



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: LSG3-30K-15D

Luminaire:

Report No:

Voltage(V): 120.16

Test No:

Current(A): 0.0613

LampCAT:

Power (W): 7.1760

Lamp flux(lm): 548.1

PF: 0.9748

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

---

### Photometric Results

Lumens(lm): 548.11

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 76.38

Central intensity(cd): 2352.908

Maximum intensity(cd): 2352.908

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

Beam Angle(50%Imax): [C0/180]Total=18.5

[C90/270]Total=19.7

Field angle(10%Imax): [C0/180]Total=39.2

[C90/270]Total=40.5

Maximum s/h(1/2): C0\_180=0.34 C90\_270=0.28

Maximum s/h(1/4): C0\_180=0.49 C90\_270=0.28

Up flux rate of lamp(%): 0.23%

Down flux rate of lamp(%): 99.77%

Up flux rate of LUM(%): 0.23%

Down flux rate of LUM(%): 99.77%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 92.464%

---

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

Date:  
Humidity(%): 58%

Operator: Zac

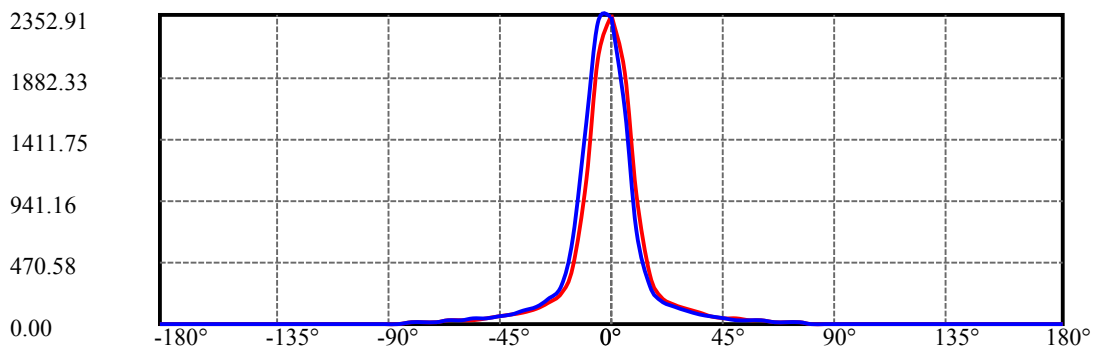
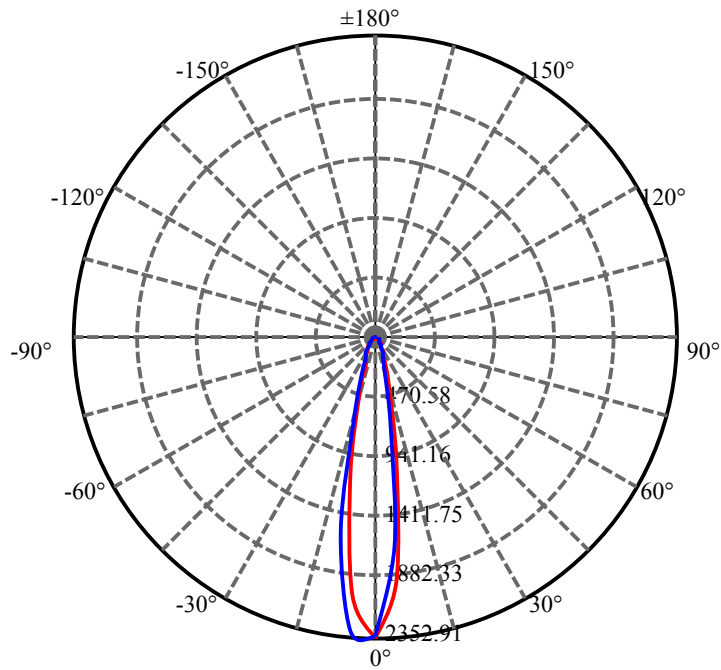
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2336.906	.000	.000	.000%	.000%
5.0	1960.438	51.374	51.374	9.373%	9.373%
10.0	1073.565	108.536	159.909	19.802%	29.175%
15.0	438.836	89.715	249.624	16.368%	45.543%
20.0	228.170	54.971	304.595	10.029%	55.572%
25.0	155.945	40.287	344.881	7.350%	62.922%
30.0	115.123	34.304	379.185	6.259%	69.180%
35.0	86.233	29.651	408.836	5.410%	74.590%
40.0	66.545	25.490	434.326	4.650%	79.240%
45.0	52.592	22.059	456.385	4.025%	83.265%
50.0	42.270	19.168	475.553	3.497%	86.762%
55.0	34.542	16.701	492.254	3.047%	89.809%
60.0	28.398	14.548	506.803	2.654%	92.464%
65.0	23.046	12.506	519.309	2.282%	94.745%
70.0	18.213	10.447	529.756	1.906%	96.651%
75.0	12.943	8.144	537.900	1.486%	98.137%
80.0	7.564	5.487	543.387	1.001%	99.138%
85.0	2.485	2.730	546.117	.498%	99.636%
90.0	.164	.725	546.843	.132%	99.769%
95.0	.082	.067	546.910	.012%	99.781%
100.0	.082	.044	546.954	.008%	99.789%
105.0	.082	.044	546.998	.008%	99.797%
110.0	.109	.050	547.048	.009%	99.806%
115.0	.109	.055	547.103	.010%	99.816%
120.0	.136	.060	547.163	.011%	99.827%
125.0	.109	.057	547.219	.010%	99.837%
130.0	.137	.053	547.273	.010%	99.847%
135.0	.136	.055	547.328	.010%	99.857%
140.0	.218	.066	547.394	.012%	99.869%
145.0	.355	.096	547.489	.017%	99.887%
150.0	.382	.108	547.598	.020%	99.906%
155.0	.519	.114	547.712	.021%	99.927%
160.0	.683	.126	547.838	.023%	99.950%
165.0	.710	.115	547.952	.021%	99.971%
170.0	.792	.089	548.042	.016%	99.987%
175.0	.655	.052	548.093	.009%	99.997%
180.0	.819	.018	548.111	.003%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	379.18	69.18%	69.18%
0-40	434.33	79.24%	79.24%
0-60	506.80	92.46%	92.46%
0-90	546.84	99.77%	99.77%
0-120	547.16	99.83%	99.83%
0-180	548.11	100.00%	100.00%
60-90	54.59	9.96%	9.96%
90-120	1.05	0.19%	0.19%
90-130	1.16	0.21%	0.21%
90-150	1.48	0.27%	0.27%
90-180	1.98	0.36%	0.36%
0-40.94	438.49	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	159.91
10-20	144.69
20-30	74.59
30-40	55.14
40-50	41.23
50-60	31.25
60-70	22.95
70-80	13.63
80-90	3.46
90-100	0.11
100-110	0.09
110-120	0.12
120-130	0.11
130-140	0.12
140-150	0.20
150-160	0.24
160-170	0.20
170-180	0.05



C0/C180: —

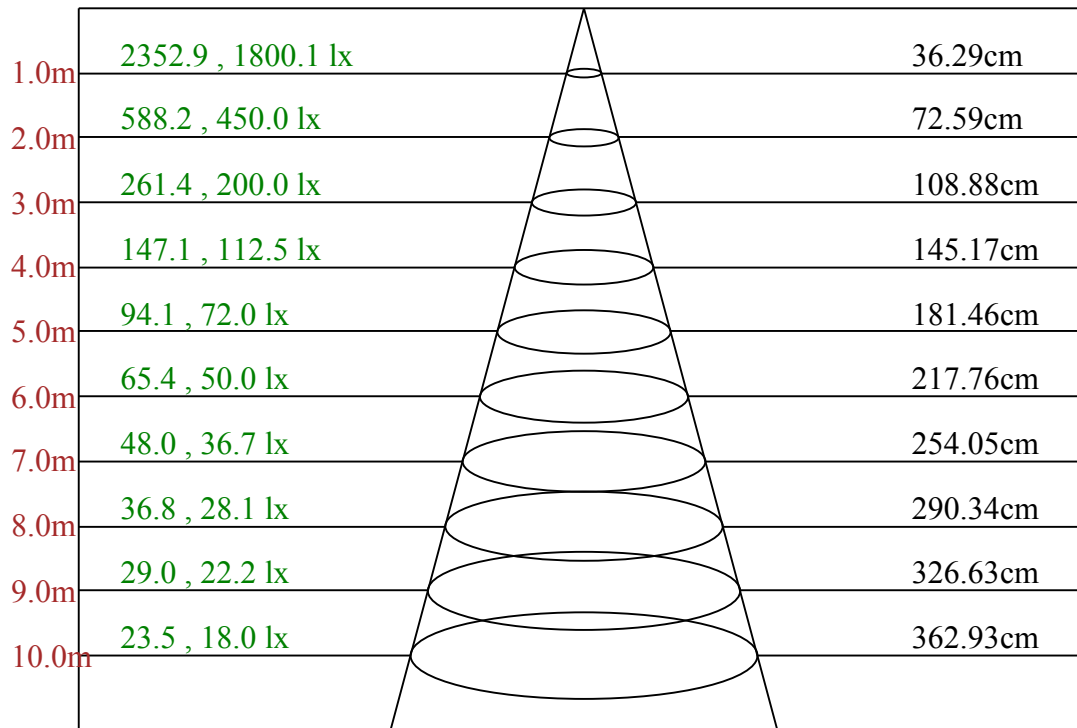
C90/C270: —

Field angle(10%Imax):C0/180Left:19.9 Right:19.3

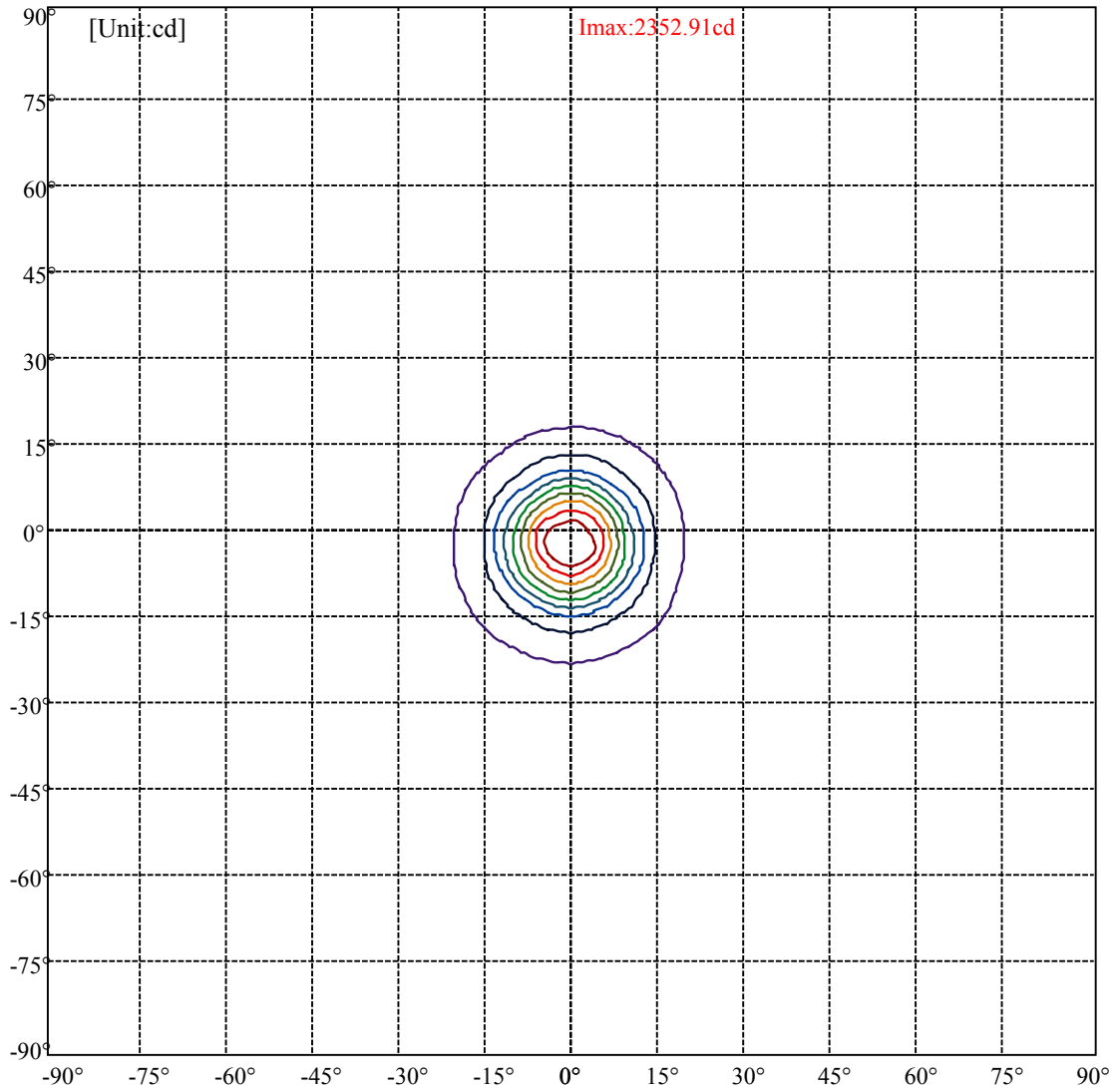
:C90/270Left:22.9 Right:17.6

Beam Angle(50%Imax):C0/180Left:9.6 Right:9.0

:C90/270Left:12.1 Right:7.6



Max , Ave      Beam angle of C0plane20.57



(10%Imax) 233.325	—
(20%Imax) 466.649	—
(30%Imax) 699.974	—
(40%Imax) 933.299	—
(50%Imax) 1166.62	—
(60%Imax) 1399.95	—
(70%Imax) 1633.27	—
(80%Imax) 1866.6	—
(90%Imax) 2099.92	—

## Intensity data(cd)

C/ $\gamma$ ( $^{\circ}$ )	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2352.91	1909.02	986.73	386.00	210.37	152.70	113.38	84.54	64.66
45.0	2345.48	1718.75	746.22	318.50	188.30	132.60	97.87	73.84	57.89
90.0	2333.25	1641.42	715.86	290.32	181.31	131.07	95.90	72.09	56.80
135.0	2315.99	1692.98	758.23	302.77	179.13	125.83	94.37	72.09	58.33
180.0	2352.91	2013.66	1096.39	436.24	231.99	161.43	121.02	92.40	71.00
225.0	2345.48	2208.51	1399.60	577.36	272.41	181.09	132.38	96.99	72.96
270.0	2333.25	2297.86	1534.16	653.82	297.53	186.34	135.22	100.71	77.55
315.0	2315.99	2201.30	1351.32	545.68	264.32	176.51	130.85	97.21	73.18
360.0	2352.91	1909.02	986.73	386.00	210.37	152.70	113.38	84.54	64.66
C/ $\gamma$ ( $^{\circ}$ )	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	50.68	40.20	32.55	26.43	21.85	17.91	12.45	6.99	2.18
45.0	46.09	37.36	30.58	24.90	19.88	15.51	10.92	6.12	1.09
90.0	45.00	36.48	30.36	25.56	20.32	15.29	10.49	5.46	1.09
135.0	47.19	39.10	32.11	26.65	21.19	16.38	10.92	5.90	1.31
180.0	55.49	43.91	36.04	29.27	23.81	19.01	13.54	8.08	1.97
225.0	57.67	46.31	38.01	31.24	25.56	20.53	14.85	8.96	3.93
270.0	61.17	48.50	39.10	32.11	26.43	20.97	15.51	9.83	4.37
315.0	57.45	46.31	37.57	31.02	25.34	20.10	14.85	9.18	3.93
360.0	50.68	40.20	32.55	26.43	21.85	17.91	12.45	6.99	2.18
C/ $\gamma$ ( $^{\circ}$ )	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.22	0.00	0.00	0.44	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.22	0.00	0.44	0.22	0.22	0.22
90.0	0.00	0.22	0.22	0.22	0.22	0.44	0.44	0.22	0.44
135.0	0.22	0.22	0.44	0.22	0.22	0.00	0.22	0.22	0.44
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
270.0	0.66	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00
315.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.22	0.00	0.00	0.44	0.00	0.00	0.00	0.00
C/ $\gamma$ ( $^{\circ}$ )	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.22	0.00	0.22	0.22	0.44	0.44	0.44	0.44	0.44
45.0	0.22	0.44	0.44	0.66	0.87	0.66	0.87	0.87	0.66
90.0	0.22	0.44	0.66	0.66	0.66	1.09	0.87	0.87	0.66
135.0	0.22	0.44	0.66	0.66	0.66	0.87	0.87	1.09	0.87
180.0	0.00	0.22	0.22	0.22	0.44	0.44	0.66	0.66	0.66
225.0	0.00	0.00	0.22	0.44	0.66	0.44	0.66	0.66	0.66
270.0	0.22	0.00	0.22	0.00	0.00	0.66	0.66	0.87	0.44
315.0	0.00	0.22	0.22	0.22	0.44	0.87	0.66	0.87	0.87
360.0	0.22	0.00	0.22	0.22	0.44	0.44	0.44	0.44	0.44
C/ $\gamma$ ( $^{\circ}$ )	180.0								
0.0	0.66								
45.0	1.09								
90.0	0.87								
135.0	0.66								
180.0	0.66								
225.0	1.09								
270.0	0.87								
315.0	0.66								
360.0	0.66								