



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

LumCAT:LD4S-5CCT-2700K

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: 0.9810

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1033.18, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 77.68

Central intensity(cd): 2861.371, Maximum intensity(cd): 2861.371

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.8

[C90/270]Total=35.3

Field angle(10%Imax): [C0/180]Total=50.4

[C90/270]Total=50.9

Maximum s/h(1/2): C0_180=0.59 C90_270=0.62

Maximum s/h(1/4): C0_180=0.55 C90_270=0.57

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.12%

Down flux rate of LUM(%): 99.88%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.892%

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

Date:
Humidity(%): 59%

Operator: Tester

Zonal flux distribution table

Appendix Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2854.544	0.000	0	0.00%	0.00%
5.0	2689.416	66.276	66.276	0.00%	6.41%
10.0	2361.118	180.673	246.95	0.00%	23.90%
15.0	1855.414	250.122	497.072	0.00%	48.11%
20.0	1061.662	240.408	737.48	0.00%	71.38%
25.0	332.399	146.211	883.691	0.00%	85.53%
30.0	92.620	53.787	937.477	0.00%	90.74%
35.0	49.380	20.910	958.388	0.00%	92.76%
40.0	34.481	13.991	972.379	0.00%	94.12%
45.0	27.230	11.426	983.806	0.00%	95.22%
50.0	23.049	10.160	993.965	0.00%	96.20%
55.0	19.530	9.258	1003.223	0.00%	97.10%
60.0	15.825	8.172	1011.396	0.00%	97.89%
65.0	12.332	6.845	1018.24	0.00%	98.55%
70.0	9.077	5.421	1023.661	0.00%	99.08%
75.0	6.192	3.991	1027.652	0.00%	99.47%
80.0	3.520	2.599	1030.251	0.00%	99.72%
85.0	1.270	1.302	1031.552	0.00%	99.84%
90.0	0.000	0.348	1031.9	0.00%	99.88%
95.0	0.027	0.007	1031.907	0.00%	99.88%
100.0	0.027	0.014	1031.922	0.00%	99.88%
105.0	0.053	0.021	1031.943	0.00%	99.88%
110.0	0.027	0.021	1031.964	0.00%	99.88%
115.0	0.053	0.020	1031.984	0.00%	99.88%
120.0	0.027	0.019	1032.003	0.00%	99.89%
125.0	0.079	0.024	1032.028	0.00%	99.89%
130.0	0.106	0.040	1032.068	0.00%	99.89%
135.0	0.106	0.043	1032.111	0.00%	99.90%
140.0	0.106	0.039	1032.15	0.00%	99.90%
145.0	0.291	0.066	1032.216	0.00%	99.91%
150.0	0.503	0.117	1032.333	0.00%	99.92%
155.0	0.741	0.157	1032.49	0.00%	99.93%
160.0	1.085	0.192	1032.682	0.00%	99.95%
165.0	1.244	0.192	1032.874	0.00%	99.97%
170.0	1.455	0.160	1033.034	0.00%	99.99%
175.0	1.482	0.105	1033.139	0.00%	100.00%
180.0	1.800	0.039	1033.178	0.00%	100.00%

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

Date:
Humidity(%): 59%

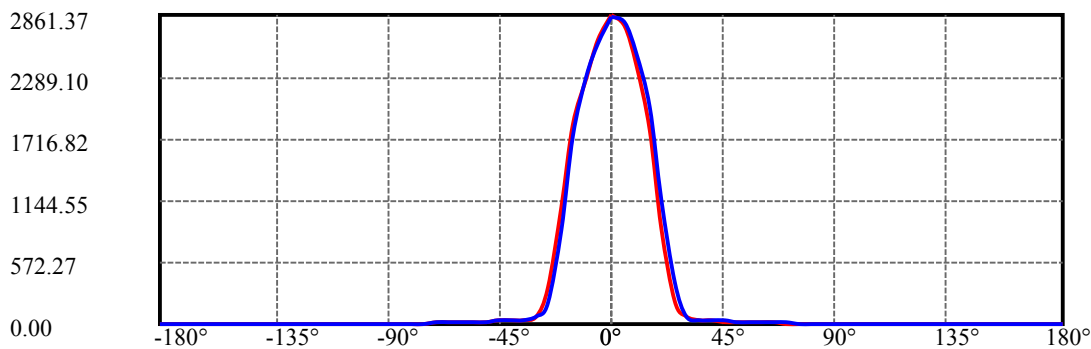
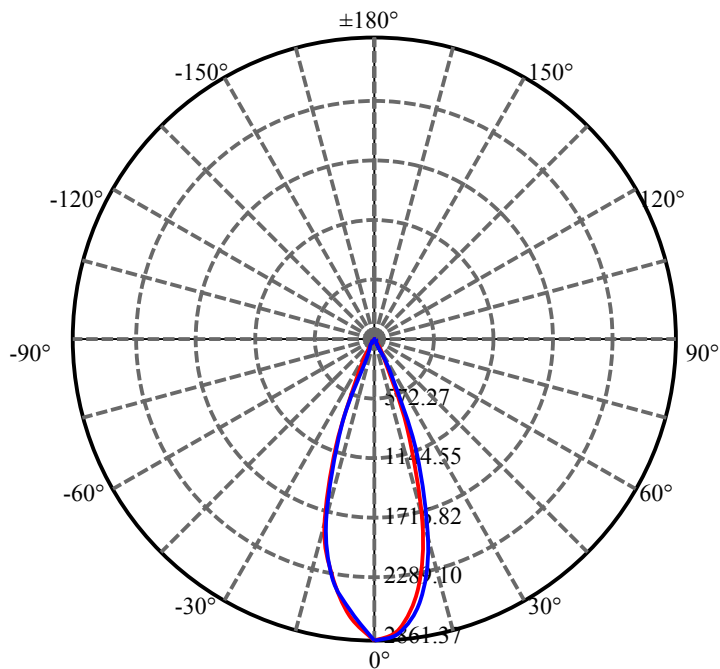
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	937.48	N.A.	90.74%
0-40	972.38	N.A.	94.12%
0-60	1011.40	N.A.	97.89%
0-90	1031.90	N.A.	99.88%
0-120	1032.00	N.A.	99.89%
0-180	1033.18	N.A.	100.00%
60-90	20.50	N.A.	1.98%
90-120	0.10	N.A.	0.01%
90-130	0.17	N.A.	0.02%
90-150	0.43	N.A.	0.04%
90-180	1.24	N.A.	0.12%
0-23.05	826.54	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	246.95
10-20	490.53
20-30	200.00
30-40	34.90
40-50	21.59
50-60	17.43
60-70	12.27
70-80	6.59
80-90	1.65
90-100	0.02
100-110	0.04
110-120	0.04
120-130	0.06
130-140	0.08
140-150	0.18
150-160	0.35
160-170	0.35
170-180	0.11

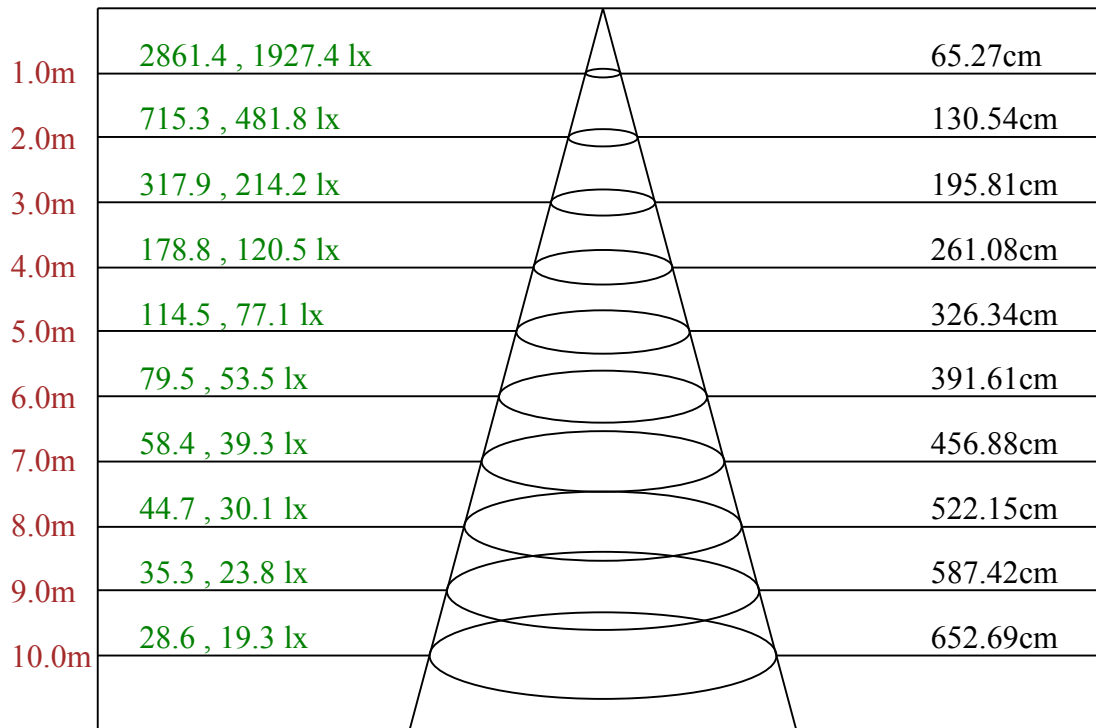


C0/C180: —

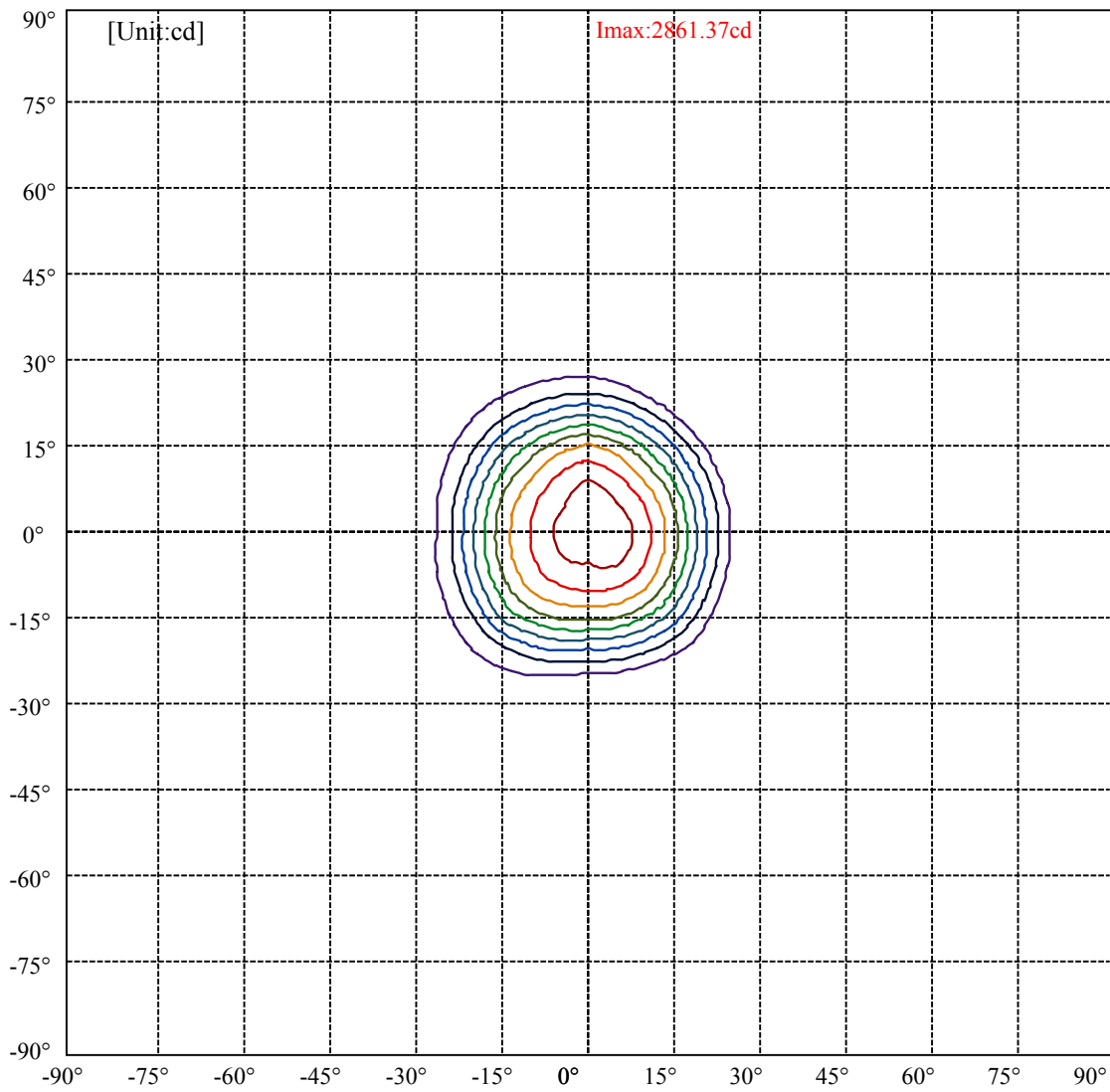
C90/C270: —

Field angle(10%Imax):C0/180Left:26.0 Right:24.4
 :C90/270Left:24.3 Right:26.6

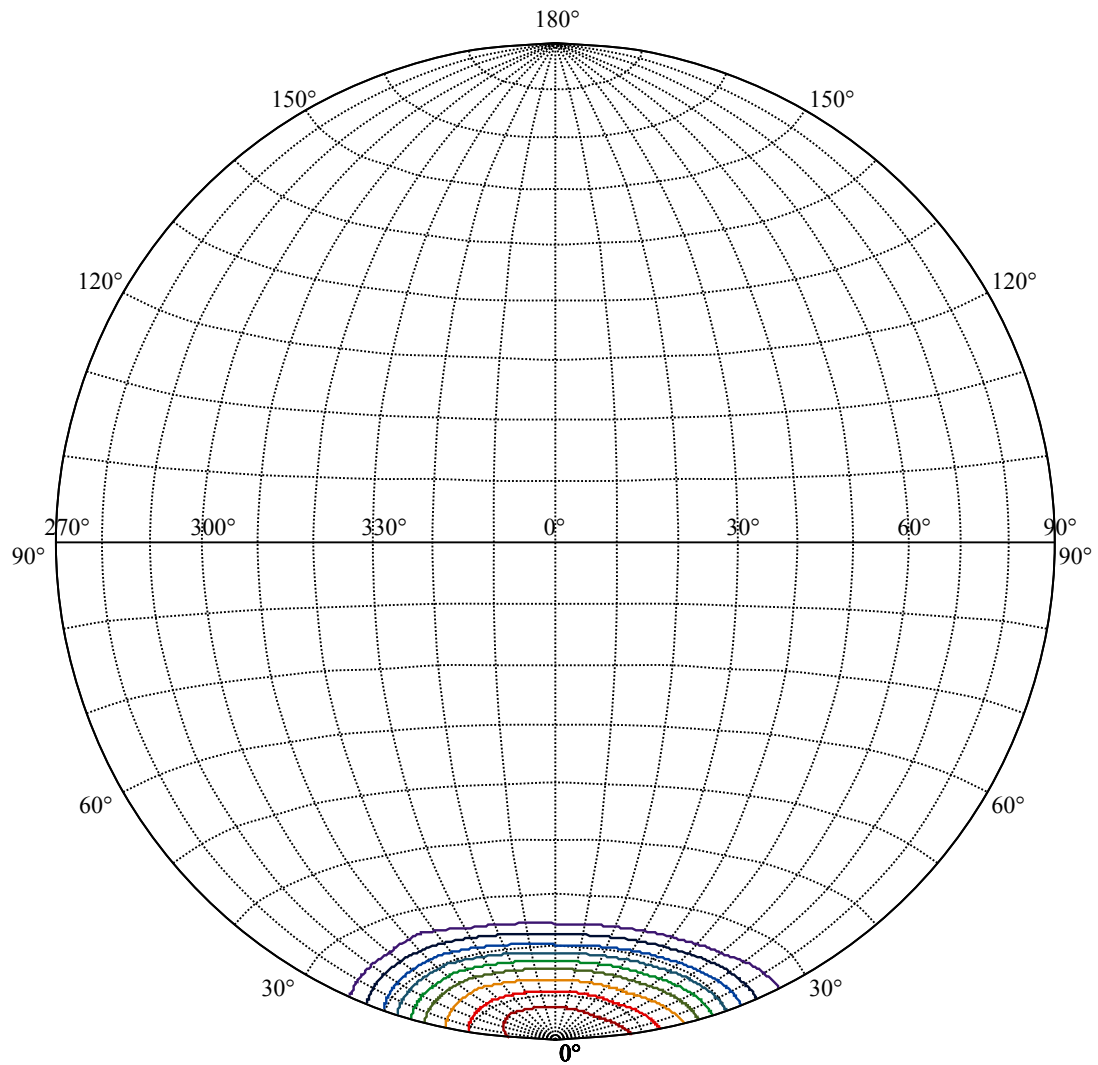
Beam Angle(50%Imax):C0/180Left:17.8 Right:17.0
 :C90/270Left:16.9 Right:18.4



Max , Ave Beam angle of C0 plane 36.15



(10%Imax) 285.248	—
(20%Imax) 570.496	—
(30%Imax) 855.744	—
(40%Imax) 1140.99	—
(50%Imax) 1426.24	—
(60%Imax) 1711.49	—
(70%Imax) 1996.74	—
(80%Imax) 2281.98	—
(90%Imax) 2567.23	—



House

[Unit:cd]

Road

Imax:2861.37

(10%Imax) 286.137	—
(20%Imax) 572.274	—
(30%Imax) 858.411	—
(40%Imax) 1144.55	—
(50%Imax) 1430.69	—
(60%Imax) 1716.82	—
(70%Imax) 2002.96	—
(80%Imax) 2289.1	—
(90%Imax) 2575.23	—

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	2861.37	2758.06	2391.18	1790.79	897.41	207.89	66.05	40.86	31.76
45.0	2847.19	2716.14	2345.88	1759.25	953.09	222.50	77.06	45.52	32.39
90.0	2852.48	2792.78	2508.46	2004.40	1151.03	384.66	78.33	43.19	33.24
135.0	2857.14	2611.77	2322.80	1843.72	1139.81	452.83	126.81	62.03	38.74
180.0	2861.37	2633.16	2278.98	1856.63	1083.71	338.30	69.86	41.92	32.81
225.0	2847.19	2644.16	2340.16	1949.57	1293.71	528.62	151.58	65.84	40.65
270.0	2852.48	2589.12	2292.10	1748.45	879.41	191.80	67.53	41.28	32.39
315.0	2857.14	2770.13	2409.39	1890.50	1095.14	332.59	103.73	54.41	33.87
360.0	2861.37	2758.06	2391.18	1790.79	897.41	207.89	66.05	40.86	31.76
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	25.83	22.65	18.84	15.24	11.43	8.47	5.50	2.96	1.06
45.0	26.46	21.59	18.42	15.03	11.64	8.47	5.72	3.18	1.06
90.0	27.95	24.77	20.96	16.94	13.34	10.16	6.99	4.23	1.91
135.0	28.37	23.29	19.90	16.30	12.91	9.53	6.77	3.81	1.48
180.0	27.10	23.71	20.32	16.30	12.70	9.10	6.14	3.39	0.85
225.0	27.73	22.86	19.48	15.67	12.49	9.10	6.35	3.60	1.27
270.0	27.31	23.71	19.69	15.88	12.28	9.32	6.35	3.60	1.48
315.0	27.10	21.81	18.63	15.24	11.86	8.47	5.72	3.39	1.06
360.0	25.83	22.65	18.84	15.24	11.43	8.47	5.50	2.96	1.06
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	0.21	0.21	0.42	0.21	0.42	0.21	0.42	0.64
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21
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	0.64	0.64	1.06	1.27	1.48	1.27
45.0	0.00	0.00	0.42	0.42	0.64	1.06	1.27	1.48	1.48
90.0	0.00	0.00	0.00	0.42	0.64	1.27	1.27	1.48	1.27
135.0	0.00	0.00	0.21	0.21	0.42	0.85	1.06	1.27	1.27
180.0	0.00	0.00	0.00	0.21	0.42	0.85	1.06	1.27	1.48
225.0	0.00	0.00	0.00	0.42	0.64	0.85	1.06	1.27	1.27
270.0	0.64	0.42	0.85	1.27	1.69	1.69	1.91	1.91	2.33
315.0	0.21	0.21	0.42	0.42	0.85	1.06	1.06	1.48	1.48
360.0	0.00	0.21	0.42	0.64	0.64	1.06	1.27	1.48	1.27
C/ γ (°)	180.0								
0.0	1.27								
45.0	1.69								
90.0	2.33								
135.0	1.91								
180.0	1.27								
225.0	1.69								
270.0	2.33								
315.0	1.91								
360.0	1.27								