



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:LD4S-HO-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.03

LampCAT:

Current(A): 0.1530

Lamp flux(lm): -1.0

Power (W): 18.20

Number of Lamps: 0

PF: 0.9885

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1737.22, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 95.45

Central intensity(cd): 4758.950, Maximum intensity(cd): 4836.742

Angle of maximum intensity: C=0.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=34.9

[C90/270]Total=35.4

Field angle(10%Imax): [C0/180]Total=50.8

[C90/270]Total=50.4

Maximum s/h(1/2): C0_180=0.61 C90_270=0.60

Maximum s/h(1/4): C0_180=0.56 C90_270=0.55

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.14%

Down flux rate of LUM(%): 99.86%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.871%

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	4760.571	0.000	0	0.00%	0.00%
5.0	4548.668	111.289	111.289	0.00%	6.41%
10.0	3920.845	302.981	414.27	0.00%	23.85%
15.0	3093.220	416.070	830.34	0.00%	47.80%
20.0	1808.781	403.994	1234.334	0.00%	71.05%
25.0	592.438	251.844	1486.177	0.00%	85.55%
30.0	152.425	94.263	1580.44	0.00%	90.98%
35.0	79.116	34.096	1614.536	0.00%	92.94%
40.0	54.671	22.321	1636.857	0.00%	94.22%
45.0	44.244	18.315	1655.172	0.00%	95.28%
50.0	37.627	16.543	1671.716	0.00%	96.23%
55.0	31.900	15.117	1686.833	0.00%	97.10%
60.0	26.093	13.405	1700.238	0.00%	97.87%
65.0	20.502	11.327	1711.565	0.00%	98.52%
70.0	15.288	9.062	1720.627	0.00%	99.05%
75.0	10.426	6.721	1727.349	0.00%	99.43%
80.0	6.132	4.430	1731.779	0.00%	99.69%
85.0	2.431	2.327	1734.106	0.00%	99.82%
90.0	0.027	0.673	1734.779	0.00%	99.86%
95.0	0.027	0.015	1734.794	0.00%	99.86%
100.0	0.027	0.015	1734.808	0.00%	99.86%
105.0	0.054	0.022	1734.83	0.00%	99.86%
110.0	0.027	0.021	1734.851	0.00%	99.86%
115.0	0.054	0.021	1734.872	0.00%	99.87%
120.0	0.108	0.039	1734.911	0.00%	99.87%
125.0	0.081	0.044	1734.955	0.00%	99.87%
130.0	0.108	0.041	1734.996	0.00%	99.87%
135.0	0.162	0.055	1735.051	0.00%	99.88%
140.0	0.351	0.095	1735.145	0.00%	99.88%
145.0	0.702	0.176	1735.321	0.00%	99.89%
150.0	1.053	0.258	1735.58	0.00%	99.91%
155.0	1.459	0.318	1735.898	0.00%	99.92%
160.0	2.080	0.371	1736.269	0.00%	99.95%
165.0	2.485	0.376	1736.645	0.00%	99.97%
170.0	2.647	0.304	1736.949	0.00%	99.98%
175.0	2.836	0.196	1737.146	0.00%	100.00%
180.0	3.025	0.070	1737.216	0.00%	100.00%

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

Date:
Humidity(%): 59%

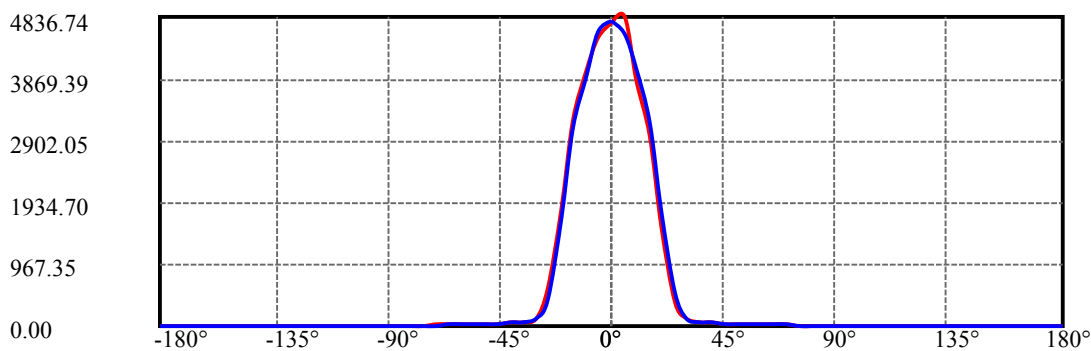
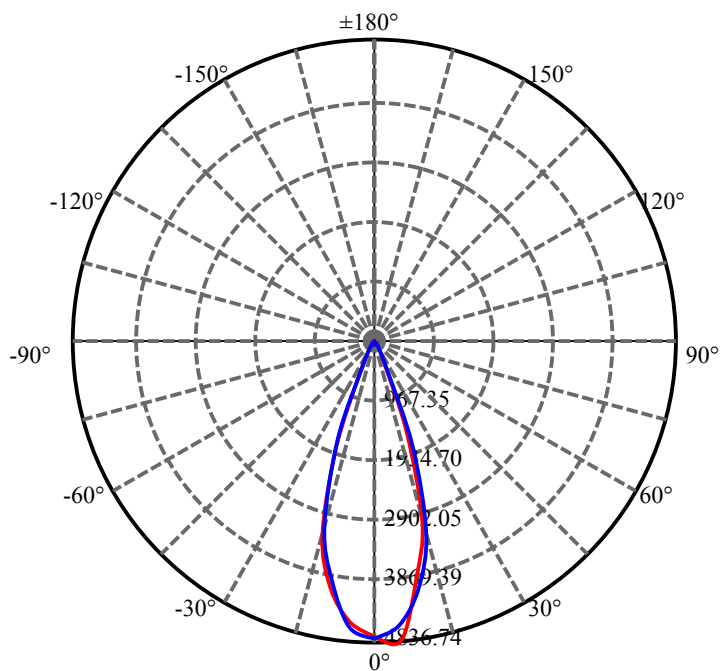
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1580.44	N.A.	90.98%
0-40	1636.86	N.A.	94.22%
0-60	1700.24	N.A.	97.87%
0-90	1734.78	N.A.	99.86%
0-120	1734.91	N.A.	99.87%
0-180	1737.22	N.A.	100.00%
60-90	34.54	N.A.	1.99%
90-120	0.13	N.A.	0.01%
90-130	0.22	N.A.	0.01%
90-150	0.80	N.A.	0.05%
90-180	2.37	N.A.	0.14%
0-23.09	1389.77	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	414.27
10-20	820.06
20-30	346.11
30-40	56.42
40-50	34.86
50-60	28.52
60-70	20.39
70-80	11.15
80-90	3.00
90-100	0.03
100-110	0.04
110-120	0.06
120-130	0.08
130-140	0.15
140-150	0.43
150-160	0.69
160-170	0.68
170-180	0.20

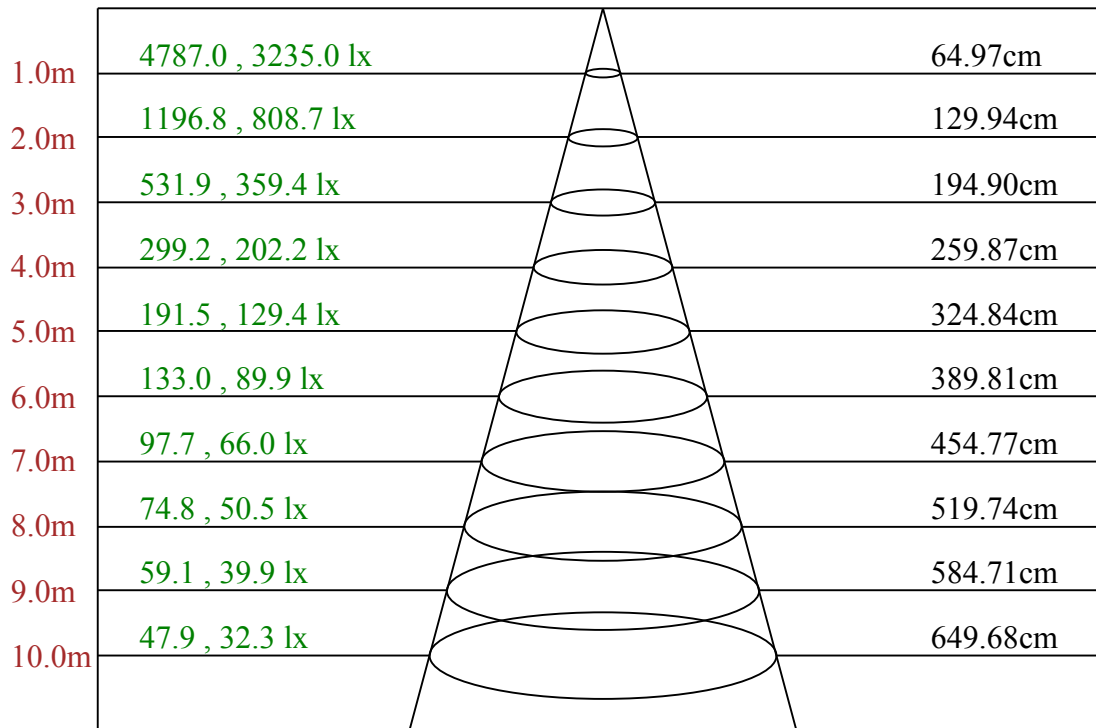


C0/C180: —

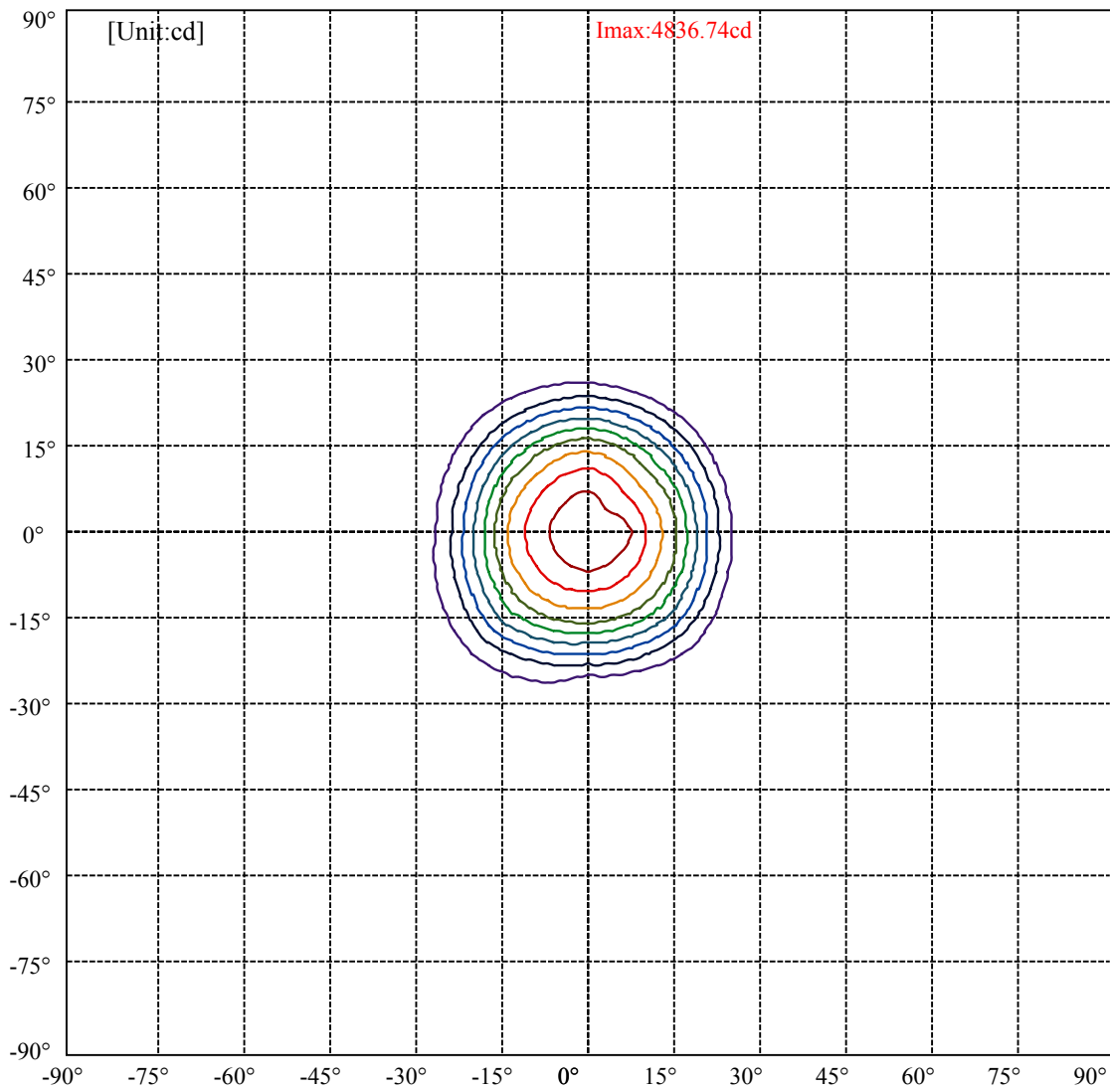
C90/C270: —

Field angle(10%Imax):C0/180Left:26.2 Right:24.6
 :C90/270Left:24.8 Right:25.6

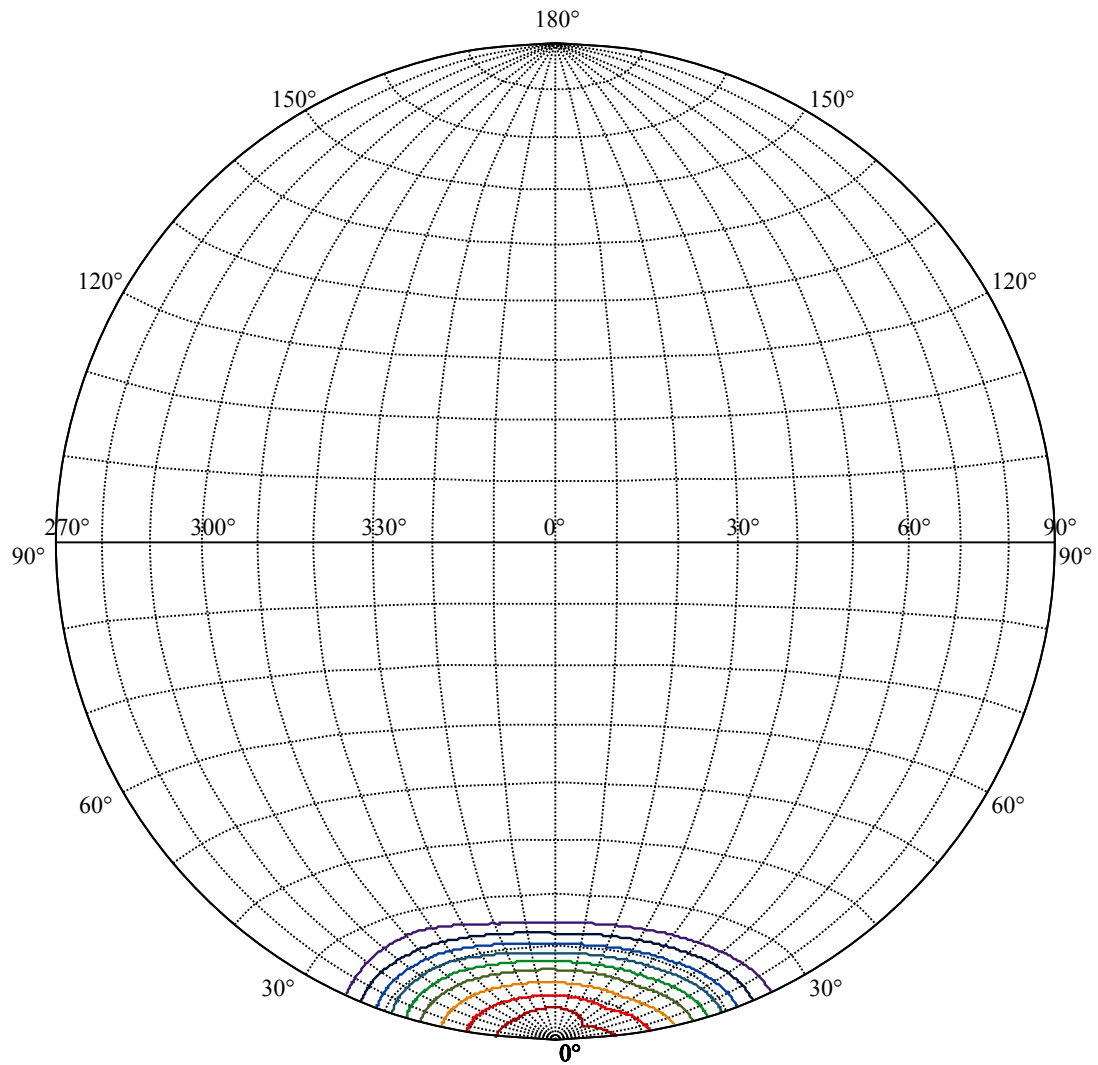
Beam Angle(50%Imax):C0/180Left:17.9 Right:17.0
 :C90/270Left:17.5 Right:17.9



Max , Ave Beam angle of C0 plane 35.99



(10%Imax) 483.674	—
(20%Imax) 967.348	—
(30%Imax) 1451.02	—
(40%Imax) 1934.7	—
(50%Imax) 2418.37	—
(60%Imax) 2902.05	—
(70%Imax) 3385.72	—
(80%Imax) 3869.39	—
(90%Imax) 4353.07	—



House

[Unit:cd]

Road

Imax:4836.74

(10%Imax) 483.674	—
(20%Imax) 967.348	—
(30%Imax) 1451.02	—
(40%Imax) 1934.7	—
(50%Imax) 2418.37	—
(60%Imax) 2902.05	—
(70%Imax) 3385.72	—
(80%Imax) 3869.39	—
(90%Imax) 4353.07	—

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	
0.0	4758.95	4836.74	3849.00	2987.23	1561.25	390.48	105.24	65.91	51.00	
45.0	4713.57	4301.92	3751.75	2830.56	1585.24	471.72	139.59	80.60	53.37	
90.0	4787.04	4577.44	4028.57	3198.78	1798.52	530.93	111.07	68.07	53.37	
135.0	4782.72	4506.13	3944.29	3075.61	1859.02	629.69	189.51	91.62	57.70	
180.0	4758.95	4519.09	3996.15	3209.59	1828.77	597.27	114.96	65.48	51.86	
225.0	4713.57	4506.13	3989.67	3261.45	2228.54	1068.13	275.73	107.83	63.53	
270.0	4787.04	4607.69	3905.83	3093.33	1685.29	433.26	113.45	67.42	51.86	
315.0	4782.72	4534.22	3901.51	3089.22	1923.63	618.02	169.85	86.00	54.67	
360.0	4758.95	4836.74	3849.00	2987.23	1561.25	390.48	105.24	65.91	51.00	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	44.08	38.90	32.63	26.58	21.18	15.56	10.59	6.48	2.59	
45.0	44.08	36.30	30.90	25.50	20.10	15.13	10.16	5.83	1.95	
90.0	44.52	39.54	33.71	27.66	21.39	16.21	11.02	6.48	2.59	
135.0	44.95	37.38	32.20	26.15	20.53	15.34	10.16	6.05	2.59	
180.0	44.08	38.46	31.98	25.72	20.31	15.13	9.94	6.05	2.59	
225.0	46.03	37.17	31.55	26.15	20.75	15.56	11.02	6.27	2.81	
270.0	42.35	36.95	31.12	25.28	19.45	14.26	9.94	5.40	1.95	
315.0	43.87	36.30	31.12	25.72	20.31	15.13	10.59	6.48	2.38	
360.0	44.08	38.90	32.63	26.58	21.18	15.56	10.59	6.48	2.59	
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	0.22	0.22	
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.22	
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	0.22	0.22	0.22	0.22	0.22	0.22	0.43	0.43	0.43	
315.0	0.00	0.00	0.00	0.22	0.00	0.22	0.22	0.00	0.00	
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	
0.0	0.22	0.43	0.65	1.08	1.51	2.16	2.59	2.81	3.24	
45.0	0.00	0.43	0.86	1.08	1.73	2.16	2.81	2.59	2.81	
90.0	0.22	0.43	0.65	1.30	1.51	1.95	2.38	2.59	2.59	
135.0	0.00	0.22	0.65	0.65	1.08	1.95	2.38	2.38	2.59	
180.0	0.00	0.22	0.22	0.86	1.30	1.95	2.16	2.81	2.81	
225.0	0.00	0.00	0.43	0.86	1.30	1.95	2.38	2.59	2.81	
270.0	0.65	0.65	1.30	1.51	1.95	2.59	2.59	2.81	3.03	
315.0	0.22	0.43	0.86	1.08	1.30	1.95	2.59	2.59	2.81	
360.0	0.22	0.43	0.65	1.08	1.51	2.16	2.59	2.81	3.24	
C/γ(°)	180.0									
0.0	3.03									
45.0	3.03									
90.0	3.24									
135.0	2.81									
180.0	3.03									
225.0	3.03									
270.0	3.24									
315.0	2.81									
360.0	3.03									