



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

Tel:0755-21038430

Address:1 F.,No.1 building,Meibaoh industrial park,Dalang street,Longhua district,Shenzhen,China

LumCAT: LL6S-40K

Luminaire:

Report No:

Voltage(V): 120.12

Test No:

Current(A): 0.1438

LampCAT:

Power (W): 16.9850

Lamp flux(lm): 1102.1

PF: 0.9833

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1102.06

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 64.88

Central intensity(cd): 422.999

Maximum intensity(cd): 422.999

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=106.1

[C90/270]Total=105.9

Field angle(10%Imax): [C0/180]Total=158.1

[C90/270]Total=158.0

Maximum s/h(1/2): C0_180=1.24 C90_270=1.22

Maximum s/h(1/4): C0_180=1.77 C90_270=1.33

Up flux rate of lamp(%): 0.28%

Down flux rate of lamp(%): 99.72%

Up flux rate of LUM(%): 0.28%

Down flux rate of LUM(%): 99.72%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 80.226%

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	414.491	.000	.000	.000%	.000%
5.0	412.268	9.884	9.884	.897%	.897%
10.0	405.369	29.249	39.133	2.654%	3.551%
15.0	394.175	47.428	86.562	4.304%	7.855%
20.0	379.000	63.720	150.282	5.782%	13.636%
25.0	360.443	77.554	227.836	7.037%	20.674%
30.0	338.464	88.447	316.283	8.026%	28.699%
35.0	313.336	95.982	412.265	8.709%	37.409%
40.0	285.930	99.983	512.248	9.072%	46.481%
45.0	256.739	100.480	612.728	9.117%	55.599%
50.0	225.966	97.537	710.265	8.850%	64.449%
55.0	194.415	91.405	801.670	8.294%	72.743%
60.0	162.333	82.461	884.132	7.482%	80.226%
65.0	129.897	71.042	955.173	6.446%	86.672%
70.0	97.433	57.561	1012.734	5.223%	91.895%
75.0	65.746	42.652	1055.387	3.870%	95.765%
80.0	35.791	27.168	1082.555	2.465%	98.230%
85.0	12.026	12.993	1095.548	1.179%	99.409%
90.0	.341	3.386	1098.934	.307%	99.717%
95.0	.232	.157	1099.090	.014%	99.731%
100.0	.259	.133	1099.224	.012%	99.743%
105.0	.300	.149	1099.373	.014%	99.756%
110.0	.382	.178	1099.551	.016%	99.773%
115.0	.395	.197	1099.748	.018%	99.790%
120.0	.477	.212	1099.960	.019%	99.810%
125.0	.532	.233	1100.193	.021%	99.831%
130.0	.627	.252	1100.445	.023%	99.854%
135.0	.627	.253	1100.698	.023%	99.877%
140.0	.600	.227	1100.926	.021%	99.897%
145.0	.736	.223	1101.149	.020%	99.917%
150.0	.763	.221	1101.369	.020%	99.938%
155.0	.832	.202	1101.571	.018%	99.956%
160.0	.846	.176	1101.747	.016%	99.972%
165.0	.777	.134	1101.881	.012%	99.984%
170.0	.846	.096	1101.977	.009%	99.993%
175.0	.832	.060	1102.037	.005%	99.998%
180.0	.873	.020	1102.058	.002%	100.000%

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

Date:
Humidity(%): 58%

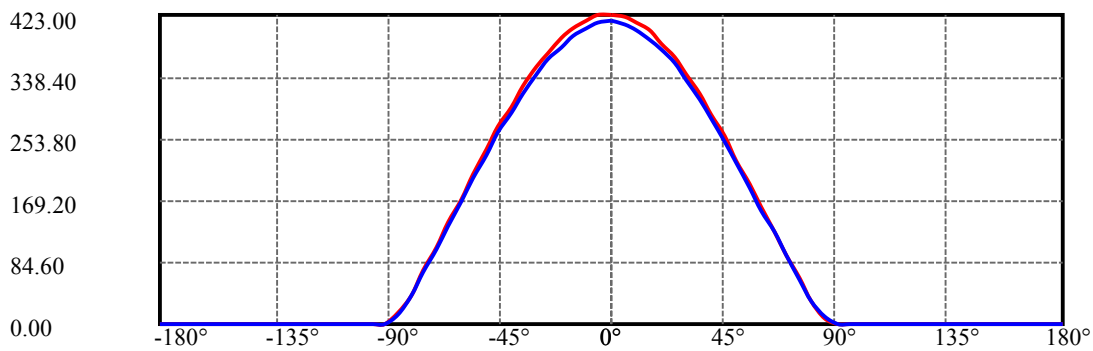
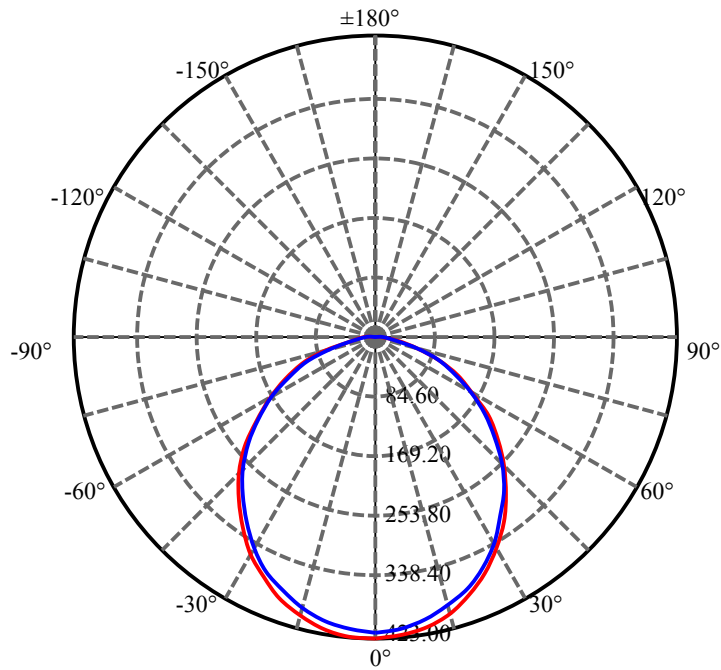
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	316.28	28.70%	28.70%
0-40	512.25	46.48%	46.48%
0-60	884.13	80.23%	80.23%
0-90	1098.93	99.72%	99.72%
0-120	1099.96	99.81%	99.81%
0-180	1102.06	100.00%	100.00%
60-90	297.26	26.97%	26.97%
90-120	4.41	0.40%	0.40%
90-130	4.90	0.44%	0.44%
90-150	5.82	0.53%	0.53%
90-180	6.49	0.59%	0.59%
0-59.85	881.65	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	39.13
10-20	111.15
20-30	166.00
30-40	195.97
40-50	198.02
50-60	173.87
60-70	128.60
70-80	69.82
80-90	16.38
90-100	0.29
100-110	0.33
110-120	0.41
120-130	0.49
130-140	0.48
140-150	0.44
150-160	0.38
160-170	0.23
170-180	0.06

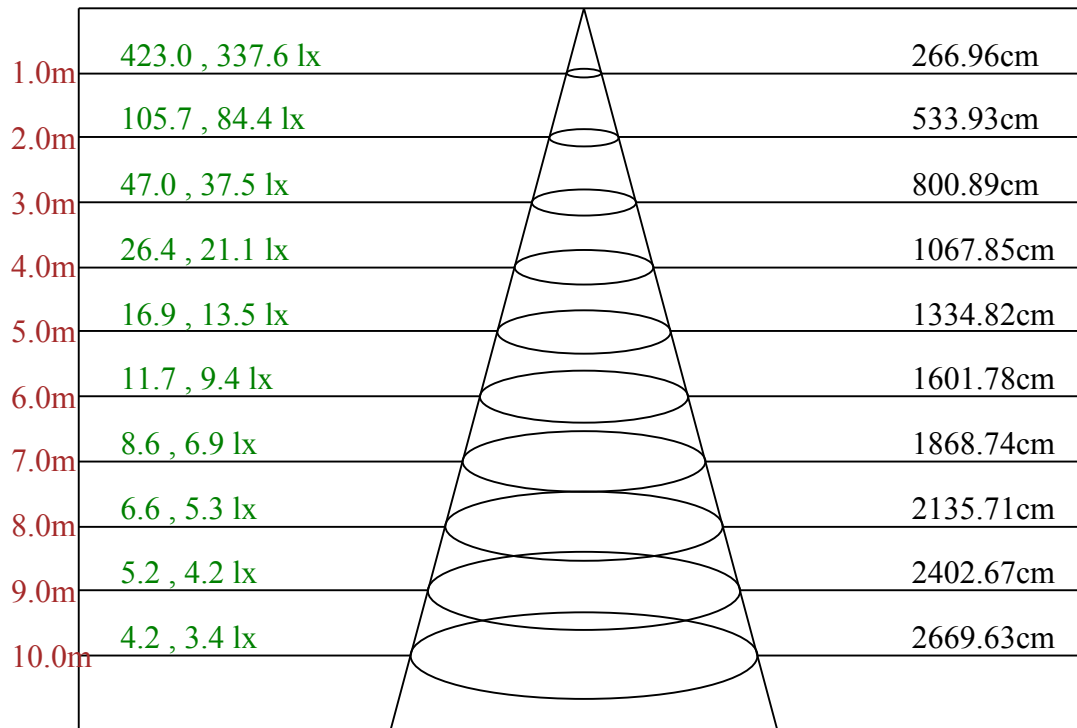


C0/C180: —

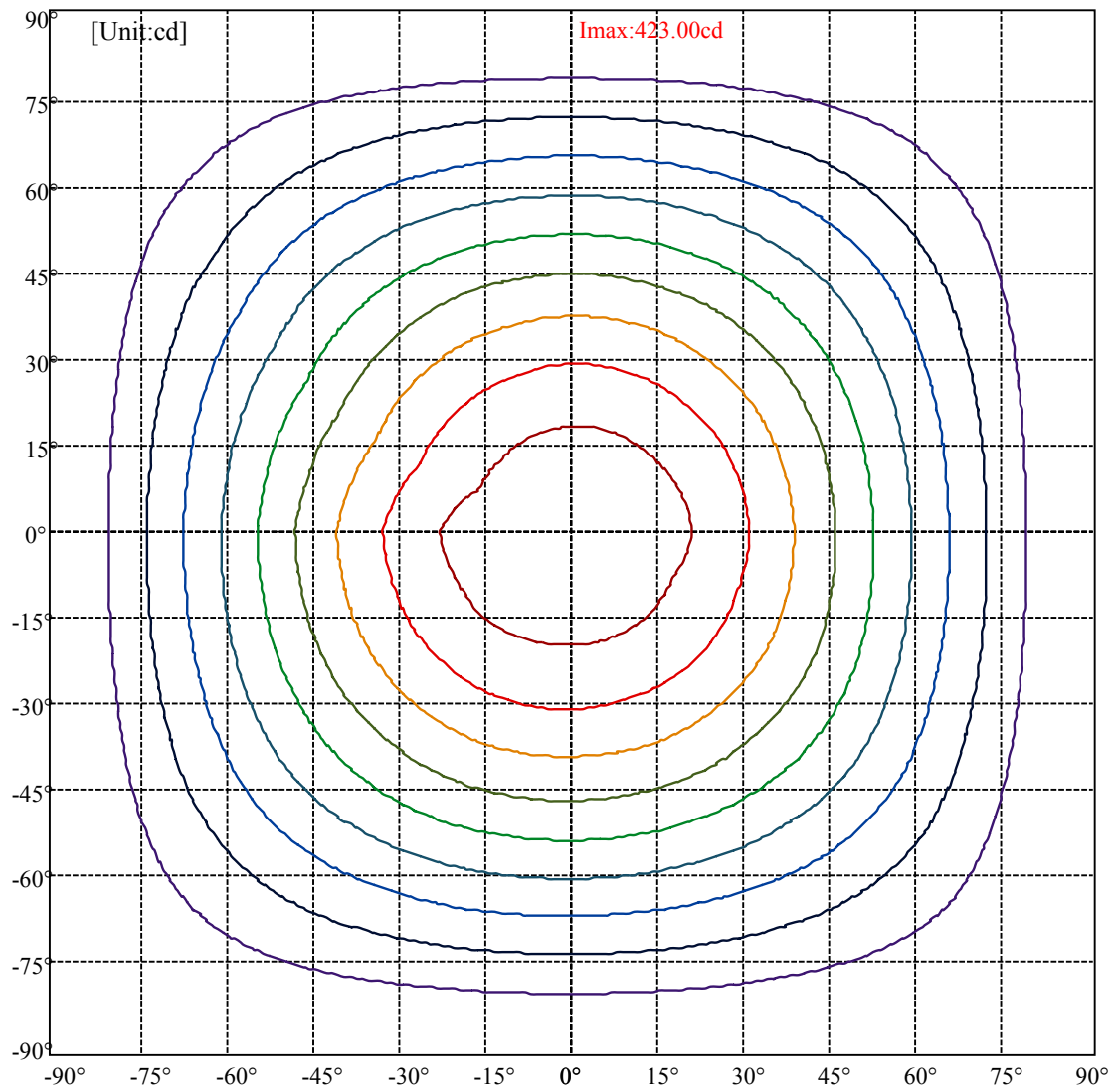
C90/C270: —

Field angle(10%Imax):C0/180Left:79.7 Right:78.4
 :C90/270Left:79.7 Right:78.3

Beam Angle(50%Imax):C0/180Left:54.1 Right:52.0
 :C90/270Left:53.9 Right:52.0



Max , Ave Beam angle of C0plane106.27



(10%Imax) 42.2781	—
(20%Imax) 84.5562	—
(30%Imax) 126.834	—
(40%Imax) 169.112	—
(50%Imax) 211.39	—
(60%Imax) 253.668	—
(70%Imax) 295.947	—
(80%Imax) 338.225	—
(90%Imax) 380.503	—

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	423.00	420.38	413.40	401.18	383.95	364.53	341.85	315.45	286.65
22.5	418.42	414.71	407.51	395.95	379.80	360.39	337.92	311.30	283.16
45.0	415.58	412.53	404.24	392.68	375.88	356.90	334.21	308.69	279.45
67.5	413.40	410.78	402.71	391.80	375.88	356.68	333.77	308.25	280.11
90.0	413.84	410.56	402.27	389.62	375.22	356.46	333.34	306.94	280.98
112.5	411.00	408.60	400.31	388.97	373.48	352.75	330.94	305.85	277.93
135.0	410.35	406.64	399.66	387.66	371.73	352.75	330.07	305.20	277.49
157.5	410.35	406.64	399.87	388.09	373.26	353.19	331.16	305.63	278.58
180.0	423.00	421.91	414.49	404.02	390.49	371.73	350.79	325.05	298.00
202.5	418.42	417.11	411.00	399.44	385.26	367.81	346.65	321.34	294.73
225.0	415.58	414.05	407.95	397.69	383.51	364.97	342.94	320.25	291.67
247.5	413.40	412.75	406.86	395.95	380.46	363.44	342.28	318.29	290.80
270.0	413.84	411.66	405.76	394.64	378.93	362.57	341.19	316.10	288.83
292.5	411.00	409.69	403.80	393.33	379.15	361.48	339.23	315.01	289.49
315.0	410.35	409.04	402.71	392.89	378.71	360.39	339.66	315.23	287.96
337.5	410.35	409.26	403.37	392.89	378.28	361.04	339.45	314.80	289.05
360.0	423.00	420.38	413.40	401.18	383.95	364.53	341.85	315.45	286.65
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	256.98	224.48	192.63	159.47	127.18	94.02	62.39	32.51	9.16
22.5	253.06	221.43	189.58	157.73	125.22	91.84	60.87	32.29	9.38
45.0	250.88	219.90	187.61	155.76	124.35	92.06	60.43	31.63	9.82
67.5	249.57	218.81	188.05	155.98	124.13	92.72	61.08	32.07	9.82
90.0	250.22	219.46	187.39	155.76	125.44	93.37	61.52	31.20	9.82
112.5	249.13	218.15	187.18	155.54	123.69	92.50	61.30	32.07	10.47
135.0	247.82	217.72	186.74	155.33	123.04	91.41	61.30	32.72	10.25
157.5	248.48	217.72	186.52	155.98	123.69	92.06	61.08	32.94	10.47
180.0	269.42	238.66	205.28	171.47	138.96	105.59	72.43	40.58	15.27
202.5	265.71	234.51	202.01	171.03	137.22	103.84	71.99	40.58	14.83
225.0	262.66	232.33	201.14	168.63	135.04	102.97	70.46	39.70	14.62
247.5	262.66	232.33	200.70	167.98	135.47	102.31	69.81	39.05	14.40
270.0	261.57	231.90	200.05	168.20	134.82	102.10	70.68	39.70	13.74
292.5	260.48	229.50	199.39	166.45	133.51	100.79	69.81	38.83	13.53
315.0	258.95	228.62	198.30	165.58	132.64	100.79	68.50	37.96	13.31
337.5	260.26	229.93	198.08	166.45	133.95	100.57	68.28	38.83	13.53
360.0	256.98	224.48	192.63	159.47	127.18	94.02	62.39	32.51	9.16
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.44	0.22	0.22	0.22	0.44	0.65	0.44	0.87	0.65
22.5	0.22	0.22	0.22	0.44	0.87	0.44	0.65	0.87	0.87
45.0	0.44	0.44	0.65	0.65	0.65	0.44	0.65	0.65	0.65
67.5	0.44	0.44	0.44	0.44	0.65	0.65	0.44	0.87	0.87
90.0	0.65	0.44	0.65	0.44	0.65	0.65	0.65	0.65	0.87
112.5	0.44	0.44	0.44	0.44	0.65	0.87	0.65	0.87	0.65
135.0	0.65	0.44	0.44	0.65	0.44	0.65	0.87	0.65	0.87
157.5	0.65	0.65	0.44	0.44	0.44	0.65	0.65	0.65	0.65
180.0	0.22	0.00	0.00	0.00	0.22	0.22	0.44	0.22	0.22
202.5	0.22	0.00	0.00	0.22	0.00	0.00	0.22	0.22	0.65
225.0	0.44	0.22	0.22	0.00	0.22	0.00	0.44	0.22	0.44
247.5	0.22	0.00	0.22	0.22	0.22	0.22	0.44	0.44	0.44
270.0	0.22	0.00	0.00	0.22	0.00	0.22	0.22	0.22	0.65
292.5	0.22	0.22	0.22	0.00	0.22	0.44	0.44	0.44	0.44
315.0	0.00	0.00	0.00	0.22	0.22	0.22	0.44	0.22	0.44
337.5	0.00	0.00	0.00	0.22	0.22	0.00	0.00	0.44	0.65
360.0	0.44	0.22	0.22	0.22	0.44	0.65	0.44	0.87	0.65

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	0.44	0.65	0.87	0.87	0.65	0.65	0.65	0.65	0.65
22.5	0.65	0.65	0.87	0.65	1.09	0.87	0.87	0.87	0.87
45.0	0.65	0.65	0.87	0.87	0.87	0.87	1.09	0.87	0.87
67.5	0.65	0.87	0.87	1.09	0.87	1.09	0.65	0.87	1.09
90.0	0.87	0.65	0.87	1.09	0.87	1.09	0.87	1.09	0.87
112.5	0.87	0.87	0.87	0.65	0.87	0.87	0.87	1.09	1.09
135.0	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
157.5	0.87	0.87	0.65	0.87	0.87	0.87	0.87	0.87	0.87
180.0	0.87	0.44	0.65	0.65	0.65	0.87	0.87	0.65	0.87
202.5	0.65	0.44	0.87	0.87	0.87	0.65	0.65	0.87	0.87
225.0	0.44	0.44	0.44	0.44	0.87	0.65	0.65	0.87	0.65
247.5	0.44	0.44	0.65	0.65	0.87	0.87	0.65	0.87	0.65
270.0	0.44	0.44	0.65	0.65	0.87	0.65	0.65	0.87	0.65
292.5	0.44	0.44	0.65	0.65	0.87	0.87	0.65	0.87	0.87
315.0	0.44	0.44	0.65	0.65	0.65	0.87	0.65	0.65	0.65
337.5	0.44	0.44	0.44	0.65	0.65	0.87	0.87	0.65	0.87
360.0	0.44	0.65	0.87	0.87	0.65	0.65	0.65	0.65	0.65
C/γ(°)	180.0								
0.0	0.44								
22.5	0.87								
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