



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

LumCAT:LD4S-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.13

LampCAT:

Current(A): 0.1100

Lamp flux(lm): -1.0

Power (W): 13.00

Number of Lamps: 0

PF: 0.9811

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1256.83, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.68

Central intensity(cd): 3462.818, Maximum intensity(cd): 3464.935

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.2

[C90/270]Total=35.1

Field angle(10%Imax): [C0/180]Total=51.2

[C90/270]Total=51.2

Maximum s/h(1/2): C0_180=0.64 C90_270=0.63

Maximum s/h(1/4): C0_180=0.59 C90_270=0.58

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 : 97.931%

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	3463.241	0.000	0	0.00%	0.00%
5.0	3248.654	80.239	80.239	0.00%	6.38%
10.0	2833.453	217.576	297.815	0.00%	23.70%
15.0	2225.337	300.084	597.899	0.00%	47.57%
20.0	1294.323	290.069	887.968	0.00%	70.65%
25.0	435.313	181.407	1069.375	0.00%	85.09%
30.0	118.104	70.035	1139.411	0.00%	90.66%
35.0	60.917	26.362	1165.773	0.00%	92.76%
40.0	42.367	17.232	1183.005	0.00%	94.13%
45.0	33.449	14.038	1197.043	0.00%	95.24%
50.0	28.315	12.480	1209.523	0.00%	96.24%
55.0	23.790	11.329	1220.853	0.00%	97.14%
60.0	19.344	9.970	1230.823	0.00%	97.93%
65.0	15.004	8.350	1239.173	0.00%	98.60%
70.0	11.088	6.607	1245.78	0.00%	99.12%
75.0	7.542	4.870	1250.649	0.00%	99.51%
80.0	4.234	3.151	1253.8	0.00%	99.76%
85.0	1.456	1.546	1255.346	0.00%	99.88%
90.0	0.000	0.399	1255.745	0.00%	99.91%
95.0	0.000	0.000	1255.745	0.00%	99.91%
100.0	0.000	0.000	1255.745	0.00%	99.91%
105.0	0.000	0.000	1255.745	0.00%	99.91%
110.0	0.000	0.000	1255.745	0.00%	99.91%
115.0	0.000	0.000	1255.745	0.00%	99.91%
120.0	0.000	0.000	1255.745	0.00%	99.91%
125.0	0.000	0.000	1255.745	0.00%	99.91%
130.0	0.000	0.000	1255.745	0.00%	99.91%
135.0	0.000	0.000	1255.745	0.00%	99.91%
140.0	0.053	0.010	1255.755	0.00%	99.91%
145.0	0.159	0.035	1255.79	0.00%	99.92%
150.0	0.529	0.101	1255.891	0.00%	99.93%
155.0	0.821	0.171	1256.062	0.00%	99.94%
160.0	1.191	0.211	1256.273	0.00%	99.96%
165.0	1.429	0.216	1256.489	0.00%	99.97%
170.0	1.614	0.181	1256.67	0.00%	99.99%
175.0	1.641	0.116	1256.786	0.00%	100.00%
180.0	1.800	0.041	1256.827	0.00%	100.00%

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

Date:
Humidity(%): 59%

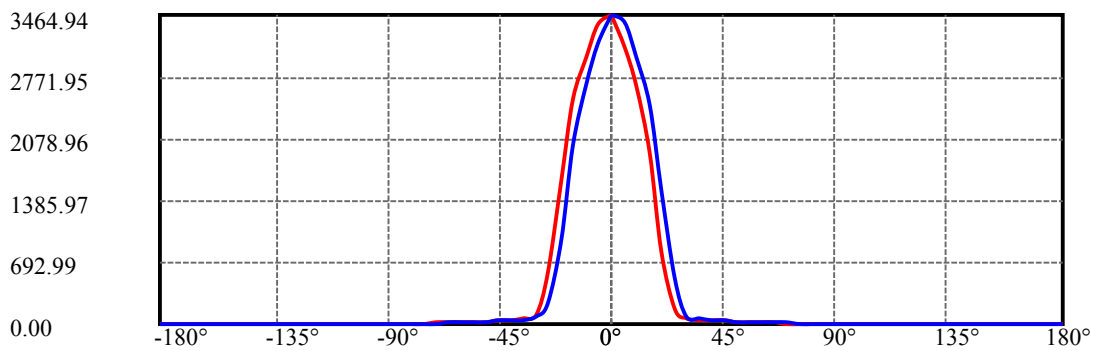
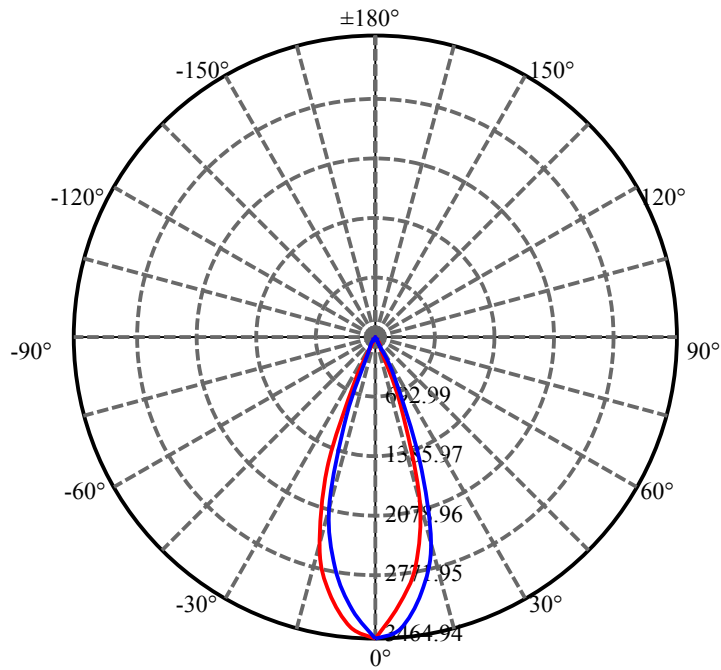
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1139.41	N.A.	90.66%
0-40	1183.00	N.A.	94.13%
0-60	1230.82	N.A.	97.93%
0-90	1255.74	N.A.	99.91%
0-120	1255.74	N.A.	99.91%
0-180	1256.83	N.A.	100.00%
60-90	24.92	N.A.	1.98%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.15	N.A.	0.01%
90-180	1.04	N.A.	0.08%
0-23.24	1005.46	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	297.81
10-20	590.15
20-30	251.44
30-40	43.59
40-50	26.52
50-60	21.30
60-70	14.96
70-80	8.02
80-90	1.94
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.01
140-150	0.14
150-160	0.38
160-170	0.40
170-180	0.12

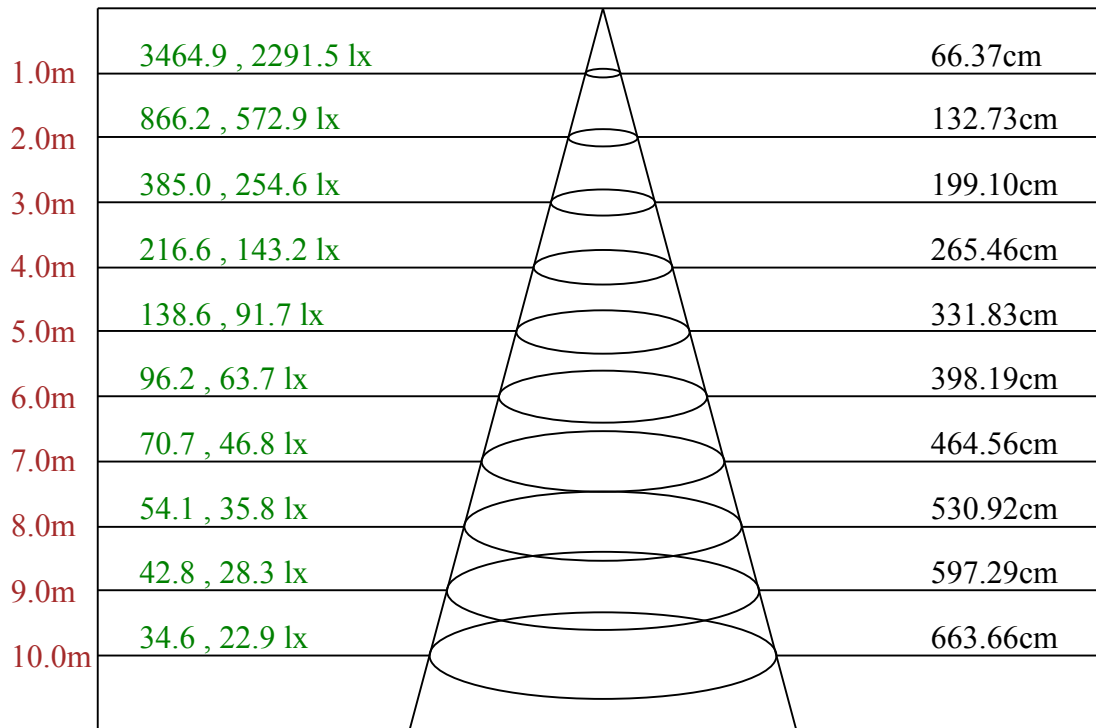


C0/C180: —

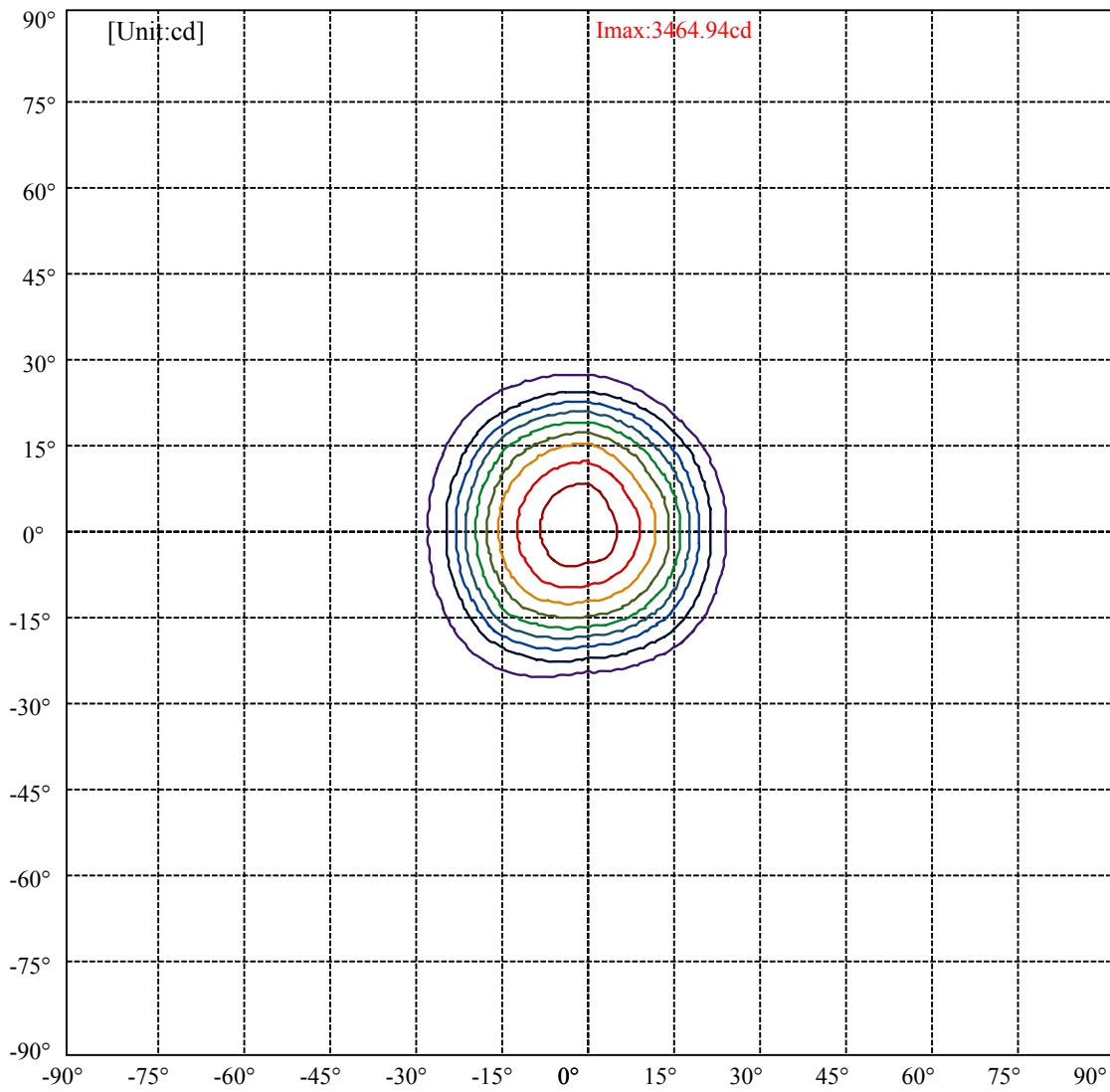
C90/C270: —

Field angle(10%Imax):C0/180Left:27.5 Right:23.7
 :C90/270Left:24.2 Right:27.0

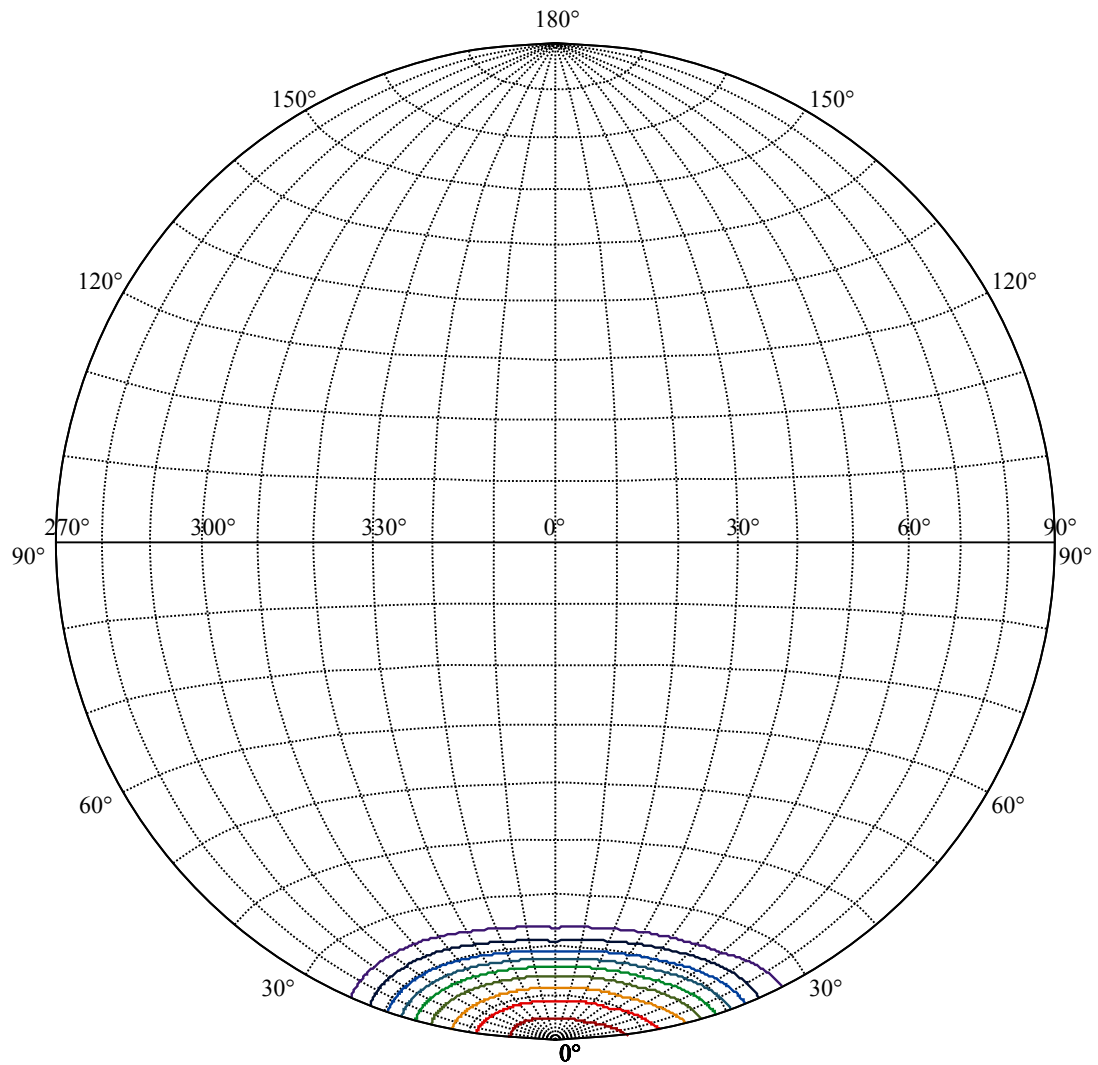
Beam Angle(50%Imax):C0/180Left:19.3 Right:15.9
 :C90/270Left:16.3 Right:18.8



Max , Ave Beam angle of C90 plane 36.71



(10%Imax) 346.493	—
(20%Imax) 692.987	—
(30%Imax) 1039.48	—
(40%Imax) 1385.97	—
(50%Imax) 1732.47	—
(60%Imax) 2078.96	—
(70%Imax) 2425.45	—
(80%Imax) 2771.95	—
(90%Imax) 3118.44	—



House

[Unit:cd]

Road

Imax:3464.94

(10%Imax) 346.493	—
(20%Imax) 692.987	—
(30%Imax) 1039.48	—
(40%Imax) 1385.97	—
(50%Imax) 1732.47	—
(60%Imax) 2078.96	—
(70%Imax) 2425.45	—
(80%Imax) 2771.95	—
(90%Imax) 3118.44	—

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	3462.82	3103.56	2671.05	1921.41	823.95	173.60	73.88	47.21	38.32
45.0	3463.88	3153.94	2704.71	2003.55	1066.77	263.99	94.21	58.85	39.59
90.0	3464.94	3372.42	2988.82	2455.75	1498.43	511.90	92.94	55.47	40.44
135.0	3461.34	3388.72	3012.95	2513.54	1737.44	728.47	196.04	78.97	50.17
180.0	3462.82	3349.98	2988.82	2514.81	1607.03	584.51	103.95	57.58	41.49
225.0	3463.88	3314.84	2951.98	2429.71	1669.91	688.25	198.79	79.60	50.81
270.0	3464.94	3135.74	2697.30	2004.19	953.93	227.16	79.18	47.42	38.53
315.0	3461.34	3170.03	2652.00	1959.73	997.12	304.64	105.85	62.24	39.59
360.0	3462.82	3103.56	2671.05	1921.41	823.95	173.60	73.88	47.21	38.32
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	32.60	28.58	23.71	19.05	14.40	10.37	6.77	3.60	0.85
45.0	32.39	26.89	22.86	18.42	14.61	10.59	6.99	3.81	1.06
90.0	33.24	29.00	24.35	20.11	15.45	11.64	8.47	4.87	1.91
135.0	34.72	28.16	23.71	19.69	15.45	11.43	8.05	4.66	2.12
180.0	33.45	29.22	24.77	19.69	15.45	11.64	7.83	4.23	1.48
225.0	34.72	28.79	23.92	19.90	15.45	11.86	8.05	4.87	1.91
270.0	33.45	28.58	23.50	19.05	14.40	10.59	7.20	4.02	1.27
315.0	33.03	27.31	23.50	18.84	14.82	10.59	6.99	3.81	1.06
360.0	32.60	28.58	23.71	19.05	14.40	10.37	6.77	3.60	0.85
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	0.64	1.06	1.48	1.69	1.69	1.48
45.0	0.00	0.00	0.21	0.85	1.06	1.06	1.69	1.91	1.69
90.0	0.00	0.00	0.00	0.21	0.85	1.27	1.06	1.48	1.69
135.0	0.00	0.00	0.00	0.21	0.64	1.06	1.06	1.69	1.69
180.0	0.00	0.00	0.00	0.64	0.64	1.06	1.27	1.48	1.48
225.0	0.00	0.00	0.00	0.21	0.42	0.85	1.27	1.27	1.48
270.0	0.00	0.21	0.42	0.85	1.06	1.27	1.69	1.69	1.91
315.0	0.00	0.00	0.21	0.64	0.85	1.48	1.69	1.69	1.69
360.0	0.00	0.21	0.42	0.64	1.06	1.48	1.69	1.69	1.48
C/ γ (°)	180.0								
0.0	1.69								
45.0	1.69								
90.0	1.91								
135.0	1.91								
180.0	1.69								
225.0	1.69								
270.0	1.91								
315.0	1.91								
360.0	1.69								