



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT:

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 835.5

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.06

Current(A): 0.0568

Power (W): 6.4250

PF: 0.9428

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 835.47

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 130.03

Central intensity(cd): 295.897

Maximum intensity(cd): 295.897

Angle of maximum intensity: $C=0.0$ $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=112.2

[C90/270]Total=112.4

Field angle(10%Imax): [C0/180]Total=160.1

[C90/270]Total=158.7

Maximum s/h(1/2): C0_180=1.32 C90_270=1.28

Maximum s/h(1/4): C0_180=1.88 C90_270=1.40

Up flux rate of lamp(%): 0.35%

Down flux rate of lamp(%): 99.65%

Up flux rate of LUM(%): 0.35%

Down flux rate of LUM(%): 99.65%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 80.172%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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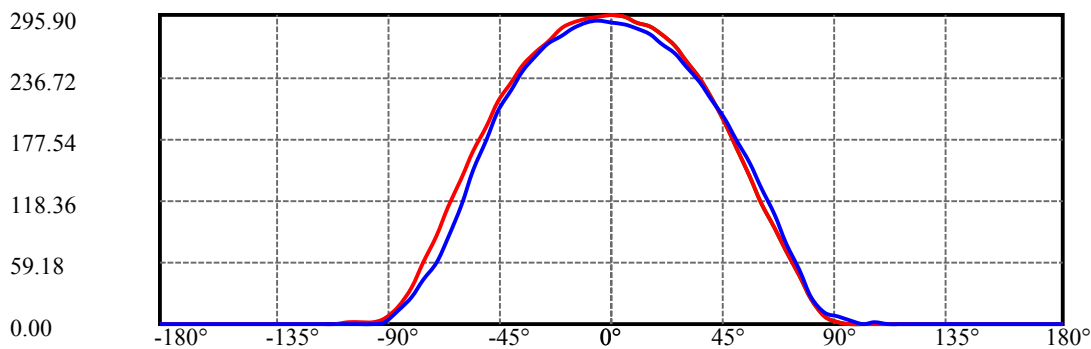
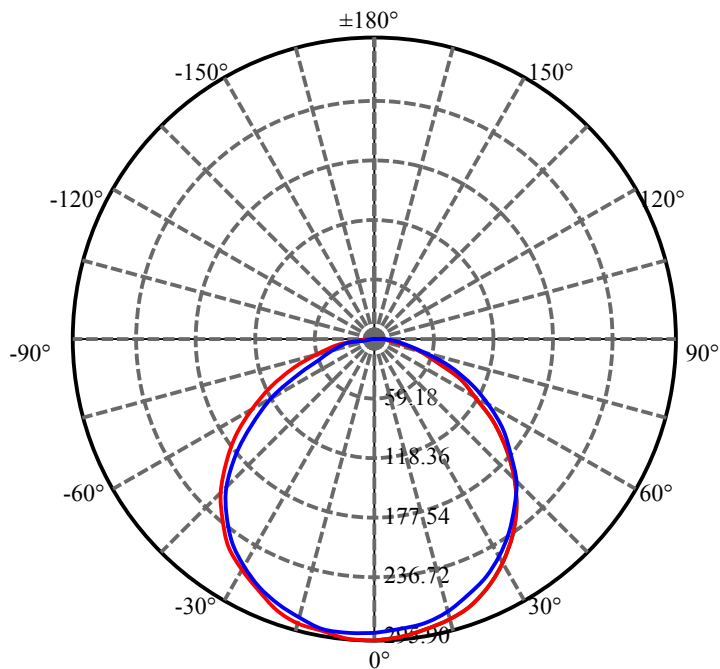
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	290.229	.000	.000	.000%	.000%
5.0	289.264	6.928	6.928	.829%	.829%
10.0	286.528	20.598	27.526	2.465%	3.295%
15.0	281.532	33.697	61.222	4.033%	7.328%
20.0	274.569	45.831	107.053	5.486%	12.814%
25.0	264.700	56.559	163.612	6.770%	19.583%
30.0	253.108	65.529	229.141	7.843%	27.427%
35.0	238.608	72.409	301.550	8.667%	36.093%
40.0	221.556	76.775	378.325	9.189%	45.283%
45.0	201.792	78.386	456.711	9.382%	54.665%
50.0	178.388	76.821	533.532	9.195%	63.860%
55.0	152.676	71.984	605.517	8.616%	72.476%
60.0	125.485	64.296	669.813	7.696%	80.172%
65.0	97.720	54.262	724.074	6.495%	86.667%
70.0	71.165	42.763	766.837	5.118%	91.785%
75.0	47.700	31.069	797.906	3.719%	95.504%
80.0	26.727	19.914	817.821	2.384%	97.888%
85.0	11.470	10.379	828.200	1.242%	99.130%
90.0	4.495	4.371	832.571	.523%	99.653%
95.0	1.160	1.549	834.119	.185%	99.838%
100.0	.574	.471	834.591	.056%	99.895%
105.0	.721	.346	834.937	.041%	99.936%
110.0	.220	.246	835.183	.029%	99.966%
115.0	.049	.068	835.251	.008%	99.974%
120.0	.024	.018	835.269	.002%	99.976%
125.0	.000	.006	835.275	.001%	99.977%
130.0	.049	.011	835.285	.001%	99.978%
135.0	.037	.017	835.302	.002%	99.980%
140.0	.073	.020	835.323	.002%	99.982%
145.0	.049	.020	835.343	.002%	99.985%
150.0	.098	.022	835.365	.003%	99.987%
155.0	.134	.029	835.394	.004%	99.991%
160.0	.098	.024	835.418	.003%	99.994%
165.0	.098	.016	835.434	.002%	99.996%
170.0	.171	.016	835.450	.002%	99.998%
175.0	.171	.012	835.463	.001%	99.999%
180.0	.122	.004	835.466	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	229.14	27.43%	27.43%
0-40	378.32	45.28%	45.28%
0-60	669.81	80.17%	80.17%
0-90	832.57	99.65%	99.65%
0-120	835.27	99.98%	99.98%
0-180	835.47	100.00%	100.00%
60-90	227.05	27.18%	27.18%
90-120	7.07	0.85%	0.85%
90-130	7.09	0.85%	0.85%
90-150	7.16	0.86%	0.86%
90-180	7.26	0.87%	0.87%
0-59.89	668.37	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	27.53
10-20	79.53
20-30	122.09
30-40	149.18
40-50	155.21
50-60	136.28
60-70	97.02
70-80	50.98
80-90	14.75
90-100	2.02
100-110	0.59
110-120	0.09
120-130	0.02
130-140	0.04
140-150	0.04
150-160	0.05
160-170	0.03
170-180	0.01



C0(Max):

C0/C180:

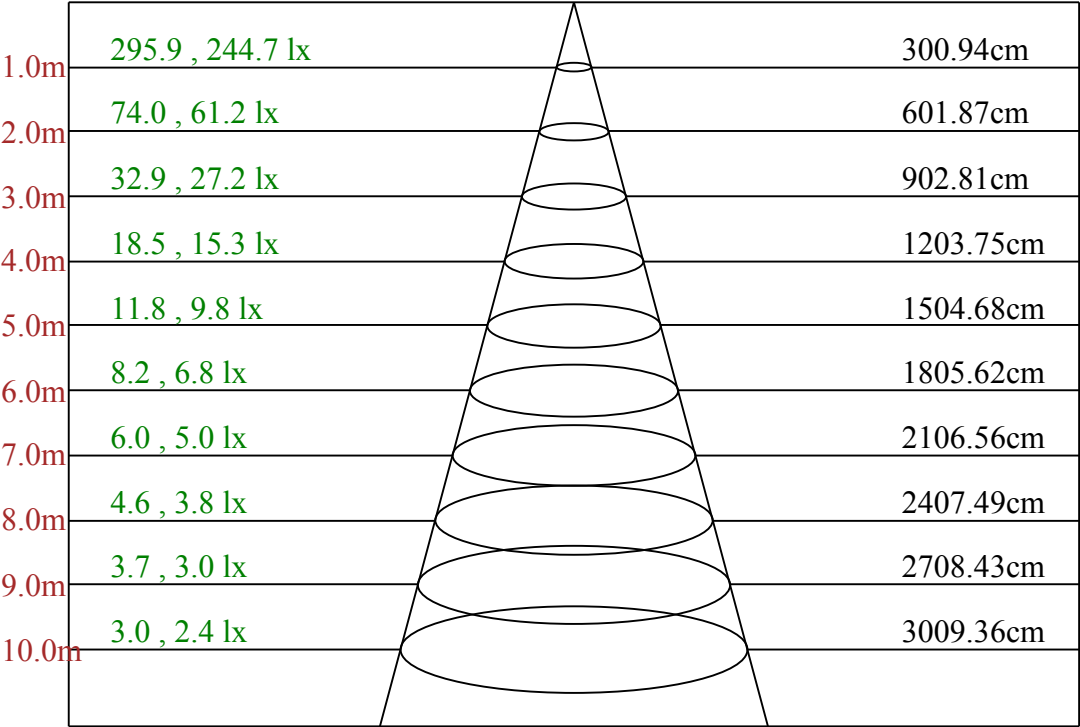
C90/C270:

Field angle(10%Imax):C0/180Left:81.5 Right:78.6

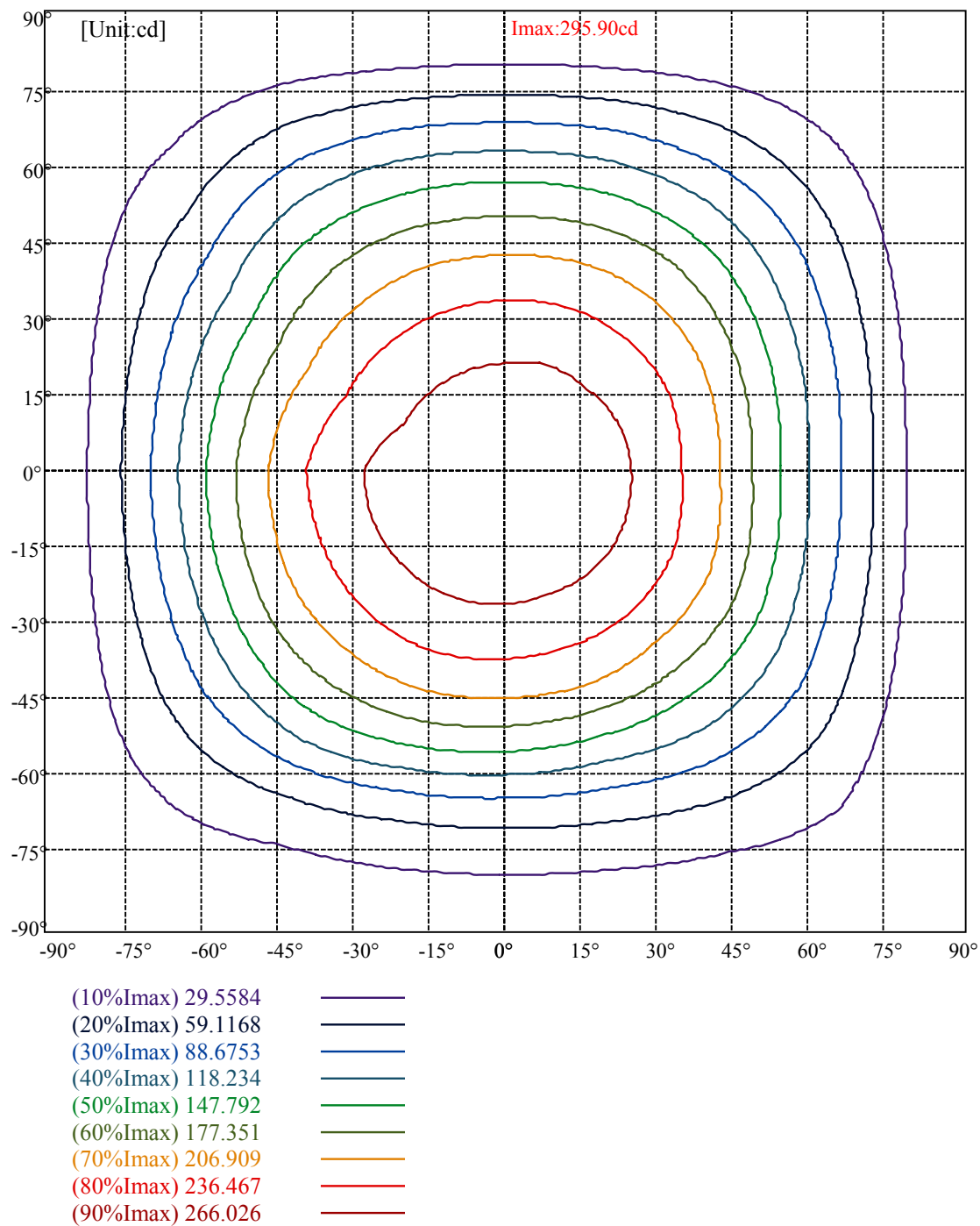
:C90/270Left:74.2 Right:84.5

Beam Angle(50%Imax):C0/180Left:58.3 Right:53.9

:C90/270Left:50.4 Right:62.0



Max , Ave Beam angle of C0plane112.53



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	295.90	293.16	288.86	285.15	277.92	265.60	251.73	235.31	216.35
22.5	293.36	290.42	285.73	282.61	276.55	263.45	252.12	237.07	218.31
45.0	291.79	289.25	285.54	281.04	271.47	259.74	250.16	234.72	218.89
67.5	290.03	289.06	285.93	277.92	270.10	261.30	247.23	233.55	217.13
90.0	288.67	286.52	283.00	276.74	267.75	258.37	245.67	231.40	214.59
112.5	287.49	285.73	281.43	273.81	267.56	257.40	244.69	230.42	214.40
135.0	286.91	286.13	282.41	276.16	267.56	258.18	245.67	230.42	214.01
157.5	287.69	287.10	284.37	277.53	269.32	259.55	248.01	233.16	217.13
180.0	295.90	294.33	291.40	288.08	282.22	271.08	260.72	248.60	232.18
202.5	293.36	292.38	290.03	286.71	280.46	270.69	260.52	247.04	228.86
225.0	291.79	291.21	289.06	285.34	280.46	270.29	257.98	244.11	230.03
247.5	290.03	290.62	289.45	284.56	277.72	269.32	258.57	245.28	228.47
270.0	288.67	289.84	288.08	282.41	276.55	268.54	257.00	243.13	224.56
292.5	287.49	286.52	286.13	283.39	276.16	267.17	256.42	241.37	223.78
315.0	286.91	287.69	286.32	282.41	276.35	267.56	255.25	241.96	222.02
337.5	287.69	288.28	286.71	280.65	274.99	266.97	257.98	240.20	224.17
360.0	295.90	293.16	288.86	285.15	277.92	265.60	251.73	235.31	216.35
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	193.88	169.64	142.09	115.51	92.64	69.19	45.73	23.06	7.43
22.5	198.76	174.14	149.32	122.74	98.89	73.49	49.45	25.80	8.99
45.0	200.13	179.41	154.20	128.99	103.58	76.61	50.62	26.58	10.36
67.5	198.76	178.24	155.77	131.53	106.12	78.57	51.40	26.58	10.75
90.0	196.03	175.90	154.79	130.16	105.34	77.59	50.62	26.38	10.75
112.5	196.42	176.68	154.01	131.34	105.93	78.57	50.82	25.99	11.34
135.0	196.61	176.68	154.59	130.36	105.15	78.18	52.18	27.17	11.14
157.5	196.81	173.75	150.29	123.71	97.53	71.34	47.49	25.41	9.97
180.0	212.44	188.60	165.54	138.96	111.40	84.04	58.63	35.57	16.22
202.5	211.27	188.80	164.56	134.07	104.76	75.44	49.25	28.93	14.07
225.0	208.14	186.06	160.65	133.29	95.18	63.52	38.31	22.87	11.14
247.5	207.36	182.93	153.03	119.22	84.82	58.24	40.26	25.21	11.14
270.0	204.82	176.87	147.56	114.33	82.09	58.44	42.61	26.38	12.12
292.5	203.84	173.75	142.48	111.79	82.28	59.02	41.43	25.60	11.53
315.0	200.72	174.33	144.24	119.22	90.68	64.10	44.17	25.60	12.31
337.5	202.67	178.44	149.71	122.54	97.13	72.31	50.23	30.49	14.27
360.0	193.88	169.64	142.09	115.51	92.64	69.19	45.73	23.06	7.43
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.37	0.20	0.39	0.00	0.00	0.00	0.00	0.00	0.00
22.5	3.32	1.37	0.20	0.00	0.00	0.00	0.00	0.00	0.00
45.0	5.67	0.00	2.54	0.59	0.00	0.00	0.00	0.00	0.00
67.5	6.65	1.95	0.20	1.76	0.00	0.00	0.00	0.00	0.00
90.0	6.45	3.32	0.00	1.76	0.78	0.20	0.20	0.00	0.20
112.5	7.23	3.13	0.00	2.74	1.17	0.20	0.00	0.00	0.20
135.0	7.04	0.78	3.13	2.15	0.20	0.00	0.00	0.00	0.20
157.5	5.28	1.56	0.98	0.20	0.39	0.39	0.20	0.00	0.20
180.0	5.08	1.76	1.56	1.56	0.78	0.00	0.00	0.00	0.00
202.5	4.89	1.56	0.20	0.00	0.20	0.00	0.00	0.00	0.00
225.0	3.52	1.56	0.00	0.78	0.00	0.00	0.00	0.00	0.00
247.5	2.93	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	2.74	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	3.32	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	1.37	0.20	0.39	0.00	0.00	0.00	0.00	0.00	0.00

Intensity data(cd)									Page: 8 Total:8
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	0.20
45.0	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.20	0.00
67.5	0.00	0.00	0.00	0.00	0.39	0.20	0.20	0.20	0.20
90.0	0.20	0.20	0.20	0.39	0.00	0.20	0.20	0.20	0.20
112.5	0.20	0.39	0.00	0.39	0.39	0.39	0.20	0.39	0.20
135.0	0.20	0.20	0.20	0.39	0.59	0.39	0.20	0.39	0.39
157.5	0.00	0.39	0.20	0.39	0.39	0.20	0.39	0.39	0.39
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	0.20	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	0.39	0.20
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.20
292.5	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.20	0.00	0.20	0.00	0.20
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.39	0.39
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	0.20								
112.5	0.39								
135.0	0.39								
157.5	0.00								
180.0	0.00								
202.5	0.00								
225.0	0.00								
247.5	0.00								
270.0	0.20								
292.5	0.39								
315.0	0.39								
337.5	0.00								
360.0	0.00								