



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

LumCAT: LD3S-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1220

Lamp flux(lm): -1.0

Power (W): 14.48

Number of Lamps: 1

PF: 0.9849

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1443.07, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 99.66

Central intensity(cd): 2474.606, Maximum intensity(cd): 2474.606

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.6

[C90/270]Total=38.8

Field angle(10%Imax): [C0/180]Total=72.1

[C90/270]Total=69.5

Maximum s/h(1/2): C0_180=0.67 C90_270=0.62

Maximum s/h(1/4): C0_180=0.70 C90_270=0.63

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 : 95.589%

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

Date:
Humidity(%): 59%

Operator: Tester

LD3S-5CCT-5000K

Zonal flux distribution table

Appendix Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2474.606	0.000	0	0.00%	0.00%
5.0	2355.291	57.740	57.74	0.00%	4.00%
10.0	2047.662	157.507	215.247	0.00%	14.92%
15.0	1643.361	218.949	434.196	0.00%	30.09%
20.0	1222.108	236.155	670.351	0.00%	46.45%
25.0	823.376	214.534	884.885	0.00%	61.32%
30.0	486.087	165.714	1050.599	0.00%	72.80%
35.0	262.753	110.272	1160.87	0.00%	80.44%
40.0	158.886	70.347	1231.218	0.00%	85.32%
45.0	109.545	49.702	1280.92	0.00%	88.76%
50.0	83.826	39.073	1319.993	0.00%	91.47%
55.0	65.661	32.503	1352.497	0.00%	93.72%
60.0	50.803	26.920	1379.417	0.00%	95.59%
65.0	37.268	21.410	1400.827	0.00%	97.07%
70.0	23.458	15.376	1416.204	0.00%	98.14%
75.0	15.464	10.174	1426.377	0.00%	98.84%
80.0	9.262	6.616	1432.993	0.00%	99.30%
85.0	4.107	3.633	1436.626	0.00%	99.55%
90.0	0.497	1.261	1437.886	0.00%	99.64%
95.0	0.442	0.257	1438.143	0.00%	99.66%
100.0	0.331	0.210	1438.353	0.00%	99.67%
105.0	0.414	0.199	1438.552	0.00%	99.69%
110.0	0.441	0.223	1438.776	0.00%	99.70%
115.0	0.579	0.258	1439.034	0.00%	99.72%
120.0	0.469	0.255	1439.289	0.00%	99.74%
125.0	0.772	0.287	1439.576	0.00%	99.76%
130.0	0.607	0.300	1439.876	0.00%	99.78%
135.0	0.855	0.295	1440.171	0.00%	99.80%
140.0	1.103	0.362	1440.533	0.00%	99.82%
145.0	1.241	0.391	1440.924	0.00%	99.85%
150.0	1.516	0.406	1441.33	0.00%	99.88%
155.0	1.792	0.419	1441.749	0.00%	99.91%
160.0	2.178	0.416	1442.165	0.00%	99.94%
165.0	2.343	0.373	1442.538	0.00%	99.96%
170.0	2.481	0.286	1442.824	0.00%	99.98%
175.0	2.536	0.179	1443.003	0.00%	100.00%
180.0	2.646	0.062	1443.065	0.00%	100.00%

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

Date:
Humidity(%): 59%

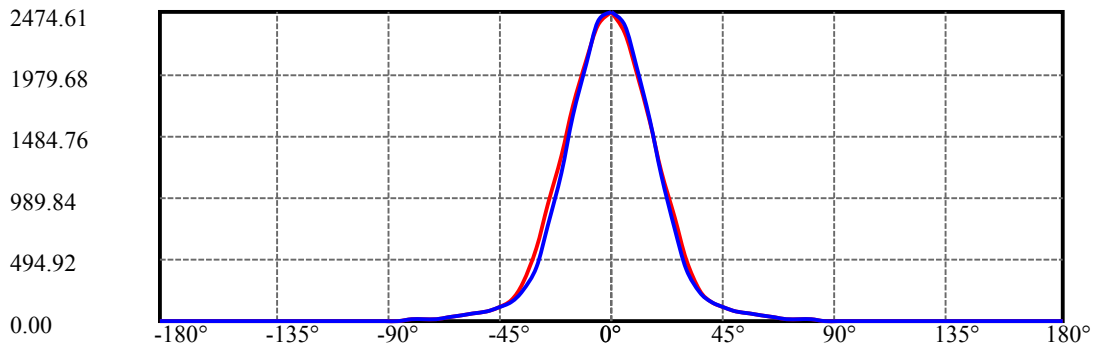
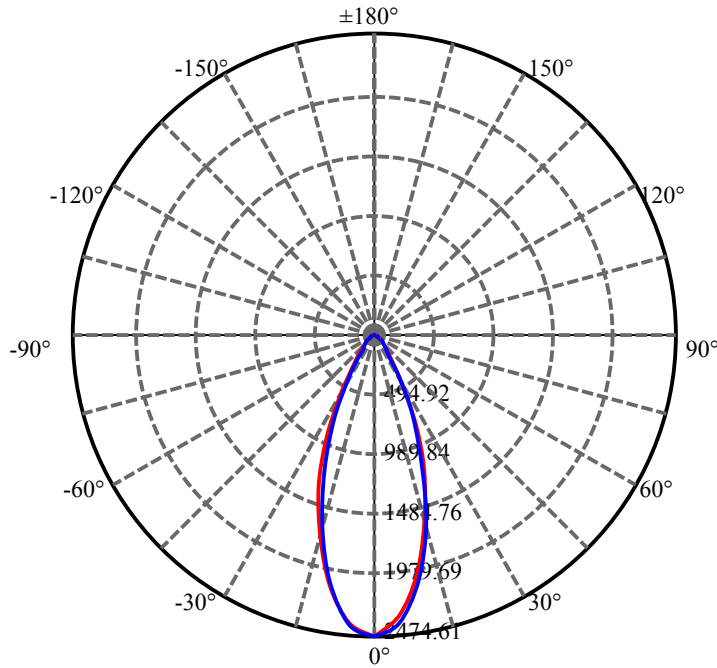
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1050.60	N.A.	72.80%
0-40	1231.22	N.A.	85.32%
0-60	1379.42	N.A.	95.59%
0-90	1437.89	N.A.	99.64%
0-120	1439.29	N.A.	99.74%
0-180	1443.07	N.A.	100.00%
60-90	58.47	N.A.	4.05%
90-120	1.40	N.A.	0.10%
90-130	1.99	N.A.	0.14%
90-150	3.44	N.A.	0.24%
90-180	5.12	N.A.	0.35%
0-34.71	1154.45	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	215.25
10-20	455.10
20-30	380.25
30-40	180.62
40-50	88.78
50-60	59.42
60-70	36.79
70-80	16.79
80-90	4.89
90-100	0.47
100-110	0.42
110-120	0.51
120-130	0.59
130-140	0.66
140-150	0.80
150-160	0.83
160-170	0.66
170-180	0.18

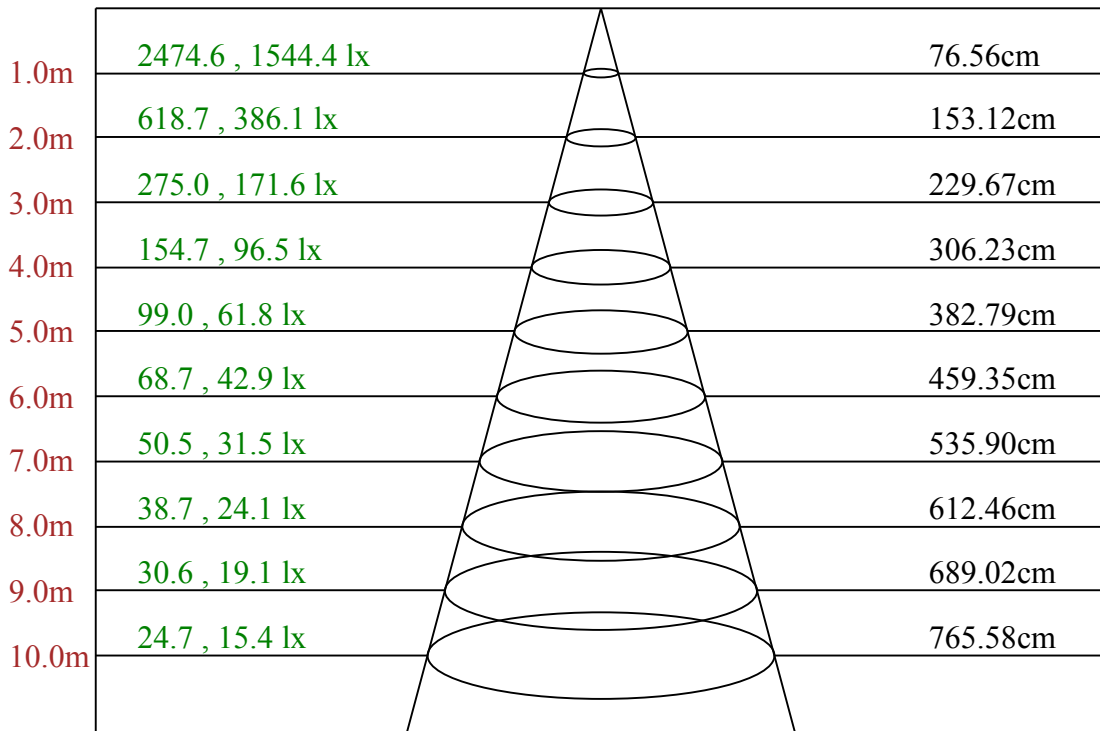


C0/C180: —

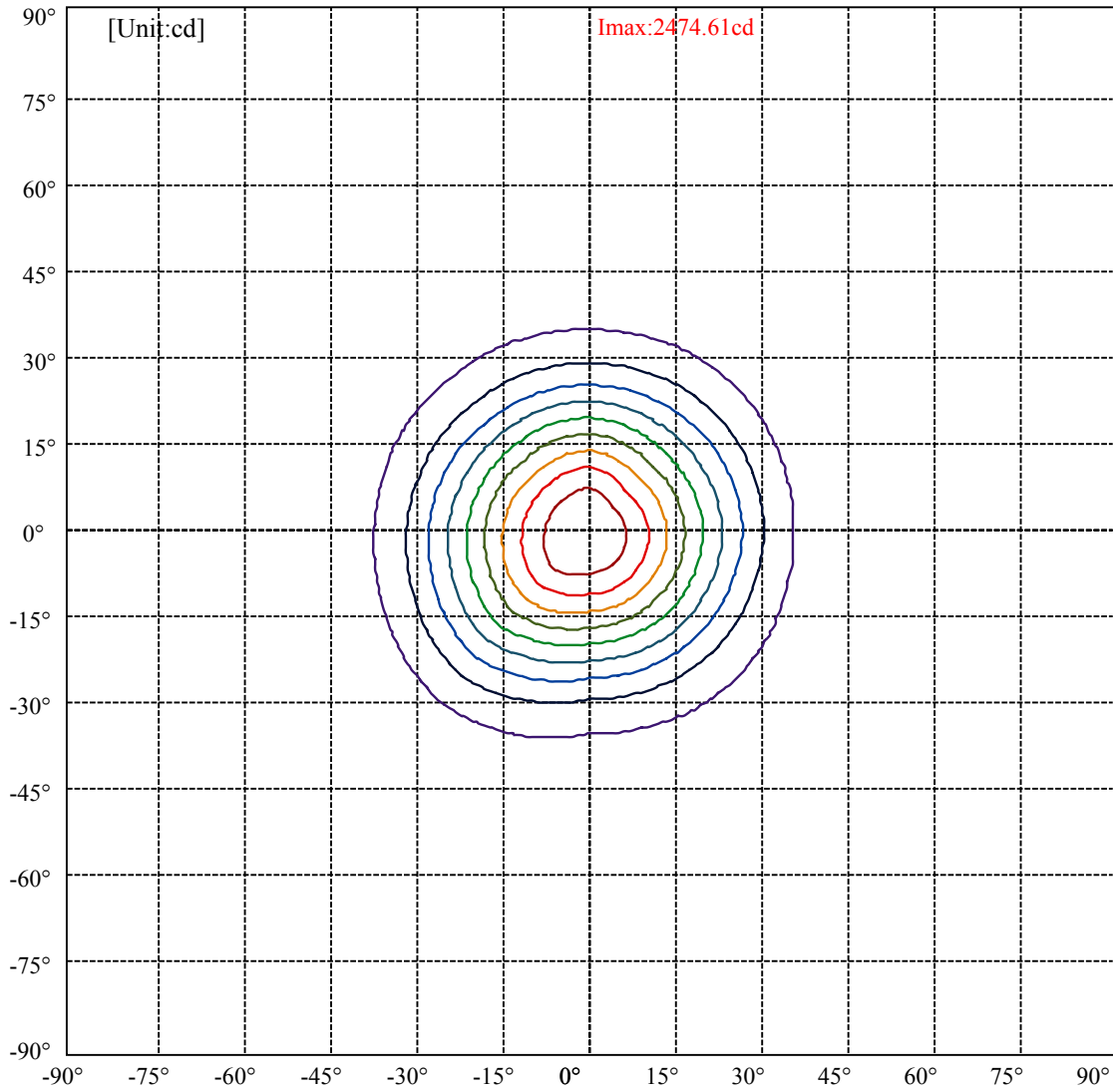
C90/C270: —

Field angle(10%Imax):C0/180Left:37.1 Right:35.0
:C90/270Left:35.0 Right:34.5

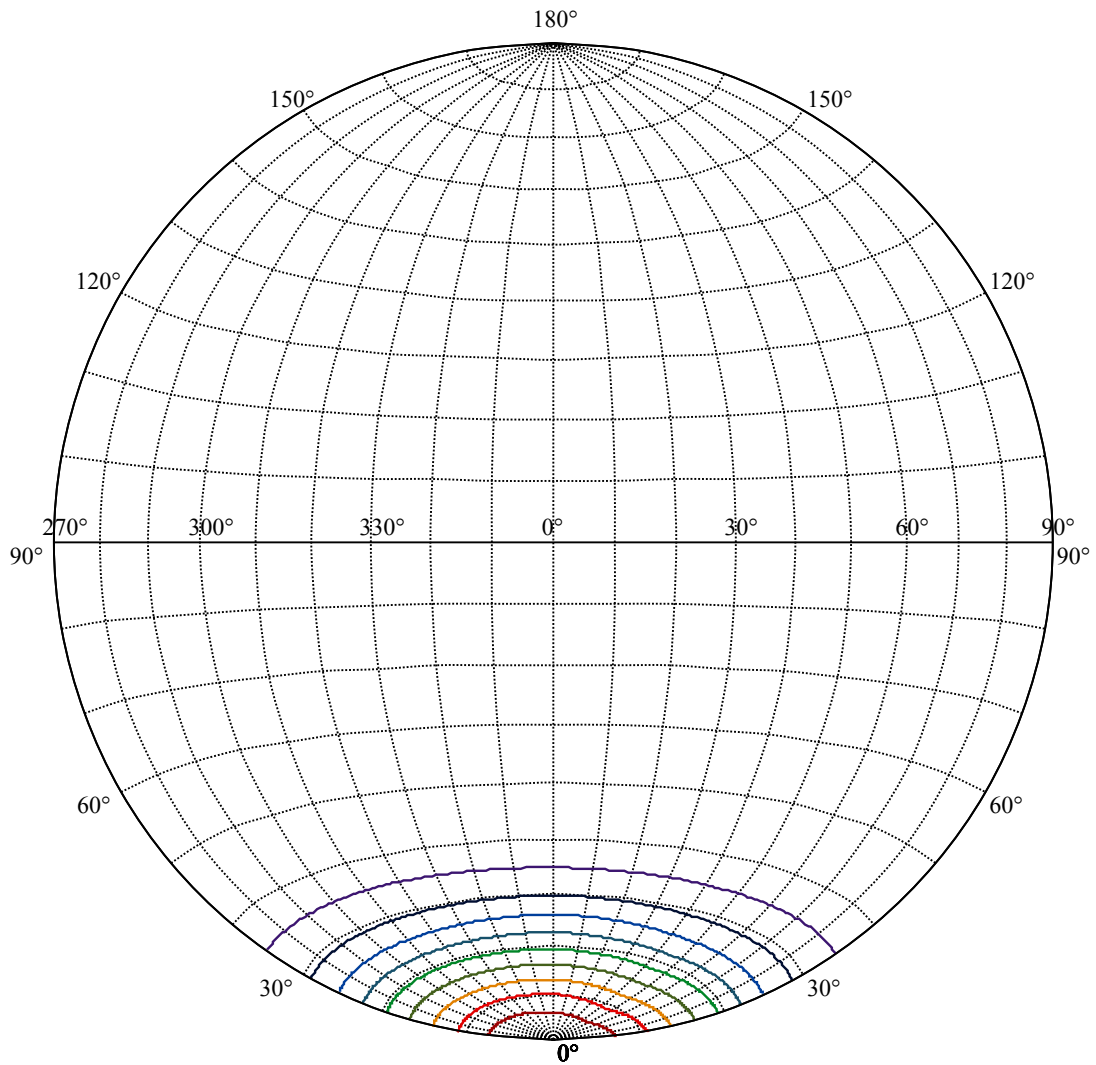
Beam Angle(50%Imax):C0/180Left:21.1 Right:19.5
:C90/270Left:19.5 Right:19.3



Max , Ave Beam angle of C0 plane 41.89



(10%Imax) 247.461	—
(20%Imax) 494.921	—
(30%Imax) 742.382	—
(40%Imax) 989.842	—
(50%Imax) 1237.3	—
(60%Imax) 1484.76	—
(70%Imax) 1732.22	—
(80%Imax) 1979.68	—
(90%Imax) 2227.15	—



House

[Unit:cd]

Road

Imax:2474.61

(10%Imax) 247.461	—
(20%Imax) 494.921	—
(30%Imax) 742.382	—
(40%Imax) 989.842	—
(50%Imax) 1237.3	—
(60%Imax) 1484.76	—
(70%Imax) 1732.22	—
(80%Imax) 1979.68	—
(90%Imax) 2227.15	—

LD3S-5CCT-5000K

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	2474.61	2306.67	1996.39	1595.70	1196.56	829.61	488.24	247.43	151.06
45.0	2474.61	2268.07	1911.71	1514.33	1106.58	738.75	425.83	227.80	146.65
90.0	2474.61	2371.50	2051.30	1616.87	1174.50	730.81	407.75	228.24	147.31
135.0	2474.61	2349.45	2032.56	1607.39	1180.90	761.46	435.97	238.61	153.93
180.0	2474.61	2371.94	2094.08	1726.91	1318.28	939.87	576.67	304.32	166.94
225.0	2474.61	2428.61	2194.86	1834.75	1428.10	1036.02	675.46	359.23	190.09
270.0	2474.61	2392.23	2064.53	1644.44	1189.28	771.83	432.67	246.77	155.03
315.0	2474.61	2353.86	2035.86	1606.51	1182.66	778.67	446.12	249.63	160.10
360.0	2474.61	2306.67	1996.39	1595.70	1196.56	829.61	488.24	247.43	151.06

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	103.43	78.51	63.29	50.50	37.05	22.93	16.32	9.70	4.41
45.0	108.28	87.77	65.72	49.62	35.95	22.49	14.11	8.16	3.09
90.0	101.88	75.86	61.31	48.96	34.84	20.95	15.22	8.60	3.31
135.0	109.82	86.45	65.72	49.62	36.39	22.93	14.11	8.38	3.31
180.0	107.17	79.61	64.39	51.16	36.61	22.71	15.88	9.04	4.19
225.0	129.23	96.59	74.32	54.47	41.46	27.12	16.10	10.14	5.07
270.0	103.87	76.74	61.53	50.06	36.61	22.93	16.32	10.14	4.63
315.0	112.69	89.09	69.02	52.04	39.25	25.58	15.66	9.92	4.85
360.0	103.43	78.51	63.29	50.50	37.05	22.93	16.32	9.70	4.41

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.66	0.66	0.44	0.66	0.44	0.88	0.66	0.88	0.88
45.0	0.66	0.66	0.44	0.44	0.66	0.66	0.88	1.10	0.88
90.0	0.22	0.22	0.00	0.22	0.22	0.22	0.22	0.66	0.44
135.0	0.22	0.22	0.22	0.44	0.22	0.44	0.22	0.44	0.44
180.0	0.22	0.22	0.22	0.00	0.44	0.22	0.44	0.66	0.44
225.0	0.66	0.22	0.22	0.22	0.00	0.44	0.22	0.44	0.22
270.0	0.66	0.66	0.44	0.66	0.66	0.66	0.44	1.10	0.66
315.0	0.66	0.66	0.66	0.66	0.88	1.10	0.66	0.88	0.88
360.0	0.66	0.66	0.44	0.66	0.44	0.88	0.66	0.88	0.88

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.10	1.32	1.54	1.76	1.99	2.43	2.43	2.65	2.65
45.0	1.10	1.32	1.32	1.76	1.99	2.21	2.43	2.43	2.87
90.0	0.66	1.10	1.10	1.10	1.76	1.99	2.21	2.43	2.43
135.0	0.66	0.66	1.10	1.54	1.54	1.99	2.21	2.65	2.21
180.0	0.66	0.88	1.10	1.32	1.54	1.99	2.21	2.21	2.65
225.0	0.66	0.88	0.88	1.32	1.76	2.21	2.21	2.43	2.43
270.0	0.88	1.32	1.54	1.76	1.76	2.21	2.65	2.43	2.43
315.0	1.10	1.32	1.32	1.54	1.99	2.43	2.43	2.65	2.65
360.0	1.10	1.32	1.54	1.76	1.99	2.43	2.43	2.65	2.65

C/γ(°)	180.0
0.0	2.65
45.0	2.65
90.0	2.65
135.0	2.65
180.0	2.65
225.0	2.65
270.0	2.65
315.0	2.65
360.0	2.65