



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

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LumCAT:

Luminaire:

Report No:

Voltage(V): 120.04

Test No:

Current(A): 0.0711

LampCAT:

Power (W): 7.6400

Lamp flux(lm): 436.8

PF: 0.8955

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 436.80

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 57.17

Central intensity(cd): 165.175

Maximum intensity(cd): 165.175

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=109.1

[C90/270]Total=108.5

Field angle(10%Imax): [C0/180]Total=157.4

[C90/270]Total=156.6

Maximum s/h(1/2): C0_180=1.26 C90_270=1.24

Maximum s/h(1/4): C0_180=1.80 C90_270=1.36

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 : 80.791%

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

Date:
Humidity(%): 58%

Operator: Zac

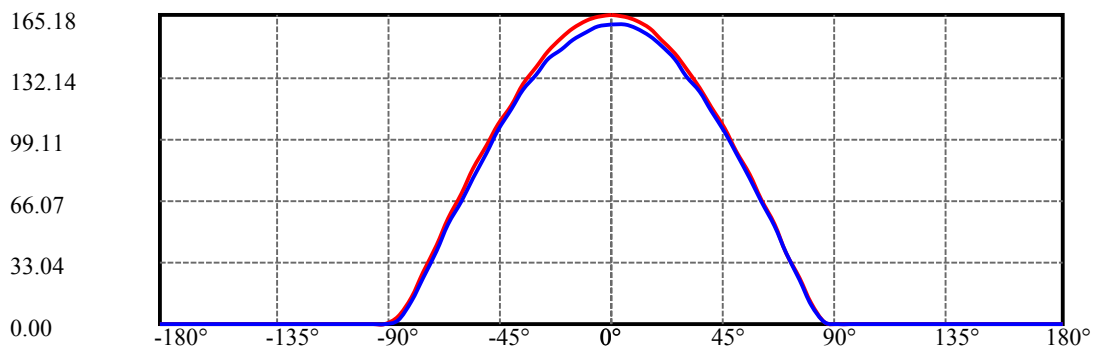
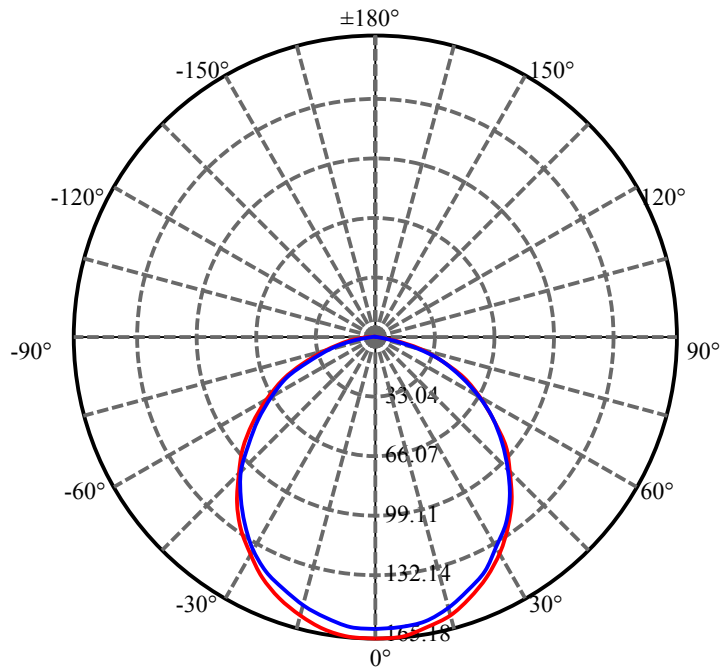
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	162.428	.000	.000	.000%	.000%
5.0	161.609	3.874	3.874	.887%	.887%
10.0	159.056	11.471	15.345	2.626%	3.513%
15.0	154.935	18.626	33.971	4.264%	7.777%
20.0	149.247	25.069	59.040	5.739%	13.517%
25.0	142.322	30.580	89.620	7.001%	20.518%
30.0	134.094	34.981	124.600	8.008%	28.526%
35.0	124.756	38.117	162.718	8.727%	37.253%
40.0	114.404	39.902	202.620	9.135%	46.388%
45.0	103.346	40.318	242.938	9.230%	55.618%
50.0	91.399	39.351	282.289	9.009%	64.627%
55.0	79.022	37.055	319.344	8.483%	73.111%
60.0	66.117	33.549	352.893	7.681%	80.791%
65.0	52.866	28.925	381.818	6.622%	87.413%
70.0	39.157	23.301	405.119	5.334%	92.748%
75.0	25.573	16.919	422.038	3.874%	96.621%
80.0	12.530	10.195	432.234	2.334%	98.955%
85.0	2.123	3.982	436.215	.912%	99.867%
90.0	.000	.581	436.796	.133%	100.000%
95.0	.000	.000	436.796	.000%	100.000%
100.0	.000	.000	436.796	.000%	100.000%
105.0	.000	.000	436.796	.000%	100.000%
110.0	.000	.000	436.796	.000%	100.000%
115.0	.000	.000	436.796	.000%	100.000%
120.0	.000	.000	436.796	.000%	100.000%
125.0	.000	.000	436.796	.000%	100.000%
130.0	.000	.000	436.796	.000%	100.000%
135.0	.000	.000	436.796	.000%	100.000%
140.0	.000	.000	436.796	.000%	100.000%
145.0	.000	.000	436.796	.000%	100.000%
150.0	.000	.000	436.796	.000%	100.000%
155.0	.000	.000	436.796	.000%	100.000%
160.0	.000	.000	436.796	.000%	100.000%
165.0	.000	.000	436.796	.000%	100.000%
170.0	.000	.000	436.796	.000%	100.000%
175.0	.000	.000	436.796	.000%	100.000%
180.0	.000	.000	436.796	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	124.60	28.53%	28.53%
0-40	202.62	46.39%	46.39%
0-60	352.89	80.79%	80.79%
0-90	436.80	100.00%	100.00%
0-120	436.80	100.00%	100.00%
0-180	436.80	100.00%	100.00%
60-90	117.45	26.89%	26.89%
90-120	0.58	0.13%	0.13%
90-130	0.58	0.13%	0.13%
90-150	0.58	0.13%	0.13%
90-180	0.58	0.13%	0.13%
0-59.48	349.44	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	15.34
10-20	43.69
20-30	65.56
30-40	78.02
40-50	79.67
50-60	70.60
60-70	52.23
70-80	27.11
80-90	4.56
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

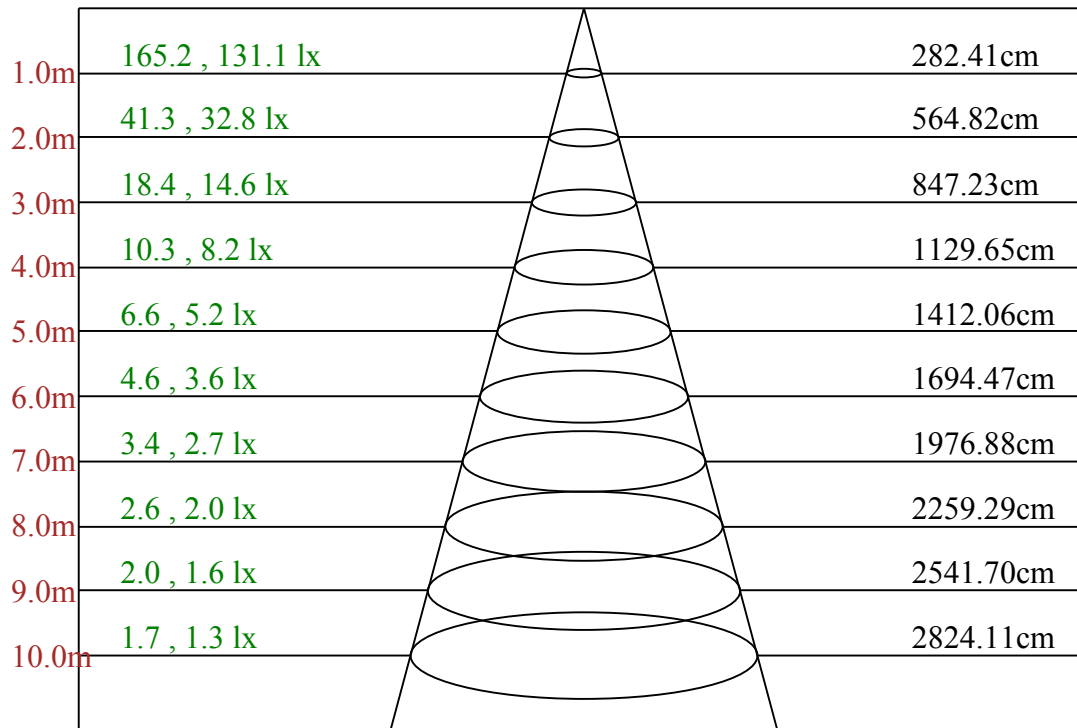


C0/C180: —

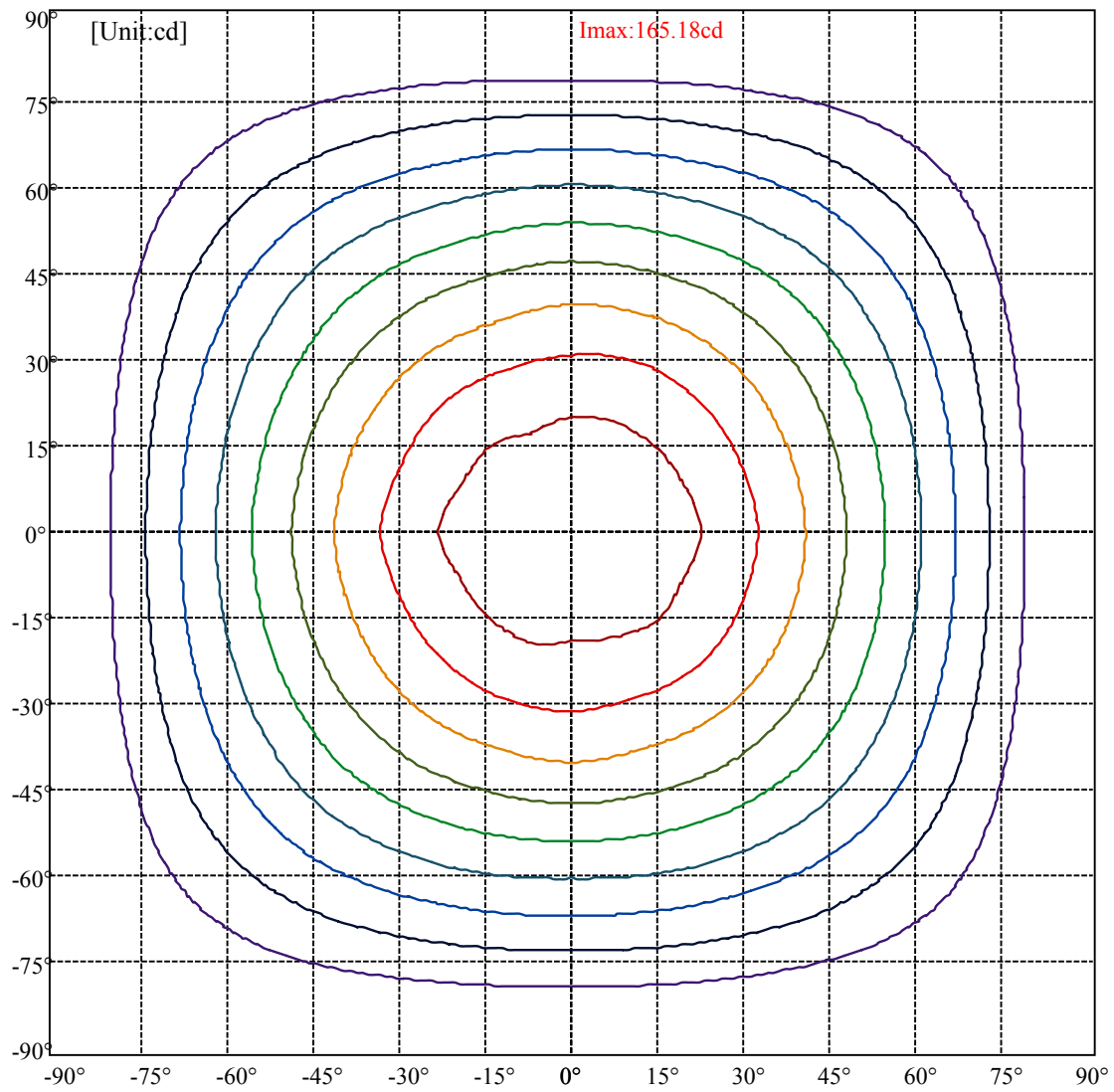
C90/C270: —

Field angle(10%Imax):C0/180Left:79.4 Right:78.1
 :C90/270Left:83.6 Right:73.0

Beam Angle(50%Imax):C0/180Left:55.1 Right:54.0
 :C90/270Left:59.3 Right:49.2



Max , Ave Beam angle of C0plane109.38



(10%Imax) 16.5042	—
(20%Imax) 33.0084	—
(30%Imax) 49.5125	—
(40%Imax) 66.0167	—
(50%Imax) 82.5209	—
(60%Imax) 99.0251	—
(70%Imax) 115.529	—
(80%Imax) 132.033	—
(90%Imax) 148.538	—

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	165.18	164.51	161.85	157.85	152.08	144.75	136.31	126.55	116.33
22.5	162.96	161.85	159.18	155.19	149.86	142.75	134.32	124.55	114.34
45.0	162.29	161.40	158.96	154.74	148.97	142.31	133.87	124.33	114.11
67.5	162.96	162.07	159.63	155.63	148.97	142.53	134.54	124.55	113.89
90.0	159.85	159.85	157.85	153.85	148.30	141.20	132.76	124.10	113.89
112.5	160.29	159.40	156.74	152.08	146.53	139.42	131.65	121.88	111.23
135.0	163.18	162.29	159.40	154.96	148.75	141.42	133.43	123.66	112.78
157.5	162.73	161.62	158.96	154.96	149.19	142.75	134.09	124.55	114.56
180.0	165.18	164.51	162.07	158.07	152.74	145.64	137.65	128.32	117.44
202.5	162.96	162.07	159.40	154.96	149.41	142.53	134.09	125.21	115.00
225.0	162.29	161.62	158.96	154.52	148.97	141.64	133.43	124.33	114.56
247.5	162.96	161.85	159.18	154.96	149.19	141.86	133.65	123.88	113.67
270.0	159.85	158.96	156.07	152.30	147.19	141.20	133.65	124.99	115.00
292.5	160.29	159.63	157.18	153.41	148.08	140.98	132.76	123.66	113.45
315.0	163.18	162.29	159.85	156.07	150.08	143.20	134.54	125.66	114.78
337.5	162.73	161.85	159.63	155.41	149.64	142.97	134.76	125.88	115.45
360.0	165.18	164.51	161.85	157.85	152.08	144.75	136.31	126.55	116.33
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	104.79	92.80	80.15	66.83	52.84	38.41	24.64	11.32	1.11
22.5	103.46	91.47	78.81	65.94	52.62	38.85	24.64	11.99	1.33
45.0	103.01	91.25	78.37	65.27	52.17	38.19	24.42	11.55	1.33
67.5	102.57	90.14	77.93	64.61	51.28	37.52	24.20	11.32	1.11
90.0	102.79	90.80	77.93	65.49	52.17	38.19	23.76	10.66	1.33
112.5	101.02	88.58	76.59	63.94	50.84	37.96	24.20	11.99	1.55
135.0	101.68	89.69	77.70	64.83	51.73	38.19	24.87	12.43	2.00
157.5	103.24	91.25	78.59	66.16	52.84	39.30	25.75	13.32	2.66
180.0	106.34	95.02	82.81	69.49	55.95	42.18	28.20	14.88	3.77
202.5	104.12	92.36	80.15	67.05	54.39	40.63	28.42	14.43	3.55
225.0	103.46	91.69	79.70	66.83	53.73	39.96	26.86	13.54	2.89
247.5	102.35	91.02	78.59	66.38	52.84	39.30	25.75	12.66	2.66
270.0	103.68	91.25	78.15	65.27	52.84	39.30	25.09	12.43	2.00
292.5	103.01	90.80	78.59	66.38	52.84	38.85	25.75	12.43	2.00
315.0	103.90	91.69	79.70	66.60	52.84	39.74	25.75	12.43	2.00
337.5	104.12	92.58	80.59	66.83	53.95	39.96	26.86	13.10	2.66
360.0	104.79	92.80	80.15	66.83	52.84	38.41	24.64	11.32	1.11
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)

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