



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

LumCAT: LD3S-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.18

Number of Lamps: 1

PF: 0.9842

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1346.58, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 94.96

Central intensity(cd): 2242.282, Maximum intensity(cd): 2254.843

Angle of maximum intensity: C=225.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=40.2

[C90/270]Total=40.1

Field angle(10%Imax): [C0/180]Total=72.4

[C90/270]Total=72.4

Maximum s/h(1/2): C0_180=0.70 C90_270=0.64

Maximum s/h(1/4): C0_180=0.72 C90_270=0.66

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.36%

Down flux rate of LUM(%): 99.64%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.554%

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

Date:
Humidity(%): 59%

Operator: Tester

LD3S-5CCT-3500K

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	2242.282	0.000	0	0.00%	0.00%
5.0	2134.702	52.326	52.326	0.00%	3.89%
10.0	1861.368	142.952	195.278	0.00%	14.50%
15.0	1500.653	199.433	394.71	0.00%	29.31%
20.0	1128.745	216.699	611.41	0.00%	45.40%
25.0	781.050	200.302	811.712	0.00%	60.28%
30.0	470.773	158.419	970.131	0.00%	72.04%
35.0	257.457	107.237	1077.368	0.00%	80.01%
40.0	152.294	68.364	1145.732	0.00%	85.08%
45.0	104.502	47.548	1193.28	0.00%	88.62%
50.0	79.415	37.163	1230.443	0.00%	91.38%
55.0	62.320	30.818	1261.261	0.00%	93.66%
60.0	47.792	25.452	1286.713	0.00%	95.55%
65.0	34.799	20.078	1306.791	0.00%	97.05%
70.0	22.335	14.466	1321.257	0.00%	98.12%
75.0	14.581	9.649	1330.906	0.00%	98.84%
80.0	8.733	6.238	1337.144	0.00%	99.30%
85.0	3.784	3.401	1340.545	0.00%	99.55%
90.0	0.529	1.181	1341.726	0.00%	99.64%
95.0	0.371	0.246	1341.973	0.00%	99.66%
100.0	0.371	0.201	1342.174	0.00%	99.67%
105.0	0.397	0.205	1342.379	0.00%	99.69%
110.0	0.450	0.221	1342.601	0.00%	99.70%
115.0	0.423	0.221	1342.822	0.00%	99.72%
120.0	0.529	0.232	1343.053	0.00%	99.74%
125.0	0.556	0.251	1343.304	0.00%	99.76%
130.0	0.635	0.259	1343.563	0.00%	99.78%
135.0	0.820	0.294	1343.857	0.00%	99.80%
140.0	0.953	0.328	1344.185	0.00%	99.82%
145.0	1.218	0.362	1344.548	0.00%	99.85%
150.0	1.429	0.390	1344.937	0.00%	99.88%
155.0	1.720	0.399	1345.336	0.00%	99.91%
160.0	2.038	0.394	1345.73	0.00%	99.94%
165.0	2.170	0.347	1346.077	0.00%	99.96%
170.0	2.382	0.270	1346.347	0.00%	99.98%
175.0	2.435	0.172	1346.519	0.00%	100.00%
180.0	2.611	0.060	1346.579	0.00%	100.00%

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

Date:
Humidity(%): 59%

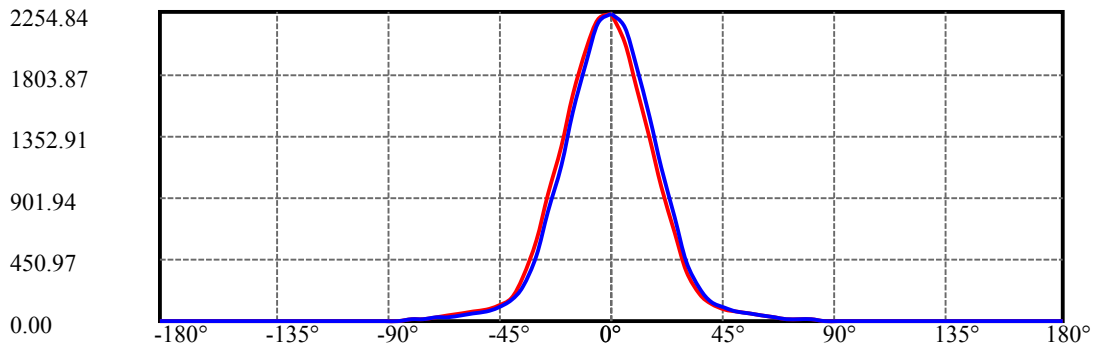
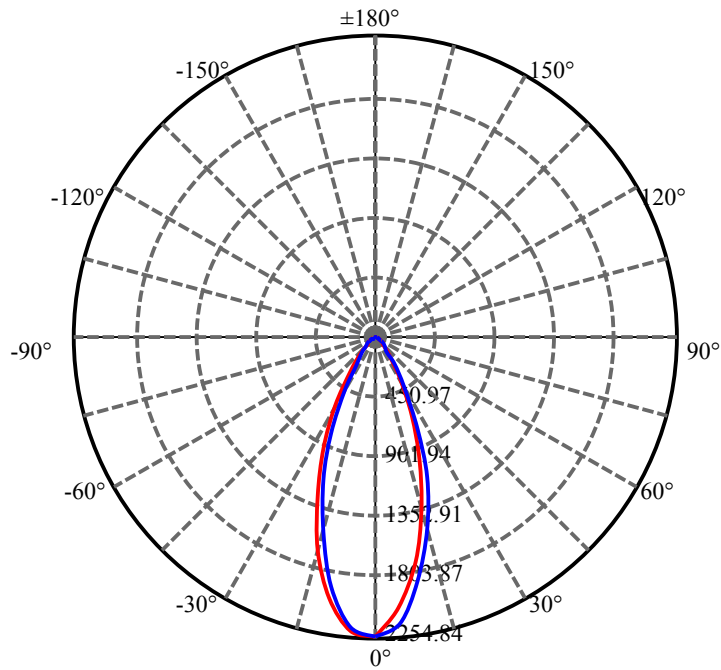
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	970.13	N.A.	72.04%
0-40	1145.73	N.A.	85.08%
0-60	1286.71	N.A.	95.55%
0-90	1341.73	N.A.	99.64%
0-120	1343.05	N.A.	99.74%
0-180	1346.58	N.A.	100.00%
60-90	55.01	N.A.	4.09%
90-120	1.33	N.A.	0.10%
90-130	1.84	N.A.	0.14%
90-150	3.21	N.A.	0.24%
90-180	4.79	N.A.	0.36%
0-35.00	1077.26	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	195.28
10-20	416.13
20-30	358.72
30-40	175.60
40-50	84.71
50-60	56.27
60-70	34.54
70-80	15.89
80-90	4.58
90-100	0.45
100-110	0.43
110-120	0.45
120-130	0.51
130-140	0.62
140-150	0.75
150-160	0.79
160-170	0.62
170-180	0.17



C0/C180: —

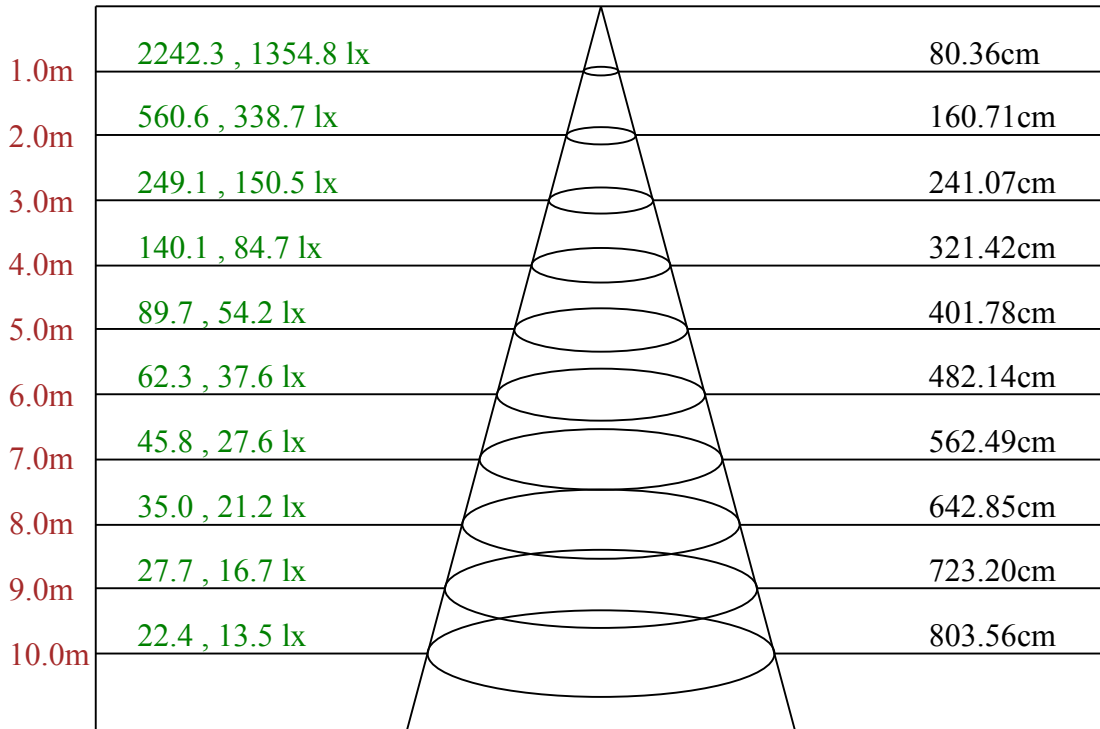
C90/C270: —

Field angle(10%Imax):C0/180Left:38.2 Right:34.2

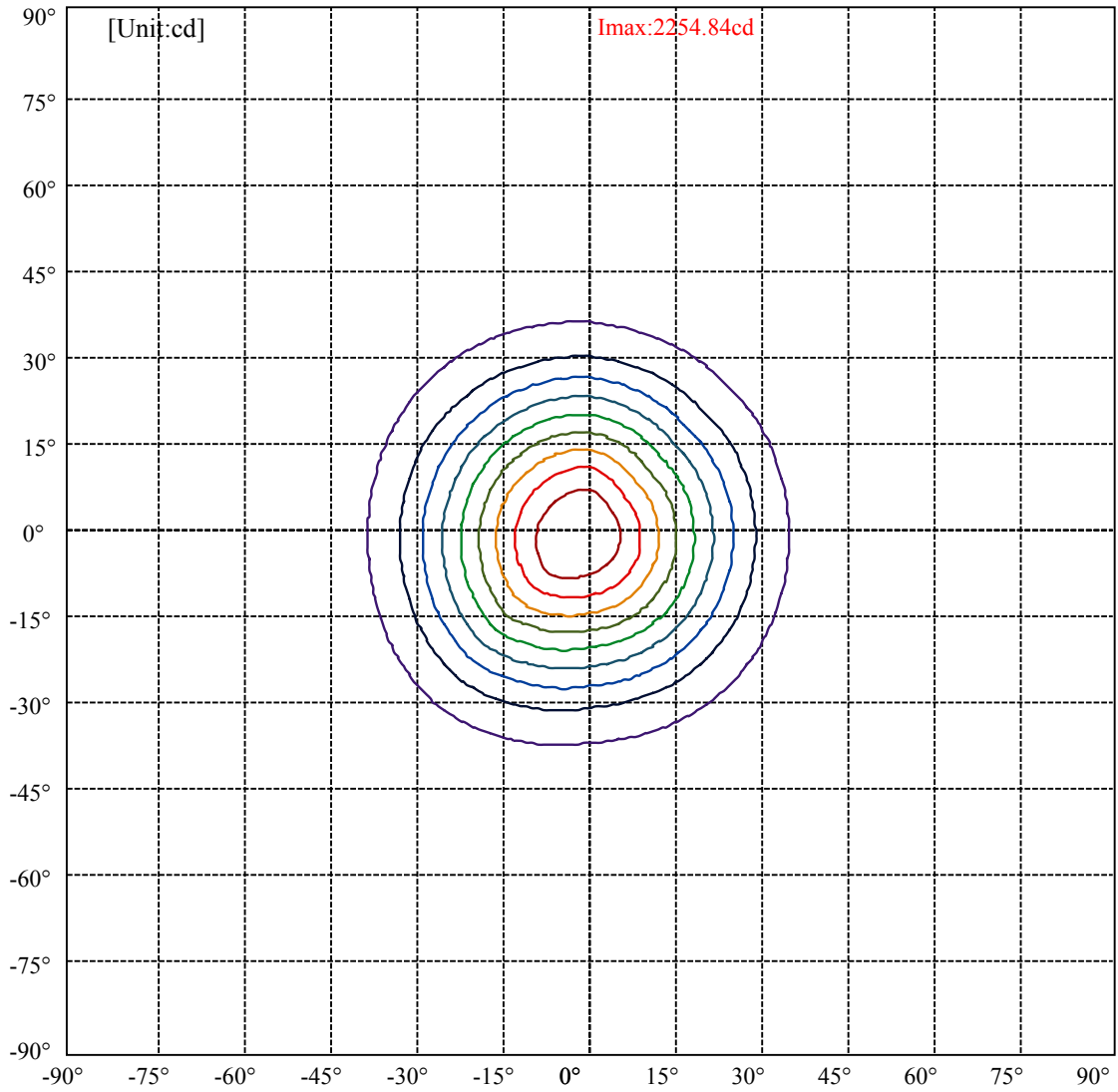
:C90/270Left:36.6 Right:35.8

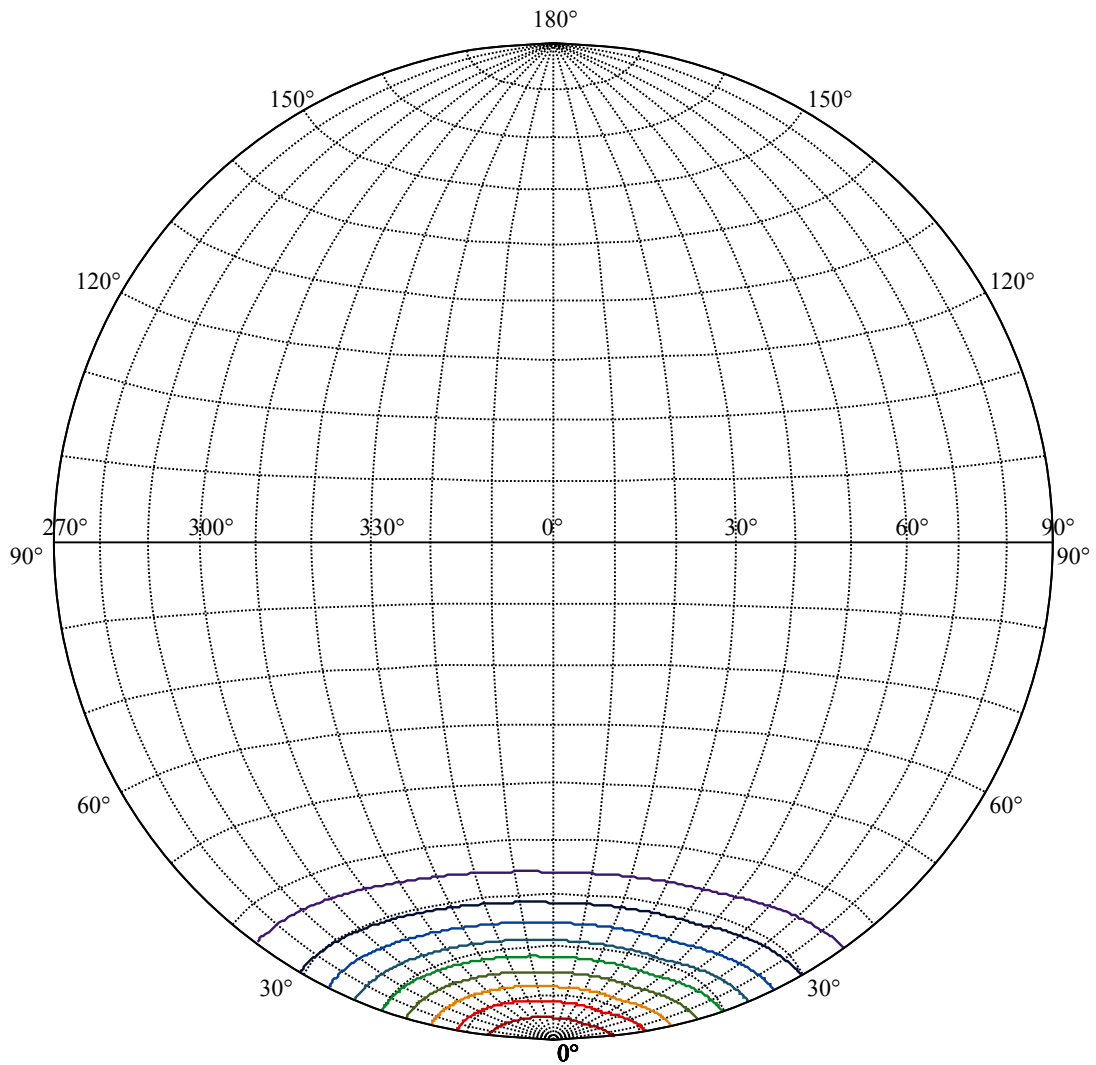
Beam Angle(50%Imax):C0/180Left:22.2 Right:18.0

:C90/270Left:20.2 Right:19.9



Max , Ave Beam angle of C225 plane 43.78





House

[Unit:cd]

Road

Imax:2254.84

(10%Imax) 225.484	—
(20%Imax) 450.969	—
(30%Imax) 676.453	—
(40%Imax) 901.937	—
(50%Imax) 1127.42	—
(60%Imax) 1352.91	—
(70%Imax) 1578.39	—
(80%Imax) 1803.87	—
(90%Imax) 2029.36	—

LD3S-5CCT-3500K

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	2242.28	2035.31	1710.13	1332.03	980.82	650.77	362.44	197.73	126.18
45.0	2242.28	2027.69	1683.25	1303.66	933.19	607.80	334.91	186.93	127.66
90.0	2242.28	2146.03	1858.54	1487.00	1113.56	753.87	436.95	238.59	144.17
135.0	2242.28	2150.69	1905.32	1550.93	1172.20	808.92	490.94	267.17	157.30
180.0	2242.28	2200.01	1986.19	1651.70	1274.24	924.51	592.98	317.13	170.00
225.0	2242.28	2254.84	2054.79	1732.57	1370.35	1004.11	660.94	367.09	195.83
270.0	2242.28	2173.34	1892.20	1520.02	1133.46	791.98	472.52	256.16	153.27
315.0	2242.28	2089.72	1800.53	1427.30	1052.16	706.45	414.51	228.85	143.96
360.0	2242.28	2035.31	1710.13	1332.03	980.82	650.77	362.44	197.73	126.18

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	87.43	68.38	55.68	43.82	29.85	19.27	13.55	7.62	2.75
45.0	96.33	78.33	58.43	43.61	31.12	19.27	12.28	6.77	2.33
90.0	98.44	72.83	58.85	46.79	32.81	19.90	14.18	8.05	3.18
135.0	110.93	86.80	66.90	49.33	36.41	23.71	14.18	8.68	4.02
180.0	110.72	78.97	63.09	50.60	38.11	24.13	16.09	10.16	4.87
225.0	127.66	93.57	74.10	54.20	41.07	27.52	17.15	10.59	5.50
270.0	100.77	74.10	59.28	47.21	34.72	22.23	15.67	9.53	4.02
315.0	103.73	82.35	62.24	46.79	34.30	22.65	13.55	8.47	3.60
360.0	87.43	68.38	55.68	43.82	29.85	19.27	13.55	7.62	2.75

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.42	0.42	0.64	0.64	0.64	0.85	0.64	1.06
45.0	0.85	0.64	0.64	0.64	0.64	0.64	0.85	0.85	0.85
90.0	0.21	0.21	0.21	0.21	0.21	0.00	0.42	0.42	0.21
135.0	0.21	0.21	0.00	0.42	0.21	0.21	0.21	0.42	0.42
180.0	0.64	0.00	0.21	0.21	0.42	0.42	0.21	0.42	0.42
225.0	1.27	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.42
270.0	0.42	0.64	0.64	0.42	0.64	0.64	0.85	0.85	0.85
315.0	0.21	0.64	0.64	0.42	0.42	0.64	0.42	0.64	0.85
360.0	0.42	0.42	0.42	0.64	0.64	0.64	0.85	0.64	1.06

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.06	1.27	1.27	1.69	1.91	2.12	2.33	2.54	2.33
45.0	1.06	1.27	1.48	1.69	1.91	2.33	2.12	2.33	2.33
90.0	0.64	0.85	1.06	1.27	1.48	1.91	2.12	2.33	2.33
135.0	0.64	0.64	1.06	1.48	1.69	1.91	2.33	2.12	2.12
180.0	0.64	0.85	1.06	1.27	1.48	1.69	1.91	2.33	2.33
225.0	0.42	0.42	1.06	1.06	1.69	1.48	1.91	2.33	2.54
270.0	1.27	1.06	1.48	1.48	1.91	2.33	2.33	2.54	2.75
315.0	0.85	1.27	1.27	1.48	1.69	2.54	2.33	2.54	2.75
360.0	1.06	1.27	1.27	1.69	1.91	2.12	2.33	2.54	2.33

C/γ(°)	180.0
0.0	2.61
45.0	2.61
90.0	2.61
135.0	2.61
180.0	2.61
225.0	2.61
270.0	2.61
315.0	2.61
360.0	2.61