



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

LumCAT: LD3S-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.17

Number of Lamps: 1

PF: 0.9843

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1293.12, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 91.26

Central intensity(cd): 2163.718, Maximum intensity(cd): 2163.718

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=39.7

[C90/270]Total=40.8

Field angle(10%Imax): [C0/180]Total=71.7

[C90/270]Total=72.7

Maximum s/h(1/2): C0_180=0.65 C90_270=0.69

Maximum s/h(1/4): C0_180=0.68 C90_270=0.71

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.33%

Down flux rate of LUM(%): 99.67%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.628%

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

Date:
Humidity(%): 59%

Operator: Tester

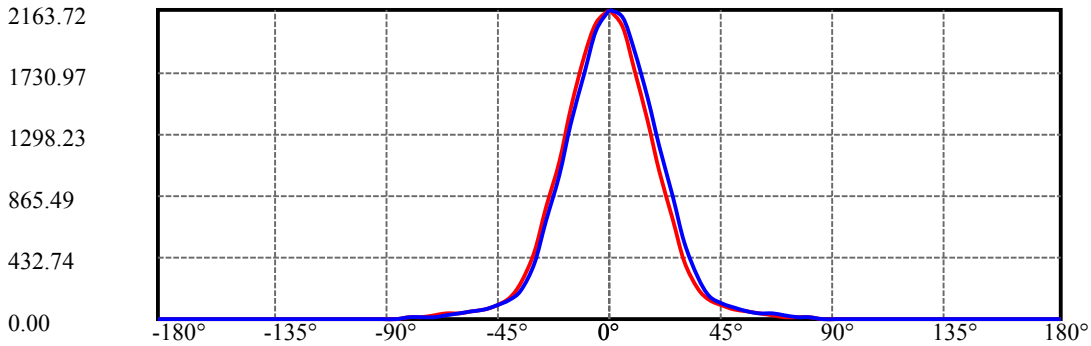
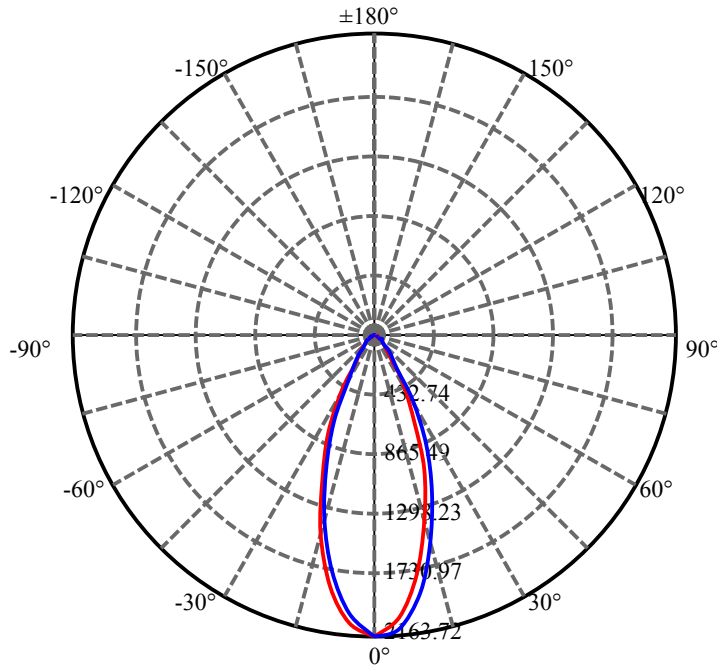
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2163.718	0.000	0	0.00%	0.00%
5.0	2057.457	50.463	50.463	0.00%	3.90%
10.0	1794.311	137.790	188.253	0.00%	14.56%
15.0	1444.870	192.146	380.399	0.00%	29.42%
20.0	1089.236	208.846	589.245	0.00%	45.57%
25.0	755.381	193.466	782.711	0.00%	60.53%
30.0	450.265	152.575	935.286	0.00%	72.33%
35.0	242.241	101.976	1037.263	0.00%	80.21%
40.0	144.328	64.496	1101.759	0.00%	85.20%
45.0	99.447	45.137	1146.896	0.00%	88.69%
50.0	76.398	35.532	1182.428	0.00%	91.44%
55.0	59.991	29.656	1212.083	0.00%	93.73%
60.0	45.966	24.492	1236.575	0.00%	95.63%
65.0	33.290	19.267	1255.842	0.00%	97.12%
70.0	21.197	13.796	1269.639	0.00%	98.18%
75.0	13.734	9.130	1278.769	0.00%	98.89%
80.0	8.230	5.877	1284.646	0.00%	99.34%
85.0	3.440	3.171	1287.817	0.00%	99.59%
90.0	0.370	1.043	1288.861	0.00%	99.67%
95.0	0.238	0.167	1289.027	0.00%	99.68%
100.0	0.344	0.158	1289.185	0.00%	99.70%
105.0	0.344	0.184	1289.369	0.00%	99.71%
110.0	0.238	0.152	1289.522	0.00%	99.72%
115.0	0.344	0.147	1289.669	0.00%	99.73%
120.0	0.476	0.199	1289.868	0.00%	99.75%
125.0	0.556	0.239	1290.107	0.00%	99.77%
130.0	0.582	0.247	1290.354	0.00%	99.79%
135.0	0.794	0.278	1290.632	0.00%	99.81%
140.0	0.953	0.323	1290.956	0.00%	99.83%
145.0	1.059	0.336	1291.291	0.00%	99.86%
150.0	1.270	0.343	1291.634	0.00%	99.89%
155.0	1.641	0.368	1292.003	0.00%	99.91%
160.0	1.800	0.361	1292.364	0.00%	99.94%
165.0	2.011	0.314	1292.678	0.00%	99.97%
170.0	1.985	0.237	1292.915	0.00%	99.98%
175.0	2.144	0.148	1293.062	0.00%	100.00%
180.0	2.376	0.054	1293.116	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	935.29	N.A.	72.33%
0-40	1101.76	N.A.	85.20%
0-60	1236.58	N.A.	95.63%
0-90	1288.86	N.A.	99.67%
0-120	1289.87	N.A.	99.75%
0-180	1293.12	N.A.	100.00%
60-90	52.29	N.A.	4.04%
90-120	1.01	N.A.	0.08%
90-130	1.49	N.A.	0.12%
90-150	2.77	N.A.	0.21%
90-180	4.20	N.A.	0.32%
0-34.86	1034.49	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	188.25
10-20	400.99
20-30	346.04
30-40	166.47
40-50	80.67
50-60	54.15
60-70	33.06
70-80	15.01
80-90	4.21
90-100	0.32
100-110	0.34
110-120	0.35
120-130	0.49
130-140	0.60
140-150	0.68
150-160	0.73
160-170	0.55
170-180	0.15



C0/C180: —

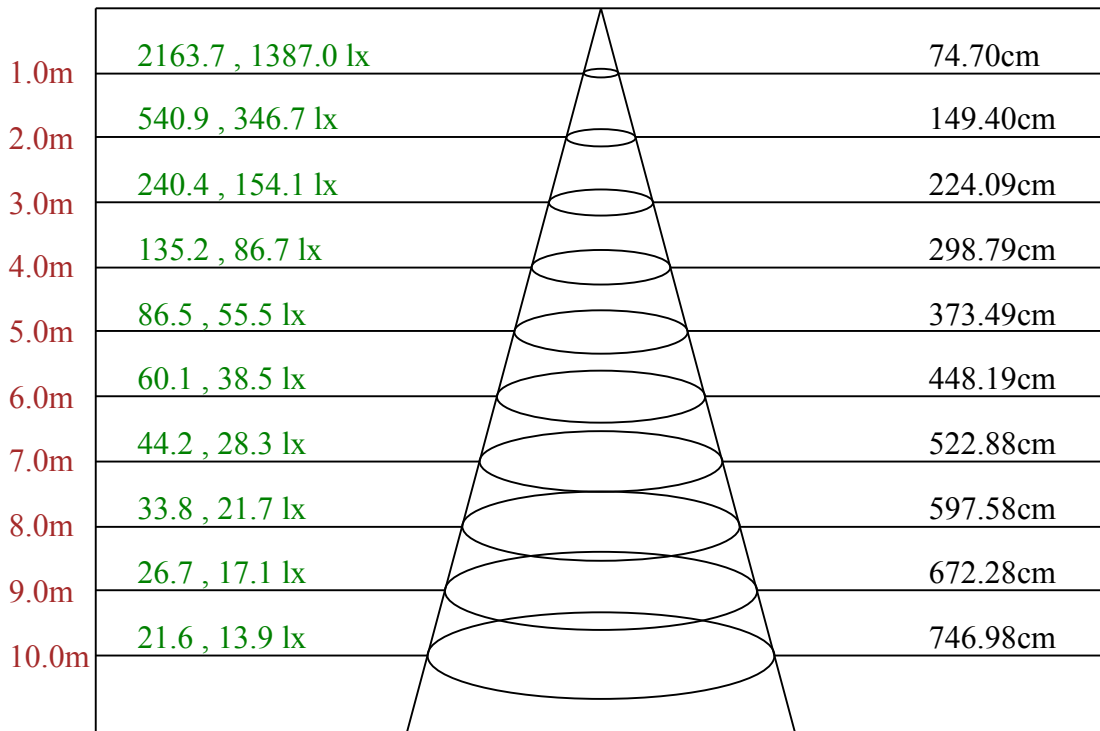
C90/C270: —

Field angle(10%Imax):C0/180Left:36.6 Right:35.1

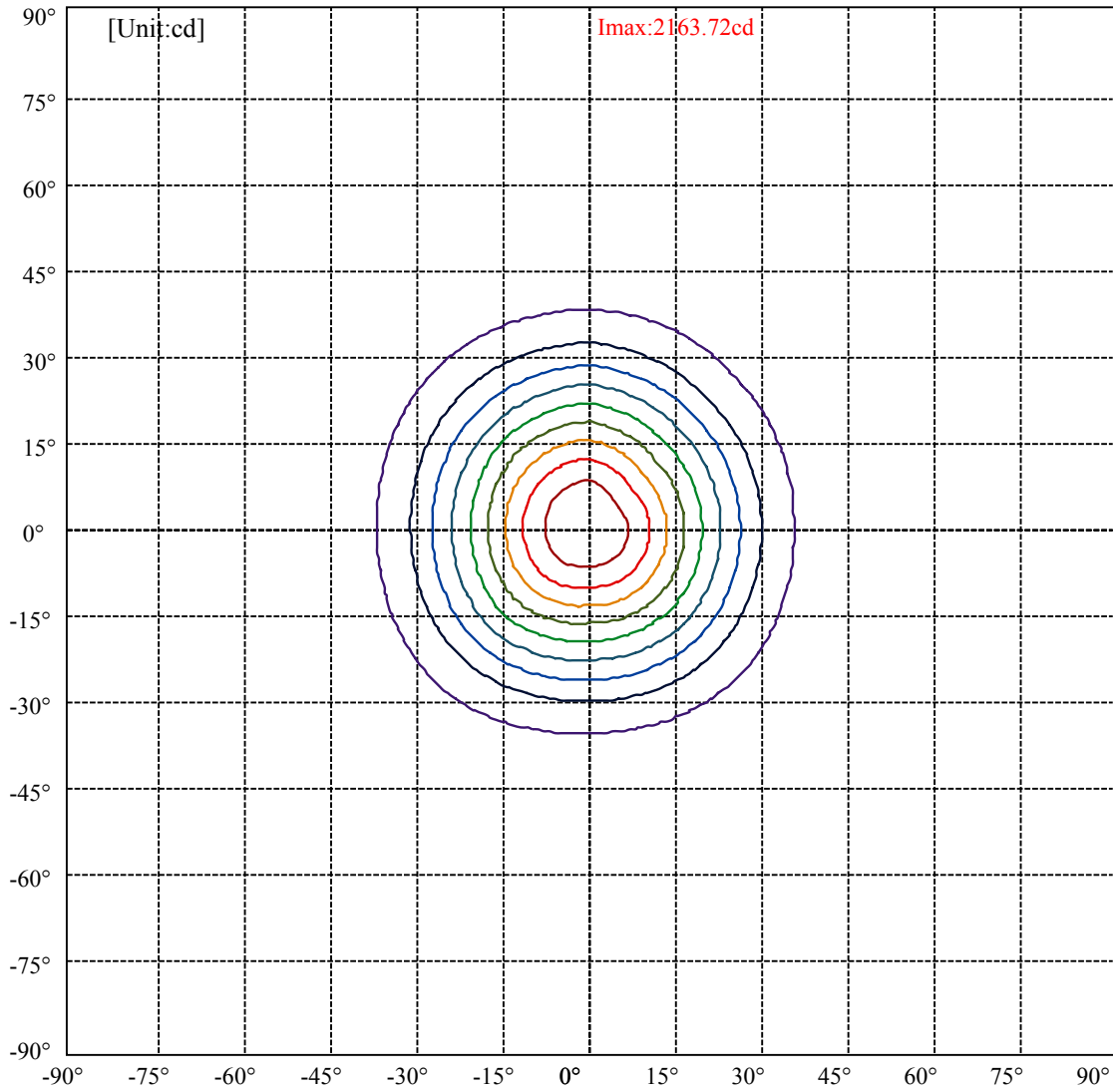
:C90/270Left:34.8 Right:37.9

Beam Angle(50%Imax):C0/180Left:20.4 Right:19.3

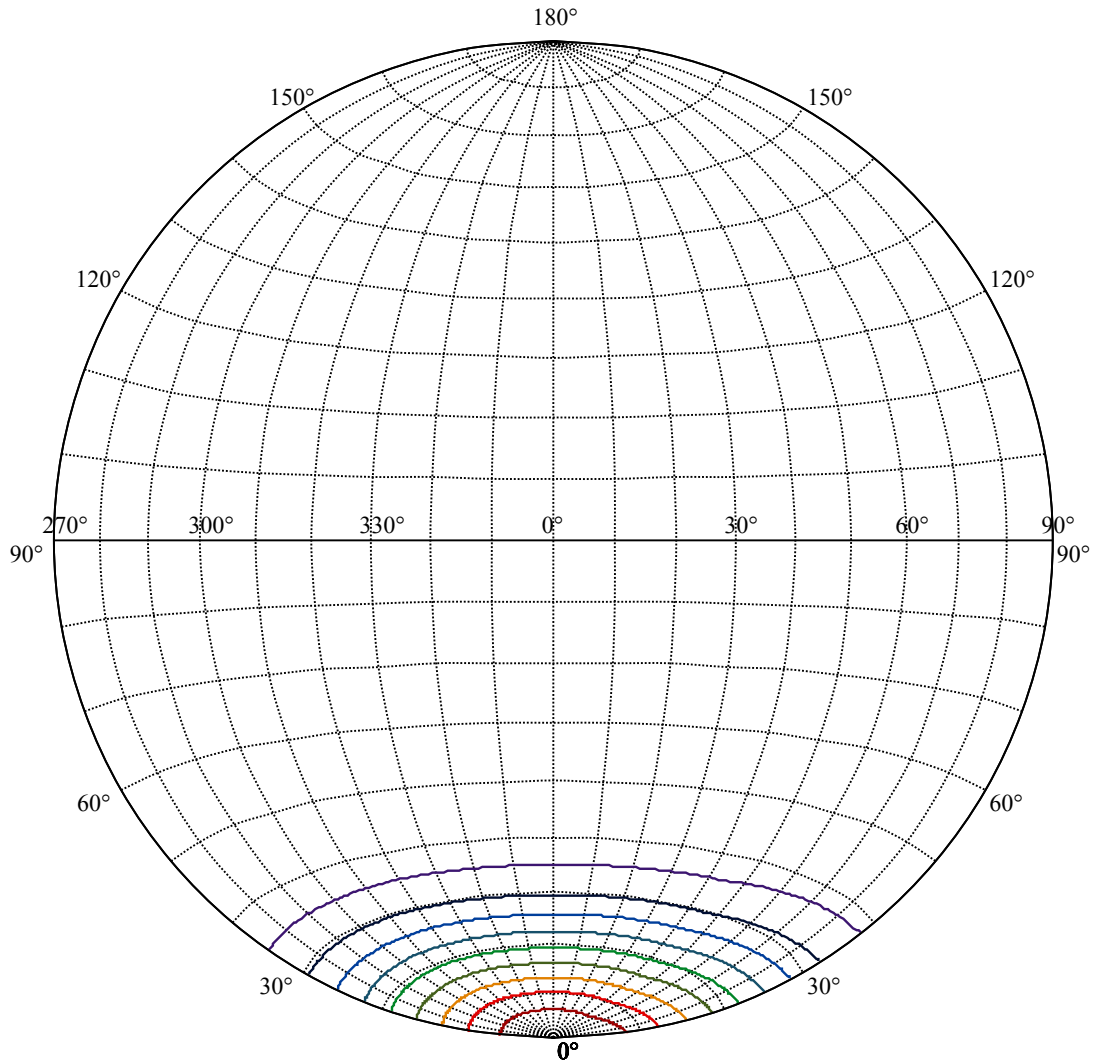
:C90/270Left:19.0 Right:21.8



Max , Ave Beam angle of C0 plane 40.96



(10%Imax) 216.372	—
(20%Imax) 432.744	—
(30%Imax) 649.115	—
(40%Imax) 865.487	—
(50%Imax) 1081.86	—
(60%Imax) 1298.23	—
(70%Imax) 1514.6	—
(80%Imax) 1730.97	—
(90%Imax) 1947.35	—



House

[Unit:cd]

Road

Imax:2163.72

(10%Imax) 216.372	—
(20%Imax) 432.744	—
(30%Imax) 649.115	—
(40%Imax) 865.487	—
(50%Imax) 1081.86	—
(60%Imax) 1298.23	—
(70%Imax) 1514.6	—
(80%Imax) 1730.97	—
(90%Imax) 1947.35	—

LD3S-5CCT-3000K

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	2163.72	2036.16	1749.72	1386.86	1031.42	700.10	403.51	218.27	131.26
45.0	2163.72	2025.57	1743.58	1394.06	1048.99	718.52	418.11	226.52	140.78
90.0	2163.72	2115.33	1880.77	1550.30	1202.89	865.23	542.17	294.90	161.11
135.0	2163.72	2099.88	1865.31	1524.26	1161.40	816.54	507.45	275.85	159.62
180.0	2163.72	2074.69	1835.04	1474.51	1106.36	775.68	466.17	248.75	145.44
225.0	2163.72	2066.43	1809.00	1466.46	1118.64	774.83	459.61	246.42	150.52
270.0	2163.72	2012.66	1717.75	1365.91	1008.76	689.09	393.34	207.47	130.41
315.0	2163.72	2028.96	1753.32	1396.60	1035.44	703.06	411.76	219.75	135.49
360.0	2163.72	2036.16	1749.72	1386.86	1031.42	700.10	403.51	218.27	131.26

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	88.70	68.38	55.89	44.25	30.70	19.05	13.76	7.83	3.18
45.0	99.71	78.12	58.22	44.67	32.60	20.96	13.13	7.83	3.18
90.0	103.73	74.10	59.07	47.00	34.30	22.02	14.61	8.89	4.02
135.0	110.93	85.95	66.90	48.48	35.99	23.71	13.97	8.68	4.02
180.0	98.44	72.40	58.64	46.36	34.08	21.38	14.61	8.89	4.02
225.0	106.06	83.62	65.63	48.27	35.57	22.86	13.97	8.47	3.81
270.0	89.55	69.02	55.89	43.61	30.49	19.05	13.13	7.62	2.33
315.0	98.44	79.60	59.70	45.09	32.60	20.54	12.70	7.62	2.96
360.0	88.70	68.38	55.89	44.25	30.70	19.05	13.76	7.83	3.18

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	0.64	0.64	0.42	0.42	0.64	0.64	0.85
45.0	0.42	0.42	0.64	0.64	0.42	0.42	0.64	1.06	0.85
90.0	0.00	0.00	0.00	0.21	0.00	0.21	0.21	0.21	0.21
135.0	0.21	0.00	0.21	0.00	0.21	0.42	0.42	0.21	0.42
180.0	0.21	0.00	0.00	0.21	0.00	0.21	0.42	0.64	0.42
225.0	0.42	0.21	0.00	0.21	0.00	0.21	0.42	0.42	0.64
270.0	0.64	0.42	0.64	0.42	0.42	0.42	0.42	0.64	0.64
315.0	0.64	0.42	0.64	0.42	0.42	0.42	0.64	0.64	0.64
360.0	0.42	0.42	0.64	0.64	0.42	0.42	0.64	0.64	0.85

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

C/γ(°)	180.0
0.0	2.38
45.0	2.38
90.0	2.38
135.0	2.38
180.0	2.38
225.0	2.38
270.0	2.38
315.0	2.38
360.0	2.38