



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-30K

Luminaire:

Report No:

Voltage(V): 120.12

Test No:

Current(A): 0.1438

LampCAT:

Power (W): 16.9850

Lamp flux(lm): 1053.4

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): 1053.36

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 62.02

Central intensity(cd): 404.308

Maximum intensity(cd): 404.308

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 : 80.225%

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	396.176	.000	.000	.000%	.000%
5.0	394.052	9.447	9.447	.897%	.897%
10.0	387.457	27.957	37.404	2.654%	3.551%
15.0	376.758	45.333	82.737	4.304%	7.855%
20.0	362.253	60.905	143.642	5.782%	13.636%
25.0	344.516	74.127	217.769	7.037%	20.674%
30.0	323.509	84.539	302.308	8.026%	28.699%
35.0	299.491	91.741	394.049	8.709%	37.409%
40.0	273.296	95.565	489.614	9.072%	46.481%
45.0	245.395	96.040	585.654	9.117%	55.598%
50.0	215.981	93.228	678.882	8.850%	64.449%
55.0	185.825	87.366	766.248	8.294%	72.743%
60.0	155.160	78.818	845.065	7.482%	80.225%
65.0	124.157	67.902	912.968	6.446%	86.672%
70.0	93.127	55.018	967.986	5.223%	91.895%
75.0	62.841	40.768	1008.753	3.870%	95.765%
80.0	34.209	25.968	1034.721	2.465%	98.230%
85.0	11.494	12.419	1047.140	1.179%	99.409%
90.0	.326	3.237	1050.376	.307%	99.716%
95.0	.222	.150	1050.526	.014%	99.731%
100.0	.248	.128	1050.654	.012%	99.743%
105.0	.287	.143	1050.797	.014%	99.756%
110.0	.365	.170	1050.967	.016%	99.772%
115.0	.378	.188	1051.155	.018%	99.790%
120.0	.456	.203	1051.358	.019%	99.810%
125.0	.509	.223	1051.581	.021%	99.831%
130.0	.600	.241	1051.822	.023%	99.854%
135.0	.600	.242	1052.065	.023%	99.877%
140.0	.573	.217	1052.282	.021%	99.897%
145.0	.704	.213	1052.495	.020%	99.917%
150.0	.730	.211	1052.706	.020%	99.938%
155.0	.795	.193	1052.899	.018%	99.956%
160.0	.808	.168	1053.067	.016%	99.972%
165.0	.743	.128	1053.195	.012%	99.984%
170.0	.808	.092	1053.287	.009%	99.993%
175.0	.795	.057	1053.344	.005%	99.998%
180.0	.834	.019	1053.364	.002%	100.000%

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

Date:
Humidity(%): 58%

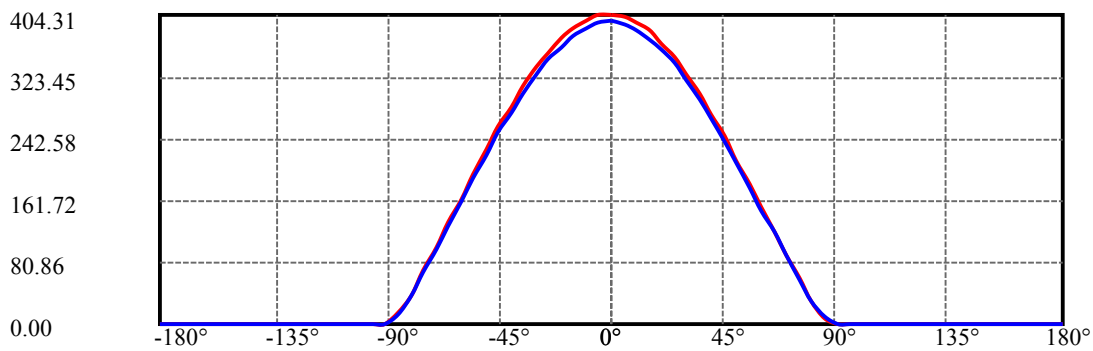
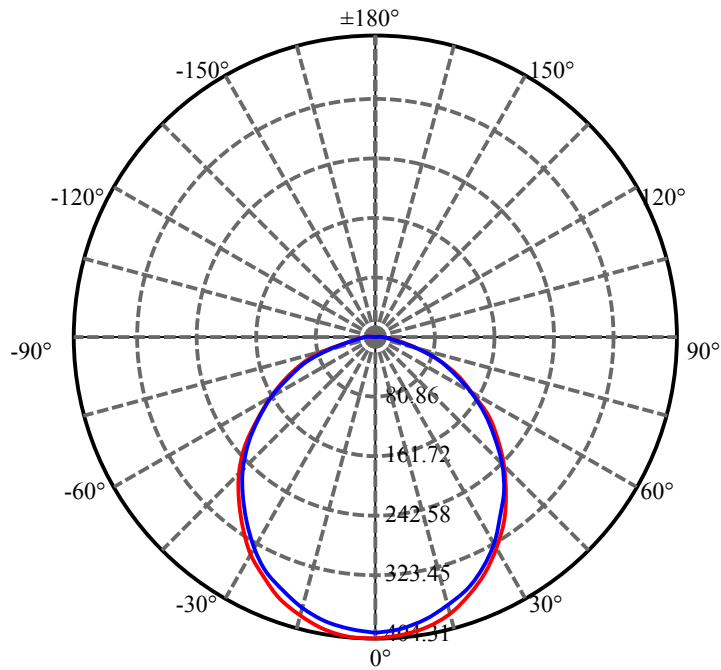
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	302.31	28.70%	28.70%
0-40	489.61	46.48%	46.48%
0-60	845.07	80.23%	80.23%
0-90	1050.38	99.72%	99.72%
0-120	1051.36	99.81%	99.81%
0-180	1053.36	100.00%	100.00%
60-90	284.13	26.97%	26.97%
90-120	4.22	0.40%	0.40%
90-130	4.68	0.44%	0.44%
90-150	5.57	0.53%	0.53%
90-180	6.20	0.59%	0.59%
0-59.85	842.69	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	37.40
10-20	106.24
20-30	158.67
30-40	187.31
40-50	189.27
50-60	166.18
60-70	122.92
70-80	66.74
80-90	15.66
90-100	0.28
100-110	0.31
110-120	0.39
120-130	0.46
130-140	0.46
140-150	0.42
150-160	0.36
160-170	0.22
170-180	0.06

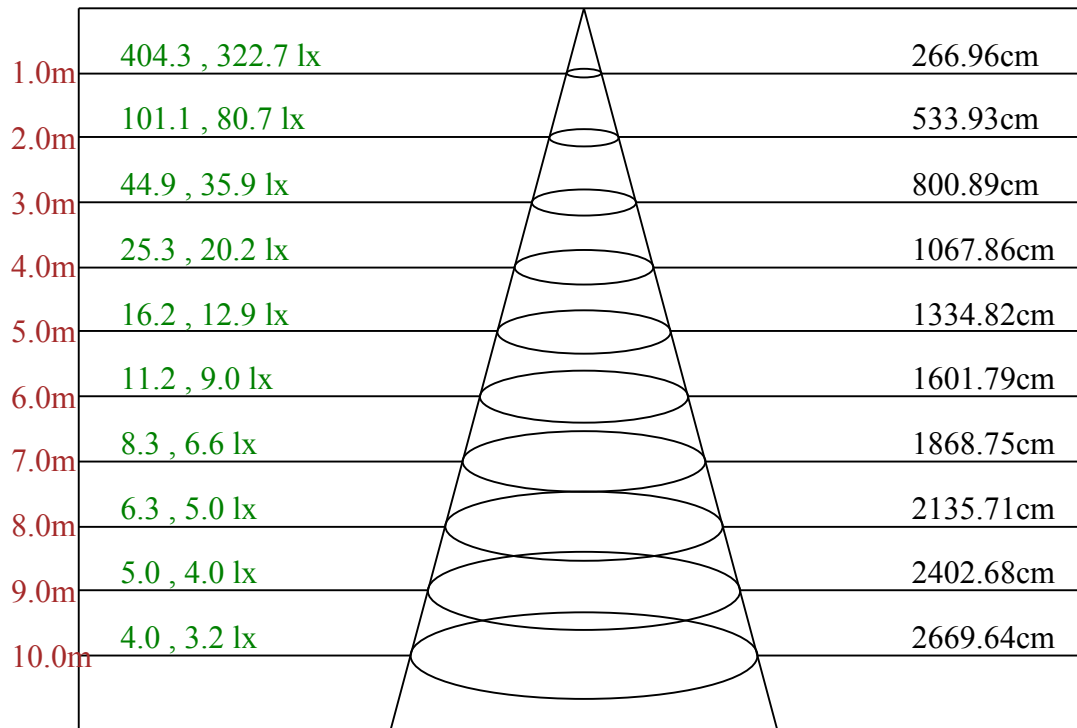


C0/C180: —

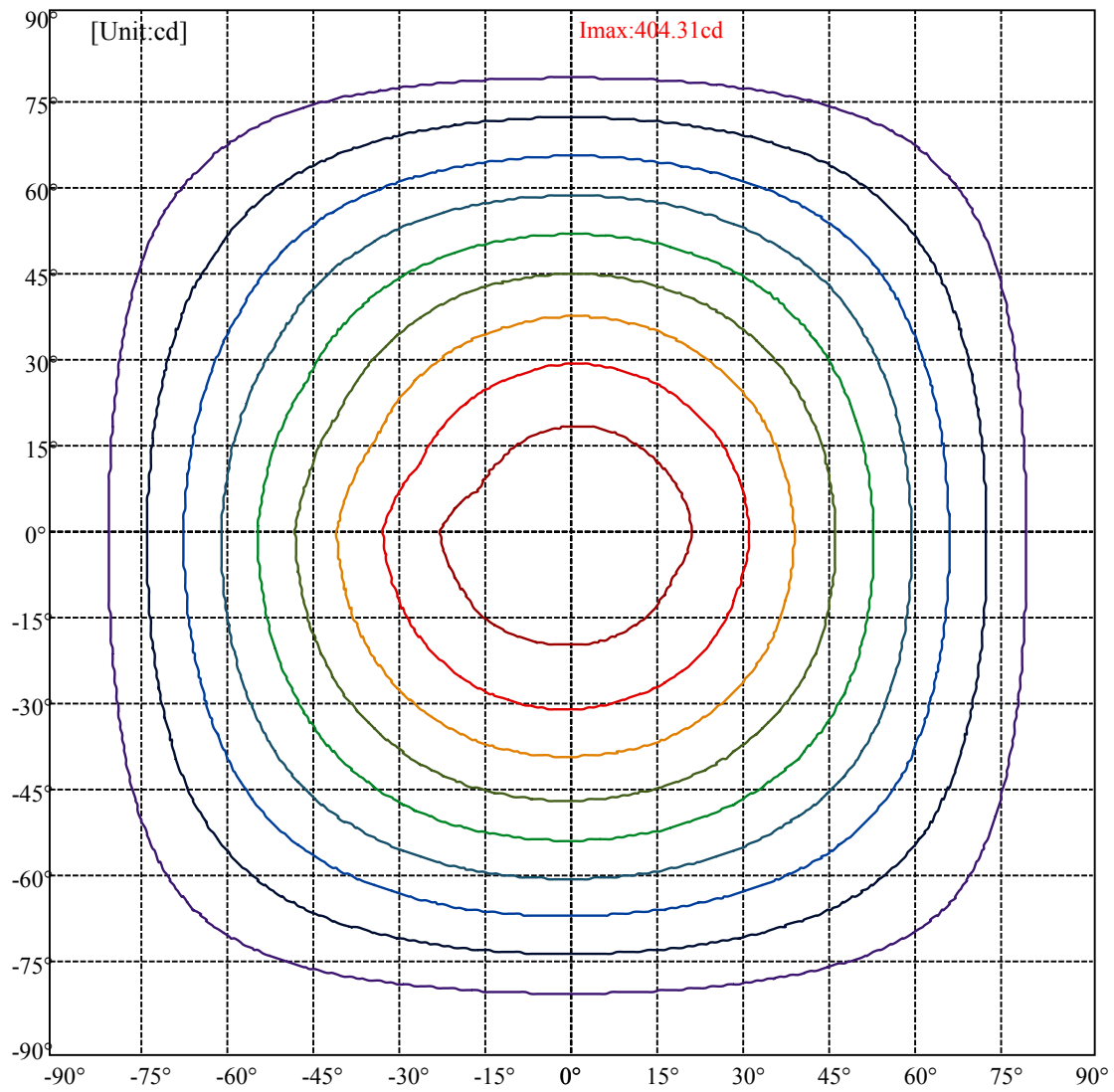
C90/C270: —

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) 40.4099	—
(20%Imax) 80.8199	—
(30%Imax) 121.23	—
(40%Imax) 161.64	—
(50%Imax) 202.05	—
(60%Imax) 242.46	—
(70%Imax) 282.87	—
(80%Imax) 323.28	—
(90%Imax) 363.689	—

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	404.31	401.81	395.13	383.46	366.98	348.43	326.74	301.51	273.99
22.5	399.93	396.38	389.50	378.45	363.02	344.46	322.99	297.55	270.65
45.0	397.22	394.30	386.38	375.32	359.27	341.13	319.44	295.05	267.11
67.5	395.13	392.63	384.92	374.49	359.27	340.92	319.03	294.63	267.73
90.0	395.55	392.42	384.50	372.41	358.64	340.71	318.61	293.38	268.57
112.5	392.84	390.55	382.62	371.78	356.98	337.17	316.32	292.34	265.65
135.0	392.21	388.67	382.00	370.53	355.31	337.17	315.48	291.71	265.23
157.5	392.21	388.67	382.21	370.95	356.77	337.58	316.52	292.13	266.27
180.0	404.31	403.27	396.18	386.17	373.24	355.31	335.29	310.69	284.83
202.5	399.93	398.68	392.84	381.79	368.24	351.55	331.33	307.14	281.70
225.0	397.22	395.76	389.92	380.12	366.57	348.84	327.78	306.10	278.78
247.5	395.13	394.51	388.88	378.45	363.65	347.38	327.16	304.22	277.95
270.0	395.55	393.47	387.84	377.20	362.19	346.55	326.12	302.14	276.07
292.5	392.84	391.59	385.96	375.95	362.40	345.51	324.24	301.09	276.70
315.0	392.21	390.96	384.92	375.53	361.98	344.46	324.66	301.30	275.24
337.5	392.21	391.17	385.54	375.53	361.56	345.09	324.45	300.89	276.28
360.0	404.31	401.81	395.13	383.46	366.98	348.43	326.74	301.51	273.99
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	245.63	214.56	184.12	152.42	121.56	89.87	59.64	31.07	8.76
22.5	241.88	211.64	181.20	150.76	119.69	87.78	58.18	30.86	8.97
45.0	239.79	210.18	179.32	148.88	118.85	87.99	57.76	30.23	9.38
67.5	238.54	209.14	179.74	149.09	118.64	88.62	58.38	30.65	9.38
90.0	239.17	209.77	179.11	148.88	119.90	89.24	58.80	29.82	9.38
112.5	238.12	208.51	178.91	148.67	118.23	88.41	58.59	30.65	10.01
135.0	236.87	208.10	178.49	148.46	117.60	87.37	58.59	31.28	9.80
157.5	237.50	208.10	178.28	149.09	118.23	87.99	58.38	31.49	10.01
180.0	257.51	228.11	196.21	163.89	132.82	100.92	69.23	38.78	14.60
202.5	253.97	224.15	193.08	163.48	131.16	99.25	68.81	38.78	14.18
225.0	251.05	222.07	192.25	161.18	129.07	98.42	67.35	37.95	13.97
247.5	251.05	222.07	191.83	160.56	129.49	97.79	66.72	37.32	13.76
270.0	250.01	221.65	191.21	160.76	128.86	97.58	67.56	37.95	13.14
292.5	248.97	219.36	190.58	159.10	127.61	96.33	66.72	37.12	12.93
315.0	247.51	218.52	189.54	158.26	126.78	96.33	65.47	36.28	12.72
337.5	248.76	219.77	189.33	159.10	128.03	96.13	65.27	37.12	12.93
360.0	245.63	214.56	184.12	152.42	121.56	89.87	59.64	31.07	8.76
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.21	0.21	0.21	0.42	0.63	0.42	0.83	0.63
22.5	0.21	0.21	0.21	0.42	0.83	0.42	0.63	0.83	0.83
45.0	0.42	0.42	0.63	0.63	0.63	0.42	0.63	0.63	0.63
67.5	0.42	0.42	0.42	0.42	0.63	0.63	0.42	0.83	0.83
90.0	0.63	0.42	0.63	0.42	0.63	0.63	0.63	0.63	0.83
112.5	0.42	0.42	0.42	0.42	0.63	0.83	0.63	0.83	0.63
135.0	0.63	0.42	0.42	0.63	0.42	0.63	0.83	0.63	0.83
157.5	0.63	0.63	0.42	0.42	0.42	0.63	0.63	0.63	0.63
180.0	0.21	0.00	0.00	0.00	0.21	0.21	0.42	0.21	0.21
202.5	0.21	0.00	0.00	0.21	0.00	0.00	0.21	0.21	0.63
225.0	0.42	0.21	0.21	0.00	0.21	0.00	0.42	0.21	0.42
247.5	0.21	0.00	0.21	0.21	0.21	0.21	0.42	0.42	0.42
270.0	0.21	0.00	0.00	0.21	0.00	0.21	0.21	0.21	0.63
292.5	0.21	0.21	0.21	0.00	0.21	0.42	0.42	0.42	0.42
315.0	0.00	0.00	0.00	0.21	0.21	0.21	0.42	0.21	0.42
337.5	0.00	0.00	0.00	0.21	0.21	0.00	0.00	0.42	0.63
360.0	0.42	0.21	0.21	0.21	0.42	0.63	0.42	0.83	0.63

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	0.42	0.63	0.83	0.83	0.63	0.63	0.63	0.63	0.63
22.5	0.63	0.63	0.83	0.63	1.04	0.83	0.83	0.83	0.83
45.0	0.63	0.63	0.83	0.83	0.83	0.83	1.04	0.83	0.83
67.5	0.63	0.83	0.83	1.04	0.83	1.04	0.63	0.83	1.04
90.0	0.83	0.63	0.83	1.04	0.83	1.04	0.83	1.04	0.83
112.5	0.83	0.83	0.83	0.63	0.83	0.83	0.83	1.04	1.04
135.0	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
157.5	0.83	0.83	0.63	0.83	0.83	0.83	0.83	0.83	0.83
180.0	0.83	0.42	0.63	0.63	0.63	0.83	0.83	0.63	0.83
202.5	0.63	0.42	0.83	0.83	0.83	0.63	0.63	0.83	0.83
225.0	0.42	0.42	0.42	0.42	0.83	0.63	0.63	0.83	0.63
247.5	0.42	0.42	0.63	0.63	0.83	0.83	0.63	0.83	0.63
270.0	0.42	0.42	0.63	0.63	0.83	0.63	0.63	0.83	0.63
292.5	0.42	0.42	0.63	0.63	0.83	0.83	0.63	0.83	0.83
315.0	0.42	0.42	0.63	0.63	0.63	0.83	0.63	0.63	0.63
337.5	0.42	0.42	0.42	0.63	0.63	0.83	0.83	0.63	0.83
360.0	0.42	0.63	0.83	0.83	0.63	0.63	0.63	0.63	0.63
C/γ(°)	180.0								
0.0	0.42								
22.5	0.83								
45.0	0.83								
67.5	0.83								
90.0	1.04								
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