



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

LumCAT:LD4S-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.11

LampCAT:

Current(A): 0.1100

Lamp flux(lm): -1.0

Power (W): 13.00

Number of Lamps: 0

PF: 0.9813

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1190.70, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 91.59

Central intensity(cd): 3310.392, Maximum intensity(cd): 3318.648

Angle of maximum intensity: C=135.0 γ =0.0

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

[C90/270]Total=35.1

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

[C90/270]Total=50.8

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

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(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.959%

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	3311.556	0.000	0	0.00%	0.00%
5.0	3104.670	76.704	76.704	0.00%	6.44%
10.0	2717.757	208.287	284.991	0.00%	23.93%
15.0	2136.713	287.964	572.955	0.00%	48.12%
20.0	1228.959	277.379	850.333	0.00%	71.41%
25.0	382.203	168.981	1019.314	0.00%	85.61%
30.0	106.354	61.827	1081.142	0.00%	90.80%
35.0	56.816	24.028	1105.17	0.00%	92.82%
40.0	39.615	16.089	1121.258	0.00%	94.17%
45.0	31.597	13.185	1134.444	0.00%	95.28%
50.0	26.728	11.785	1146.229	0.00%	96.27%
55.0	22.546	10.714	1156.943	0.00%	97.16%
60.0	18.339	9.450	1166.393	0.00%	97.96%
65.0	14.105	7.887	1174.28	0.00%	98.62%
70.0	10.400	6.205	1180.485	0.00%	99.14%
75.0	7.119	4.579	1185.064	0.00%	99.53%
80.0	3.996	2.974	1188.038	0.00%	99.78%
85.0	1.270	1.431	1189.469	0.00%	99.90%
90.0	0.000	0.348	1189.817	0.00%	99.93%
95.0	0.000	0.000	1189.817	0.00%	99.93%
100.0	0.000	0.000	1189.817	0.00%	99.93%
105.0	0.000	0.000	1189.817	0.00%	99.93%
110.0	0.000	0.000	1189.817	0.00%	99.93%
115.0	0.000	0.000	1189.817	0.00%	99.93%
120.0	0.000	0.000	1189.817	0.00%	99.93%
125.0	0.000	0.000	1189.817	0.00%	99.93%
130.0	0.000	0.000	1189.817	0.00%	99.93%
135.0	0.000	0.000	1189.817	0.00%	99.93%
140.0	0.000	0.000	1189.817	0.00%	99.93%
145.0	0.080	0.013	1189.83	0.00%	99.93%
150.0	0.424	0.074	1189.904	0.00%	99.93%
155.0	0.635	0.134	1190.038	0.00%	99.94%
160.0	0.927	0.164	1190.202	0.00%	99.96%
165.0	1.270	0.181	1190.383	0.00%	99.97%
170.0	1.535	0.166	1190.549	0.00%	99.99%
175.0	1.614	0.113	1190.662	0.00%	100.00%
180.0	1.694	0.040	1190.701	0.00%	100.00%

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

Date:
Humidity(%): 59%

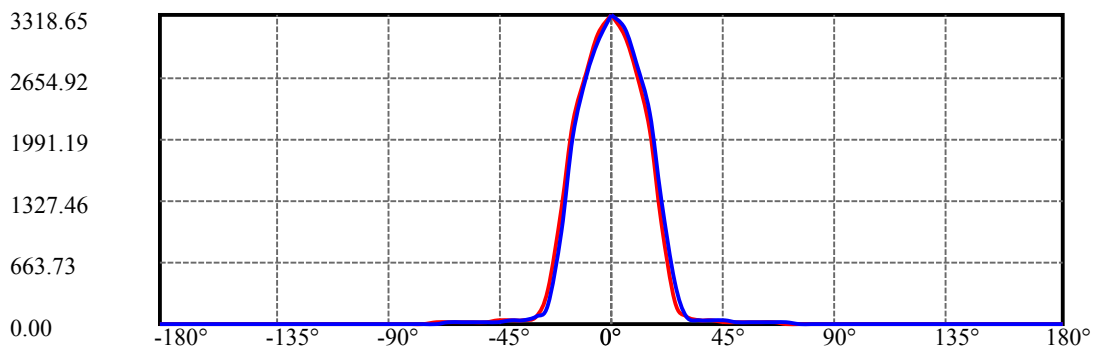
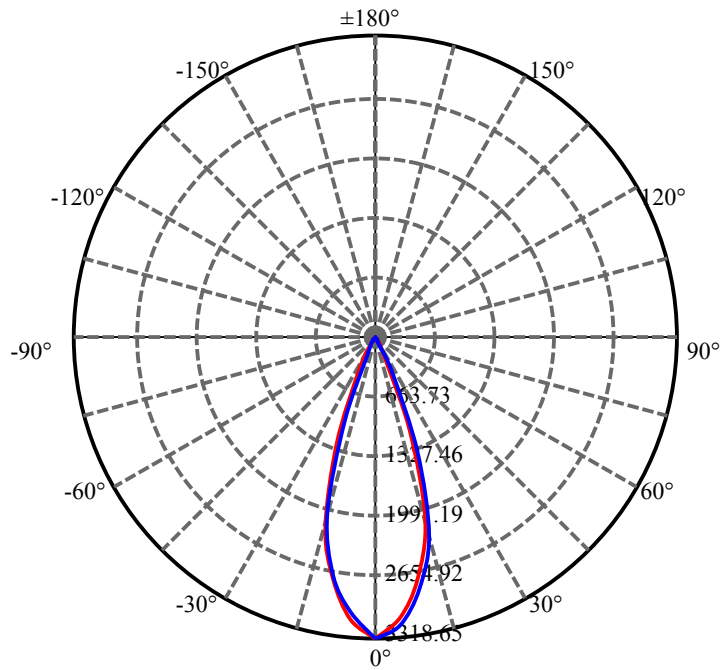
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1081.14	N.A.	90.80%
0-40	1121.26	N.A.	94.17%
0-60	1166.39	N.A.	97.96%
0-90	1189.82	N.A.	99.93%
0-120	1189.82	N.A.	99.93%
0-180	1190.70	N.A.	100.00%
60-90	23.42	N.A.	1.97%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.09	N.A.	0.01%
90-180	0.85	N.A.	0.07%
0-23.02	952.56	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	284.99
10-20	565.34
20-30	230.81
30-40	40.12
40-50	24.97
50-60	20.16
60-70	14.09
70-80	7.55
80-90	1.78
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.09
150-160	0.30
160-170	0.35
170-180	0.11

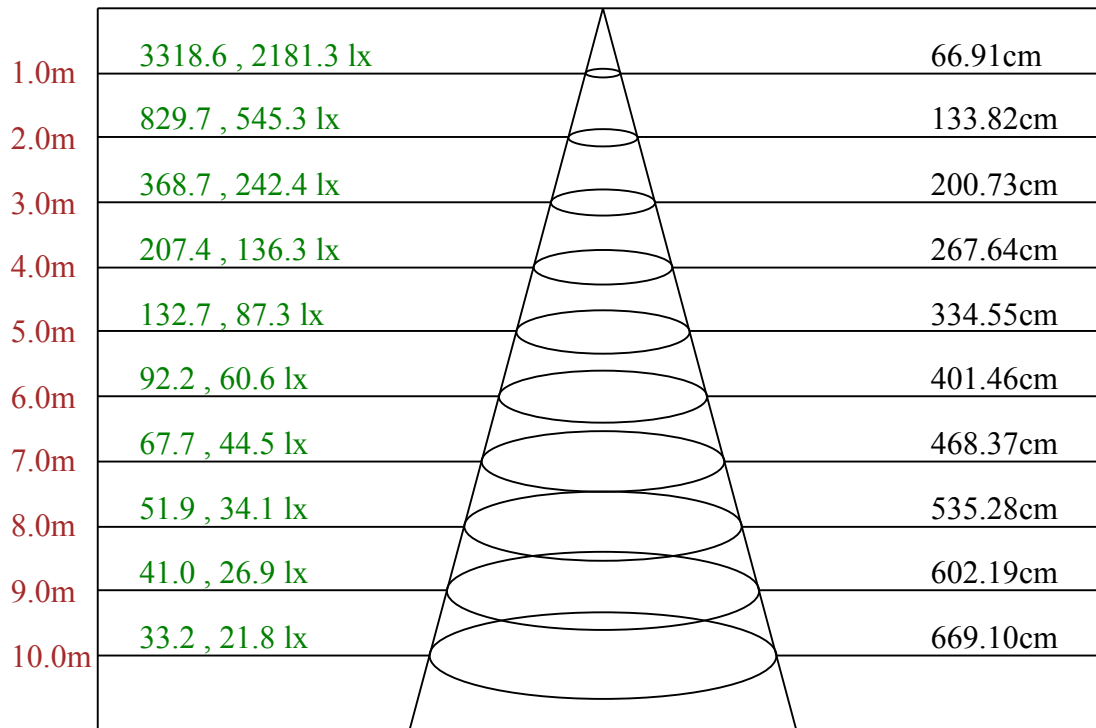


C0/C180: —

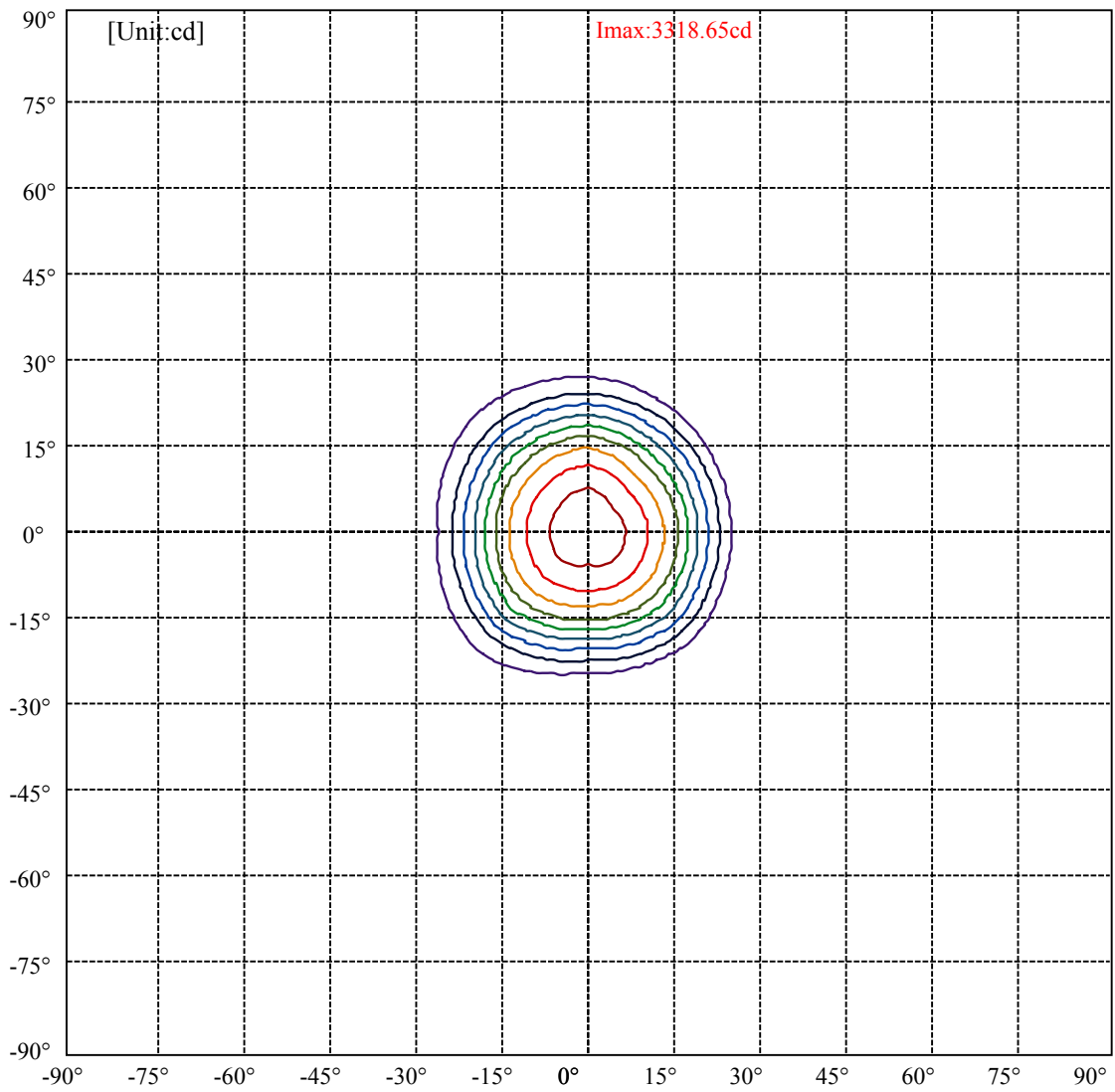
C90/C270: —

Field angle(10%Imax):C0/180Left:25.8 Right:24.6
 :C90/270Left:24.2 Right:26.6

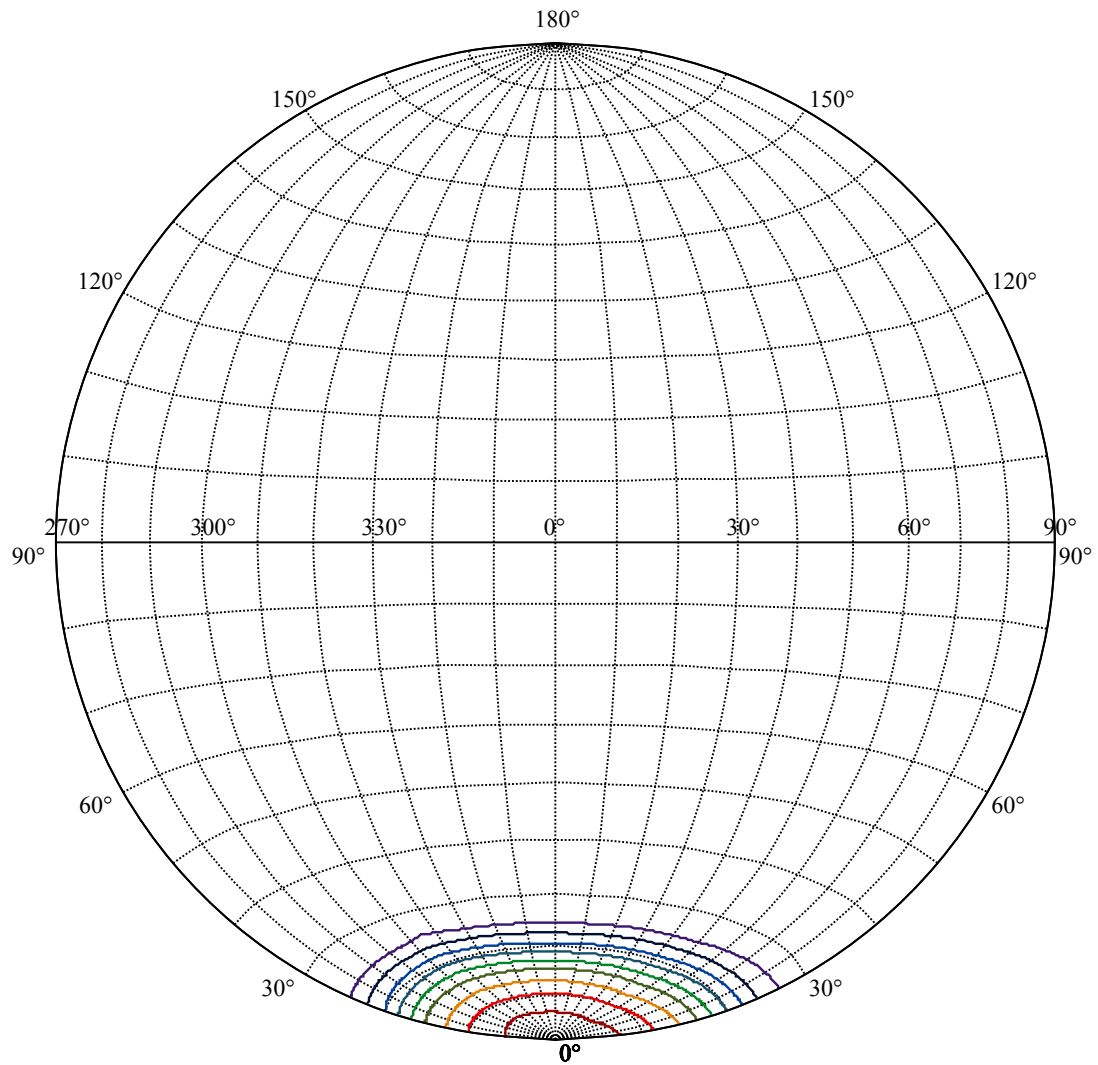
Beam Angle(50%Imax):C0/180Left:17.7 Right:17.2
 :C90/270Left:16.8 Right:18.3



Max , Ave Beam angle of C135 plane 37.00



(10%Imax) 331.632	—
(20%Imax) 663.264	—
(30%Imax) 994.896	—
(40%Imax) 1326.53	—
(50%Imax) 1658.16	—
(60%Imax) 1989.79	—
(70%Imax) 2321.42	—
(80%Imax) 2653.06	—
(90%Imax) 2984.69	—



House

[Unit:cd]

Road

I_{max}:3318.65

(10%I _{max}) 331.865	—
(20%I _{max}) 663.73	—
(30%I _{max}) 995.594	—
(40%I _{max}) 1327.46	—
(50%I _{max}) 1659.32	—
(60%I _{max}) 1991.19	—
(70%I _{max}) 2323.05	—
(80%I _{max}) 2654.92	—
(90%I _{max}) 2986.78	—

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	3310.39	3101.44	2694.55	2088.87	1097.04	257.22	77.91	47.21	37.05
45.0	3300.87	3062.07	2646.49	2013.08	1129.65	319.67	111.78	60.55	37.68
90.0	3316.32	3175.75	2811.83	2258.44	1341.98	445.85	89.34	49.96	38.32
135.0	3318.65	3108.85	2740.91	2177.36	1343.25	528.83	151.16	69.44	44.67
180.0	3310.39	3108.85	2709.16	2161.69	1227.03	378.10	81.08	48.90	38.32
225.0	3300.87	3119.23	2755.10	2230.07	1438.94	549.16	142.90	69.23	45.94
270.0	3316.32	3036.87	2667.03	2021.12	988.86	215.09	76.21	46.58	36.41
315.0	3318.65	3124.31	2716.99	2143.06	1264.92	363.71	120.46	62.66	38.53
360.0	3310.39	3101.44	2694.55	2088.87	1097.04	257.22	77.91	47.21	37.05
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	30.49	26.25	22.02	17.57	13.34	9.74	6.35	3.39	0.85
45.0	31.12	25.40	21.59	17.57	13.34	9.74	6.56	3.60	1.06
90.0	32.18	28.37	23.92	19.27	15.24	11.22	7.62	4.45	1.91
135.0	32.81	27.31	23.08	19.05	15.03	11.22	7.83	4.66	1.48
180.0	31.76	27.95	23.71	19.48	14.82	10.80	7.62	4.23	1.48
225.0	32.60	26.89	22.86	19.05	14.61	11.22	7.83	4.45	1.48
270.0	30.91	26.68	21.81	17.57	13.13	9.74	6.56	3.60	0.85
315.0	30.91	24.98	21.38	17.15	13.34	9.53	6.56	3.60	1.06
360.0	30.49	26.25	22.02	17.57	13.34	9.74	6.35	3.39	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	0.00	0.21	0.64	0.64	1.06	1.69	1.48	1.48
45.0	0.00	0.00	0.21	0.42	0.85	1.06	1.48	1.91	1.69
90.0	0.00	0.00	0.00	0.21	0.21	0.64	1.06	1.48	1.48
135.0	0.00	0.00	0.00	0.21	0.64	0.85	1.06	1.48	1.69
180.0	0.00	0.00	0.00	0.21	0.64	0.85	1.27	1.48	1.48
225.0	0.00	0.00	0.00	0.21	0.64	1.06	1.06	1.48	1.91
270.0	0.00	0.00	0.00	0.85	0.85	1.06	1.27	1.48	1.69
315.0	0.00	0.00	0.21	0.64	0.64	0.85	1.27	1.48	1.48
360.0	0.00	0.00	0.21	0.64	0.64	1.06	1.69	1.48	1.48
C/ γ (°)	180.0								
0.0	1.69								
45.0	1.69								
90.0	1.69								
135.0	1.69								
180.0	1.69								
225.0	1.69								
270.0	1.69								
315.0	1.69								
360.0	1.69								