



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

LumCAT: LD3S-5SSL-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.11

LampCAT:

Current(A): 0.1250

Lamp flux(lm): -1.0

Power (W): 14.84

Number of Lamps: 1

PF: 0.9844

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1295.47, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 87.30

Central intensity(cd): 432.149, Maximum intensity(cd): 2130.818

Angle of maximum intensity: C=0.0  $\gamma$ =30.0

Beam Angle(50%Imax): [C0/180]Total=58.3

[C90/270]Total=50.7

Field angle(10%Imax): [C0/180]Total=69.2

[C90/270]Total=124.5

Maximum s/h(1/2): C0\_180=0.33 C90\_270=0.80

Maximum s/h(1/4): C0\_180=0.71 C90\_270=0.90

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.39%

Down flux rate of LUM(%): 99.61%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 94.328%

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

Date:  
Humidity(%): 59%

Operator: Tester

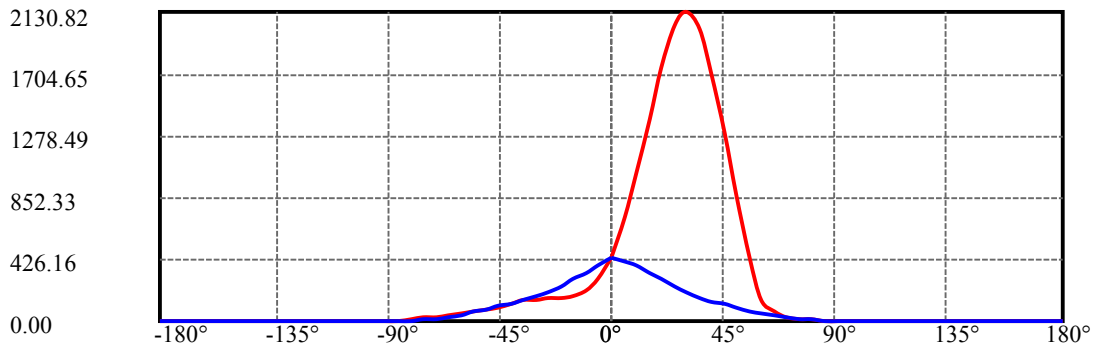
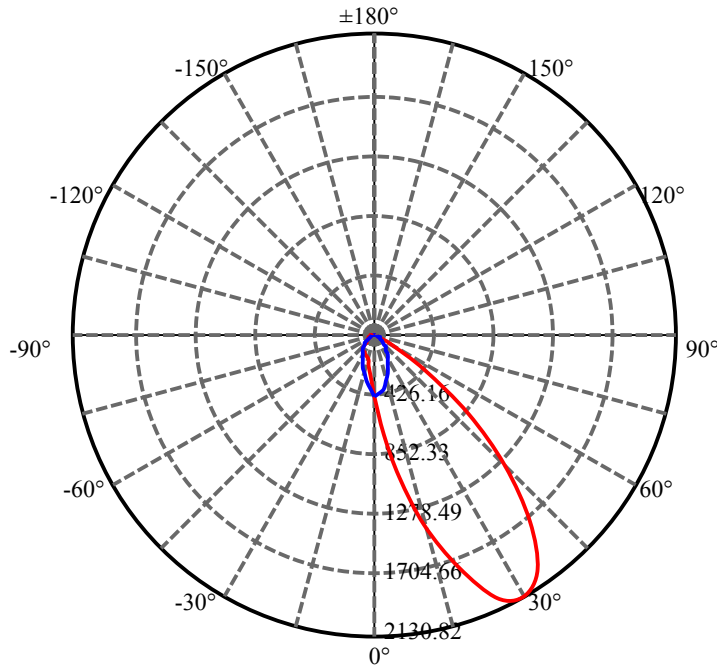
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	432.149	0.000	0	0.00%	0.00%
5.0	452.553	10.576	10.576	0.00%	0.82%
10.0	497.874	34.000	44.576	0.00%	3.44%
15.0	549.538	62.132	106.708	0.00%	8.24%
20.0	595.599	94.375	201.083	0.00%	15.52%
25.0	619.277	127.418	328.501	0.00%	25.36%
30.0	603.263	154.714	483.215	0.00%	37.30%
35.0	551.705	170.077	653.292	0.00%	50.43%
40.0	469.677	170.410	823.702	0.00%	63.58%
45.0	352.582	152.248	975.95	0.00%	75.34%
50.0	233.425	118.411	1094.361	0.00%	84.48%
55.0	134.880	80.082	1174.443	0.00%	90.66%
60.0	70.823	47.548	1221.991	0.00%	94.33%
65.0	44.212	27.965	1249.956	0.00%	96.49%
70.0	27.298	18.107	1268.063	0.00%	97.88%
75.0	15.539	11.197	1279.26	0.00%	98.75%
80.0	8.562	6.449	1285.708	0.00%	99.25%
85.0	3.805	3.361	1289.069	0.00%	99.51%
90.0	1.004	1.317	1290.386	0.00%	99.61%
95.0	0.476	0.405	1290.791	0.00%	99.64%
100.0	0.423	0.244	1291.035	0.00%	99.66%
105.0	0.370	0.212	1291.247	0.00%	99.67%
110.0	0.449	0.214	1291.461	0.00%	99.69%
115.0	0.608	0.268	1291.729	0.00%	99.71%
120.0	0.661	0.308	1292.037	0.00%	99.74%
125.0	0.925	0.366	1292.403	0.00%	99.76%
130.0	0.899	0.396	1292.8	0.00%	99.79%
135.0	1.004	0.384	1293.184	0.00%	99.82%
140.0	1.163	0.401	1293.586	0.00%	99.85%
145.0	1.242	0.401	1293.987	0.00%	99.89%
150.0	1.216	0.362	1294.349	0.00%	99.91%
155.0	1.401	0.331	1294.68	0.00%	99.94%
160.0	1.321	0.285	1294.965	0.00%	99.96%
165.0	1.295	0.216	1295.181	0.00%	99.98%
170.0	1.374	0.158	1295.339	0.00%	99.99%
175.0	1.374	0.098	1295.438	0.00%	100.00%
180.0	1.315	0.032	1295.47	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	483.21	N.A.	37.30%
0-40	823.70	N.A.	63.58%
0-60	1221.99	N.A.	94.33%
0-90	1290.39	N.A.	99.61%
0-120	1292.04	N.A.	99.74%
0-180	1295.47	N.A.	100.00%
60-90	68.40	N.A.	5.28%
90-120	1.65	N.A.	0.13%
90-130	2.41	N.A.	0.19%
90-150	3.96	N.A.	0.31%
90-180	5.05	N.A.	0.39%
0-47.55	1036.38	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	44.58
10-20	156.51
20-30	282.13
30-40	340.49
40-50	270.66
50-60	127.63
60-70	46.07
70-80	17.65
80-90	4.68
90-100	0.65
100-110	0.43
110-120	0.58
120-130	0.76
130-140	0.79
140-150	0.76
150-160	0.62
160-170	0.37
170-180	0.10

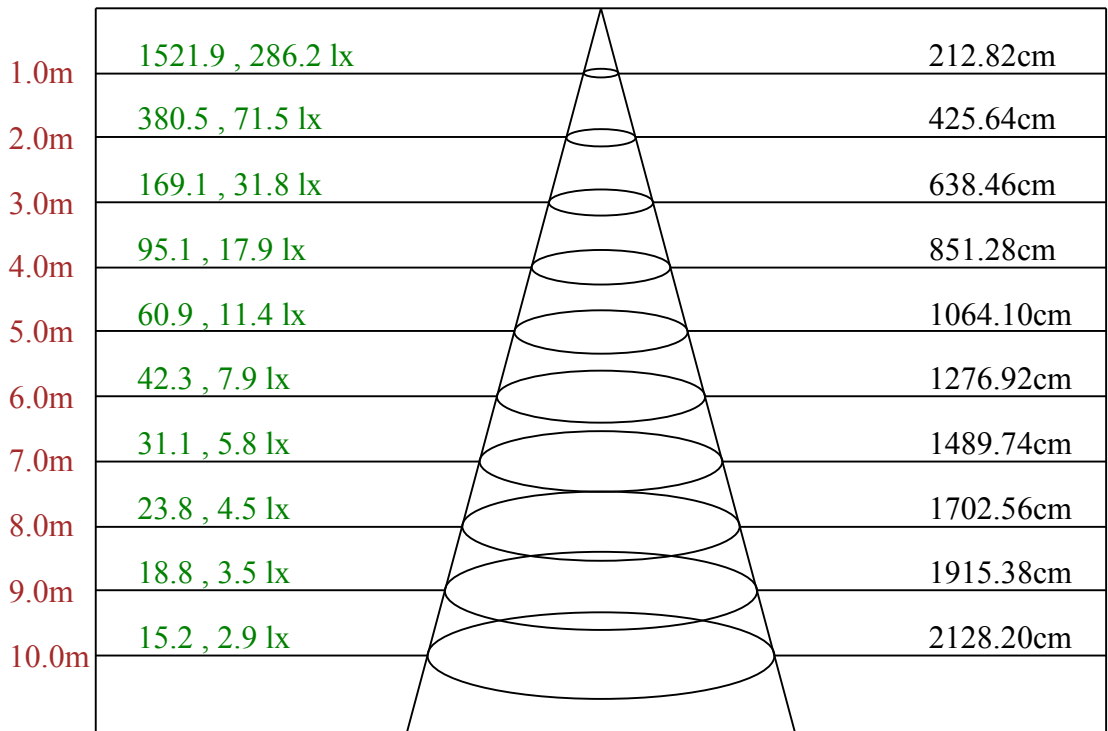


C0/C180: —

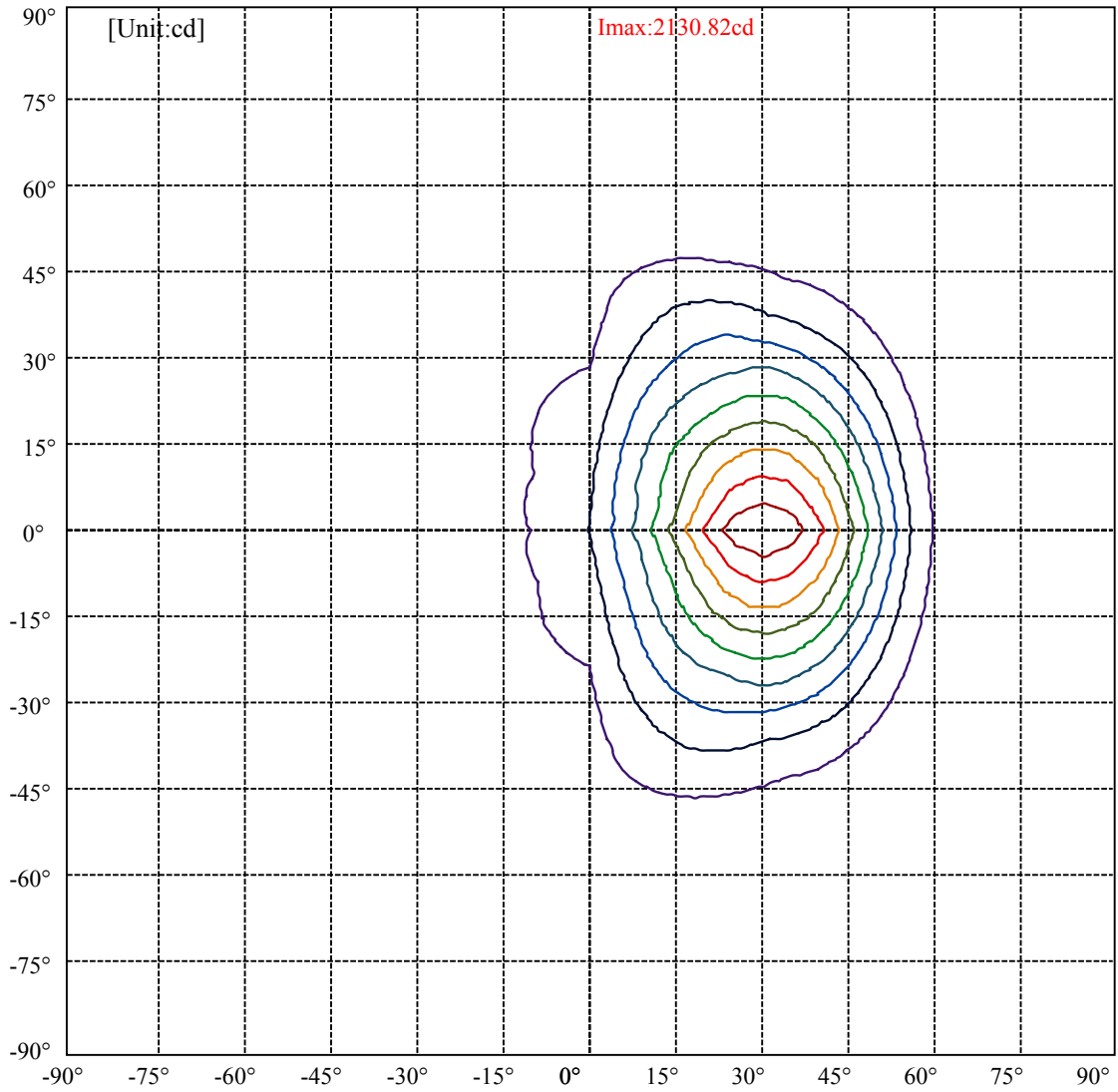
C90/C270: —

Field angle(10%Imax):C0/180Left:10.3 Right:58.9  
:C90/270Left:60.9 Right:63.6

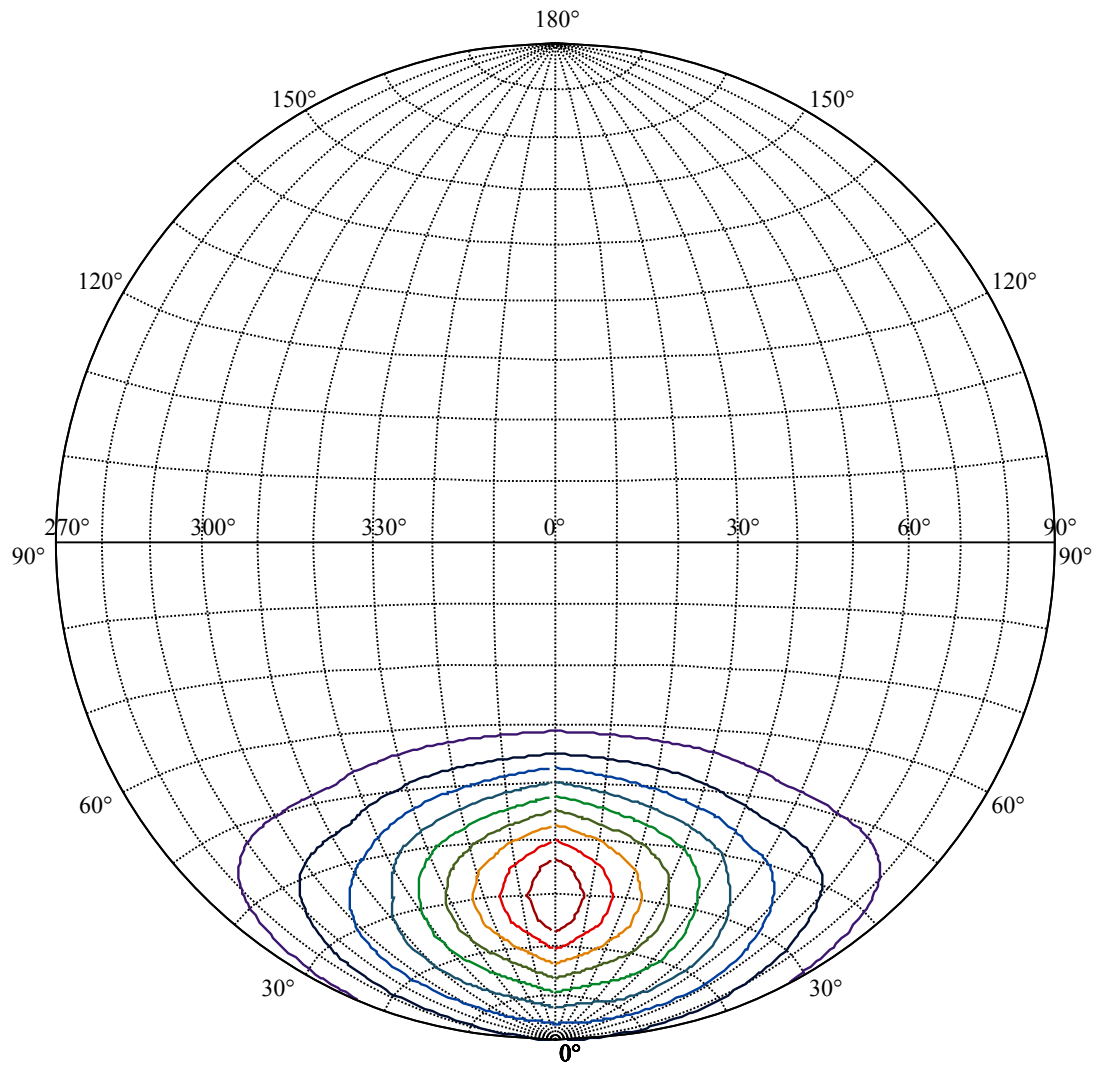
Beam Angle(50%Imax):C0/180Left:10.6 Right:47.7  
:C90/270Left:23.1 Right:27.6



Max , Ave      Beam angle of C0 plane 93.56



(10%I <sub>max</sub> ) 213.082	—
(20%I <sub>max</sub> ) 426.164	—
(30%I <sub>max</sub> ) 639.245	—
(40%I <sub>max</sub> ) 852.327	—
(50%I <sub>max</sub> ) 1065.41	—
(60%I <sub>max</sub> ) 1278.49	—
(70%I <sub>max</sub> ) 1491.57	—
(80%I <sub>max</sub> ) 1704.65	—
(90%I <sub>max</sub> ) 1917.74	—



House

[Unit:cd]

Road

**Imax:2130.82**

(10%Imax) 213.082	—
(20%Imax) 426.164	—
(30%Imax) 639.245	—
(40%Imax) 852.327	—
(50%Imax) 1065.41	—
(60%Imax) 1278.49	—
(70%Imax) 1491.57	—
(80%Imax) 1704.65	—
(90%Imax) 1917.74	—

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	432.15	713.73	1022.81	1386.86	1751.76	2044.35	2130.82	2015.81	1712.86
45.0	432.15	617.11	809.71	962.13	1039.30	1036.13	968.48	869.33	736.35
90.0	432.15	409.29	382.87	336.14	287.10	238.47	196.19	162.15	136.36
135.0	432.15	313.10	246.51	200.21	172.72	158.35	149.89	144.18	136.36
180.0	432.15	284.56	215.22	177.37	159.62	152.22	147.78	139.11	119.87
225.0	432.15	304.86	236.36	191.96	168.92	154.54	147.14	140.59	131.50
270.0	432.15	377.79	332.55	284.77	239.95	200.84	168.07	144.39	125.16
315.0	432.15	599.99	736.98	856.85	945.43	969.32	917.74	798.08	658.97
360.0	432.15	713.73	1022.81	1386.86	1751.76	2044.35	2130.82	2015.81	1712.86
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1301.45	868.90	433.18	148.83	64.06	30.02	13.11	6.98	3.17
45.0	504.01	277.58	160.88	85.83	51.16	28.96	13.11	7.40	5.07
90.0	117.76	95.35	72.51	54.54	38.90	24.95	15.43	8.88	4.23
135.0	122.83	104.23	73.99	53.06	40.80	30.02	19.87	11.63	5.29
180.0	94.92	77.38	64.90	54.33	43.55	31.92	21.56	10.99	3.81
225.0	119.66	98.52	66.81	48.41	37.63	27.06	18.60	10.36	4.23
270.0	104.86	80.34	61.31	45.88	31.08	19.03	11.63	6.13	2.33
315.0	455.17	265.11	145.45	75.69	46.51	26.43	10.99	6.13	2.33
360.0	1301.45	868.90	433.18	148.83	64.06	30.02	13.11	6.98	3.17
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.27	0.63	0.63	0.42	0.42	0.63	0.42	0.85	0.85
45.0	2.54	0.42	0.63	0.42	0.42	0.63	0.63	0.63	0.85
90.0	1.06	0.42	0.00	0.21	0.42	0.42	0.42	0.63	0.42
135.0	0.63	0.21	0.00	0.21	0.21	0.42	0.42	0.63	0.63
180.0	0.21	0.00	0.42	0.00	0.21	0.63	0.85	1.27	1.48
225.0	0.42	0.21	0.21	0.21	0.21	0.42	0.63	0.85	1.06
270.0	1.06	1.27	1.06	0.85	1.06	1.06	1.27	1.69	1.27
315.0	0.85	0.63	0.42	0.63	0.63	0.63	0.63	0.85	0.63
360.0	1.27	0.63	0.63	0.42	0.42	0.63	0.42	0.85	0.85
C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.63	0.85	0.85	0.85	1.06	0.85	0.85	1.06	1.06
45.0	0.63	0.85	0.85	0.85	0.85	0.85	1.06	1.27	1.48
90.0	0.85	0.63	0.63	1.06	1.06	0.85	0.85	1.06	1.27
135.0	0.85	1.06	1.06	1.06	1.06	1.27	1.06	1.27	1.06
180.0	1.69	1.90	2.11	2.11	2.11	2.11	1.69	1.48	1.48
225.0	1.27	1.69	2.11	2.11	2.33	2.11	2.33	2.11	1.90
270.0	1.06	1.48	1.48	1.06	1.69	1.69	1.48	1.48	1.69
315.0	1.06	0.85	0.85	0.63	1.06	0.85	1.06	1.27	1.06
360.0	0.63	0.85	0.85	0.85	1.06	0.85	0.85	1.06	1.06
C/ $\gamma$ (°)	180.0								
0.0	1.32								
45.0	1.32								
90.0	1.32								
135.0	1.32								
180.0	1.32								
225.0	1.32								
270.0	1.32								
315.0	1.32								
360.0	1.32								