



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

LumCAT: LD3S-5CCT-5SSL-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.11

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.16

Number of Lamps: 1

PF: 0.9845

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1376.33, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 97.20

Central intensity(cd): 553.360, Maximum intensity(cd): 2163.770

Angle of maximum intensity: C=0.0 γ =30.0

Beam Angle(50%Imax): [C0/180]Total=54.8

[C90/270]Total=45.6

Field angle(10%Imax): [C0/180]Total=72.6

[C90/270]Total=120.3

Maximum s/h(1/2): C0_180=0.29 C90_270=0.71

Maximum s/h(1/4): C0_180=0.62 C90_270=0.81

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.40%

Down flux rate of LUM(%): 99.60%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.165%

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

Date:
Humidity(%): 59%

Operator: Tester

LD3S-5CCT-5SSL-4000K

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	553.360	0.000	0	0.00%	0.00%
5.0	567.082	13.395	13.395	0.00%	0.97%
10.0	602.193	41.829	55.223	0.00%	4.01%
15.0	644.908	73.977	129.2	0.00%	9.39%
20.0	673.196	108.630	237.831	0.00%	17.28%
25.0	674.029	141.299	379.13	0.00%	27.55%
30.0	640.207	166.318	545.447	0.00%	39.63%
35.0	570.467	178.280	723.727	0.00%	52.58%
40.0	468.973	173.423	897.15	0.00%	65.18%
45.0	349.345	151.518	1048.668	0.00%	76.19%
50.0	236.542	118.387	1167.055	0.00%	84.79%
55.0	133.624	80.486	1247.541	0.00%	90.64%
60.0	76.107	48.479	1296.02	0.00%	94.16%
65.0	49.189	30.460	1326.48	0.00%	96.38%
70.0	30.061	20.067	1346.547	0.00%	97.84%
75.0	17.193	12.352	1358.898	0.00%	98.73%
80.0	9.215	7.066	1365.964	0.00%	99.25%
85.0	3.788	3.533	1369.497	0.00%	99.50%
90.0	0.860	1.273	1370.77	0.00%	99.60%
95.0	0.430	0.353	1371.123	0.00%	99.62%
100.0	0.484	0.248	1371.371	0.00%	99.64%
105.0	0.511	0.266	1371.637	0.00%	99.66%
110.0	0.618	0.295	1371.932	0.00%	99.68%
115.0	0.672	0.327	1372.259	0.00%	99.70%
120.0	0.752	0.346	1372.605	0.00%	99.73%
125.0	0.833	0.366	1372.972	0.00%	99.76%
130.0	0.967	0.391	1373.363	0.00%	99.78%
135.0	1.075	0.413	1373.776	0.00%	99.81%
140.0	1.290	0.438	1374.214	0.00%	99.85%
145.0	1.316	0.435	1374.648	0.00%	99.88%
150.0	1.424	0.404	1375.052	0.00%	99.91%
155.0	1.639	0.388	1375.439	0.00%	99.94%
160.0	1.424	0.321	1375.761	0.00%	99.96%
165.0	1.531	0.244	1376.004	0.00%	99.98%
170.0	1.504	0.180	1376.184	0.00%	99.99%
175.0	1.531	0.109	1376.293	0.00%	100.00%
180.0	1.600	0.037	1376.33	0.00%	100.00%

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

Date:
Humidity(%): 59%

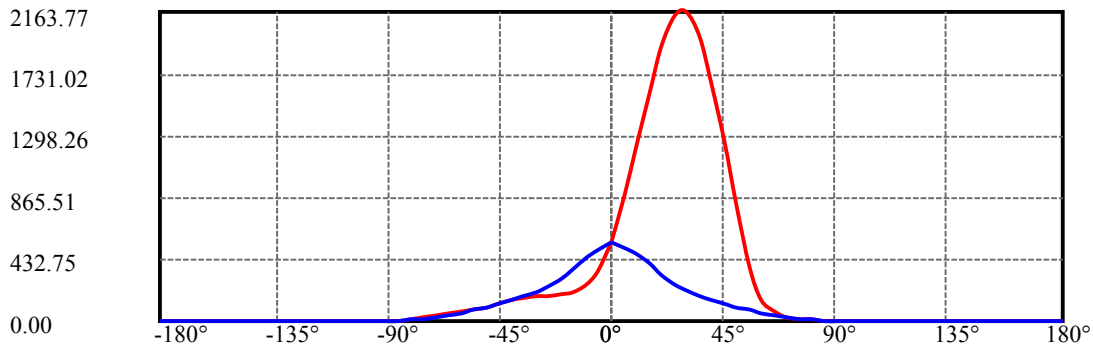
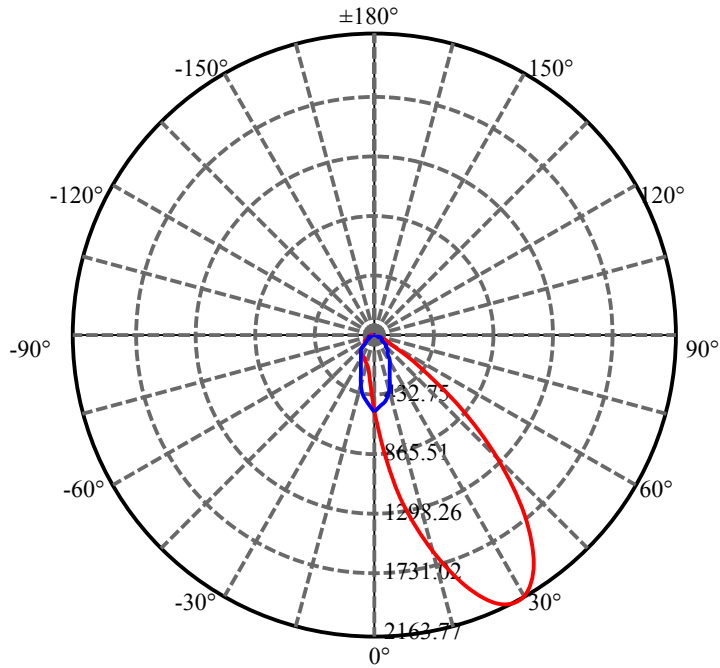
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	545.45	N.A.	39.63%
0-40	897.15	N.A.	65.18%
0-60	1296.02	N.A.	94.16%
0-90	1370.77	N.A.	99.60%
0-120	1372.61	N.A.	99.73%
0-180	1376.33	N.A.	100.00%
60-90	74.75	N.A.	5.43%
90-120	1.84	N.A.	0.13%
90-130	2.59	N.A.	0.19%
90-150	4.28	N.A.	0.31%
90-180	5.52	N.A.	0.40%
0-47.21	1101.06	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	55.22
10-20	182.61
20-30	307.62
30-40	351.70
40-50	269.91
50-60	128.96
60-70	50.53
70-80	19.42
80-90	4.81
90-100	0.60
100-110	0.56
110-120	0.67
120-130	0.76
130-140	0.85
140-150	0.84
150-160	0.71
160-170	0.42
170-180	0.11

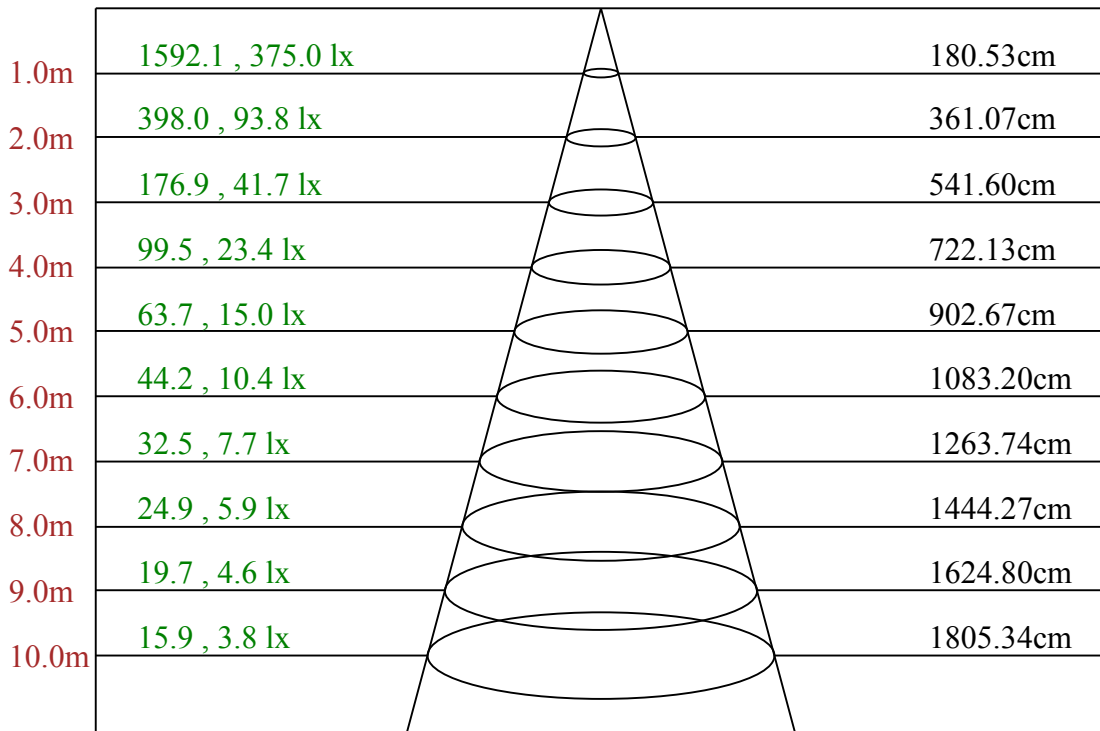


C0/C180: —

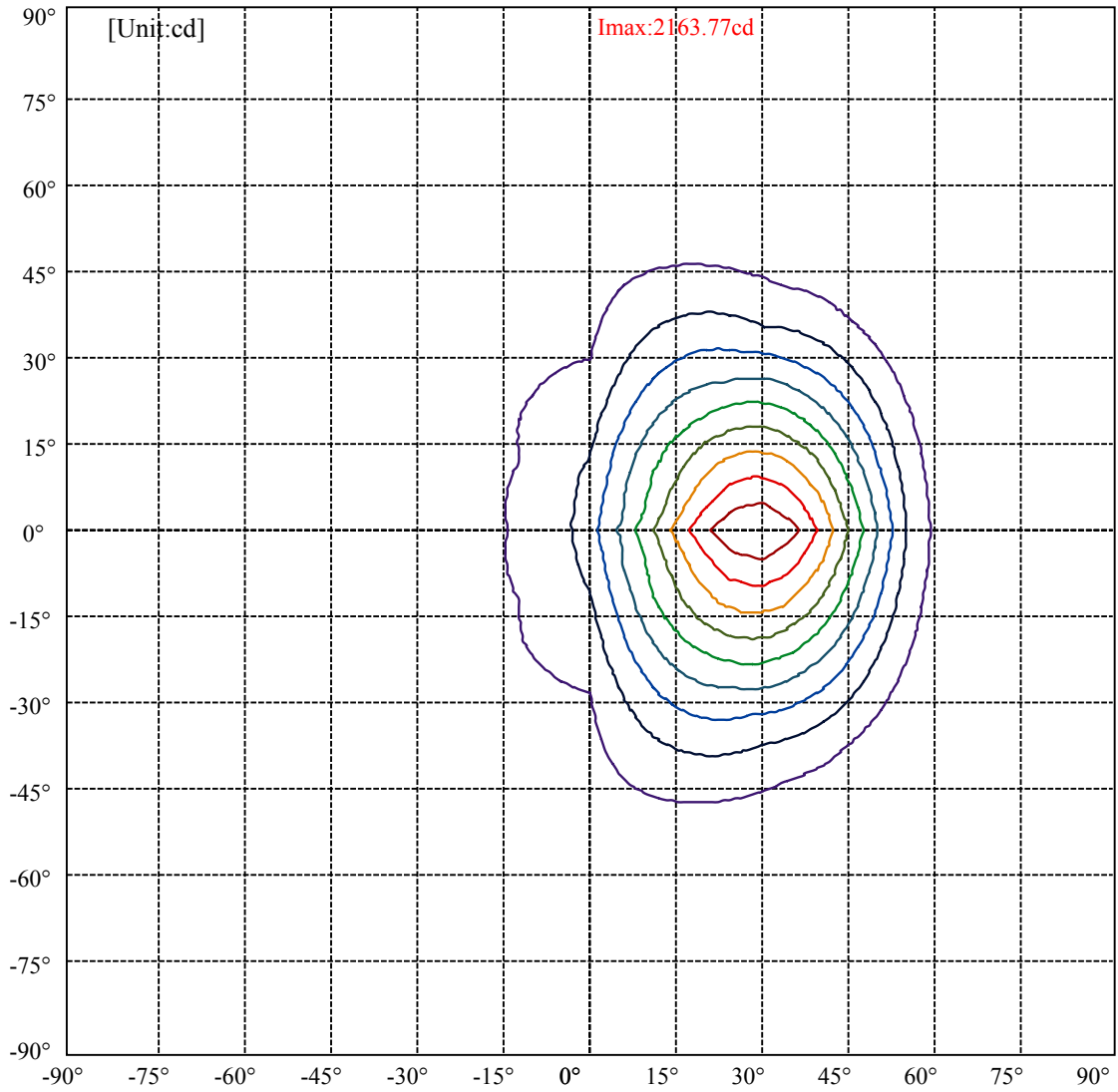
C90/C270: —

Field angle(10%I_{max}):C0/180Left:14.1 Right:58.5
:C90/270Left:60.0 Right:60.3

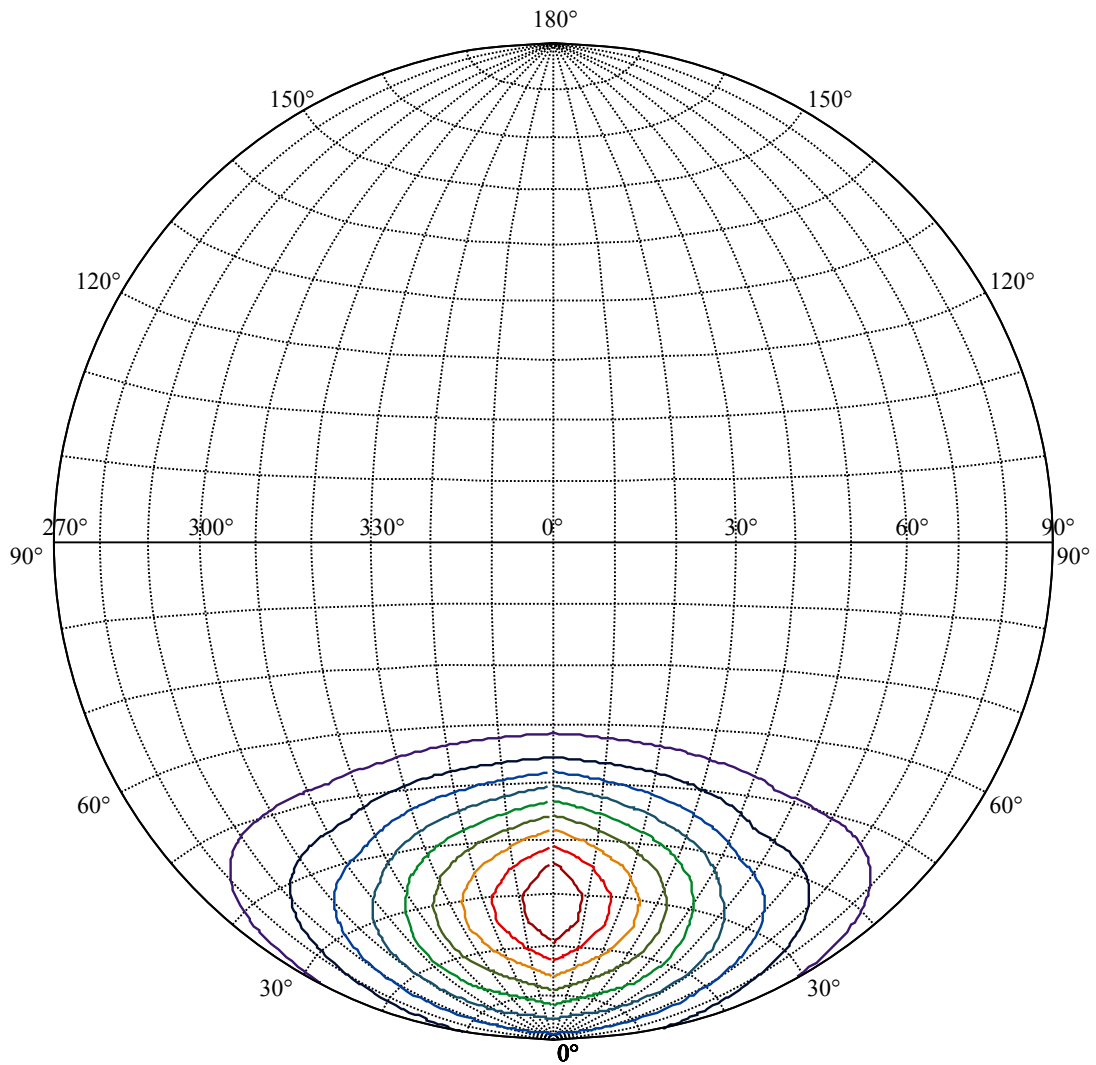
Beam Angle(50%I_{max}):C0/180Left:7.9 Right:46.9
:C90/270Left:21.9 Right:23.7



Max , Ave Beam angle of C0 plane 84.14



(10%Imax) 216.377	—
(20%Imax) 432.754	—
(30%Imax) 649.131	—
(40%Imax) 865.508	—
(50%Imax) 1081.89	—
(60%Imax) 1298.26	—
(70%Imax) 1514.64	—
(80%Imax) 1731.02	—
(90%Imax) 1947.39	—



House

[Unit:cd]

Road

Imax:2163.77

(10%Imax) 216.377	—
(20%Imax) 432.754	—
(30%Imax) 649.131	—
(40%Imax) 865.508	—
(50%Imax) 1081.89	—
(60%Imax) 1298.26	—
(70%Imax) 1514.64	—
(80%Imax) 1731.02	—
(90%Imax) 1947.39	—

LD3S-5CCT-5SSL-4000K

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	553.36	884.38	1227.81	1595.32	1918.77	2130.89	2163.77	1995.06	1666.67
45.0	553.36	746.19	921.99	1050.72	1106.39	1081.89	983.02	834.52	639.80
90.0	553.36	515.15	469.81	401.25	326.24	258.76	210.19	174.51	147.43
135.0	553.36	395.45	284.33	228.67	197.94	179.46	170.21	163.55	152.81
180.0	553.36	354.40	252.53	208.04	185.69	176.88	172.15	162.48	143.56
225.0	553.36	389.21	284.55	229.10	198.80	181.60	172.58	165.92	156.46
270.0	553.36	496.67	439.29	367.51	299.16	239.85	198.80	168.49	144.64
315.0	553.36	755.21	937.25	1078.66	1152.59	1142.92	1050.94	899.21	700.41
360.0	553.36	884.38	1227.81	1595.32	1918.77	2130.89	2163.77	1995.06	1666.67

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1247.16	818.40	380.62	145.50	69.85	32.67	15.47	8.38	3.22
45.0	420.81	251.67	139.27	80.16	50.72	29.01	15.04	8.17	4.51
90.0	125.08	99.94	75.65	56.31	38.90	24.29	15.04	8.38	3.44
135.0	136.69	116.91	84.03	58.67	43.63	30.52	18.91	9.89	4.08
180.0	116.70	95.42	78.87	64.91	51.80	37.83	24.07	12.04	4.08
225.0	139.91	118.63	85.11	62.76	47.07	33.74	21.92	12.04	4.73
270.0	122.93	97.14	74.79	55.23	38.04	22.57	13.54	7.31	3.01
315.0	485.49	294.22	150.66	85.32	53.51	29.87	13.54	7.52	3.22
360.0	1247.16	818.40	380.62	145.50	69.85	32.67	15.47	8.38	3.22

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.65	0.65	0.65	0.65	0.65	0.65	0.86	0.65	0.65
45.0	1.08	0.43	0.86	0.65	0.86	0.65	0.65	0.86	1.08
90.0	1.29	0.43	0.22	0.22	0.43	0.65	0.65	0.65	0.65
135.0	1.08	0.22	0.22	0.43	0.22	0.43	0.43	0.86	0.65
180.0	0.43	0.22	0.22	0.22	0.43	0.65	0.65	0.86	1.50
225.0	0.43	0.22	0.22	0.43	0.65	0.65	0.65	0.65	1.08
270.0	1.08	0.86	0.86	0.86	1.08	0.86	1.29	1.29	1.29
315.0	0.86	0.43	0.65	0.65	0.65	0.86	0.86	0.86	0.86
360.0	0.65	0.65	0.65	0.65	0.65	0.65	0.86	0.65	0.65

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.86	1.08	0.86	1.08	1.08	0.86	1.29	1.08	1.50
45.0	0.86	1.08	0.86	0.86	1.29	1.08	1.50	1.29	1.50
90.0	0.86	0.86	0.86	1.08	1.08	1.08	1.29	1.29	1.50
135.0	0.86	1.08	1.29	1.50	1.50	1.50	1.29	1.50	1.29
180.0	1.72	2.15	2.15	2.36	2.58	1.93	1.93	1.72	1.29
225.0	1.50	1.72	2.15	2.36	2.79	2.36	2.15	2.15	1.93
270.0	1.08	1.29	1.50	1.29	1.72	1.72	1.72	1.72	1.50
315.0	0.86	1.08	0.86	0.86	1.08	0.86	1.08	1.29	1.72
360.0	0.86	1.08	0.86	1.08	1.08	0.86	1.29	1.08	1.50

C/γ(°)	180.0
0.0	1.60
45.0	1.60
90.0	1.60
135.0	1.60
180.0	1.60
225.0	1.60
270.0	1.60
315.0	1.60
360.0	1.60