Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
www.bellingtest.com

Tel:0755-29351191 Fax:0755-29351120
Address:1 F,No.1 building,Meibaohe industrial park,Dalang street,Longhua district,Shenzhen,China

LumCAT:
Luminaire:
Report No:
Test No:
LampCAT:
Lamp flux(lm): 583.5
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 120.02
Current(A): 0.0612
Power (W): 7.2940
PF: 0.994
Ballast type:
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 583.50
Efficiency(%): 100.00%
Lumens(lm)/Power(W): 80.00
Central intensity(cd): 953.383
Maximum intensity(cd): 959.786
Angle of maximum intensity: C=112.5 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=45.3
[C90/270]Total=44.4
Field angle(10%Imax): [C0/180]Total=69.5
[C90/270]Total=70.8
Maximum s/h(1/2): C0_180=0.74 C90_270=0.64
Maximum s/h(1/4): C0_180=1.06 C90_270=0.64
Up flux rate of lamp(%): 0.11%
Down flux rate of lamp(%): 99.89%
Up flux rate of LUM(%): 0.11%
Down flux rate of LUM(%): 99.89%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.156%

Zonal flux distribution table

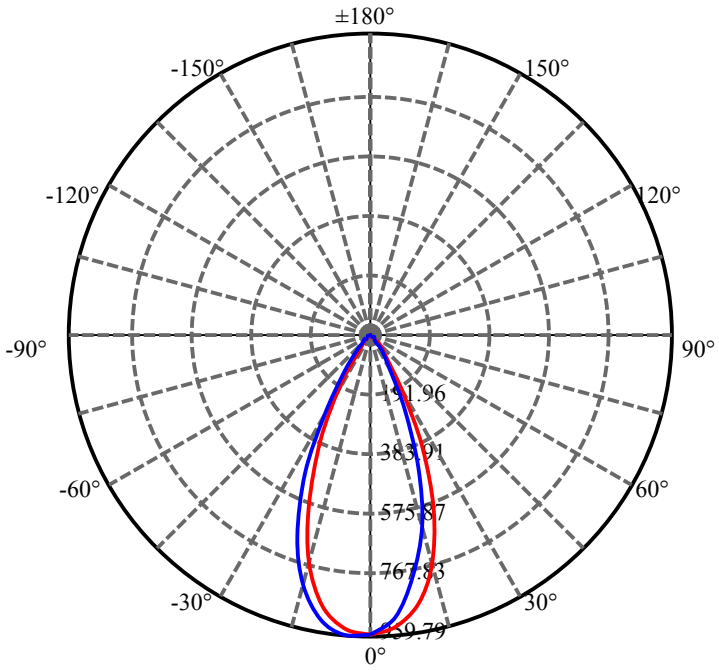
γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	952.998	.000	.000	.000%	.000%
5.0	931.238	22.526	22.526	3.860%	3.860%
10.0	859.557	64.062	86.588	10.979%	14.839%
15.0	738.457	94.793	181.381	16.246%	31.085%
20.0	570.518	107.878	289.259	18.488%	49.573%
25.0	376.981	99.375	388.634	17.031%	66.604%
30.0	207.545	73.972	462.606	12.677%	79.281%
35.0	95.516	44.628	507.234	7.648%	86.930%
40.0	44.942	23.434	530.668	4.016%	90.946%
45.0	27.081	13.336	544.004	2.285%	93.231%
50.0	19.106	9.333	553.337	1.599%	94.831%
55.0	14.911	7.397	560.733	1.268%	96.098%
60.0	11.769	6.167	566.901	1.057%	97.155%
65.0	9.012	5.052	571.953	.866%	98.021%
70.0	6.685	3.975	575.927	.681%	98.702%
75.0	4.669	2.968	578.895	.509%	99.211%
80.0	3.143	2.090	580.985	.358%	99.569%
85.0	1.764	1.333	582.318	.228%	99.797%
90.0	.296	.564	582.882	.097%	99.894%
95.0	.015	.085	582.968	.015%	99.909%
100.0	.030	.012	582.980	.002%	99.911%
105.0	.044	.020	583.000	.003%	99.914%
110.0	.030	.019	583.019	.003%	99.918%
115.0	.000	.008	583.026	.001%	99.919%
120.0	.000	.000	583.026	.000%	99.919%
125.0	.015	.003	583.030	.001%	99.919%
130.0	.030	.010	583.039	.002%	99.921%
135.0	.044	.015	583.054	.003%	99.924%
140.0	.089	.025	583.079	.004%	99.928%
145.0	.148	.040	583.119	.007%	99.935%
150.0	.237	.057	583.175	.010%	99.944%
155.0	.341	.073	583.248	.013%	99.957%
160.0	.370	.075	583.323	.013%	99.970%
165.0	.459	.068	583.391	.012%	99.981%
170.0	.504	.057	583.449	.010%	99.991%
175.0	.504	.036	583.485	.006%	99.997%
180.0	.563	.013	583.497	.002%	100.000%

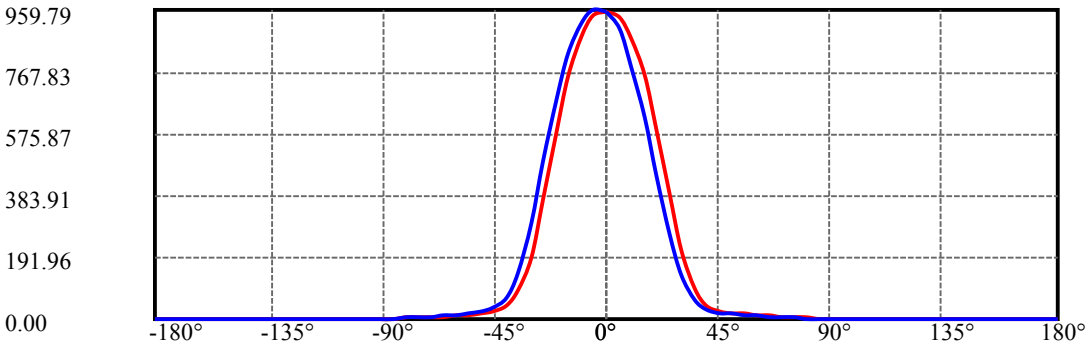
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	462.61	79.28%	79.28%
0-40	530.67	90.95%	90.95%
0-60	566.90	97.16%	97.16%
0-90	582.88	99.89%	99.89%
0-120	583.03	99.92%	99.92%
0-180	583.50	100.00%	100.00%
60-90	22.15	3.80%	3.80%
90-120	0.71	0.12%	0.12%
90-130	0.72	0.12%	0.12%
90-150	0.86	0.15%	0.15%
90-180	1.17	0.20%	0.20%
0-30.47	466.80	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	86.59
10-20	202.67
20-30	173.35
30-40	68.06
40-50	22.67
50-60	13.56
60-70	9.03
70-80	5.06
80-90	1.90
90-100	0.10
100-110	0.04
110-120	0.01
120-130	0.01
130-140	0.04
140-150	0.10
150-160	0.15
160-170	0.13
170-180	0.04



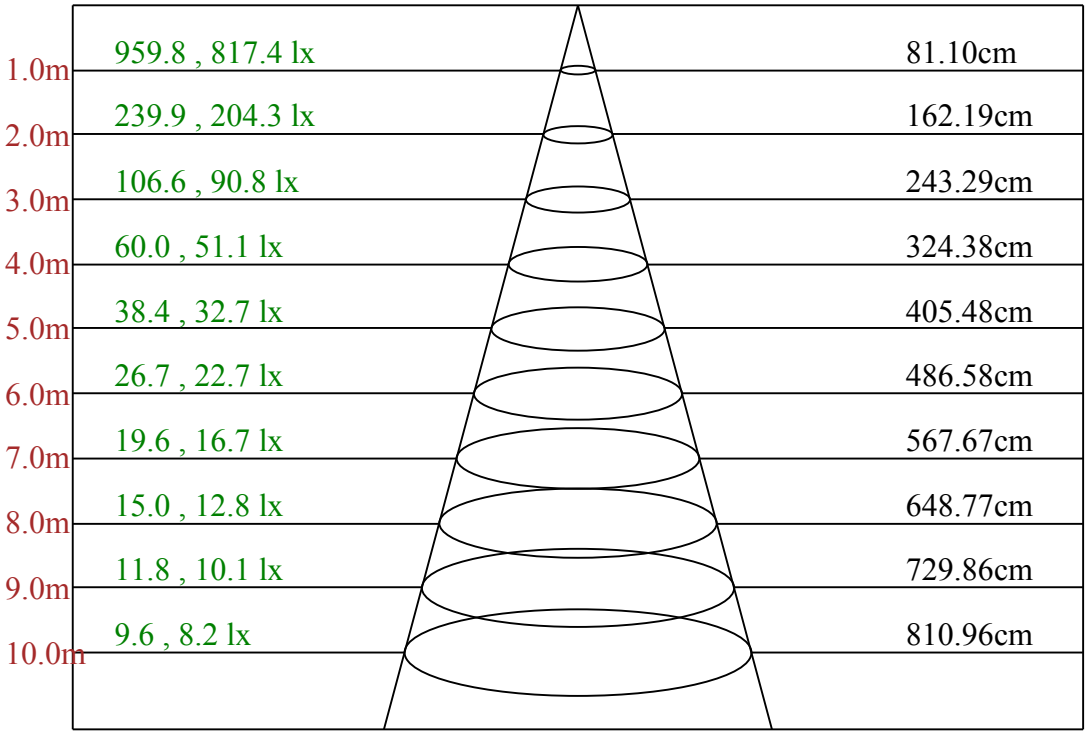


C0/C180:

C90/C270:

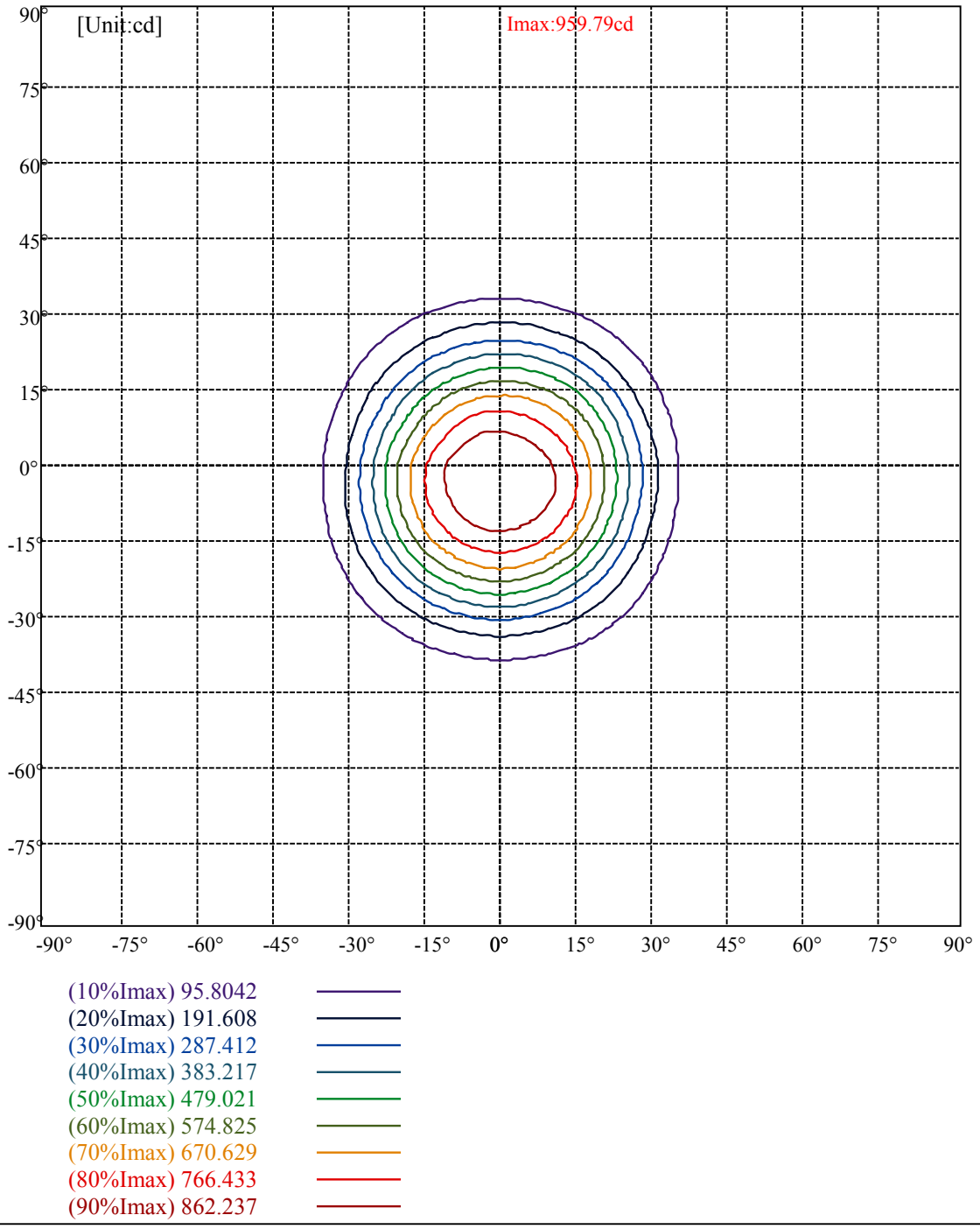
Field angle(10%Imax):C0/180Left:34.6 Right:34.9
:C90/270Left:33.1 Right:37.7

Beam Angle(50%Imax):C0/180Left:22.4 Right:22.8
:C90/270Left:20.3 Right:24.1



Max , Ave

Beam angle of C112.5plane44.02


[Unit:cd]
Imax:959.79cd
90°
75°
60°
45°
30°
15°
0°
-15°
-30°
-45°
-60°
-75°
-90°
-90° -75° -60° -45° -30° -15° 0° 15° 30° 45° 60° 75° 90°
(10%Imax) 95.8042
(20%Imax) 191.608
(30%Imax) 287.412
(40%Imax) 383.217
(50%Imax) 479.021
(60%Imax) 574.825
(70%Imax) 670.629
(80%Imax) 766.433
(90%Imax) 862.237

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	953.38	932.99	867.77	756.78	590.05	389.89	213.21	93.44	43.40
22.5	948.17	917.81	838.12	715.51	545.94	347.68	179.06	78.26	38.18
45.0	944.61	904.05	807.29	673.53	498.27	306.65	154.15	67.35	33.91
67.5	948.88	899.07	788.79	642.94	464.12	282.46	140.16	60.48	31.31
90.0	955.76	901.21	783.81	627.29	447.52	264.91	138.50	59.05	30.83
112.5	959.79	907.61	796.38	630.37	444.44	271.55	135.66	62.14	31.78
135.0	957.65	915.68	814.17	654.56	464.12	284.59	145.38	63.80	32.25
157.5	955.76	925.16	835.52	691.08	503.25	312.10	161.51	70.20	34.15
180.0	953.38	940.58	876.78	749.90	576.54	370.21	191.63	87.04	41.03
202.5	948.17	940.58	892.67	784.05	621.12	418.83	233.60	105.06	48.38
225.0	944.61	945.79	905.71	808.95	655.27	459.14	266.81	124.51	55.97
247.5	948.88	952.43	914.73	822.95	674.72	482.15	287.91	138.98	61.90
270.0	955.76	957.89	916.86	824.13	680.41	489.02	295.74	145.85	65.22
292.5	959.79	957.18	908.32	819.63	674.48	476.22	284.12	141.11	65.46
315.0	957.65	952.67	905.48	815.36	657.41	451.79	263.49	126.41	57.16
337.5	955.76	949.11	900.50	798.28	630.61	424.52	229.81	104.59	48.14
360.0	953.38	932.99	867.77	756.78	590.05	389.89	213.21	93.44	43.40

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	26.80	19.21	14.94	12.10	9.01	6.64	4.98	3.08	1.90
22.5	24.67	18.26	14.47	11.15	8.30	6.40	3.80	2.85	1.42
45.0	23.01	16.84	13.04	9.96	7.83	5.46	3.80	2.61	1.19
67.5	21.11	15.65	12.33	9.72	7.35	5.46	3.56	2.37	1.19
90.0	20.16	15.42	12.33	9.72	7.12	5.46	3.56	2.37	1.19
112.5	20.87	15.89	12.57	10.44	7.83	5.69	3.80	2.37	0.71
135.0	21.34	15.89	12.33	9.49	7.59	5.22	3.80	2.61	0.95
157.5	22.06	15.89	12.57	9.96	7.83	5.93	4.03	2.85	1.19
180.0	25.85	18.26	14.23	11.15	8.54	6.40	4.51	3.08	1.66
202.5	28.70	20.40	15.42	11.86	8.78	6.88	4.74	3.08	1.90
225.0	32.02	22.06	17.08	12.81	9.72	7.35	5.22	3.32	2.13
247.5	33.68	23.01	17.31	13.76	10.44	7.83	5.69	3.80	2.61
270.0	35.57	23.24	17.79	14.47	11.15	8.54	5.93	4.03	2.13
292.5	36.29	23.24	18.26	14.70	11.86	8.54	6.17	4.03	2.61
315.0	32.49	22.06	17.31	13.99	10.91	8.06	5.93	4.03	2.85
337.5	28.70	20.40	16.60	13.04	9.96	7.12	5.22	3.80	2.61
360.0	26.80	19.21	14.94	12.10	9.01	6.64	4.98	3.08	1.90

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	0.24
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	0.24	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	0.24
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.24	0.00	0.00	0.24	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	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.71	0.00	0.24	0.24	0.00	0.00	0.00	0.00	0.00
292.5	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.95	0.24	0.00	0.00	0.24	0.00	0.00	0.24	0.00
337.5	0.24	0.00	0.24	0.00	0.24	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	0.24

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	0.24	0.47	0.00	0.24	0.24	0.47	0.47	0.71
22.5	0.00	0.00	0.24	0.24	0.24	0.47	0.47	0.47	0.71
45.0	0.00	0.00	0.24	0.24	0.47	0.47	0.47	0.47	0.47
67.5	0.00	0.00	0.24	0.24	0.47	0.47	0.47	0.47	0.47
90.0	0.00	0.00	0.00	0.24	0.47	0.47	0.47	0.47	0.47
112.5	0.00	0.00	0.24	0.24	0.47	0.24	0.47	0.47	0.47
135.0	0.00	0.24	0.24	0.47	0.47	0.47	0.47	0.71	0.47
157.5	0.24	0.47	0.24	0.47	0.24	0.24	0.24	0.47	0.47
180.0	0.00	0.00	0.00	0.24	0.24	0.47	0.71	0.47	0.47
202.5	0.00	0.00	0.00	0.00	0.24	0.47	0.47	0.71	0.47
225.0	0.00	0.00	0.24	0.24	0.24	0.47	0.47	0.47	0.47
247.5	0.00	0.00	0.00	0.24	0.24	0.47	0.47	0.47	0.47
270.0	0.24	0.00	0.00	0.47	0.24	0.24	0.47	0.47	0.47
292.5	0.24	0.24	0.24	0.24	0.24	0.24	0.47	0.47	0.47
315.0	0.00	0.00	0.00	0.24	0.47	0.24	0.47	0.47	0.47
337.5	0.00	0.24	0.00	0.00	0.47	0.24	0.24	0.47	0.47
360.0	0.00	0.24	0.47	0.00	0.24	0.24	0.47	0.47	0.71

C/γ(°)	180.0
0.0	0.47
22.5	0.47
45.0	0.71
67.5	0.47
90.0	0.95
112.5	0.47
135.0	0.47
157.5	0.47
180.0	0.47
202.5	0.47
225.0	0.71
247.5	0.47
270.0	0.95
292.5	0.47
315.0	0.47
337.5	0.47
360.0	0.47