



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

LumCAT: LD3S-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.18

Number of Lamps: 1

PF: 0.9843

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1410.60, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 99.48

Central intensity(cd): 2400.730, Maximum intensity(cd): 2400.730

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.5

[C90/270]Total=39.2

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

[C90/270]Total=71.1

Maximum s/h(1/2): C0_180=0.66 C90_270=0.68

Maximum s/h(1/4): C0_180=0.68 C90_270=0.70

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.37%

Down flux rate of LUM(%): 99.63%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.605%

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

Date:
Humidity(%): 59%

Operator: Tester

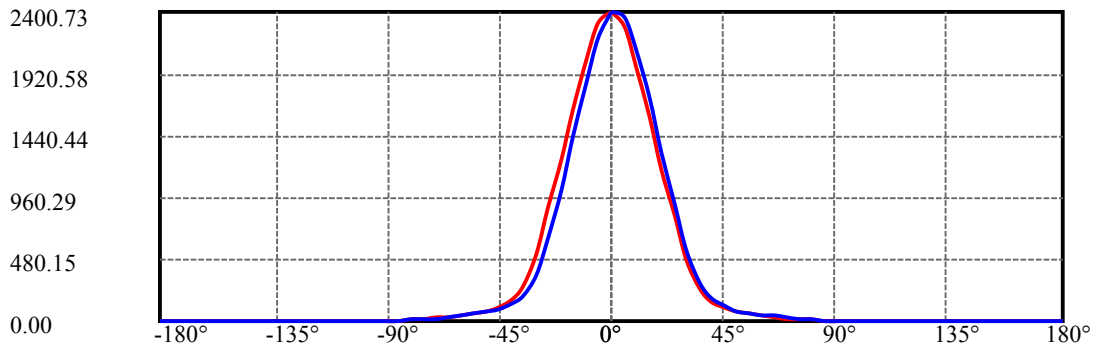
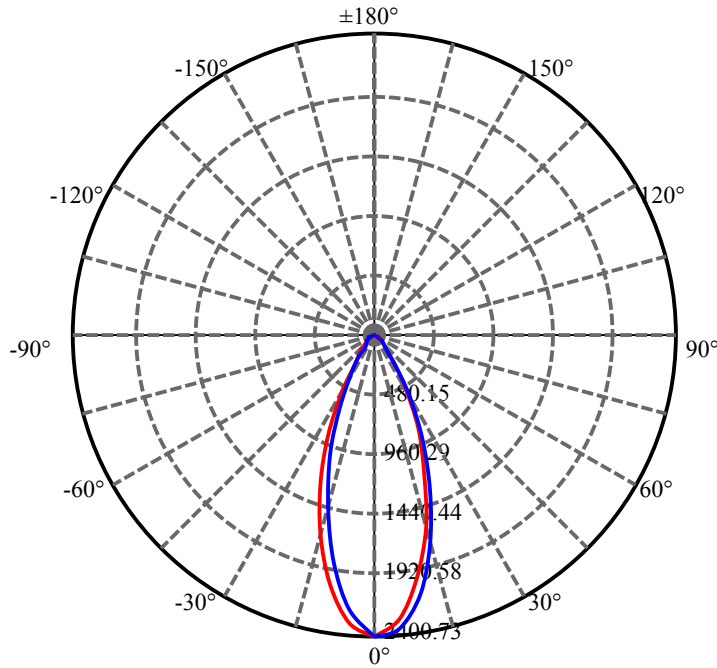
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2400.730	0.000	0	0.00%	0.00%
5.0	2284.931	56.016	56.016	0.00%	3.97%
10.0	1988.654	152.880	208.895	0.00%	14.81%
15.0	1596.263	212.655	421.55	0.00%	29.88%
20.0	1192.679	229.848	651.398	0.00%	46.18%
25.0	813.705	210.433	861.831	0.00%	61.10%
30.0	479.983	163.717	1025.548	0.00%	72.70%
35.0	258.753	108.784	1134.332	0.00%	80.41%
40.0	155.125	69.052	1203.385	0.00%	85.31%
45.0	107.069	48.547	1251.932	0.00%	88.75%
50.0	82.379	38.281	1290.212	0.00%	91.47%
55.0	64.649	31.969	1322.181	0.00%	93.73%
60.0	49.671	26.425	1348.606	0.00%	95.60%
65.0	36.069	20.844	1369.449	0.00%	97.08%
70.0	23.023	14.962	1384.412	0.00%	98.14%
75.0	14.819	9.891	1394.303	0.00%	98.84%
80.0	8.971	6.366	1400.668	0.00%	99.30%
85.0	3.917	3.502	1404.17	0.00%	99.54%
90.0	0.476	1.203	1405.373	0.00%	99.63%
95.0	0.423	0.246	1405.619	0.00%	99.65%
100.0	0.450	0.237	1405.857	0.00%	99.66%
105.0	0.423	0.234	1406.09	0.00%	99.68%
110.0	0.503	0.242	1406.332	0.00%	99.70%
115.0	0.503	0.255	1406.587	0.00%	99.72%
120.0	0.556	0.257	1406.844	0.00%	99.73%
125.0	0.688	0.288	1407.132	0.00%	99.75%
130.0	0.821	0.328	1407.46	0.00%	99.78%
135.0	0.821	0.332	1407.792	0.00%	99.80%
140.0	1.032	0.343	1408.135	0.00%	99.82%
145.0	1.271	0.384	1408.519	0.00%	99.85%
150.0	1.588	0.421	1408.94	0.00%	99.88%
155.0	1.800	0.429	1409.368	0.00%	99.91%
160.0	1.985	0.397	1409.765	0.00%	99.94%
165.0	2.223	0.347	1410.112	0.00%	99.97%
170.0	2.276	0.267	1410.379	0.00%	99.98%
175.0	2.382	0.167	1410.546	0.00%	100.00%
180.0	2.587	0.059	1410.605	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1025.55	N.A.	72.70%
0-40	1203.38	N.A.	85.31%
0-60	1348.61	N.A.	95.60%
0-90	1405.37	N.A.	99.63%
0-120	1406.84	N.A.	99.73%
0-180	1410.60	N.A.	100.00%
60-90	56.77	N.A.	4.02%
90-120	1.47	N.A.	0.10%
90-130	2.09	N.A.	0.15%
90-150	3.57	N.A.	0.25%
90-180	5.17	N.A.	0.37%
0-34.73	1128.48	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	208.90
10-20	442.50
20-30	374.15
30-40	177.84
40-50	86.83
50-60	58.39
60-70	35.81
70-80	16.26
80-90	4.70
90-100	0.48
100-110	0.48
110-120	0.51
120-130	0.62
130-140	0.67
140-150	0.81
150-160	0.83
160-170	0.61
170-180	0.17

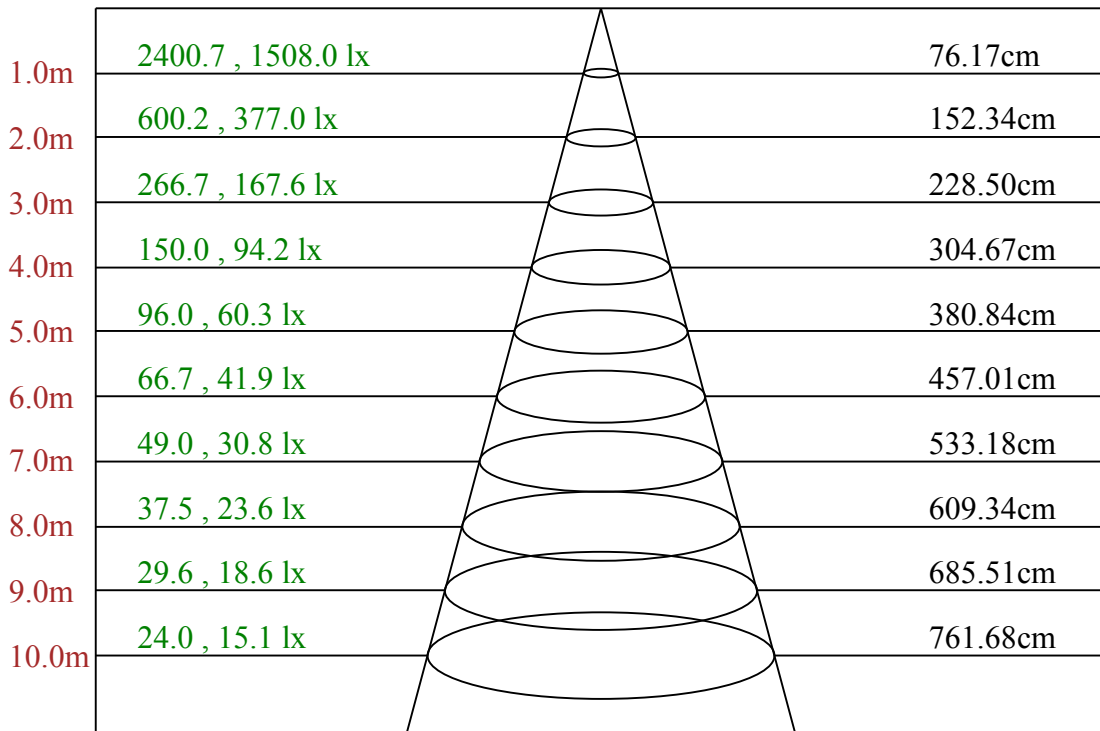


C0/C180: —

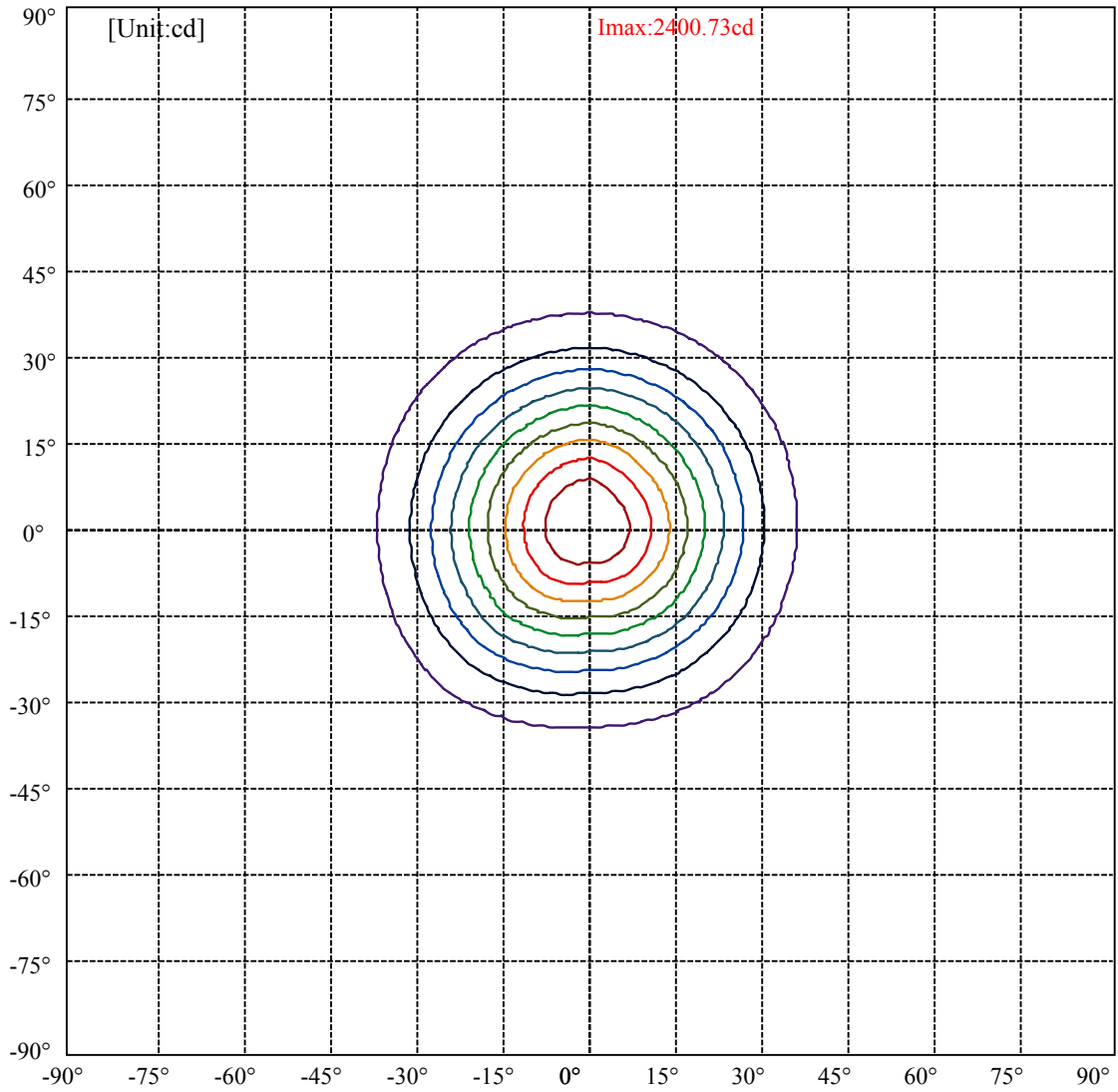
C90/C270: —

Field angle(10%Imax):C0/180Left:36.5 Right:35.6
:C90/270Left:33.7 Right:37.4

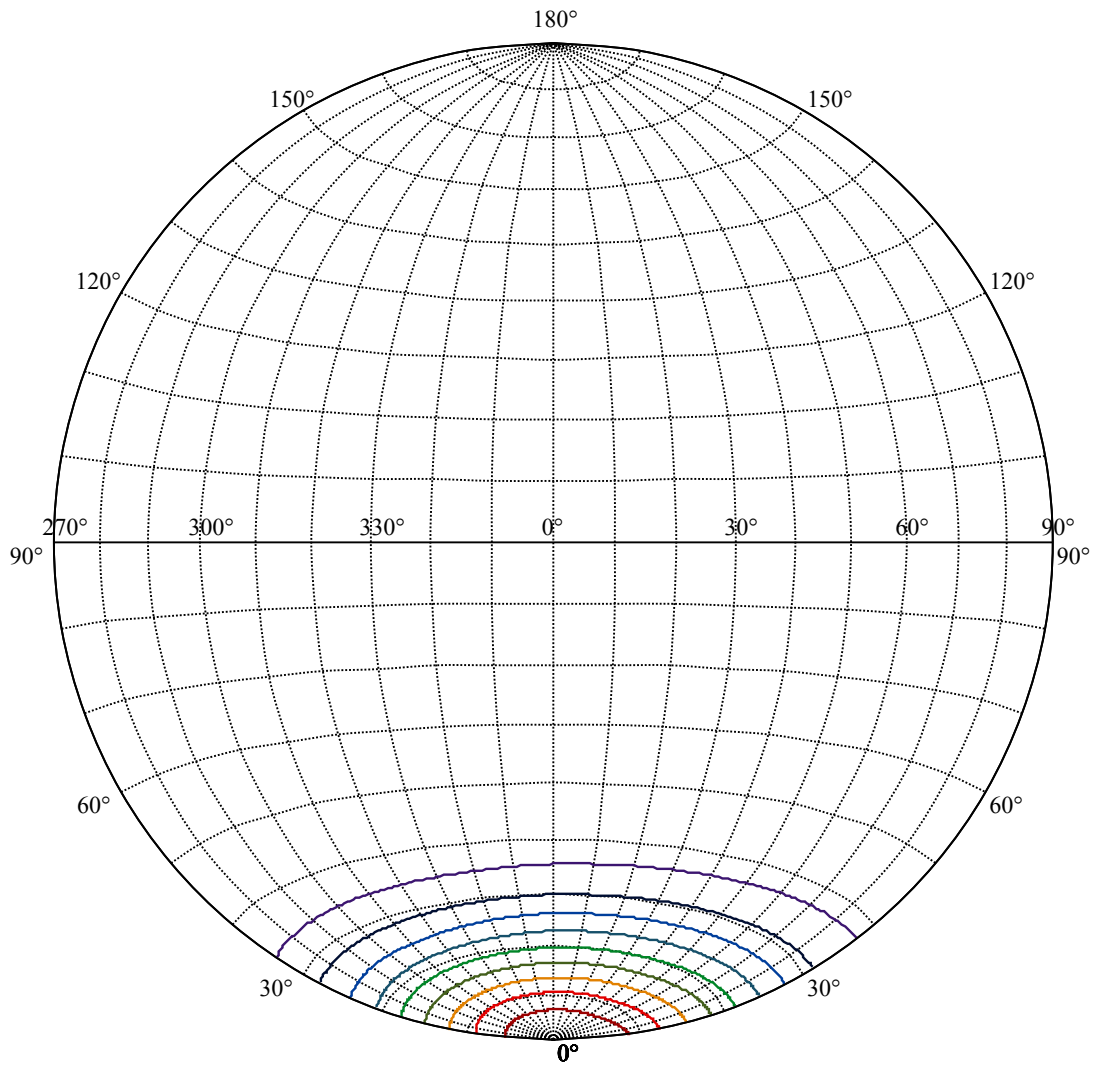
Beam Angle(50%Imax):C0/180Left:20.7 Right:19.8
:C90/270Left:17.8 Right:21.4



Max , Ave Beam angle of C0 plane 41.70



(10%Imax) 240.073	—
(20%Imax) 480.146	—
(30%Imax) 720.219	—
(40%Imax) 960.292	—
(50%Imax) 1200.36	—
(60%Imax) 1440.44	—
(70%Imax) 1680.51	—
(80%Imax) 1920.58	—
(90%Imax) 2160.66	—



House

[Unit:cd]

Road

Imax:2400.73

(10%Imax) 240.073	—
(20%Imax) 480.146	—
(30%Imax) 720.219	—
(40%Imax) 960.292	—
(50%Imax) 1200.36	—
(60%Imax) 1440.44	—
(70%Imax) 1680.51	—
(80%Imax) 1920.58	—
(90%Imax) 2160.66	—

LD3S-5CCT-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	2400.73	2275.59	1971.80	1577.18	1183.63	820.35	479.93	253.62	147.13
45.0	2400.73	2284.69	1986.41	1604.49	1205.43	845.33	502.79	268.44	159.84
90.0	2400.73	2354.34	2099.24	1723.68	1314.04	910.74	548.52	300.62	173.17
135.0	2400.73	2334.02	2070.24	1677.11	1257.09	857.82	518.04	283.68	169.36
180.0	2400.73	2307.56	2024.51	1639.85	1250.10	875.81	524.60	273.73	159.62
225.0	2400.73	2283.21	1989.37	1606.61	1220.89	844.06	506.82	268.65	160.26
270.0	2400.73	2195.14	1847.10	1433.01	1016.17	648.23	357.99	200.06	129.99
315.0	2400.73	2244.89	1920.57	1508.17	1094.08	707.30	401.18	221.23	141.63
360.0	2400.73	2275.59	1971.80	1577.18	1183.63	820.35	479.93	253.62	147.13
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	98.65	76.00	61.61	49.12	34.30	20.96	15.03	8.89	3.81
45.0	112.20	87.22	65.42	49.75	36.63	23.92	14.40	9.10	4.02
90.0	112.84	80.24	63.93	50.81	37.90	24.56	16.30	10.16	4.87
135.0	117.92	91.24	71.77	52.29	39.38	25.83	15.24	9.53	4.87
180.0	106.28	78.97	63.09	50.81	36.84	22.86	15.88	9.32	4.23
225.0	113.47	89.97	69.65	51.23	37.68	24.35	14.40	8.89	3.81
270.0	91.88	71.77	58.22	45.09	31.54	19.90	13.76	7.83	2.54
315.0	103.31	83.62	63.51	48.27	34.30	21.81	13.55	8.05	3.18
360.0	98.65	76.00	61.61	49.12	34.30	20.96	15.03	8.89	3.81
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.64	0.64	0.64	0.64	0.64	0.85	0.85	1.06
45.0	0.42	0.42	0.42	0.64	0.64	0.85	0.64	0.85	1.06
90.0	0.64	0.42	0.42	0.00	0.21	0.21	0.42	0.42	0.42
135.0	0.21	0.21	0.42	0.42	0.21	0.21	0.21	0.64	0.85
180.0	0.42	0.21	0.21	0.00	0.21	0.00	0.21	0.21	0.64
225.0	0.21	0.00	0.21	0.21	0.42	0.64	0.42	0.64	0.64
270.0	0.42	0.85	0.64	0.85	0.85	0.64	0.85	1.06	1.06
315.0	0.85	0.64	0.64	0.64	0.85	0.85	0.85	0.85	0.85
360.0	0.64	0.64	0.64	0.64	0.64	0.64	0.85	0.85	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	1.48	1.69	1.91	1.91	2.33	2.33	2.33
45.0	1.06	1.06	1.48	1.69	1.91	2.12	2.12	2.33	2.54
90.0	0.64	0.85	1.06	1.48	1.69	1.69	2.12	2.33	2.33
135.0	0.64	0.64	1.06	1.27	1.48	2.12	2.12	1.91	2.12
180.0	0.42	0.85	1.06	1.69	1.48	1.69	2.33	2.12	2.33
225.0	0.64	1.06	0.85	1.48	1.69	1.91	2.12	2.33	2.33
270.0	1.06	1.27	1.69	1.69	2.12	2.33	2.33	2.33	2.54
315.0	1.06	1.27	1.48	1.69	2.12	2.12	2.33	2.54	2.54
360.0	1.06	1.27	1.48	1.69	1.91	1.91	2.33	2.33	2.33
C/γ(°)	180.0								
0.0	2.59								
45.0	2.59								
90.0	2.59								
135.0	2.59								
180.0	2.59								
225.0	2.59								
270.0	2.59								
315.0	2.59								
360.0	2.59								