



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

LumCAT: LD3R-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.14

Number of Lamps: 1

PF: 0.9842

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1352.33, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 95.61

Central intensity(cd): 2276.061, Maximum intensity(cd): 2276.061

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.1

[C90/270]Total=40.1

Field angle(10%Imax): [C0/180]Total=72.8

[C90/270]Total=72.8

Maximum s/h(1/2): C0\_180=0.65 C90\_270=0.64

Maximum s/h(1/4): C0\_180=0.68 C90\_270=0.67

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.35%

Down flux rate of LUM(%): 99.65%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 95.878%

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

Date:  
Humidity(%): 59%

Operator: Tester

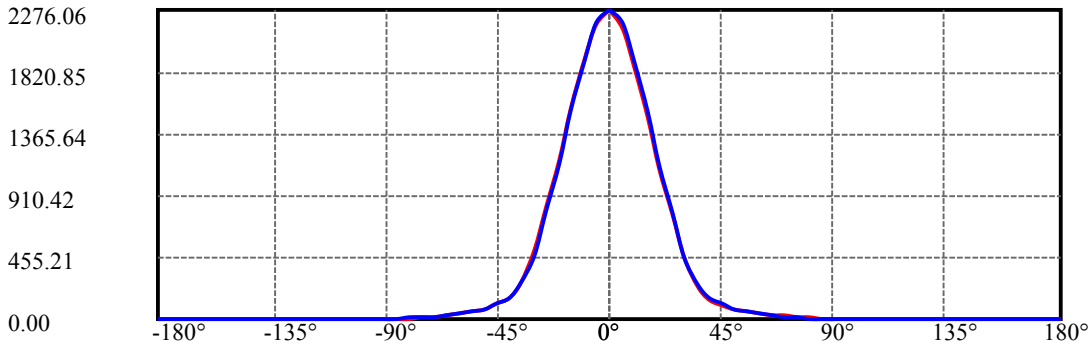
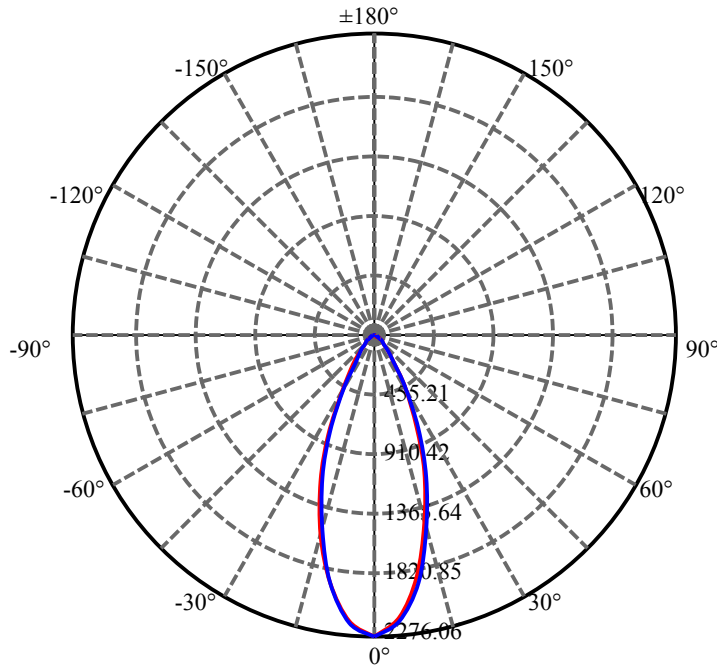
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2276.061	0.000	0	0.00%	0.00%
5.0	2163.547	53.074	53.074	0.00%	3.92%
10.0	1885.264	144.839	197.913	0.00%	14.63%
15.0	1522.565	202.150	400.063	0.00%	29.58%
20.0	1143.829	219.748	619.811	0.00%	45.83%
25.0	792.032	203.036	822.847	0.00%	60.85%
30.0	472.970	160.087	982.934	0.00%	72.68%
35.0	256.637	107.440	1090.374	0.00%	80.63%
40.0	152.294	68.227	1158.601	0.00%	85.67%
45.0	106.010	47.827	1206.428	0.00%	89.21%
50.0	75.498	36.676	1243.104	0.00%	91.92%
55.0	58.721	29.184	1272.288	0.00%	94.08%
60.0	46.442	24.308	1296.596	0.00%	95.88%
65.0	33.528	19.441	1316.037	0.00%	97.32%
70.0	20.879	13.776	1329.813	0.00%	98.33%
75.0	12.596	8.750	1338.563	0.00%	98.98%
80.0	7.251	5.311	1343.874	0.00%	99.37%
85.0	2.964	2.776	1346.649	0.00%	99.58%
90.0	0.318	0.898	1347.548	0.00%	99.65%
95.0	0.397	0.196	1347.744	0.00%	99.66%
100.0	0.371	0.209	1347.952	0.00%	99.68%
105.0	0.397	0.205	1348.158	0.00%	99.69%
110.0	0.397	0.208	1348.365	0.00%	99.71%
115.0	0.503	0.228	1348.593	0.00%	99.72%
120.0	0.529	0.251	1348.844	0.00%	99.74%
125.0	0.556	0.251	1349.095	0.00%	99.76%
130.0	0.688	0.270	1349.365	0.00%	99.78%
135.0	0.794	0.299	1349.664	0.00%	99.80%
140.0	0.979	0.328	1349.993	0.00%	99.83%
145.0	1.138	0.353	1350.346	0.00%	99.85%
150.0	1.429	0.378	1350.724	0.00%	99.88%
155.0	1.720	0.399	1351.123	0.00%	99.91%
160.0	1.932	0.383	1351.506	0.00%	99.94%
165.0	2.197	0.340	1351.846	0.00%	99.96%
170.0	2.249	0.264	1352.11	0.00%	99.98%
175.0	2.382	0.166	1352.275	0.00%	100.00%
180.0	2.587	0.059	1352.335	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	982.93	N.A.	72.68%
0-40	1158.60	N.A.	85.67%
0-60	1296.60	N.A.	95.88%
0-90	1347.55	N.A.	99.65%
0-120	1348.84	N.A.	99.74%
0-180	1352.33	N.A.	100.00%
60-90	50.95	N.A.	3.77%
90-120	1.30	N.A.	0.10%
90-130	1.82	N.A.	0.13%
90-150	3.18	N.A.	0.23%
90-180	4.73	N.A.	0.35%
0-34.60	1081.87	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	197.91
10-20	421.90
20-30	363.12
30-40	175.67
40-50	84.50
50-60	53.49
60-70	33.22
70-80	14.06
80-90	3.67
90-100	0.40
100-110	0.41
110-120	0.48
120-130	0.52
130-140	0.63
140-150	0.73
150-160	0.78
160-170	0.60
170-180	0.17



C0/C180: —

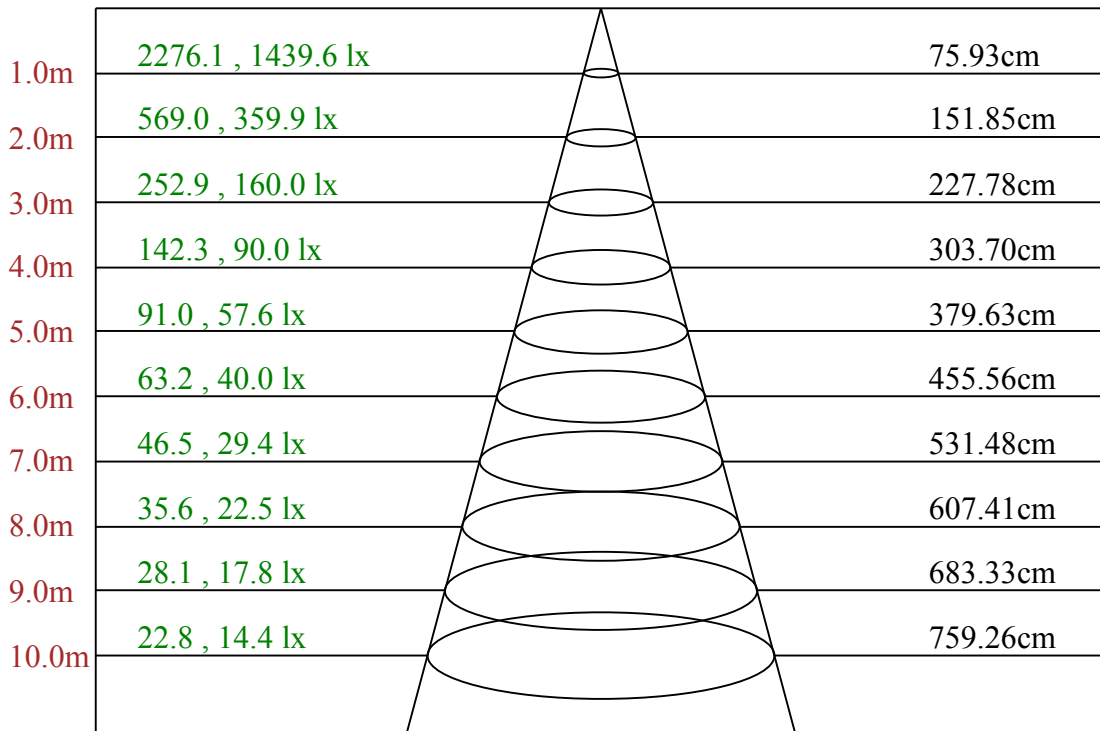
C90/C270: —

Field angle(10%Imax):C0/180Left:36.8 Right:36.0

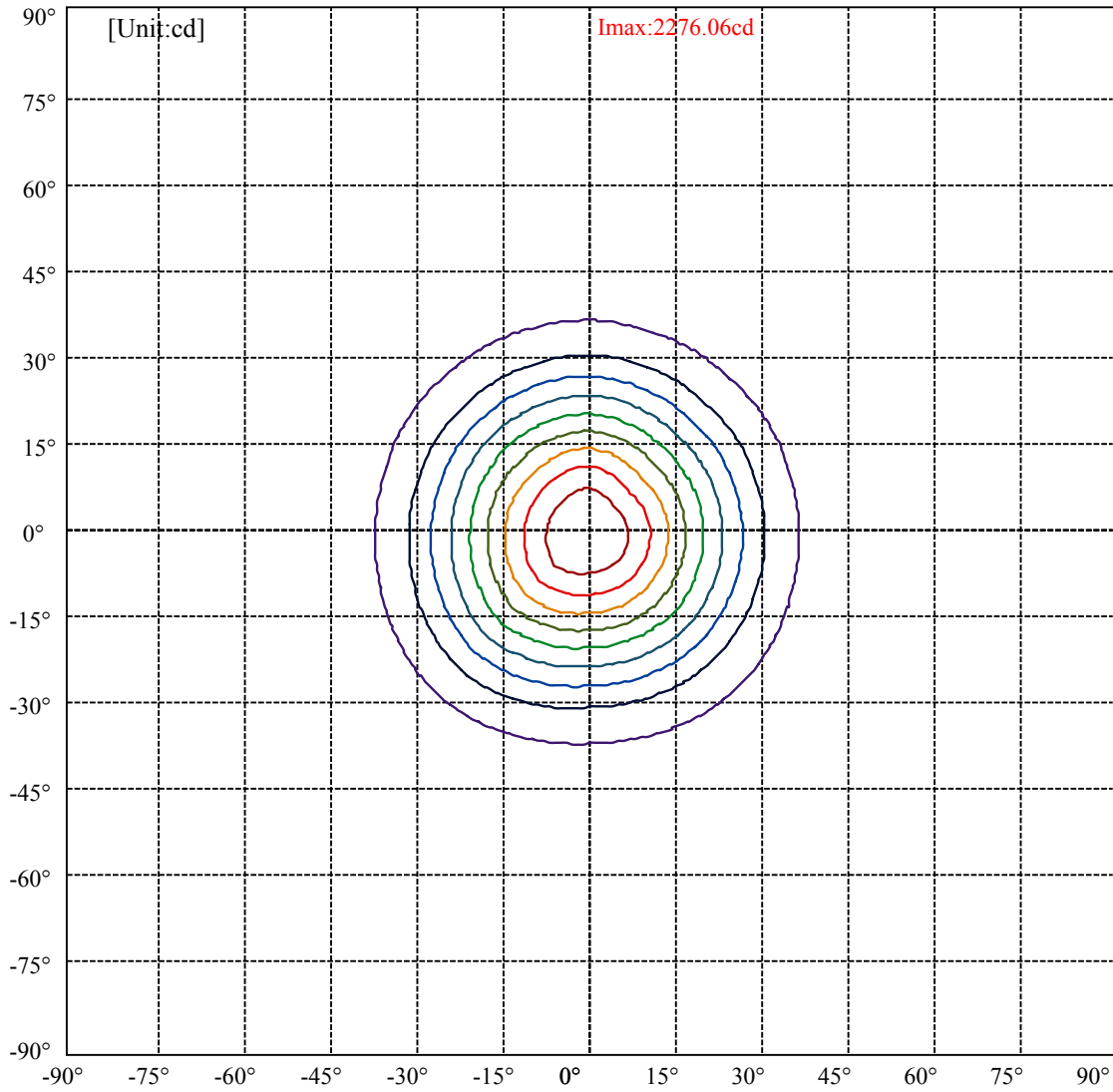
:C90/270Left:36.7 Right:36.1

Beam Angle(50%Imax):C0/180Left:20.6 Right:19.5

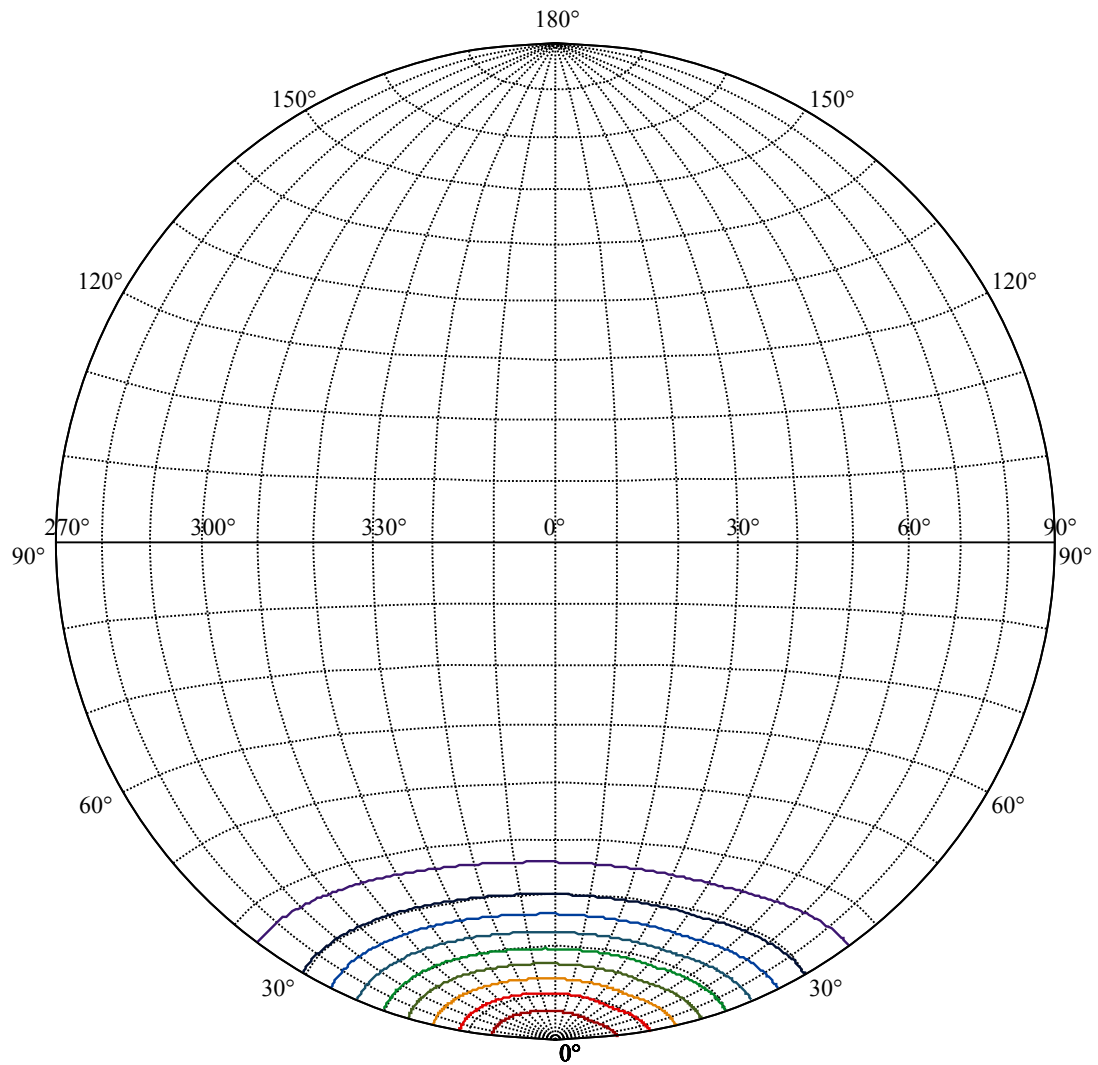
:C90/270Left:20.1 Right:20.0



Max , Ave      Beam angle of C0 plane 41.58



(10%I <sub>max</sub> )	227.606	—
(20%I <sub>max</sub> )	455.212	—
(30%I <sub>max</sub> )	682.818	—
(40%I <sub>max</sub> )	910.424	—
(50%I <sub>max</sub> )	1138.03	—
(60%I <sub>max</sub> )	1365.64	—
(70%I <sub>max</sub> )	1593.24	—
(80%I <sub>max</sub> )	1820.85	—
(90%I <sub>max</sub> )	2048.45	—












House

[Unit:cd]

Road

**Imax:2276.06**

(10%Imax)	227.606	
(20%Imax)	455.212	
(30%Imax)	682.818	
(40%Imax)	910.424	
(50%Imax)	1138.03	
(60%Imax)	1365.64	
(70%Imax)	1593.24	
(80%Imax)	1820.85	
(90%Imax)	2048.45	

LD3R-5CCT-3500K

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	2276.06	2139.25	1852.61	1478.32	1102.34	761.49	458.55	247.27	148.40
45.0	2276.06	2100.72	1784.44	1422.64	1046.02	699.47	398.64	221.23	139.51
90.0	2276.06	2171.64	1893.47	1522.99	1136.00	779.07	455.80	248.96	151.37
135.0	2276.06	2155.13	1873.78	1505.42	1132.82	768.69	445.63	240.07	147.56
180.0	2276.06	2168.89	1903.84	1559.61	1176.64	825.85	504.91	269.07	154.54
225.0	2276.06	2218.85	1983.02	1640.48	1265.13	918.79	577.10	305.70	166.61
270.0	2276.06	2183.29	1898.97	1535.90	1147.22	793.88	472.94	263.57	155.60
315.0	2276.06	2170.59	1891.99	1515.16	1144.46	789.02	470.19	257.22	154.76
360.0	2276.06	2139.25	1852.61	1478.32	1102.34	761.49	458.55	247.27	148.40

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	105.43	76.00	58.64	46.15	33.87	21.59	13.13	7.41	3.60
45.0	99.92	72.40	56.53	44.67	32.18	19.90	12.28	7.20	2.96
90.0	107.12	76.64	59.28	47.21	33.66	20.75	12.49	6.99	2.33
135.0	103.52	73.88	58.01	45.73	32.39	19.69	11.43	6.56	2.54
180.0	106.06	75.79	59.28	46.79	33.24	20.54	12.07	6.56	2.54
225.0	113.90	78.75	61.18	48.06	35.35	21.81	12.91	7.62	3.18
270.0	106.06	74.52	58.01	46.15	33.24	20.96	13.13	7.83	2.75
315.0	106.06	76.00	58.85	46.79	34.30	21.81	13.34	7.83	3.81
360.0	105.43	76.00	58.64	46.15	33.87	21.59	13.13	7.41	3.60

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.64	0.64	0.42	0.64	0.85	0.64	0.64	0.85
45.0	0.42	0.64	0.64	0.42	0.85	0.64	0.64	0.64	0.85
90.0	0.21	0.21	0.00	0.21	0.00	0.21	0.42	0.42	0.42
135.0	0.00	0.21	0.21	0.21	0.00	0.42	0.21	0.42	0.42
180.0	0.00	0.00	0.21	0.21	0.21	0.21	0.42	0.21	0.42
225.0	0.21	0.21	0.00	0.21	0.21	0.00	0.64	0.42	0.64
270.0	0.85	0.85	0.64	0.85	0.64	0.85	0.64	0.85	1.06
315.0	0.42	0.42	0.64	0.64	0.64	0.85	0.64	0.85	0.85
360.0	0.42	0.64	0.64	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	1.06	1.06	1.27	1.69	1.48	1.91	2.33	2.54	2.54
45.0	0.85	1.27	1.27	1.48	2.12	1.91	2.33	2.33	2.33
90.0	0.64	0.64	1.27	1.48	1.48	1.91	1.91	2.12	2.12
135.0	0.64	0.64	1.06	1.48	1.69	1.69	2.12	2.12	2.33
180.0	0.42	1.06	0.85	1.06	1.69	1.69	2.12	2.33	2.54
225.0	0.64	0.85	1.06	1.06	1.48	1.91	2.12	2.12	2.33
270.0	1.06	1.27	1.27	1.69	2.12	2.12	2.33	2.12	2.33
315.0	1.06	1.06	1.06	1.48	1.69	2.33	2.33	2.33	2.54
360.0	1.06	1.06	1.27	1.69	1.48	1.91	2.33	2.54	2.54

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