



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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LumCAT:	
Luminaire:	
Report No:	Voltage(V): 120.11
Test No:	Current(A): 0.166
LampCAT:	Power (W): 17.9300
Lamp flux(lm): 1230.6	PF: 0.8991
Number of Lamps: 1	Ballast type:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1230.62
Efficiency(%): 100.00%
Lumens(lm)/Power(W): 68.63
Central intensity(cd): 422.616
Maximum intensity(cd): 422.616
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=113.8
 [C90/270]Total=114.0
Field angle(10%Imax): [C0/180]Total=161.7
 [C90/270]Total=161.5
Maximum s/h(1/2): C0_180=1.30 C90_270=1.28
Maximum s/h(1/4): C0_180=1.85 C90_270=1.39
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 : 78.599%

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	419.589	.000	.000	.000%	.000%
5.0	418.205	10.016	10.016	.814%	.814%
10.0	413.716	29.760	39.776	2.418%	3.232%
15.0	406.251	48.640	88.416	3.952%	7.185%
20.0	395.603	66.084	154.500	5.370%	12.555%
25.0	381.534	81.507	236.007	6.623%	19.178%
30.0	364.230	94.377	330.384	7.669%	26.847%
35.0	342.723	104.104	434.488	8.459%	35.306%
40.0	317.954	110.229	544.717	8.957%	44.264%
45.0	289.505	112.476	657.193	9.140%	53.403%
50.0	257.558	110.542	767.735	8.983%	62.386%
55.0	223.549	104.609	872.344	8.500%	70.887%
60.0	187.061	94.911	967.255	7.712%	78.599%
65.0	150.442	82.048	1049.303	6.667%	85.266%
70.0	113.536	66.841	1116.144	5.431%	90.698%
75.0	78.144	50.102	1166.246	4.071%	94.769%
80.0	45.754	33.152	1199.398	2.694%	97.463%
85.0	18.244	17.390	1216.788	1.413%	98.876%
90.0	2.114	5.574	1222.362	.453%	99.329%
95.0	.992	.850	1223.212	.069%	99.398%
100.0	1.070	.560	1223.773	.046%	99.444%
105.0	1.096	.580	1224.352	.047%	99.491%
110.0	1.070	.566	1224.919	.046%	99.537%
115.0	1.096	.549	1225.467	.045%	99.581%
120.0	1.201	.558	1226.026	.045%	99.627%
125.0	1.279	.573	1226.599	.047%	99.673%
130.0	1.383	.579	1227.178	.047%	99.720%
135.0	1.462	.575	1227.753	.047%	99.767%
140.0	1.514	.551	1228.303	.045%	99.812%
145.0	1.514	.505	1228.809	.041%	99.853%
150.0	1.592	.457	1229.266	.037%	99.890%
155.0	1.566	.400	1229.666	.032%	99.922%
160.0	1.670	.339	1230.005	.028%	99.950%
165.0	1.566	.267	1230.272	.022%	99.972%
170.0	1.670	.192	1230.464	.016%	99.987%
175.0	1.566	.116	1230.580	.009%	99.997%
180.0	1.618	.038	1230.618	.003%	100.000%

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

Date:
Humidity(%): 58%

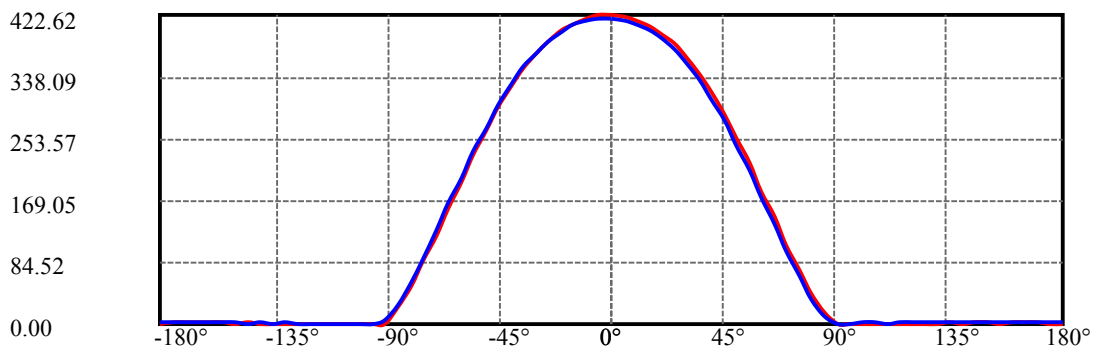
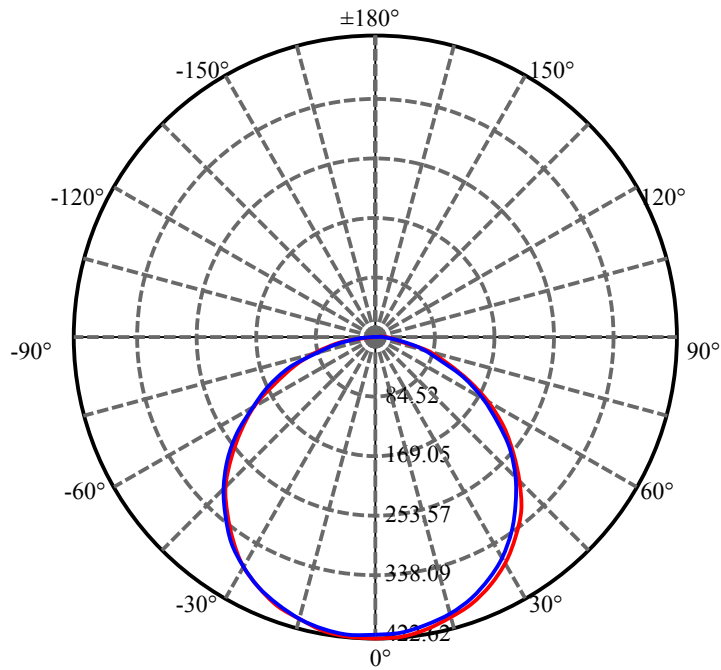
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	330.38	26.85%	26.85%
0-40	544.72	44.26%	44.26%
0-60	967.26	78.60%	78.60%
0-90	1222.36	99.33%	99.33%
0-120	1226.03	99.63%	99.63%
0-180	1230.62	100.00%	100.00%
60-90	350.02	28.44%	28.44%
90-120	9.24	0.75%	0.75%
90-130	10.39	0.84%	0.84%
90-150	12.48	1.01%	1.01%
90-180	13.79	1.12%	1.12%
0-61.05	984.49	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	39.78
10-20	114.72
20-30	175.88
30-40	214.33
40-50	223.02
50-60	199.52
60-70	148.89
70-80	83.25
80-90	22.96
90-100	1.41
100-110	1.15
110-120	1.11
120-130	1.15
130-140	1.13
140-150	0.96
150-160	0.74
160-170	0.46
170-180	0.12

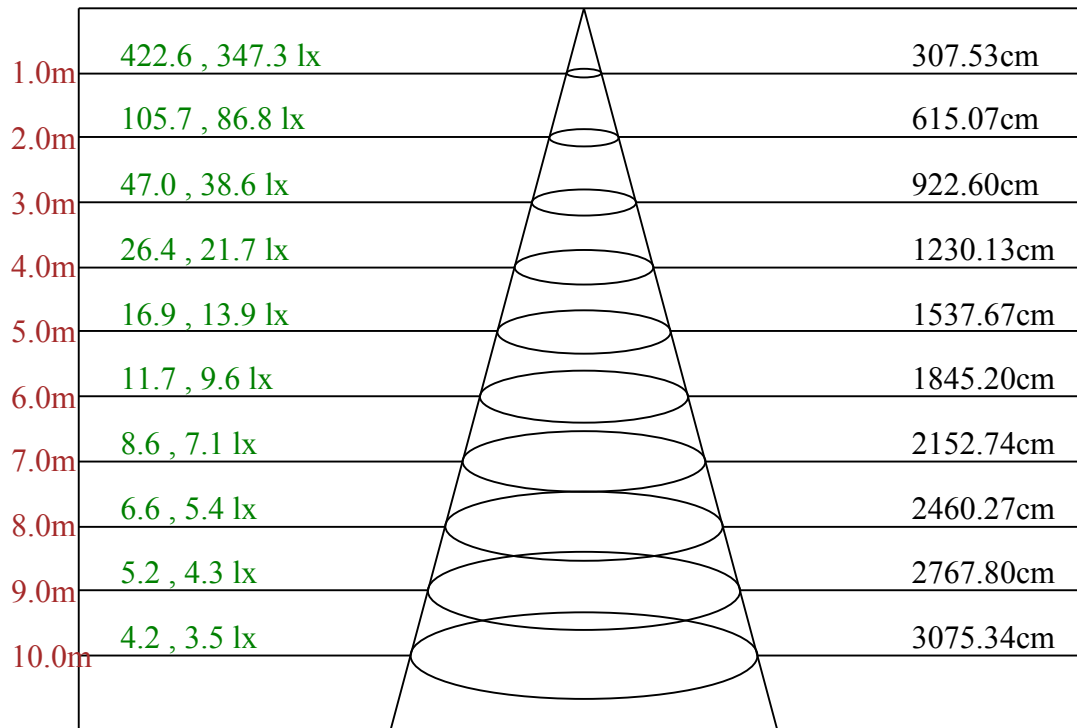


C0/C180: —

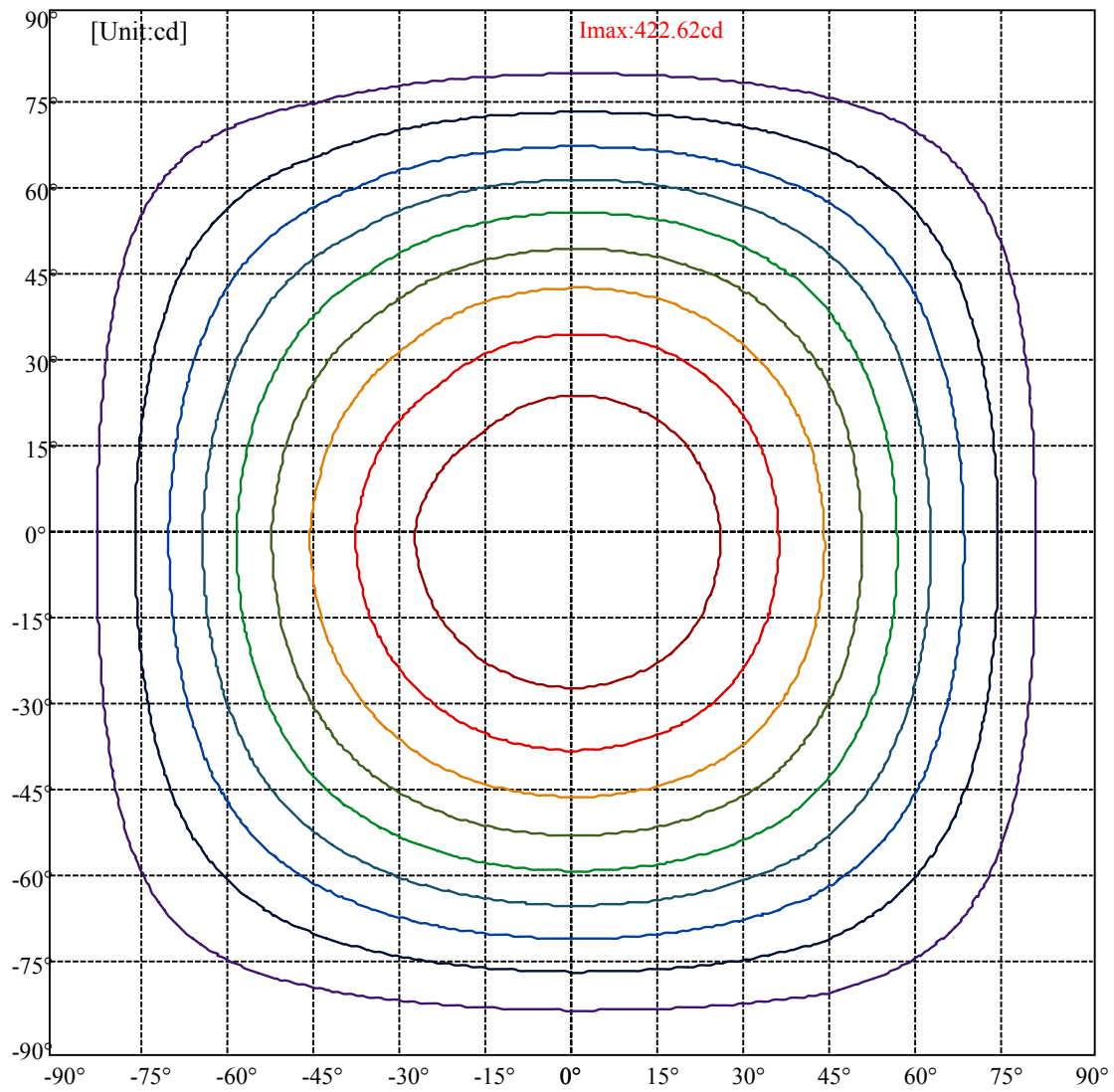
C90/C270: —

Field angle(10%Imax):C0/180Left:81.7 Right:80.0
 :C90/270Left:77.5 Right:83.9

Beam Angle(50%Imax):C0/180Left:57.7 Right:56.1
 :C90/270Left:53.7 Right:60.2



Max , Ave Beam angle of C0plane113.89



(10%Imax) 42.2449	—
(20%Imax) 84.4898	—
(30%Imax) 126.735	—
(40%Imax) 168.98	—
(50%Imax) 211.225	—
(60%Imax) 253.469	—
(70%Imax) 295.714	—
(80%Imax) 337.959	—
(90%Imax) 380.204	—

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	422.62	421.16	415.94	408.00	397.14	382.32	364.57	341.39	316.55
45.0	420.53	418.23	413.01	404.66	392.76	377.93	359.77	337.63	311.53
90.0	418.23	415.31	409.67	401.74	390.67	375.22	356.43	333.46	307.36
135.0	416.98	414.26	408.84	399.65	388.37	372.71	353.50	330.95	305.48
180.0	422.62	421.78	417.81	410.51	400.48	386.91	369.79	348.70	324.27
225.0	420.53	419.69	415.94	408.84	398.40	385.24	369.16	348.70	324.48
270.0	418.23	418.44	414.68	409.04	398.60	386.08	370.62	350.79	327.19
315.0	416.98	416.77	413.85	407.58	398.40	385.87	370.00	350.16	326.78
360.0	422.62	421.16	415.94	408.00	397.14	382.32	364.57	341.39	316.55
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	287.10	253.49	219.45	182.08	146.37	108.79	73.92	41.97	15.03
45.0	281.68	250.15	214.86	177.90	139.69	103.57	68.49	36.96	10.86
90.0	277.92	244.72	211.10	173.31	136.77	99.60	66.40	35.29	10.02
135.0	275.62	242.63	205.88	170.38	133.84	97.30	63.06	32.78	8.98
180.0	295.66	263.93	230.73	194.60	158.48	121.73	85.61	52.62	22.97
225.0	296.92	267.06	233.23	196.69	159.11	122.78	86.24	52.41	24.22
270.0	300.05	268.94	235.74	200.24	164.95	128.00	90.20	57.00	26.94
315.0	301.09	269.56	237.41	201.29	164.33	126.53	91.25	57.00	26.94
360.0	287.10	253.49	219.45	182.08	146.37	108.79	73.92	41.97	15.03
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.04	0.84	0.84	1.04	1.25	1.04	1.04	1.25	1.25
45.0	1.25	1.25	1.25	1.04	1.25	1.46	1.46	1.67	1.46
90.0	1.25	1.25	1.46	1.46	1.25	1.46	1.46	1.46	1.67
135.0	1.25	1.25	1.46	1.46	1.25	1.46	1.46	1.46	1.67
180.0	1.25	0.84	0.84	0.84	0.84	0.63	0.84	0.84	1.04
225.0	2.30	0.84	0.84	1.04	1.04	0.84	1.04	1.04	1.25
270.0	4.39	0.84	0.84	0.84	0.84	1.04	1.25	1.25	1.46
315.0	4.18	0.84	1.04	1.04	0.84	0.84	1.04	1.25	1.25
360.0	1.04	0.84	0.84	1.04	1.25	1.04	1.04	1.25	1.25
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.46	1.25	1.46	1.46	1.25	1.46	1.46	1.67	1.25
45.0	1.67	1.67	1.88	1.67	1.88	1.88	1.67	1.88	1.67
90.0	1.88	1.67	1.67	1.88	1.67	1.67	1.67	1.67	1.67
135.0	1.67	1.88	1.88	1.88	1.67	1.88	1.88	1.88	1.88
180.0	1.04	1.25	1.46	1.25	1.46	1.67	1.46	1.46	1.46
225.0	1.46	1.46	1.25	1.67	1.67	1.67	1.46	1.46	1.46
270.0	1.25	1.46	1.25	1.46	1.46	1.46	1.46	1.67	1.67
315.0	1.25	1.46	1.25	1.46	1.46	1.67	1.46	1.67	1.46
360.0	1.46	1.25	1.46	1.46	1.25	1.46	1.46	1.67	1.25
C/γ(°)	180.0								
0.0	1.25								
45.0	1.67								
90.0	1.67								
135.0	1.88								
180.0	1.25								
225.0	1.67								
270.0	1.67								
315.0	1.88								
360.0	1.25								