



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

Client:

LumCAT:LD4R-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.1130

Lamp flux(lm): -1.0

Power (W): 13.30

Number of Lamps: 1

PF: 0.9818

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1335.34, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 100.40

Central intensity(cd): 3576.925, Maximum intensity(cd): 3585.605

Angle of maximum intensity: C=135.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=36.0

[C90/270]Total=35.6

Field angle(10%Imax): [C0/180]Total=53.6

[C90/270]Total=53.4

Maximum s/h(1/2): C0_180=0.68 C90_270=0.64

Maximum s/h(1/4): C0_180=0.62 C90_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.09%

Down flux rate of LUM(%): 99.91%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.756%

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	3575.973	0.000	0	0.00%	0.00%
5.0	3342.730	82.711	82.711	0.00%	6.19%
10.0	2938.457	224.698	307.409	0.00%	23.02%
15.0	2288.213	310.043	617.451	0.00%	46.24%
20.0	1387.287	302.913	920.364	0.00%	68.92%
25.0	596.101	208.021	1128.385	0.00%	84.50%
30.0	177.910	97.952	1226.337	0.00%	91.84%
35.0	66.157	35.941	1262.277	0.00%	94.53%
40.0	39.986	17.709	1279.986	0.00%	95.85%
45.0	28.924	12.759	1292.745	0.00%	96.81%
50.0	22.017	10.293	1303.039	0.00%	97.58%
55.0	17.412	8.573	1311.612	0.00%	98.22%
60.0	13.390	7.120	1318.732	0.00%	98.76%
65.0	9.791	5.635	1324.367	0.00%	99.18%
70.0	6.828	4.208	1328.575	0.00%	99.49%
75.0	4.340	2.919	1331.494	0.00%	99.71%
80.0	2.170	1.742	1333.236	0.00%	99.84%
85.0	0.556	0.741	1333.977	0.00%	99.90%
90.0	0.000	0.152	1334.129	0.00%	99.91%
95.0	0.000	0.000	1334.129	0.00%	99.91%
100.0	0.000	0.000	1334.129	0.00%	99.91%
105.0	0.000	0.000	1334.129	0.00%	99.91%
110.0	0.000	0.000	1334.129	0.00%	99.91%
115.0	0.000	0.000	1334.129	0.00%	99.91%
120.0	0.000	0.000	1334.129	0.00%	99.91%
125.0	0.000	0.000	1334.129	0.00%	99.91%
130.0	0.000	0.000	1334.129	0.00%	99.91%
135.0	0.027	0.005	1334.134	0.00%	99.91%
140.0	0.106	0.025	1334.159	0.00%	99.91%
145.0	0.265	0.062	1334.221	0.00%	99.92%
150.0	0.503	0.113	1334.334	0.00%	99.92%
155.0	0.873	0.174	1334.508	0.00%	99.94%
160.0	1.297	0.228	1334.735	0.00%	99.95%
165.0	1.561	0.236	1334.971	0.00%	99.97%
170.0	1.773	0.198	1335.169	0.00%	99.99%
175.0	1.852	0.130	1335.298	0.00%	100.00%
180.0	1.958	0.046	1335.344	0.00%	100.00%

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

Date:
Humidity(%): 59%

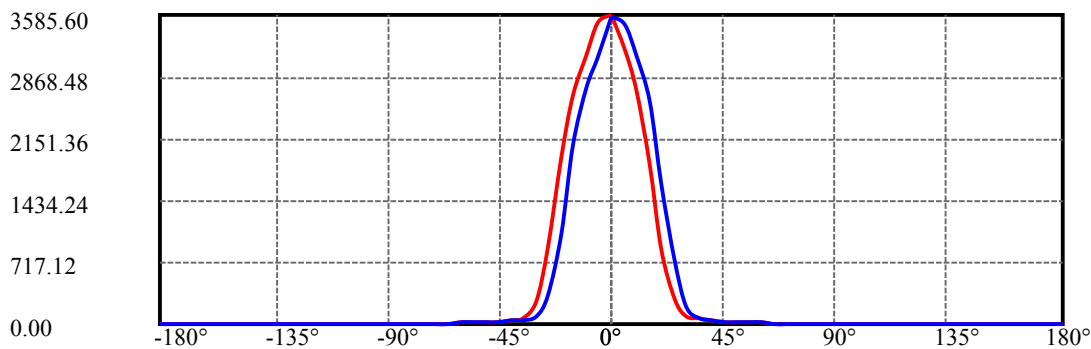
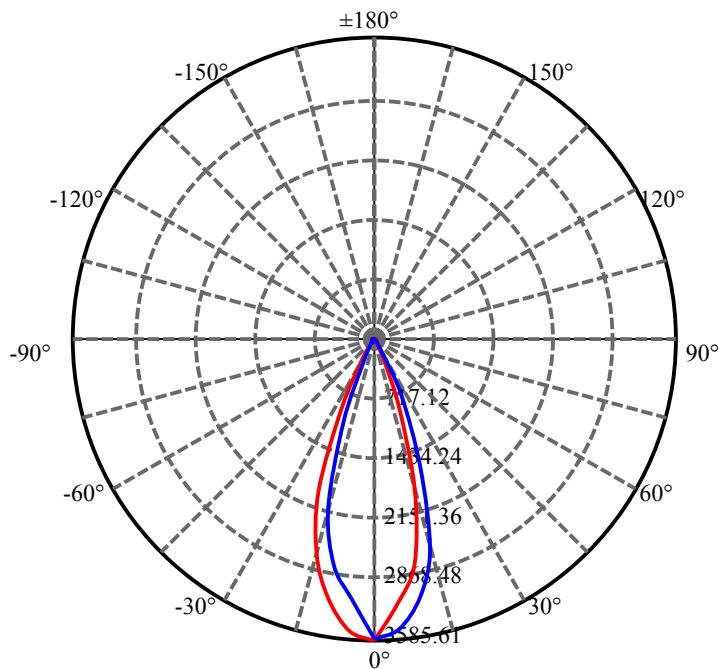
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1226.34	N.A.	91.84%
0-40	1279.99	N.A.	95.85%
0-60	1318.73	N.A.	98.76%
0-90	1334.13	N.A.	99.91%
0-120	1334.13	N.A.	99.91%
0-180	1335.34	N.A.	100.00%
60-90	15.40	N.A.	1.15%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.20	N.A.	0.02%
90-180	1.17	N.A.	0.09%
0-23.56	1068.28	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	307.41
10-20	612.96
20-30	305.97
30-40	53.65
40-50	23.05
50-60	15.69
60-70	9.84
70-80	4.66
80-90	0.89
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.03
140-150	0.17
150-160	0.40
160-170	0.43
170-180	0.13

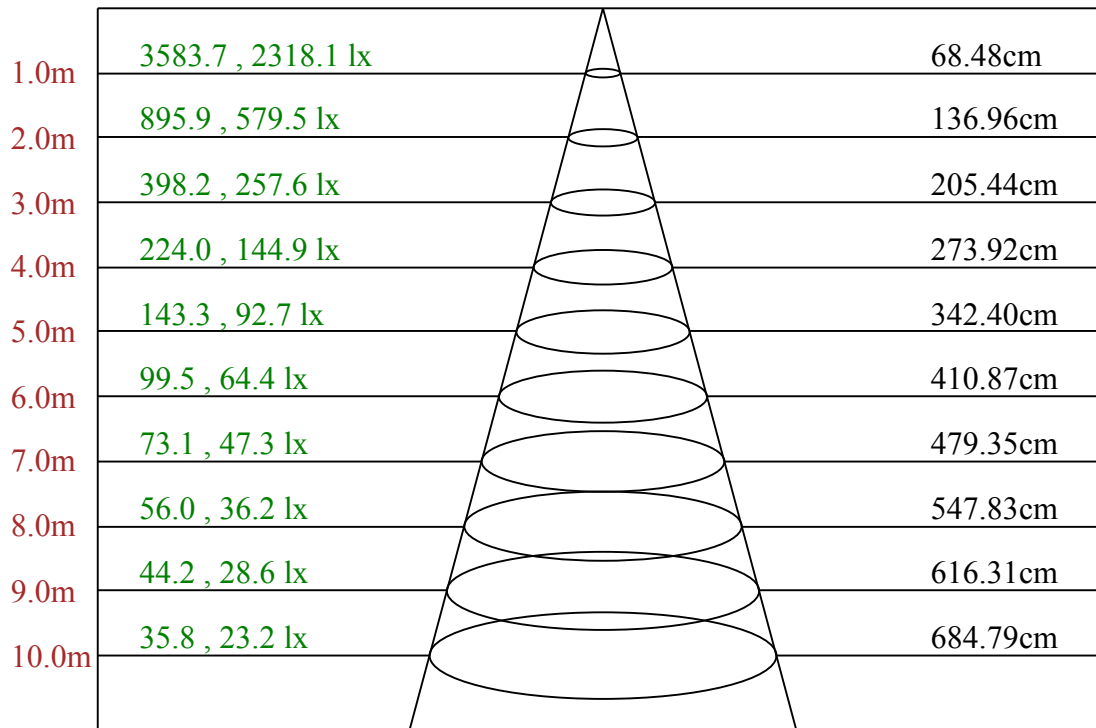


C0/C180: —

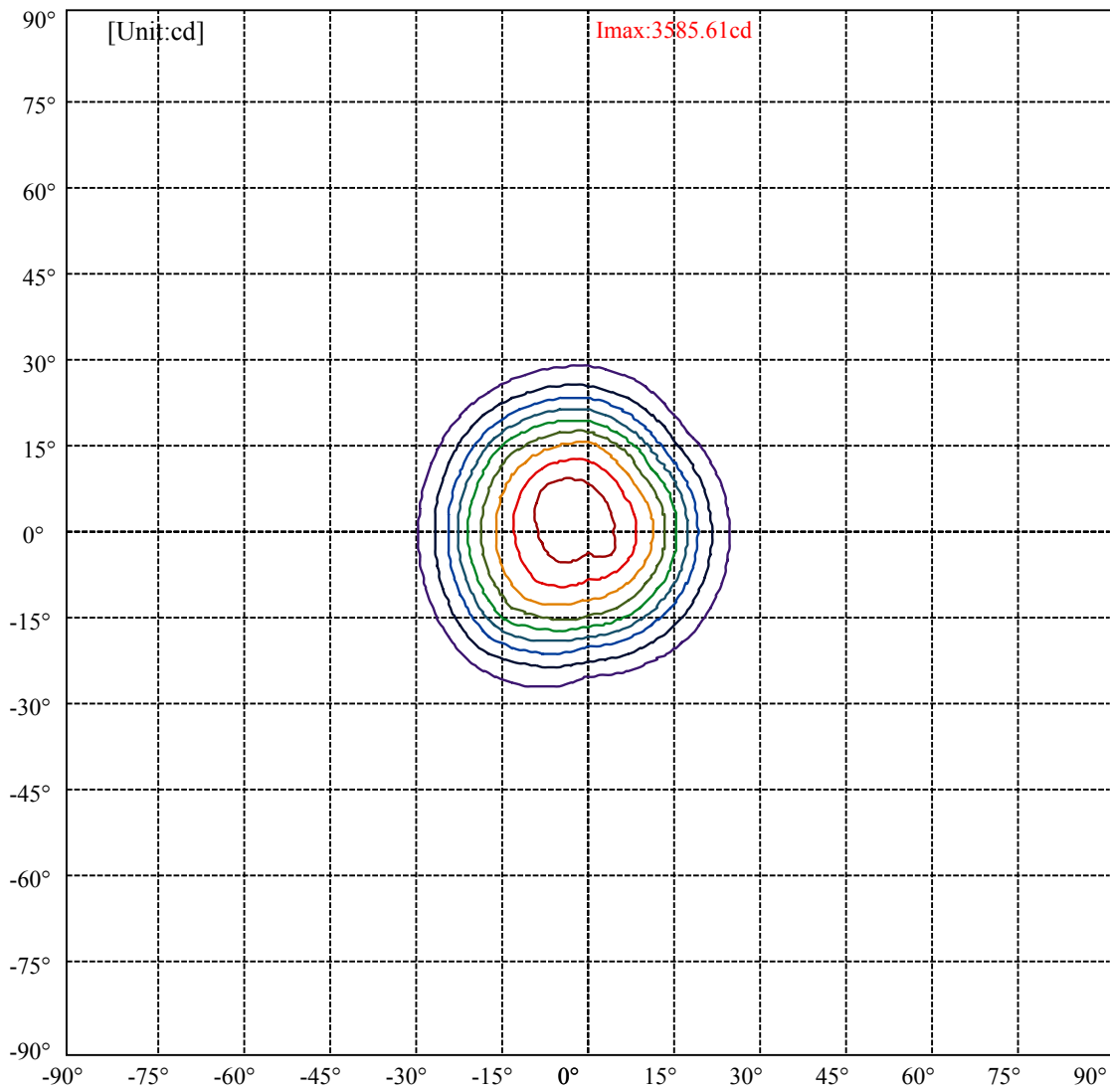
C90/C270: —

Field angle(10%Imax):C0/180Left:29.2 Right:24.4
 :C90/270Left:24.9 Right:28.5

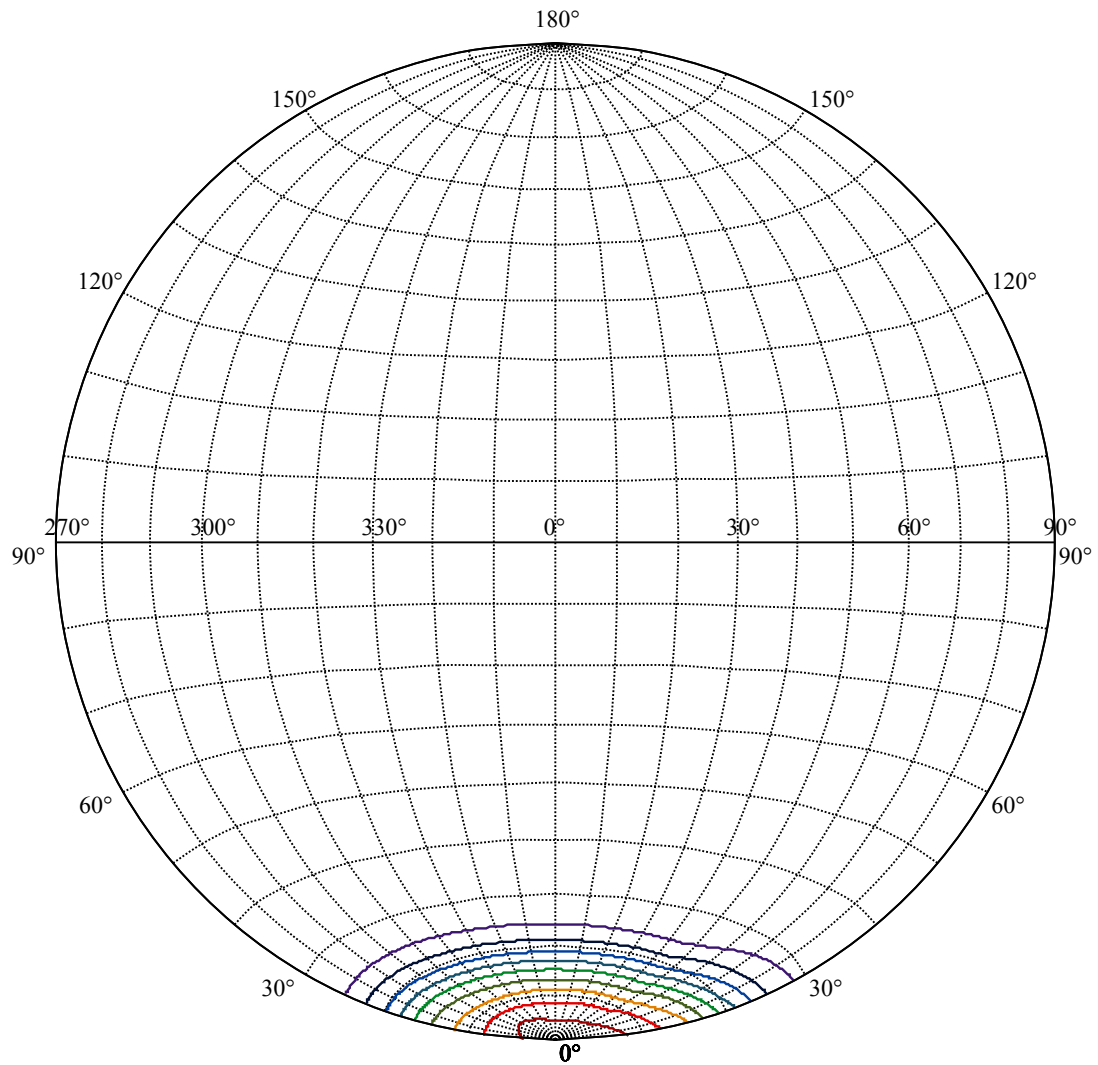
Beam Angle(50%Imax):C0/180Left:20.7 Right:15.3
 :C90/270Left:16.4 Right:19.2



Max , Ave Beam angle of C135 plane 37.80



(10%Imax) 358.412	—
(20%Imax) 716.824	—
(30%Imax) 1075.24	—
(40%Imax) 1433.65	—
(50%Imax) 1792.06	—
(60%Imax) 2150.47	—
(70%Imax) 2508.88	—
(80%Imax) 2867.3	—
(90%Imax) 3225.71	—



House

[Unit:cd]

Road

Imax:3585.61

(10%Imax) 358.56	—
(20%Imax) 717.121	—
(30%Imax) 1075.68	—
(40%Imax) 1434.24	—
(50%Imax) 1792.8	—
(60%Imax) 2151.36	—
(70%Imax) 2509.92	—
(80%Imax) 2868.48	—
(90%Imax) 3227.04	—

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	3576.93	3174.90	2720.17	1850.28	864.17	286.65	94.00	58.01	34.51
45.0	3583.70	3245.40	2747.48	1888.81	867.56	234.36	72.83	46.36	34.93
90.0	3566.98	3465.15	3110.33	2587.01	1619.95	733.34	195.61	74.10	42.34
135.0	3576.29	3585.61	3331.14	2702.81	1943.64	942.29	270.77	82.99	48.27
180.0	3576.93	3487.16	3127.69	2644.16	1926.92	897.20	259.76	73.46	44.46
225.0	3583.70	3380.89	3061.22	2640.99	1926.49	1005.16	339.99	87.43	46.79
270.0	3566.98	3105.68	2731.39	2075.74	1040.09	338.72	91.46	49.96	34.51
315.0	3576.29	3297.06	2678.25	1915.91	909.47	331.10	98.87	56.95	34.08
360.0	3576.93	3174.90	2720.17	1850.28	864.17	286.65	94.00	58.01	34.51
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	26.89	20.75	16.30	12.49	9.10	6.14	3.60	1.69	0.00
45.0	26.89	20.96	16.51	12.70	9.10	6.56	3.81	1.91	0.42
90.0	29.85	22.23	18.21	14.18	10.37	7.41	4.66	2.54	0.85
135.0	30.91	23.29	18.21	14.18	10.59	7.62	5.08	2.75	1.06
180.0	31.97	23.71	18.42	14.18	10.59	7.41	4.87	2.54	0.85
225.0	30.49	23.08	18.21	14.18	10.37	7.20	4.66	2.54	0.64
270.0	27.31	21.17	16.94	12.70	9.32	6.35	4.02	1.91	0.42
315.0	27.10	20.96	16.51	12.49	8.89	5.93	4.02	1.48	0.21
360.0	26.89	20.75	16.30	12.49	9.10	6.14	3.60	1.69	0.00
C/ γ (°)	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/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.21	0.42	0.85	1.27	1.48	1.69	1.69	1.91
45.0	0.00	0.21	0.42	0.64	1.06	1.48	1.69	1.91	1.91
90.0	0.00	0.00	0.00	0.21	0.64	1.27	1.48	1.69	1.69
135.0	0.00	0.00	0.00	0.42	0.64	1.06	1.48	1.91	1.91
180.0	0.00	0.00	0.00	0.21	0.64	0.85	1.06	1.48	1.69
225.0	0.00	0.00	0.00	0.21	0.85	0.85	1.27	1.48	1.69
270.0	0.00	0.42	0.64	0.85	0.85	1.69	1.91	2.12	1.91
315.0	0.21	0.00	0.64	0.64	1.06	1.69	1.91	1.91	2.12
360.0	0.00	0.21	0.42	0.85	1.27	1.48	1.69	1.69	1.91
C/ γ (°)	180.0								
0.0	2.12								
45.0	1.69								
90.0	2.12								
135.0	1.91								
180.0	2.12								
225.0	1.69								
270.0	2.12								
315.0	1.91								
360.0	2.12								