



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

LumCAT: LD3R-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.15

Number of Lamps: 1

PF: 0.9842

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1293.06, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 91.40

Central intensity(cd): 2161.906, Maximum intensity(cd): 2161.906

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=39.8

[C90/270]Total=40.8

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

[C90/270]Total=73.1

Maximum s/h(1/2): C0_180=0.64 C90_270=0.71

Maximum s/h(1/4): C0_180=0.67 C90_270=0.74

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.41%

Down flux rate of LUM(%): 99.59%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.779%

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

Date:
Humidity(%): 59%

Operator: Tester

LD3R-5CCT-3000K

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	2161.906	0.000	0	0.00%	0.00%
5.0	2054.520	50.406	50.406	0.00%	3.90%
10.0	1789.627	137.517	187.923	0.00%	14.53%
15.0	1444.499	191.846	379.77	0.00%	29.37%
20.0	1092.094	209.051	588.82	0.00%	45.54%
25.0	756.969	193.933	782.753	0.00%	60.54%
30.0	455.716	153.466	936.219	0.00%	72.40%
35.0	247.665	103.578	1039.797	0.00%	80.41%
40.0	147.266	65.891	1105.688	0.00%	85.51%
45.0	102.120	46.176	1151.864	0.00%	89.08%
50.0	72.481	35.281	1187.145	0.00%	91.81%
55.0	56.339	28.010	1215.155	0.00%	93.98%
60.0	44.537	23.317	1238.472	0.00%	95.78%
65.0	32.205	18.656	1257.128	0.00%	97.22%
70.0	20.165	13.260	1270.389	0.00%	98.25%
75.0	12.279	8.480	1278.869	0.00%	98.90%
80.0	6.986	5.155	1284.023	0.00%	99.30%
85.0	3.017	2.718	1286.742	0.00%	99.51%
90.0	0.529	0.971	1287.712	0.00%	99.59%
95.0	0.476	0.275	1287.988	0.00%	99.61%
100.0	0.503	0.266	1288.254	0.00%	99.63%
105.0	0.476	0.262	1288.516	0.00%	99.65%
110.0	0.503	0.256	1288.772	0.00%	99.67%
115.0	0.582	0.275	1289.047	0.00%	99.69%
120.0	0.609	0.290	1289.336	0.00%	99.71%
125.0	0.741	0.312	1289.648	0.00%	99.74%
130.0	0.847	0.345	1289.993	0.00%	99.76%
135.0	0.926	0.358	1290.351	0.00%	99.79%
140.0	0.926	0.343	1290.695	0.00%	99.82%
145.0	1.218	0.358	1291.052	0.00%	99.85%
150.0	1.429	0.390	1291.442	0.00%	99.88%
155.0	1.720	0.399	1291.84	0.00%	99.91%
160.0	1.958	0.386	1292.226	0.00%	99.94%
165.0	2.223	0.345	1292.571	0.00%	99.96%
170.0	2.196	0.262	1292.833	0.00%	99.98%
175.0	2.382	0.164	1292.997	0.00%	100.00%
180.0	2.517	0.059	1293.055	0.00%	100.00%

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

Date:
Humidity(%): 59%

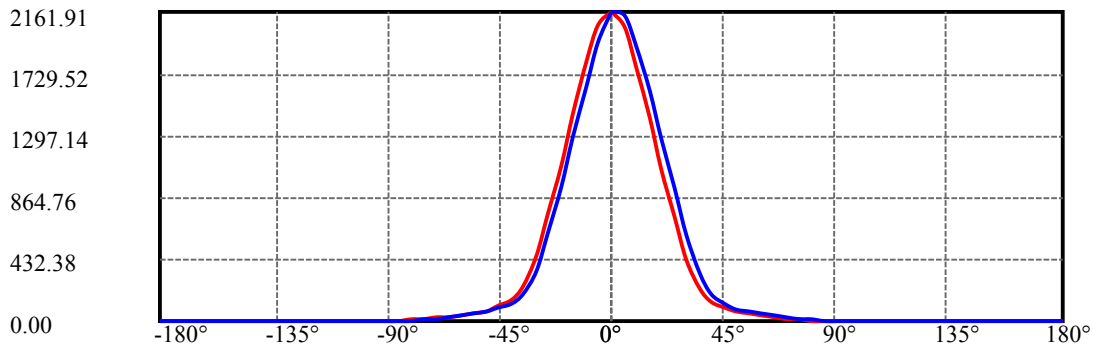
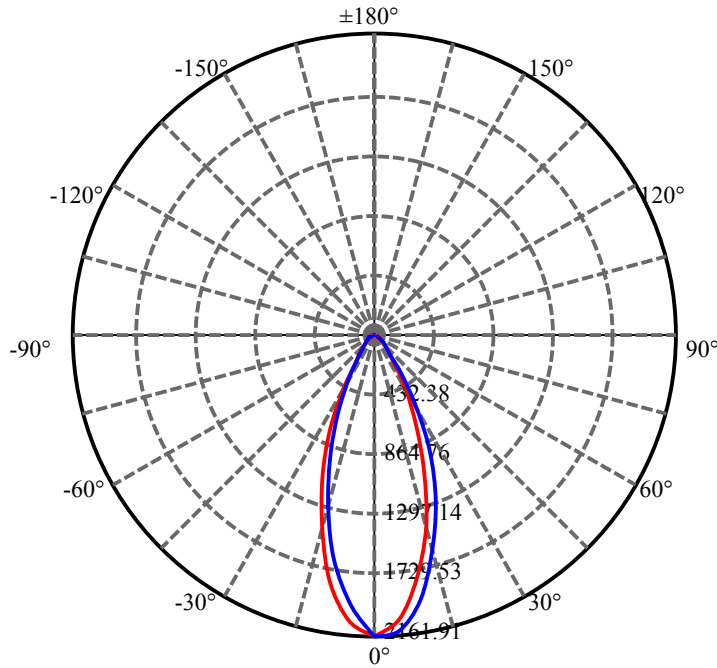
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	936.22	N.A.	72.40%
0-40	1105.69	N.A.	85.51%
0-60	1238.47	N.A.	95.78%
0-90	1287.71	N.A.	99.59%
0-120	1289.34	N.A.	99.71%
0-180	1293.06	N.A.	100.00%
60-90	49.24	N.A.	3.81%
90-120	1.62	N.A.	0.13%
90-130	2.28	N.A.	0.18%
90-150	3.73	N.A.	0.29%
90-180	5.28	N.A.	0.41%
0-34.74	1034.44	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	187.92
10-20	400.90
20-30	347.40
30-40	169.47
40-50	81.46
50-60	51.33
60-70	31.92
70-80	13.63
80-90	3.69
90-100	0.54
100-110	0.52
110-120	0.56
120-130	0.66
130-140	0.70
140-150	0.75
150-160	0.78
160-170	0.61
170-180	0.16



C0/C180: —

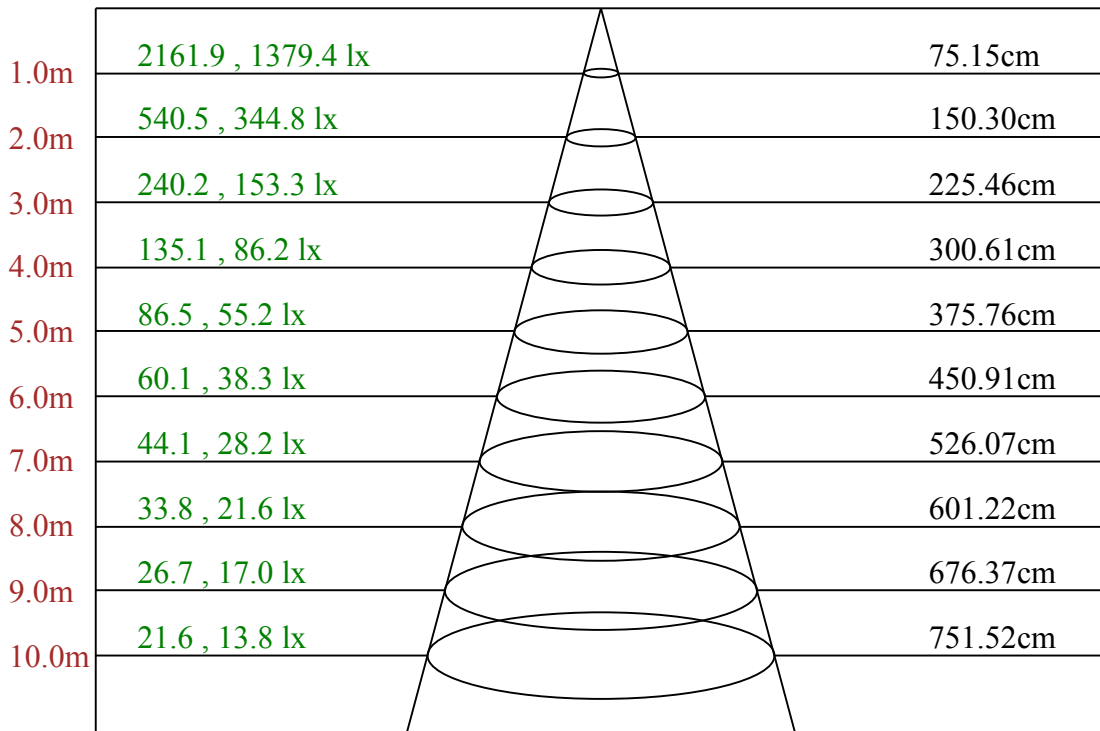
C90/C270: —

Field angle(10%Imax):C0/180Left:36.4 Right:36.0

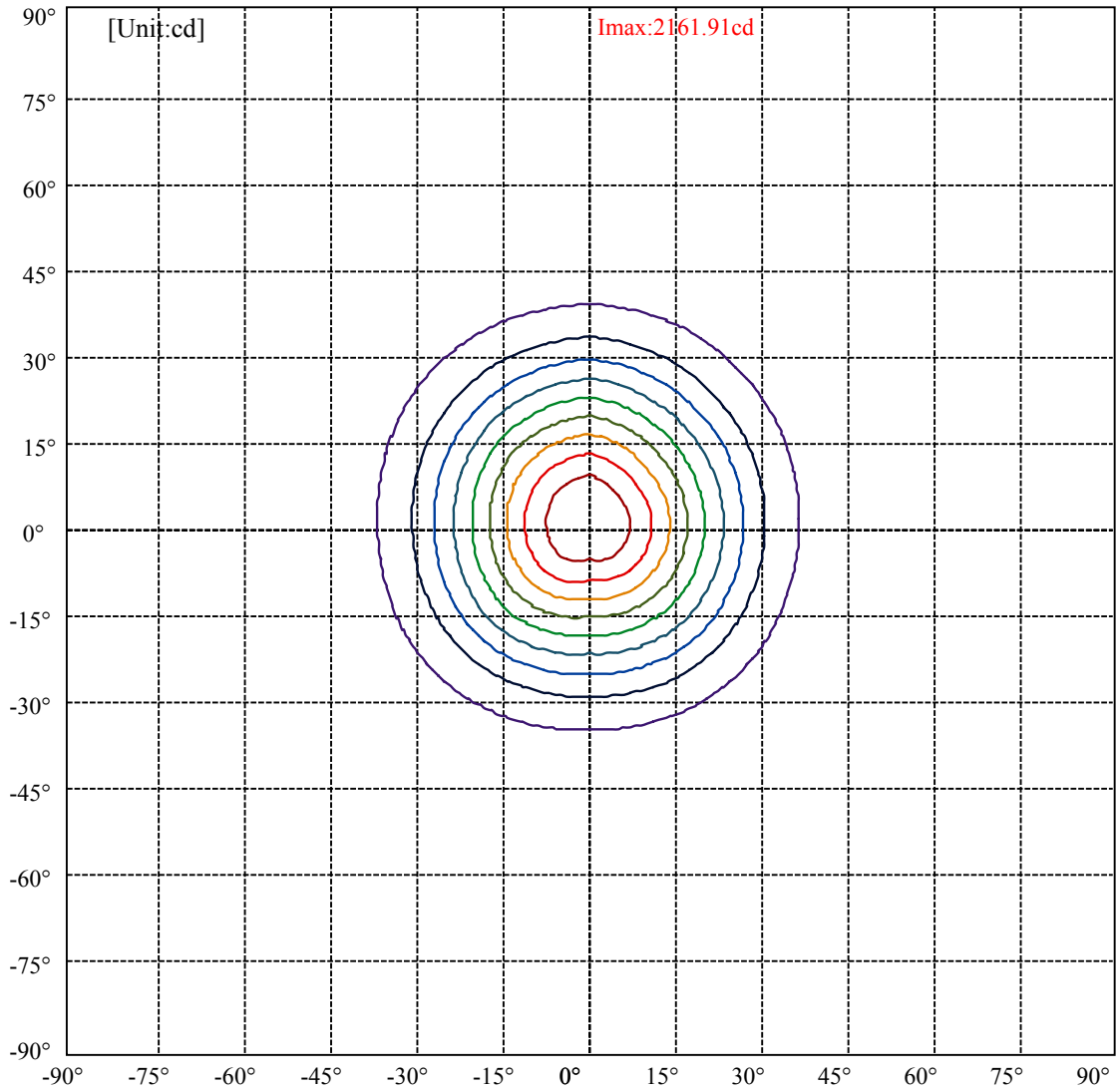
:C90/270Left:34.3 Right:38.8

Beam Angle(50%Imax):C0/180Left:20.1 Right:19.7

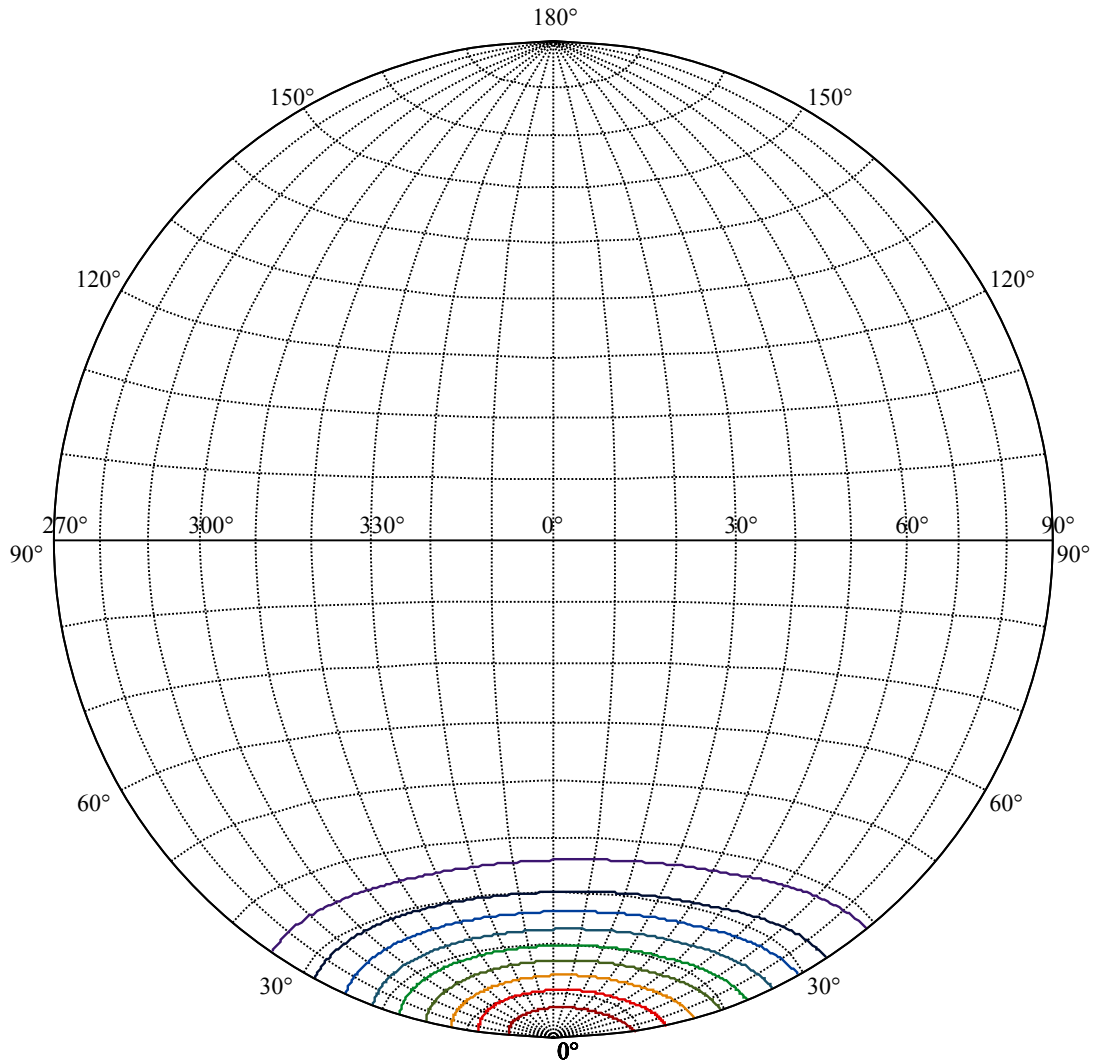
:C90/270Left:18.0 Right:22.8



Max , Ave Beam angle of C0 plane 41.19



- (10%Imax) 216.191
- (20%Imax) 432.381
- (30%Imax) 648.572
- (40%Imax) 864.762
- (50%Imax) 1080.95
- (60%Imax) 1297.14
- (70%Imax) 1513.33
- (80%Imax) 1729.52
- (90%Imax) 1945.72



House

[Unit:cd]

Road

Imax:2161.91

(10%Imax) 216.191	—
(20%Imax) 432.381	—
(30%Imax) 648.572	—
(40%Imax) 864.762	—
(50%Imax) 1080.95	—
(60%Imax) 1297.14	—
(70%Imax) 1513.33	—
(80%Imax) 1729.52	—
(90%Imax) 1945.72	—

LD3R-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	2161.91	2050.34	1774.70	1425.82	1059.57	728.05	435.05	234.78	140.78
45.0	2161.91	2081.04	1813.87	1468.37	1118.42	782.03	474.43	256.16	149.89
90.0	2161.91	2129.52	1922.68	1610.63	1269.79	930.64	607.16	331.53	181.64
135.0	2161.91	2111.10	1880.13	1554.74	1196.33	848.50	523.12	289.40	162.38
180.0	2161.91	2065.58	1807.94	1453.13	1085.82	747.95	452.41	244.73	146.08
225.0	2161.91	2040.60	1758.82	1408.03	1056.61	710.69	407.95	221.65	139.94
270.0	2161.91	1951.47	1640.27	1284.82	943.14	622.62	353.97	193.28	126.60
315.0	2161.91	2006.52	1718.60	1350.45	1007.07	685.28	391.65	209.80	130.83
360.0	2161.91	2050.34	1774.70	1425.82	1059.57	728.05	435.05	234.78	140.78

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	98.02	69.86	55.47	43.82	31.12	19.48	12.07	6.56	2.96
45.0	102.89	72.40	56.53	44.88	32.39	20.75	12.70	7.20	3.18
90.0	118.34	81.08	61.18	48.69	36.41	23.29	14.40	8.26	4.02
135.0	110.72	77.27	59.49	47.42	34.72	22.44	13.13	7.83	3.60
180.0	103.31	73.67	57.16	44.67	33.24	20.75	12.49	6.99	2.96
225.0	99.08	71.56	55.47	44.03	31.54	19.27	11.43	6.56	2.54
270.0	90.61	65.84	51.87	40.65	28.37	17.15	10.80	6.14	2.33
315.0	94.00	68.17	53.56	42.13	29.85	18.21	11.22	6.35	2.54
360.0	98.02	69.86	55.47	43.82	31.12	19.48	12.07	6.56	2.96

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	0.85	0.42	0.64	0.85	0.64	0.64	0.85
45.0	0.64	0.64	0.64	0.42	0.64	0.85	0.64	1.06	1.06
90.0	0.64	0.64	0.64	0.64	0.21	0.64	0.42	0.64	0.64
135.0	0.42	0.00	0.00	0.21	0.21	0.21	0.21	0.42	0.64
180.0	0.00	0.21	0.00	0.00	0.21	0.21	0.42	0.42	0.64
225.0	0.21	0.21	0.21	0.42	0.21	0.21	0.42	0.42	0.42
270.0	1.06	0.85	0.85	0.85	1.27	1.06	1.27	1.27	1.48
315.0	0.85	0.85	0.85	0.85	0.64	0.64	0.85	1.06	1.06
360.0	0.42	0.42	0.85	0.42	0.64	0.85	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	1.27	1.06	1.06	1.48	1.91	1.91	2.12	2.12	2.33
45.0	0.85	0.85	1.27	1.48	1.69	1.91	2.33	2.12	2.33
90.0	0.85	1.06	1.06	1.27	1.69	2.12	2.33	2.12	2.33
135.0	0.64	0.64	0.85	1.27	1.27	1.69	2.12	1.91	2.12
180.0	0.64	0.64	1.06	1.06	1.48	1.91	1.91	2.33	2.54
225.0	0.64	0.64	1.06	1.27	1.27	1.69	2.12	2.12	2.12
270.0	1.48	1.48	2.12	2.12	2.54	2.33	2.75	2.75	3.18
315.0	1.06	1.06	1.27	1.48	1.91	2.12	2.12	2.12	2.12
360.0	1.27	1.06	1.06	1.48	1.91	1.91	2.12	2.12	2.33

C/γ(°)	180.0
0.0	2.52
45.0	2.52
90.0	2.52
135.0	2.52
180.0	2.52
225.0	2.52
270.0	2.52
315.0	2.52
360.0	2.52