



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Report No	:	Voltage	: 120 V
Test No	:	Current	: 0.2042 A
LumCAT	:	Power	: 24.166 W
Luminaire	:	PF	: 0.9864
LampCAT	:	Ballast type	:
Lamp flux	: 1188.1 lm	Width	: 0 mm
Number of Lamps	: 1	Length	: 0 mm
Phm Type	: C	Height	: 0 mm

Photometric Results

Lumens(lm)	: 1188.09	Central intensity(cd)	: 296.268
Efficiency(%)	: 100.00%	Maximum intensity(cd)	: 301.345
Luminous Efficacy(lm/W)	: 49.16	Angle of maximum intensity	: C=90.0 γ =0.0
Beam Angle(50%Imax)	: [C0/180]Total=137.6 [C90/270]Total=113.9		
Field angle(10%Imax)	: [C0/180]Total=293.8 [C90/270]Total=162.0		
Maximum s/h(1/2)	: C0_180=1.39 C90_270=1.27		
Maximum s/h(1/4)	: C0_180=1.53 C90_270=1.39		
Up flux rate of lamp(%)	: 12.35%		
Down flux rate of lamp(%)	: 87.65%		
Up flux rate of LUM(%)	: 12.35%		
Down flux rate of LUM(%)	: 87.65%		
CIE Type	: Semidirect lighting		
Output flux ratio in π solid angle :	: 62.367%		

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

Date:
Humidity(%): 59%

Operator: Zac

Zonal flux distribution table

Appendix Page: 2 Total:7

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	298.350	0.000	0	0.00%	0.00%
5.0	298.578	7.136	7.136	0.60%	0.60%
10.0	297.030	21.307	28.443	1.79%	2.39%
15.0	293.375	35.022	63.465	2.95%	5.34%
20.0	287.283	47.854	111.32	4.03%	9.37%
25.0	279.160	59.409	170.729	5.00%	14.37%
30.0	268.830	69.349	240.077	5.84%	20.21%
35.0	256.341	77.335	317.413	6.51%	26.72%
40.0	241.645	83.085	400.498	6.99%	33.71%
45.0	225.120	86.425	486.923	7.27%	40.98%
50.0	206.565	87.228	574.151	7.34%	48.33%
55.0	186.716	85.512	659.664	7.20%	55.52%
60.0	165.090	81.319	740.983	6.84%	62.37%
65.0	142.144	74.689	815.672	6.29%	68.65%
70.0	118.487	65.993	881.665	5.55%	74.21%
75.0	94.602	55.698	937.363	4.69%	78.90%
80.0	71.910	44.554	981.917	3.75%	82.65%
85.0	53.304	34.024	1015.94	2.86%	85.51%
90.0	39.521	25.416	1041.357	2.14%	87.65%
95.0	38.100	21.253	1062.61	1.79%	89.44%
100.0	27.464	17.815	1080.425	1.50%	90.94%
105.0	13.377	10.928	1091.353	0.92%	91.86%
110.0	17.743	8.134	1099.487	0.68%	92.54%
115.0	26.221	11.132	1110.619	0.94%	93.48%
120.0	30.764	13.853	1124.472	1.17%	94.65%
125.0	29.469	13.923	1138.395	1.17%	95.82%
130.0	27.160	12.313	1150.708	1.04%	96.85%
135.0	24.393	10.417	1161.124	0.88%	97.73%
140.0	21.144	8.432	1169.556	0.71%	98.44%
145.0	17.489	6.446	1176.002	0.54%	98.98%
150.0	13.631	4.583	1180.584	0.39%	99.37%
155.0	9.645	2.946	1183.53	0.25%	99.62%
160.0	7.742	1.824	1185.353	0.15%	99.77%
165.0	6.752	1.194	1186.548	0.10%	99.87%
170.0	7.158	0.825	1187.373	0.07%	99.94%
175.0	7.260	0.516	1187.889	0.04%	99.98%
180.0	9.696	0.203	1188.091	0.02%	100.00%

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

Date:
Humidity(%): 59%

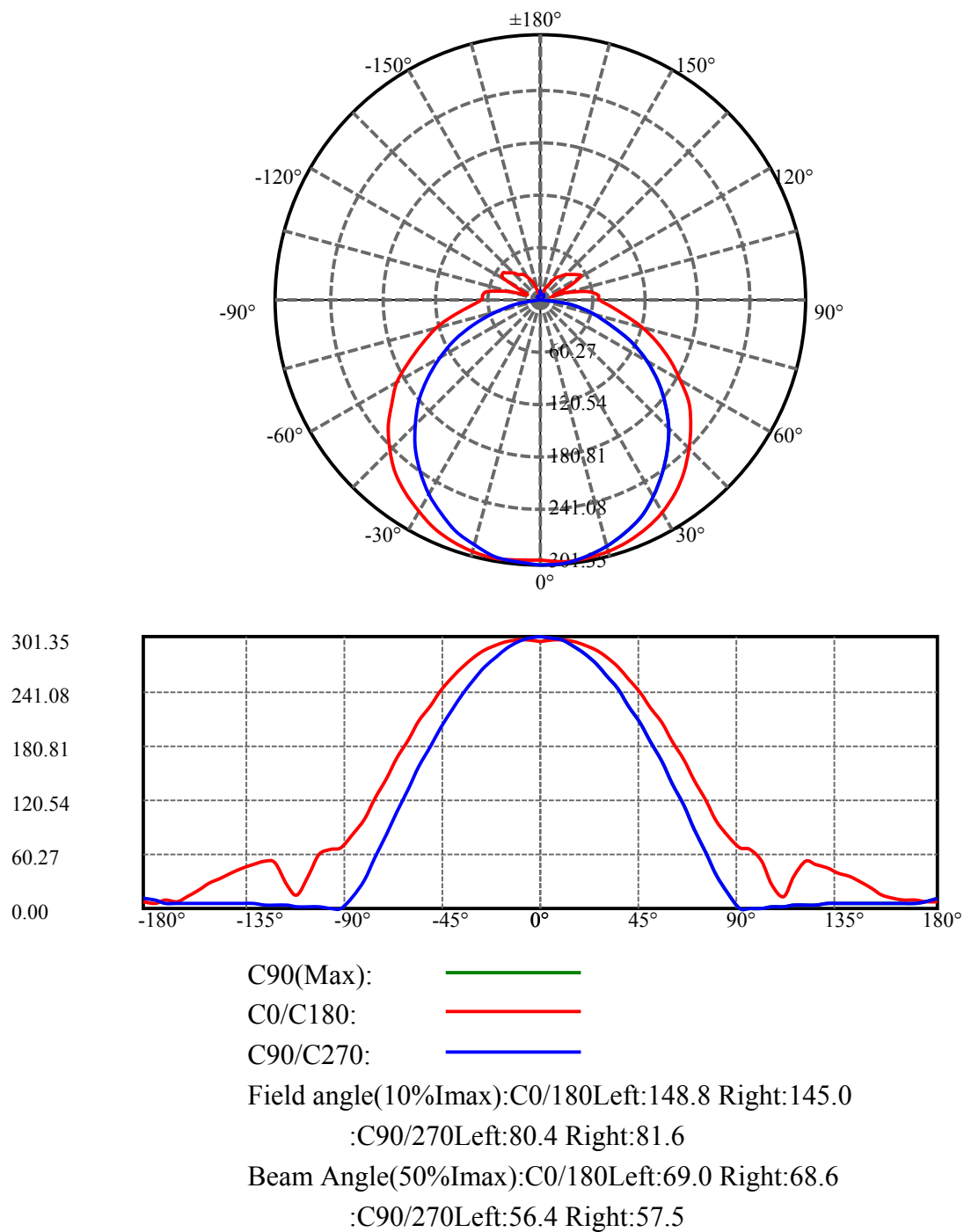
Operator: Zac

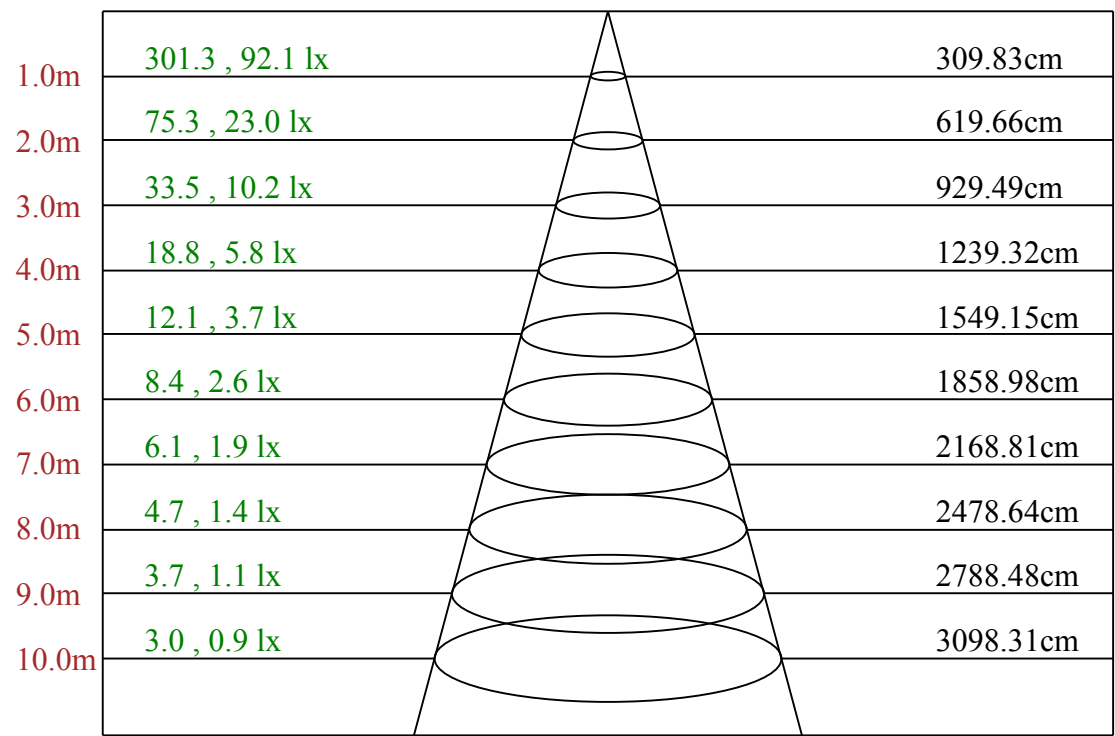
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	240.08	20.21%	20.21%
0-40	400.50	33.71%	33.71%
0-60	740.98	62.37%	62.37%
0-90	1041.36	87.65%	87.65%
0-120	1124.47	94.65%	94.65%
0-180	1188.09	100.00%	100.00%
60-90	300.37	25.28%	25.28%
90-120	83.12	7.00%	7.00%
90-130	109.35	9.20%	9.20%
90-150	139.23	11.72%	11.72%
90-180	146.53	12.33%	12.33%
0-76.47	950.47	80.00%	80.00%

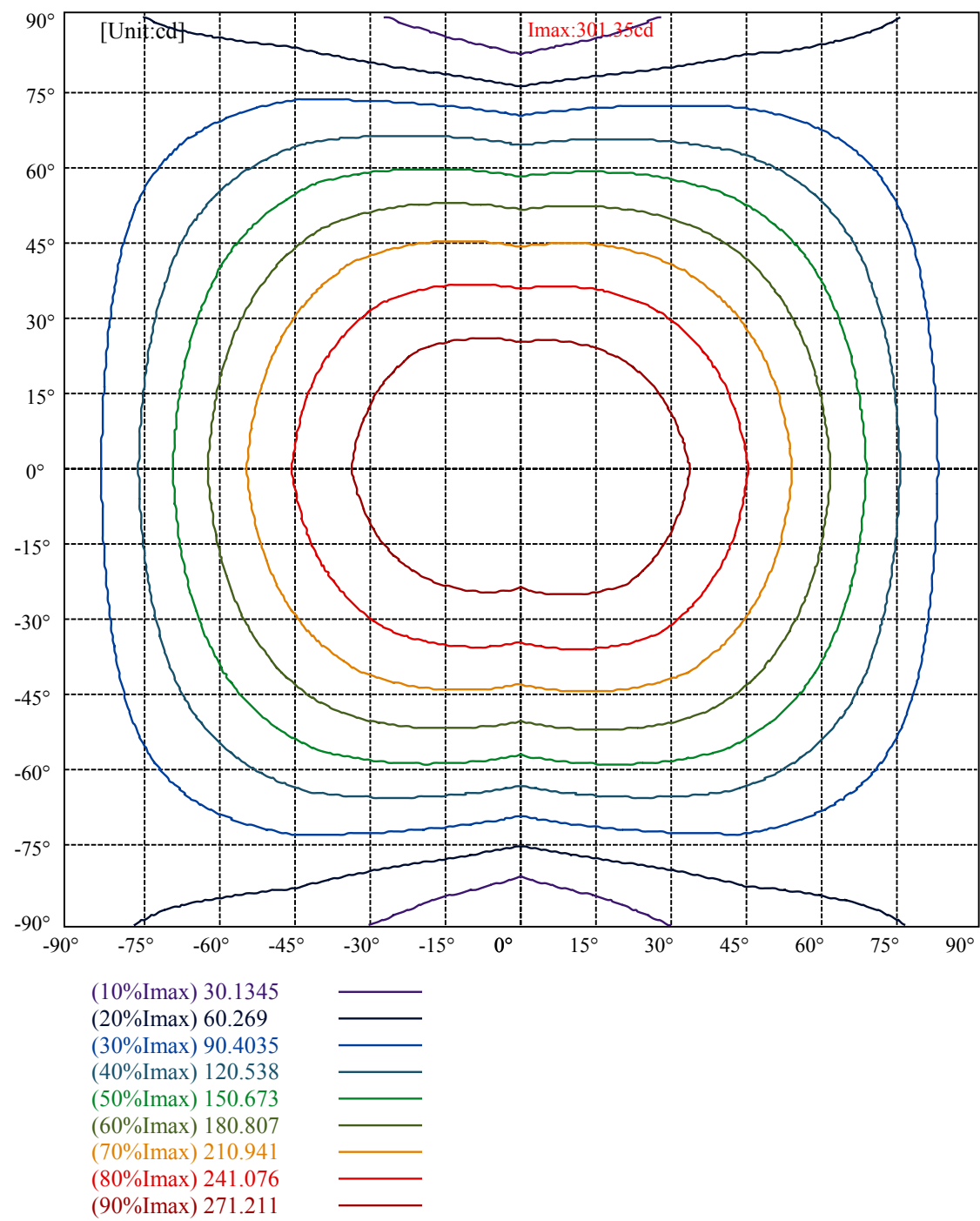
ZONAL LUMEN SUMMARY

0-10	28.44
10-20	82.88
20-30	128.76
30-40	160.42
40-50	173.65
50-60	166.83
60-70	140.68
70-80	100.25
80-90	59.44
90-100	39.07
100-110	19.06
110-120	24.98
120-130	26.24
130-140	18.85
140-150	11.03
150-160	4.77
160-170	2.02
170-180	0.52





Max , Ave Beam angle of C90 plane 114.31



Intensity data(cd)

Appendix Page: 7 Total:7

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	296.27	297.69	297.69	296.27	292.41	286.32	278.20	267.43	254.84
45.0	296.67	297.28	296.07	292.61	286.72	279.41	269.06	256.87	242.05
90.0	301.35	300.13	296.88	290.79	281.85	270.89	257.89	242.46	225.20
135.0	299.11	299.72	298.30	295.25	289.77	282.26	272.71	260.53	246.52
180.0	296.27	297.28	297.89	296.07	292.00	286.32	277.99	267.84	255.66
225.0	296.67	297.08	295.46	292.00	286.32	278.40	268.25	256.67	242.46
270.0	301.35	299.52	295.46	288.55	279.21	267.84	254.23	238.40	220.32
315.0	299.11	299.92	298.50	295.46	289.97	281.85	272.31	260.53	246.11
360.0	296.27	297.69	297.69	296.27	292.41	286.32	278.20	267.43	254.84

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	240.22	223.57	205.09	184.99	164.08	141.94	119.00	98.08	80.01
45.0	226.21	206.31	186.82	165.29	142.35	119.81	96.66	74.73	57.06
90.0	205.70	185.40	162.86	138.69	114.12	87.93	61.53	36.55	16.45
135.0	230.88	213.01	192.91	172.20	149.66	125.70	102.14	79.60	60.51
180.0	241.24	224.79	207.12	187.63	166.11	143.77	121.63	99.91	81.63
225.0	226.42	208.75	189.86	168.95	146.61	123.67	100.11	77.98	59.50
270.0	200.83	179.71	157.58	133.21	107.62	82.24	56.25	31.68	12.59
315.0	229.46	210.98	191.49	169.76	146.61	122.85	99.50	76.76	58.69
360.0	240.22	223.57	205.09	184.99	164.08	141.94	119.00	98.08	80.01

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	67.21	65.79	53.20	26.60	14.01	36.15	52.80	49.34	45.08
45.0	44.88	42.85	22.13	10.56	30.66	34.72	33.10	30.26	26.80
90.0	0.61	0.00	0.81	1.63	2.64	3.45	4.06	4.47	5.08
135.0	45.49	44.47	32.08	8.94	22.13	36.15	35.13	32.49	29.85
180.0	67.01	66.00	60.72	37.97	15.43	25.99	49.75	52.59	49.14
225.0	45.08	43.05	28.63	8.12	23.15	35.13	34.32	32.08	29.04
270.0	0.61	0.20	1.22	1.63	2.44	3.25	3.86	4.06	4.87
315.0	45.28	42.44	20.92	11.58	31.48	34.93	33.10	30.46	27.41
360.0	67.21	65.79	53.20	26.60	14.01	36.15	52.80	49.34	45.08

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	40.21	35.13	29.65	22.95	15.64	10.56	9.95	10.15	6.90
45.0	23.35	18.89	14.21	10.15	6.50	7.11	5.28	5.48	7.92
90.0	5.28	5.69	5.69	5.89	6.30	6.09	5.69	6.50	8.12
135.0	27.41	23.56	18.48	12.79	7.92	6.29	4.87	4.87	6.09
180.0	44.07	38.58	34.11	28.23	20.31	12.79	8.33	8.94	6.30
225.0	26.40	22.54	17.87	13.00	7.51	5.89	6.70	7.72	5.28
270.0	5.08	5.28	5.28	5.28	5.89	5.48	4.87	4.87	8.94
315.0	23.35	19.49	14.62	10.76	7.11	7.72	8.33	8.73	8.53
360.0	40.21	35.13	29.65	22.95	15.64	10.56	9.95	10.15	6.90

C/γ(°)	180.0
0.0	7.11
45.0	10.15
90.0	10.97
135.0	10.56
180.0	7.11
225.0	10.15
270.0	10.97
315.0	10.56
360.0	7.11