



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

Tel:0755-21038430

Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

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Client:

LumCAT:LD4S-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1120

Lamp flux(lm): -1.0

Power (W): 13.20

Number of Lamps: 0

PF: 0.9822

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1120.80, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 84.91

Central intensity(cd): 3031.835, Maximum intensity(cd): 3105.328

Angle of maximum intensity: C=90.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.3

[C90/270]Total=35.2

Field angle(10%Imax): [C0/180]Total=51.1

[C90/270]Total=50.9

Maximum s/h(1/2): C0\_180=0.65 C90\_270=0.63

Maximum s/h(1/4): C0\_180=0.59 C90\_270=0.57

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.05%

Down flux rate of LUM(%): 99.95%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.090%

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

Date:  
Humidity(%): 59%

Operator: Tester

Zonal flux distribution table

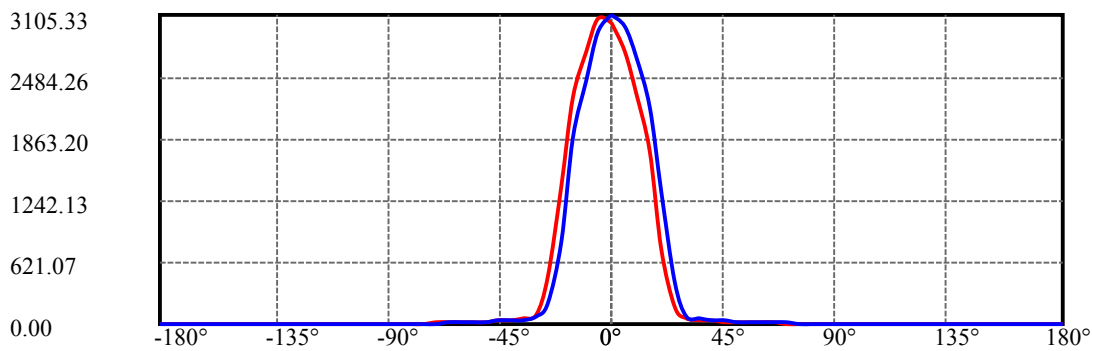
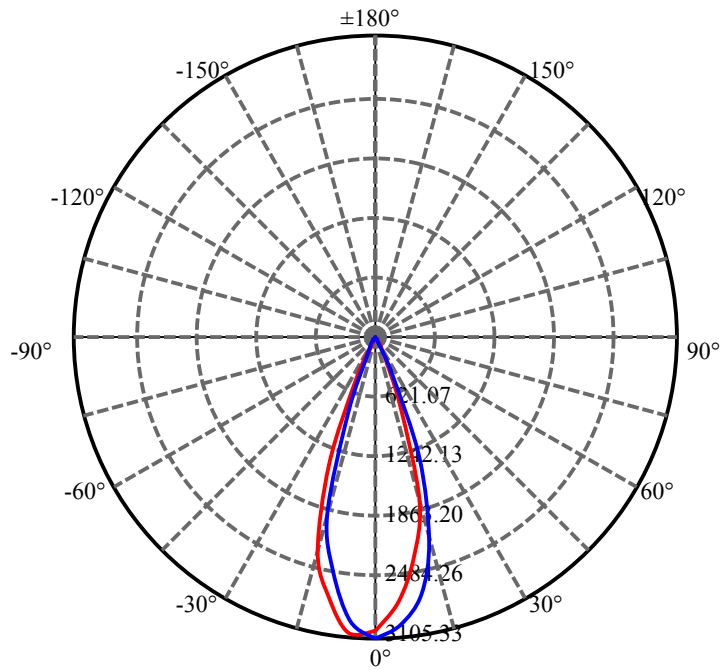
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3055.286	0.000	0	0.00%	0.00%
5.0	2904.349	71.246	71.246	0.00%	6.36%
10.0	2545.993	194.976	266.222	0.00%	23.75%
15.0	2010.240	270.273	536.494	0.00%	47.87%
20.0	1148.088	260.291	796.785	0.00%	71.09%
25.0	384.764	160.768	957.553	0.00%	85.43%
30.0	102.518	61.666	1019.219	0.00%	90.94%
35.0	54.204	23.078	1042.297	0.00%	93.00%
40.0	36.982	15.214	1057.511	0.00%	94.35%
45.0	29.313	12.275	1069.786	0.00%	95.45%
50.0	24.916	10.958	1080.743	0.00%	96.43%
55.0	20.886	9.959	1090.702	0.00%	97.31%
60.0	16.751	8.700	1099.402	0.00%	98.09%
65.0	12.798	7.183	1106.585	0.00%	98.73%
70.0	9.448	5.633	1112.218	0.00%	99.23%
75.0	6.281	4.111	1116.33	0.00%	99.60%
80.0	3.245	2.549	1118.879	0.00%	99.83%
85.0	0.969	1.145	1120.024	0.00%	99.93%
90.0	0.000	0.265	1120.289	0.00%	99.95%
95.0	0.000	0.000	1120.289	0.00%	99.95%
100.0	0.000	0.000	1120.289	0.00%	99.95%
105.0	0.000	0.000	1120.289	0.00%	99.95%
110.0	0.000	0.000	1120.289	0.00%	99.95%
115.0	0.000	0.000	1120.289	0.00%	99.95%
120.0	0.000	0.000	1120.289	0.00%	99.95%
125.0	0.000	0.000	1120.289	0.00%	99.95%
130.0	0.000	0.000	1120.289	0.00%	99.95%
135.0	0.000	0.000	1120.289	0.00%	99.95%
140.0	0.000	0.000	1120.289	0.00%	99.95%
145.0	0.052	0.009	1120.298	0.00%	99.95%
150.0	0.131	0.027	1120.325	0.00%	99.96%
155.0	0.288	0.053	1120.378	0.00%	99.96%
160.0	0.576	0.091	1120.468	0.00%	99.97%
165.0	0.864	0.119	1120.587	0.00%	99.98%
170.0	1.047	0.113	1120.7	0.00%	99.99%
175.0	1.073	0.076	1120.776	0.00%	100.00%
180.0	1.256	0.028	1120.804	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1019.22	N.A.	90.94%
0-40	1057.51	N.A.	94.35%
0-60	1099.40	N.A.	98.09%
0-90	1120.29	N.A.	99.95%
0-120	1120.29	N.A.	99.95%
0-180	1120.80	N.A.	100.00%
60-90	20.89	N.A.	1.86%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.04	N.A.	0.00%
90-180	0.49	N.A.	0.04%
0-23.11	896.64	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	266.22
10-20	530.56
20-30	222.43
30-40	38.29
40-50	23.23
50-60	18.66
60-70	12.82
70-80	6.66
80-90	1.41
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.04
150-160	0.14
160-170	0.23
170-180	0.08

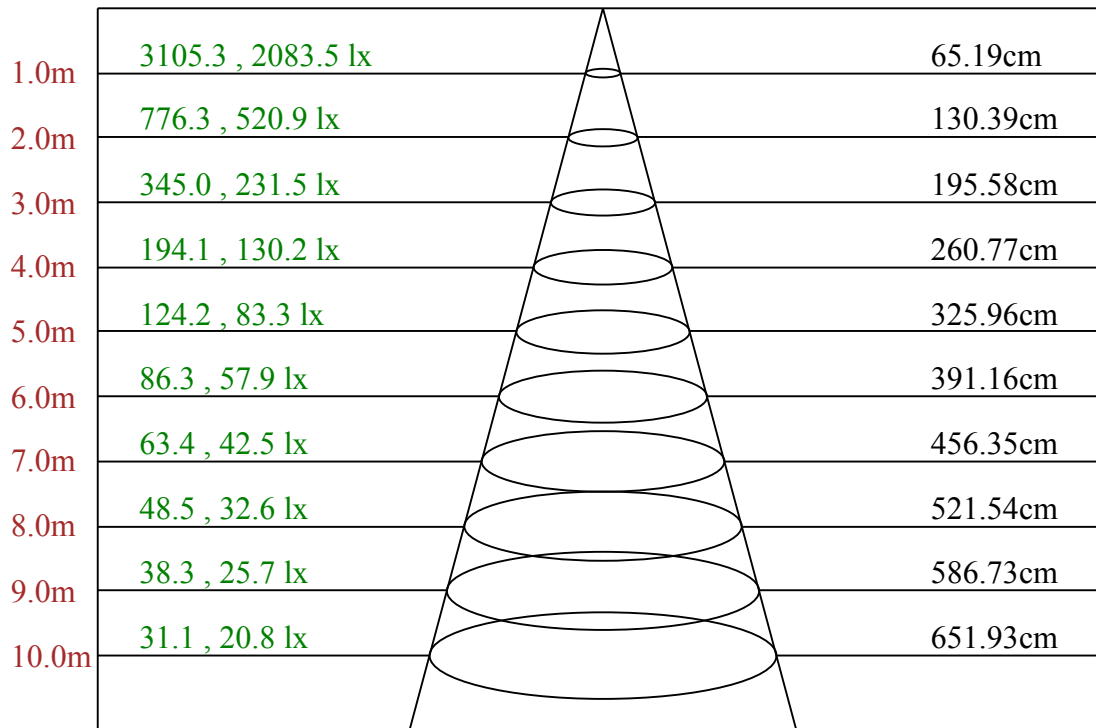


C0/C180: —

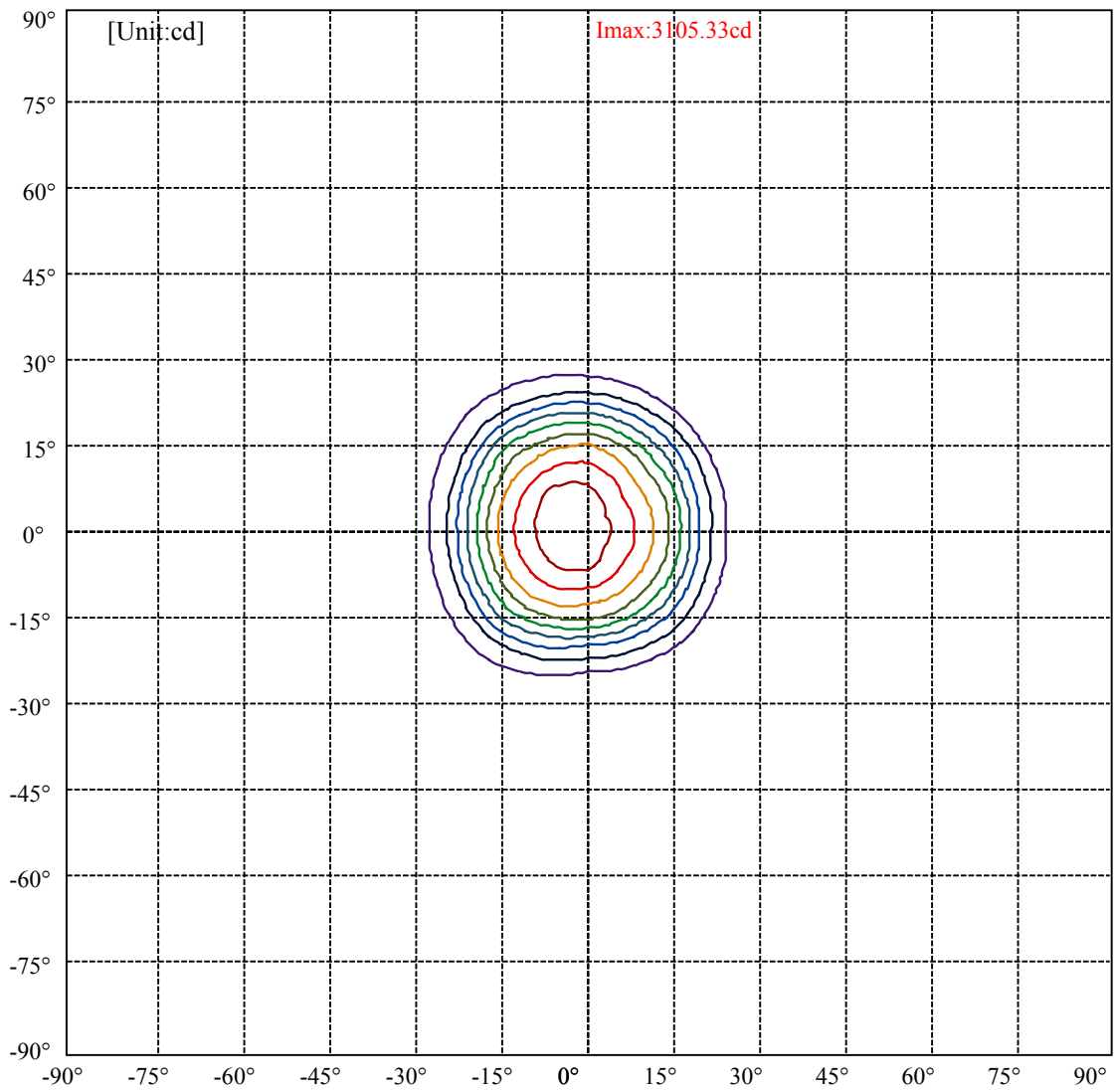
C90/C270: —

Field angle(10%Imax):C0/180Left:27.3 Right:23.8  
 :C90/270Left:24.2 Right:26.7

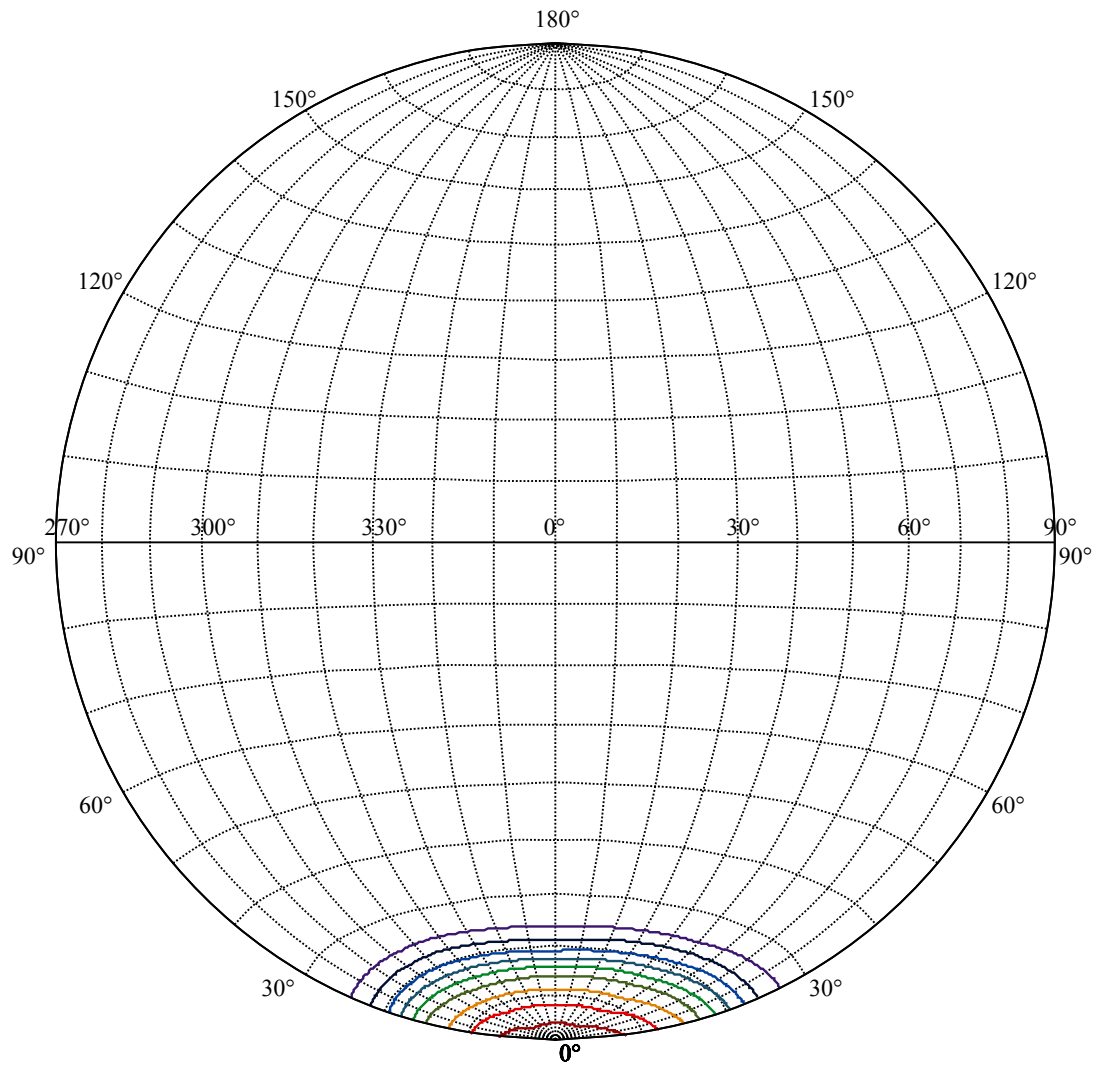
Beam Angle(50%Imax):C0/180Left:19.2 Right:16.1  
 :C90/270Left:16.5 Right:18.7



Max , Ave      Beam angle of C90 plane 36.11



(10%Imax) 310.533	—
(20%Imax) 621.066	—
(30%Imax) 931.598	—
(40%Imax) 1242.13	—
(50%Imax) 1552.66	—
(60%Imax) 1863.2	—
(70%Imax) 2173.73	—
(80%Imax) 2484.26	—
(90%Imax) 2794.8	—



House

[Unit:cd]

Road

**Imax:3105.33**

(10%Imax) 310.533	—
(20%Imax) 621.066	—
(30%Imax) 931.598	—
(40%Imax) 1242.13	—
(50%Imax) 1552.66	—
(60%Imax) 1863.2	—
(70%Imax) 2173.73	—
(80%Imax) 2484.26	—
(90%Imax) 2794.8	—

## 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	3031.84	2733.89	2311.78	1740.79	757.12	170.44	67.00	41.67	33.71
45.0	3027.65	2740.17	2359.10	1823.92	1004.40	295.86	96.32	59.67	34.55
90.0	3105.33	2982.42	2681.33	2175.26	1324.13	429.23	84.80	50.46	35.60
135.0	3056.33	3044.40	2803.40	2261.52	1583.97	674.63	185.51	70.14	45.23
180.0	3031.84	3067.22	2729.91	2285.39	1382.54	486.39	89.20	51.30	36.22
225.0	3027.65	3024.30	2674.00	2185.52	1408.92	550.88	131.91	59.88	41.46
270.0	3105.33	2935.94	2452.27	1876.68	830.41	206.24	69.93	42.50	34.34
315.0	3056.33	2706.46	2356.16	1732.84	893.22	264.45	95.48	58.00	34.76
360.0	3031.84	2733.89	2311.78	1740.79	757.12	170.44	67.00	41.67	33.71
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	28.48	24.92	20.52	16.12	11.94	8.59	5.44	2.09	0.21
45.0	28.27	23.45	19.68	15.70	11.94	8.79	5.65	2.72	0.63
90.0	29.31	26.38	22.19	17.59	13.40	10.05	7.33	3.98	1.47
135.0	30.99	24.92	20.94	17.17	13.40	10.05	6.70	3.98	1.47
180.0	29.31	25.34	21.36	17.17	13.19	9.84	6.70	3.14	1.05
225.0	29.94	24.50	20.73	16.96	13.40	10.05	7.33	3.98	1.47
270.0	29.73	25.75	21.36	16.96	12.77	9.42	5.24	3.35	0.84
315.0	28.48	24.08	20.31	16.33	12.35	8.79	5.86	2.72	0.63
360.0	28.48	24.92	20.52	16.12	11.94	8.59	5.44	2.09	0.21
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	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	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/ $\gamma$ (°)	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	0.21	0.63	1.26	1.05	1.05
45.0	0.00	0.00	0.00	0.21	0.63	0.84	0.63	1.05	1.05
90.0	0.00	0.00	0.00	0.00	0.00	0.63	0.84	1.26	1.26
135.0	0.00	0.00	0.00	0.00	0.00	0.21	0.42	0.42	0.63
180.0	0.00	0.00	0.00	0.00	0.21	0.21	0.63	1.05	1.26
225.0	0.00	0.00	0.00	0.00	0.21	0.42	0.84	0.84	0.84
270.0	0.00	0.00	0.42	0.63	0.84	1.26	1.47	1.68	1.47
315.0	0.00	0.00	0.00	0.21	0.21	0.42	0.84	1.05	1.05
360.0	0.00	0.00	0.00	0.00	0.21	0.63	1.26	1.05	1.05
C/ $\gamma$ (°)	180.0								
0.0	1.05								
45.0	1.26								
90.0	1.68								
135.0	1.05								
180.0	1.05								
225.0	1.26								
270.0	1.68								
315.0	1.05								
360.0	1.05								