	56.17	32.78	13.16
315.0	204.21	182.70	159.94	135.72	109.62	84.57	58.88	35.29	15.24
360.0	207.76	184.37	159.73	134.89	108.37	80.60	56.59	33.41	13.36

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.63	0.84	1.04	0.63	0.84	0.63	1.04	0.84	0.84
45.0	0.84	0.84	1.04	1.04	1.04	1.04	1.25	1.04	1.04
90.0	0.84	1.04	1.04	1.04	1.04	1.04	1.04	1.25	1.25
135.0	1.04	1.04	1.04	0.84	0.84	1.25	1.04	1.25	1.04
180.0	0.21	0.00	0.42	0.21	0.84	0.84	0.63	0.63	0.63
225.0	0.42	0.42	0.42	0.63	0.42	0.84	0.63	0.63	1.04
270.0	0.63	0.42	0.21	0.84	0.63	0.63	0.84	0.84	0.84
315.0	0.84	0.63	0.42	0.84	0.84	0.63	0.84	0.84	1.04
360.0	0.63	0.84	1.04	0.63	0.84	0.63	1.04	0.84	0.84

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.84	1.04	1.04	1.04	1.04	1.25	1.25	0.84	0.84
45.0	1.25	1.46	1.46	1.46	1.46	1.25	1.25	1.25	1.25
90.0	1.46	1.46	1.46	1.46	1.67	1.46	1.25	1.46	1.46
135.0	1.67	1.46	1.46	1.46	1.46	1.67	1.46	1.25	1.25
180.0	0.63	1.04	0.84	1.04	1.04	1.25	1.04	1.25	1.46
225.0	0.84	1.04	1.04	1.04	1.25	1.04	1.25	1.25	1.25
270.0	1.04	0.84	1.46	1.04	1.25	1.25	1.04	1.46	1.46
315.0	1.04	1.04	1.04	1.25	1.46	1.25	1.46	1.25	1.46
360.0	0.84	1.04	1.04	1.04	1.04	1.25	1.25	0.84	0.84

C/γ(°)	180.0
0.0	0.84
45.0	1.25
90.0	1.46
135.0	1.25
180.0	0.84
225.0	1.25
270.0	1.46
315.0	1.25
360.0	0.84