



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

LumCAT:LD4R-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.1110

Lamp flux(lm): -1.0

Power (W): 13.00

Number of Lamps: 1

PF: 0.9781

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1213.29, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 93.33

Central intensity(cd): 3296.208, Maximum intensity(cd): 3296.208

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

Beam Angle(50%Imax): [C0/180]Total=35.7

[C90/270]Total=36.0

Field angle(10%Imax): [C0/180]Total=54.1

[C90/270]Total=53.5

Maximum s/h(1/2): C0\_180=0.57 C90\_270=0.64

Maximum s/h(1/4): C0\_180=0.53 C90\_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.08%

Down flux rate of LUM(%): 99.92%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.783%

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

Date:  
Humidity(%): 59%

Operator: Tester

## 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	3283.717	0.000	0	0.00%	0.00%
5.0	3088.475	76.178	76.178	0.00%	6.28%
10.0	2733.000	208.252	284.43	0.00%	23.44%
15.0	2152.168	289.785	574.215	0.00%	47.33%
20.0	1275.031	282.449	856.664	0.00%	70.61%
25.0	490.197	185.140	1041.804	0.00%	85.87%
30.0	133.902	78.980	1120.785	0.00%	92.38%
35.0	57.874	28.240	1149.025	0.00%	94.70%
40.0	33.793	15.294	1164.319	0.00%	95.96%
45.0	25.801	11.034	1175.353	0.00%	96.87%
50.0	19.530	9.160	1184.513	0.00%	97.63%
55.0	15.560	7.630	1192.143	0.00%	98.26%
60.0	12.041	6.380	1198.522	0.00%	98.78%
65.0	8.812	5.069	1203.592	0.00%	99.20%
70.0	6.139	3.786	1207.377	0.00%	99.51%
75.0	3.890	2.622	1209.999	0.00%	99.73%
80.0	1.905	1.551	1211.55	0.00%	99.86%
85.0	0.344	0.611	1212.161	0.00%	99.91%
90.0	0.000	0.094	1212.255	0.00%	99.92%
95.0	0.000	0.000	1212.255	0.00%	99.92%
100.0	0.000	0.000	1212.255	0.00%	99.92%
105.0	0.000	0.000	1212.255	0.00%	99.92%
110.0	0.000	0.000	1212.255	0.00%	99.92%
115.0	0.000	0.000	1212.255	0.00%	99.92%
120.0	0.000	0.000	1212.255	0.00%	99.92%
125.0	0.000	0.000	1212.255	0.00%	99.92%
130.0	0.000	0.000	1212.255	0.00%	99.92%
135.0	0.000	0.000	1212.255	0.00%	99.92%
140.0	0.027	0.005	1212.26	0.00%	99.92%
145.0	0.159	0.031	1212.291	0.00%	99.92%
150.0	0.450	0.090	1212.38	0.00%	99.93%
155.0	0.741	0.151	1212.531	0.00%	99.94%
160.0	1.165	0.200	1212.731	0.00%	99.95%
165.0	1.456	0.216	1212.947	0.00%	99.97%
170.0	1.588	0.181	1213.128	0.00%	99.99%
175.0	1.667	0.116	1213.244	0.00%	100.00%
180.0	1.853	0.042	1213.286	0.00%	100.00%

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

Date:  
Humidity(%): 59%

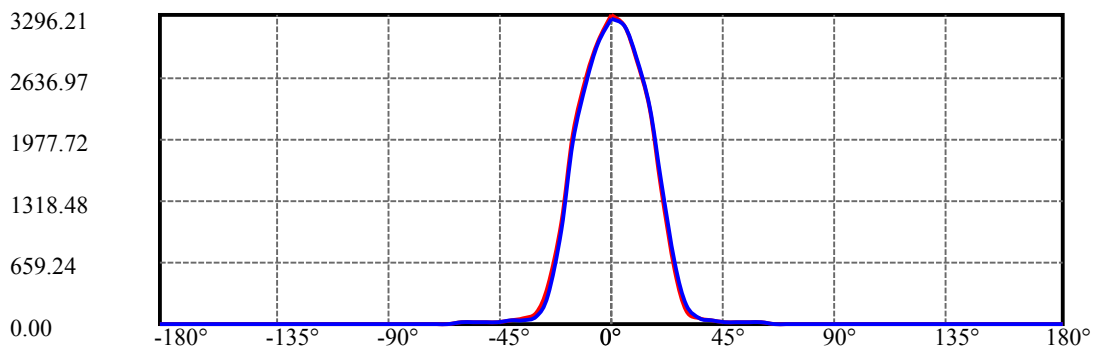
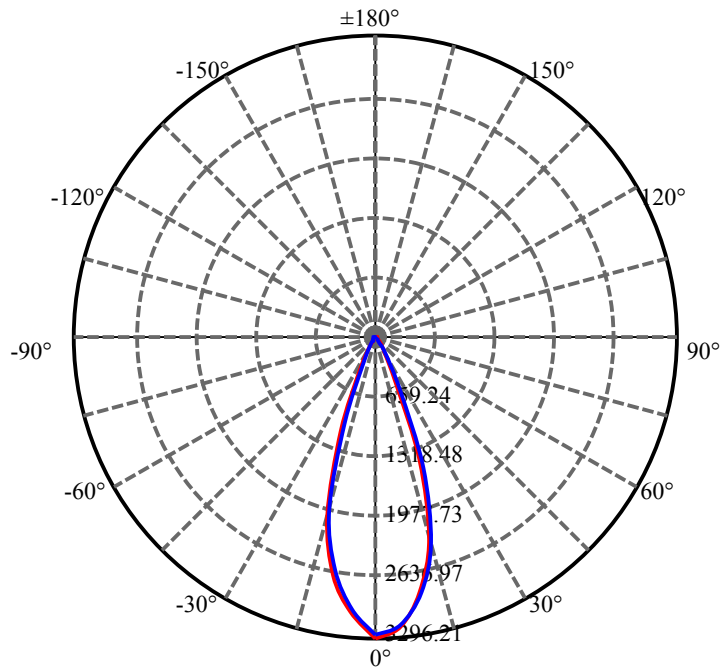
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1120.78	N.A.	92.38%
0-40	1164.32	N.A.	95.96%
0-60	1198.52	N.A.	98.78%
0-90	1212.26	N.A.	99.92%
0-120	1212.26	N.A.	99.92%
0-180	1213.29	N.A.	100.00%
60-90	13.73	N.A.	1.13%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.13	N.A.	0.01%
90-180	0.99	N.A.	0.08%
0-23.08	970.63	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	284.43
10-20	572.23
20-30	264.12
30-40	43.53
40-50	20.19
50-60	14.01
60-70	8.86
70-80	4.17
80-90	0.71
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.12
150-160	0.35
160-170	0.40
170-180	0.12



C0/C180: —

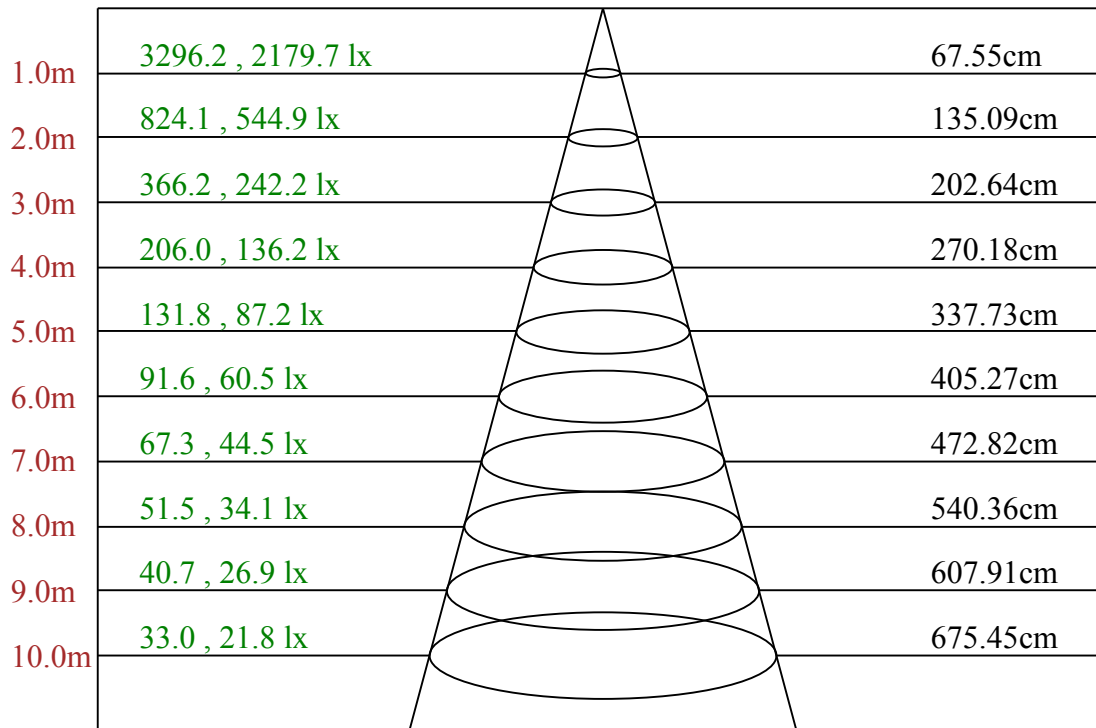
C90/C270: —

Field angle(10%Imax):C0/180Left:26.3 Right:27.8

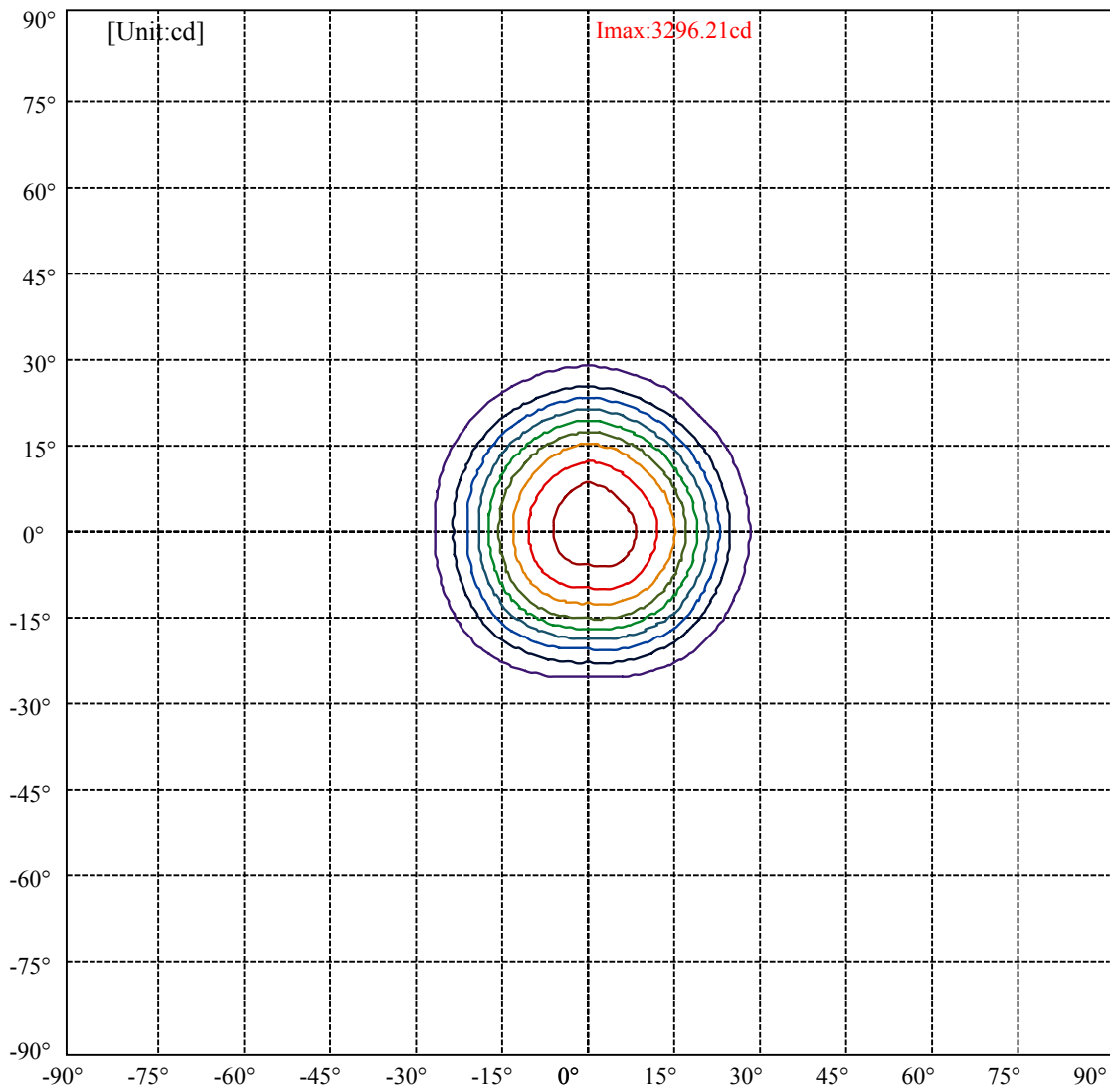
:C90/270Left:24.9 Right:28.6

Beam Angle(50%Imax):C0/180Left:17.0 Right:18.7

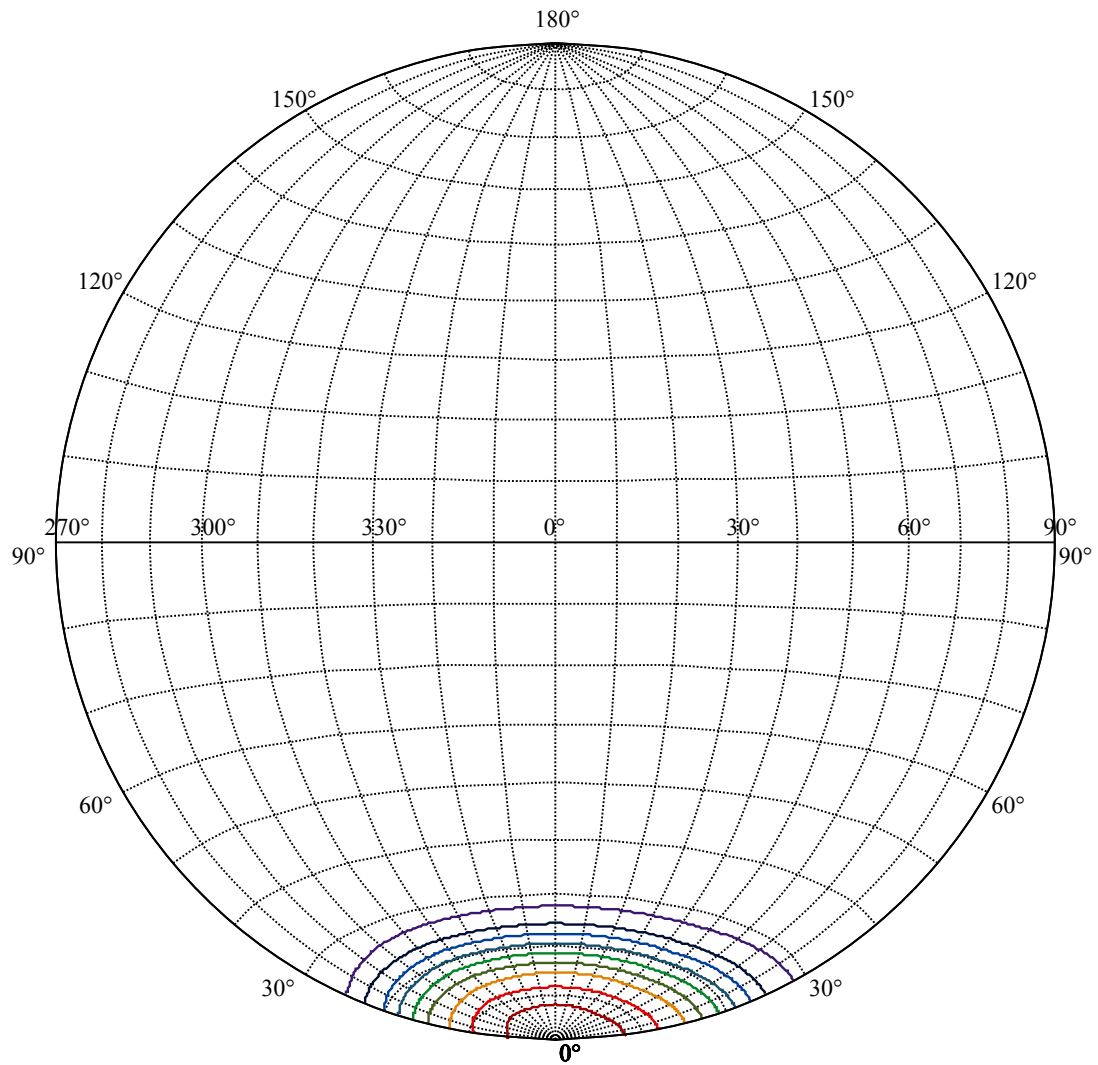
:C90/270Left:16.7 Right:19.3



Max , Ave      Beam angle of C0 plane 37.32



(10%Imax) 327.33	—
(20%Imax) 654.66	—
(30%Imax) 981.991	—
(40%Imax) 1309.32	—
(50%Imax) 1636.65	—
(60%Imax) 1963.98	—
(70%Imax) 2291.31	—
(80%Imax) 2618.64	—
(90%Imax) 2945.97	—



House

[Unit:cd]

Road

**I<sub>max</sub>:3296.21**

(10%I <sub>max</sub> ) 329.621	—
(20%I <sub>max</sub> ) 659.242	—
(30%I <sub>max</sub> ) 988.862	—
(40%I <sub>max</sub> ) 1318.48	—
(50%I <sub>max</sub> ) 1648.1	—
(60%I <sub>max</sub> ) 1977.72	—
(70%I <sub>max</sub> ) 2307.35	—
(80%I <sub>max</sub> ) 2636.97	—
(90%I <sub>max</sub> ) 2966.59	—

## 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	3296.21	3181.68	2828.35	2292.95	1428.99	568.85	148.40	60.97	34.51
45.0	3289.01	3129.81	2789.60	2223.09	1335.63	508.51	135.07	58.22	34.08
90.0	3255.98	3166.43	2842.74	2321.74	1512.19	649.29	196.04	64.36	37.47
135.0	3293.67	3074.13	2721.65	2135.23	1290.54	523.96	154.76	61.82	33.87
180.0	3296.21	3014.64	2640.78	2023.24	1093.87	405.20	115.17	54.62	32.81
225.0	3289.01	3028.40	2671.90	2084.64	1200.35	474.00	117.28	58.01	33.24
270.0	3255.98	2996.44	2578.96	1951.26	1001.14	307.39	82.35	48.48	31.12
315.0	3293.67	3116.26	2790.03	2185.19	1337.54	484.38	122.15	56.53	33.24
360.0	3296.21	3181.68	2828.35	2292.95	1428.99	568.85	148.40	60.97	34.51
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	26.25	19.05	15.24	11.86	8.68	6.14	3.81	1.69	0.21
45.0	26.25	19.48	15.24	12.07	8.47	6.14	3.60	2.33	0.42
90.0	26.68	20.96	16.72	12.91	9.74	6.77	4.45	2.12	0.64
135.0	26.04	20.11	16.09	12.49	9.32	6.77	4.45	2.12	0.42
180.0	26.04	19.90	16.09	12.28	8.89	6.14	3.81	1.48	0.00
225.0	26.04	19.48	15.67	12.07	8.68	5.93	3.81	1.91	0.21
270.0	23.92	18.42	14.61	11.22	8.05	5.50	3.60	1.69	0.42
315.0	25.19	18.84	14.82	11.43	8.68	5.72	3.60	1.91	0.42
360.0	26.25	19.05	15.24	11.86	8.68	6.14	3.81	1.69	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	0.21	0.64	0.64	1.06	1.69	1.69	1.48
45.0	0.00	0.00	0.21	0.42	1.06	1.27	1.48	1.48	2.12
90.0	0.00	0.00	0.00	0.21	0.42	1.06	1.27	1.48	1.69
135.0	0.00	0.00	0.00	0.42	0.64	1.06	1.48	1.48	1.48
180.0	0.00	0.00	0.00	0.42	0.64	1.06	1.27	1.48	1.48
225.0	0.00	0.00	0.21	0.64	0.64	1.27	1.48	1.69	1.69
270.0	0.00	0.21	0.42	0.42	1.06	1.48	1.69	1.69	1.91
315.0	0.00	0.00	0.21	0.42	0.85	1.06	1.27	1.69	1.48
360.0	0.00	0.00	0.21	0.64	0.64	1.06	1.69	1.69	1.48
C/ $\gamma$ (°)	180.0								
0.0	1.69								
45.0	1.91								
90.0	2.12								
135.0	1.69								
180.0	1.69								
225.0	1.91								
270.0	2.12								
315.0	1.69								
360.0	1.69								