



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

LumCAT: LD3R-5CCT-4RSL-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.21

Number of Lamps: 1

PF: 0.9846

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1375.55, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.80

Central intensity(cd): 411.832, Maximum intensity(cd): 2153.861

Angle of maximum intensity: C=0.0  $\gamma$ =30.0

Beam Angle(50%Imax): [C0/180]Total=60.7

[C90/270]Total=50.6

Field angle(10%Imax): [C0/180]Total=74.2

[C90/270]Total=132.1

Maximum s/h(1/2): C0\_180=0.32 C90\_270=0.79

Maximum s/h(1/4): C0\_180=0.73 C90\_270=0.93

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  $\pi$  solid angle : 91.652%

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

Date:  
Humidity(%): 59%

Operator: Tester

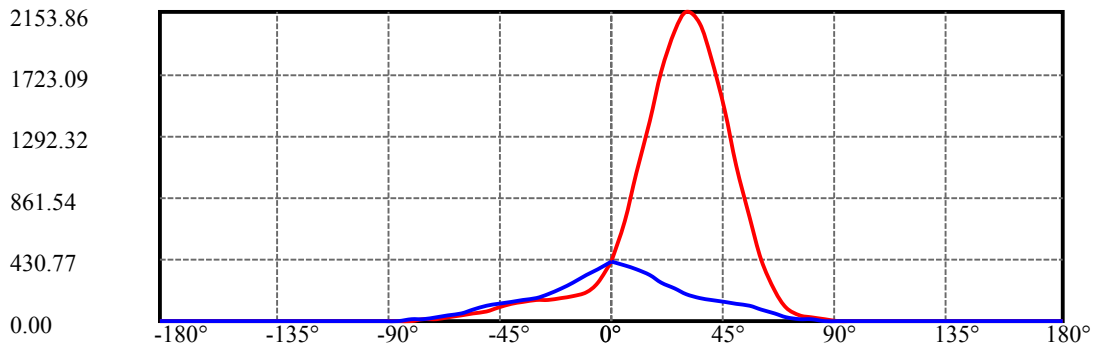
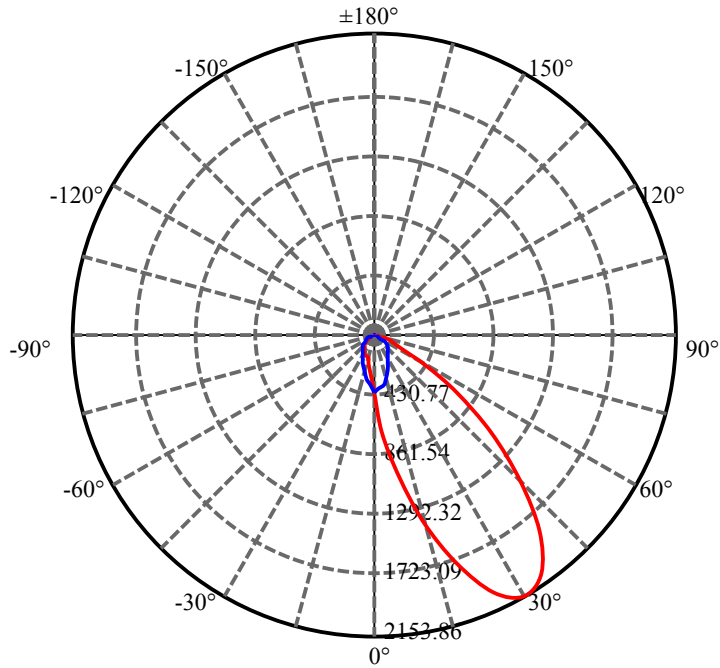
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	411.832	0.000	0	0.00%	0.00%
5.0	431.238	10.079	10.079	0.00%	0.73%
10.0	481.517	32.652	42.731	0.00%	3.11%
15.0	536.825	60.407	103.138	0.00%	7.50%
20.0	581.256	92.146	195.284	0.00%	14.20%
25.0	606.475	124.571	319.855	0.00%	23.25%
30.0	598.509	152.492	472.346	0.00%	34.34%
35.0	550.003	169.127	641.473	0.00%	46.63%
40.0	468.868	169.991	811.464	0.00%	58.99%
45.0	365.954	154.574	966.038	0.00%	70.23%
50.0	265.237	127.541	1093.579	0.00%	79.50%
55.0	182.938	97.448	1191.027	0.00%	86.59%
60.0	118.527	69.683	1260.71	0.00%	91.65%
65.0	70.312	45.907	1306.617	0.00%	94.99%
70.0	40.356	28.022	1334.639	0.00%	97.03%
75.0	23.817	16.774	1351.413	0.00%	98.25%
80.0	13.867	10.083	1361.496	0.00%	98.98%
85.0	7.119	5.702	1367.198	0.00%	99.39%
90.0	2.699	2.688	1369.886	0.00%	99.59%
95.0	0.424	0.855	1370.741	0.00%	99.65%
100.0	0.503	0.252	1370.993	0.00%	99.67%
105.0	0.529	0.276	1371.269	0.00%	99.69%
110.0	0.529	0.277	1371.545	0.00%	99.71%
115.0	0.582	0.281	1371.827	0.00%	99.73%
120.0	0.768	0.328	1372.155	0.00%	99.75%
125.0	0.741	0.349	1372.504	0.00%	99.78%
130.0	0.900	0.357	1372.86	0.00%	99.80%
135.0	1.006	0.385	1373.245	0.00%	99.83%
140.0	1.165	0.402	1373.647	0.00%	99.86%
145.0	1.244	0.402	1374.049	0.00%	99.89%
150.0	1.271	0.370	1374.419	0.00%	99.92%
155.0	1.376	0.335	1374.754	0.00%	99.94%
160.0	1.376	0.289	1375.043	0.00%	99.96%
165.0	1.297	0.220	1375.263	0.00%	99.98%
170.0	1.270	0.152	1375.416	0.00%	99.99%
175.0	1.429	0.097	1375.512	0.00%	100.00%
180.0	1.506	0.035	1375.547	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	472.35	N.A.	34.34%
0-40	811.46	N.A.	58.99%
0-60	1260.71	N.A.	91.65%
0-90	1369.89	N.A.	99.59%
0-120	1372.15	N.A.	99.75%
0-180	1375.55	N.A.	100.00%
60-90	109.18	N.A.	7.94%
90-120	2.27	N.A.	0.16%
90-130	2.97	N.A.	0.22%
90-150	4.53	N.A.	0.33%
90-180	5.63	N.A.	0.41%
0-50.35	1100.44	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	42.73
10-20	152.55
20-30	277.06
30-40	339.12
40-50	282.12
50-60	167.13
60-70	73.93
70-80	26.86
80-90	8.39
90-100	1.11
100-110	0.55
110-120	0.61
120-130	0.71
130-140	0.79
140-150	0.77
150-160	0.62
160-170	0.37
170-180	0.10



C0/C180: ————

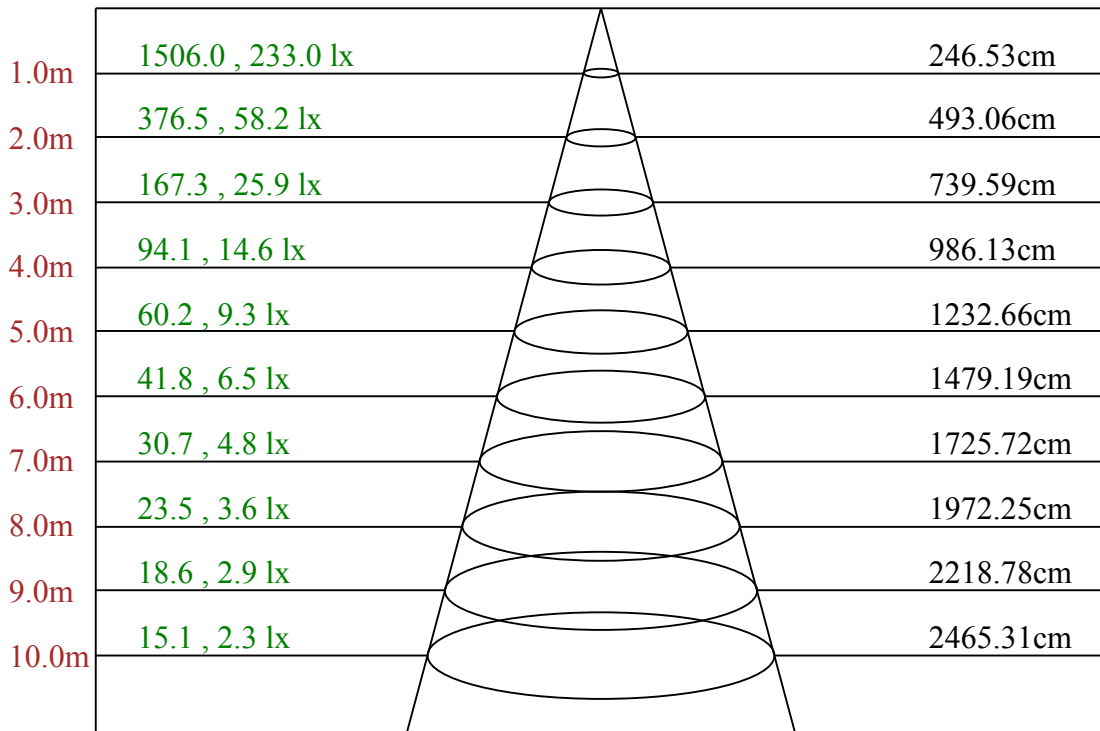
C90/C270: ————

Field angle(10%Imax):C0/180Left:9.1 Right:65.1

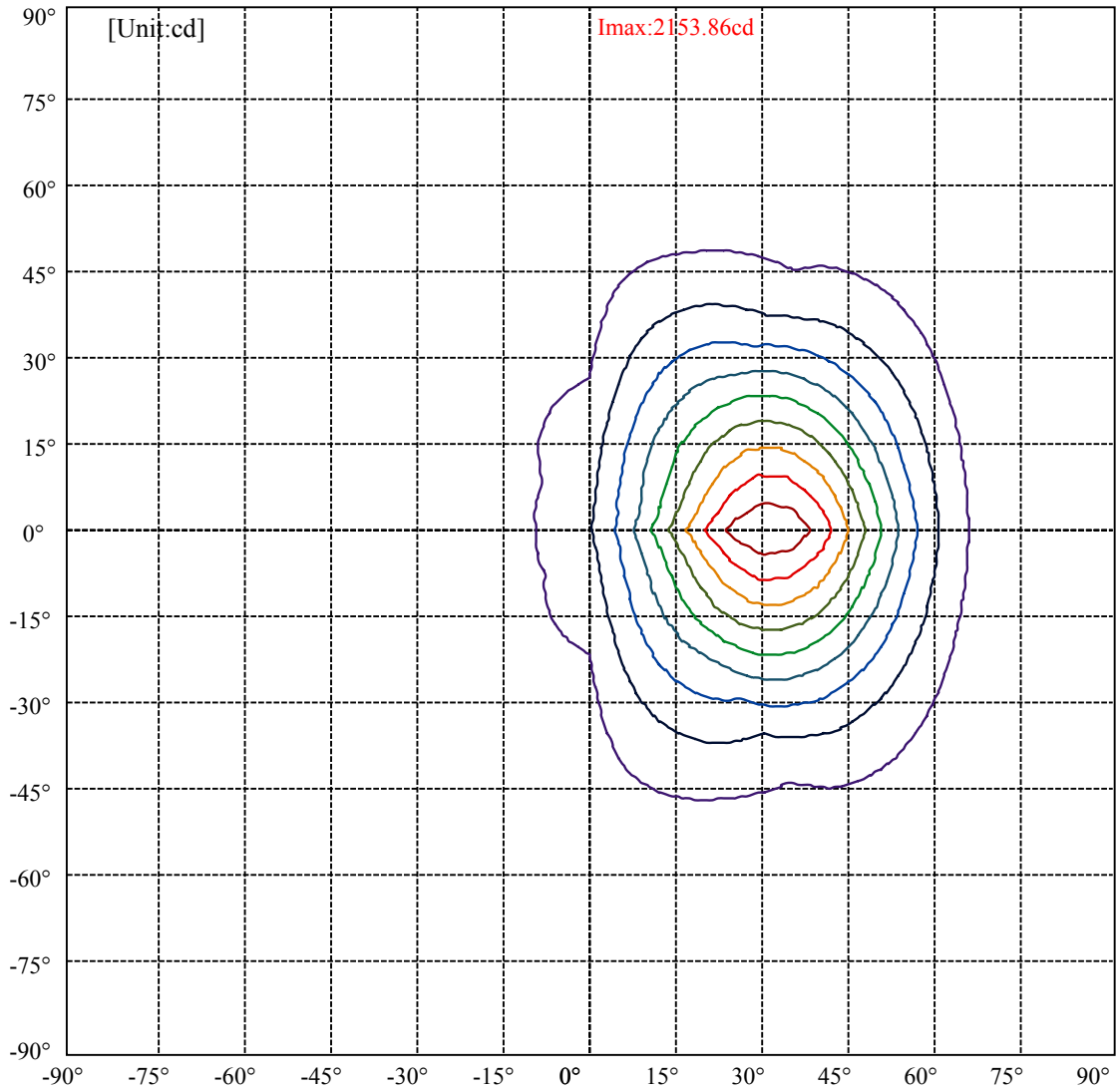
:C90/270Left:64.7 Right:67.4

Beam Angle(50%Imax):C0/180Left:10.6 Right:50.1

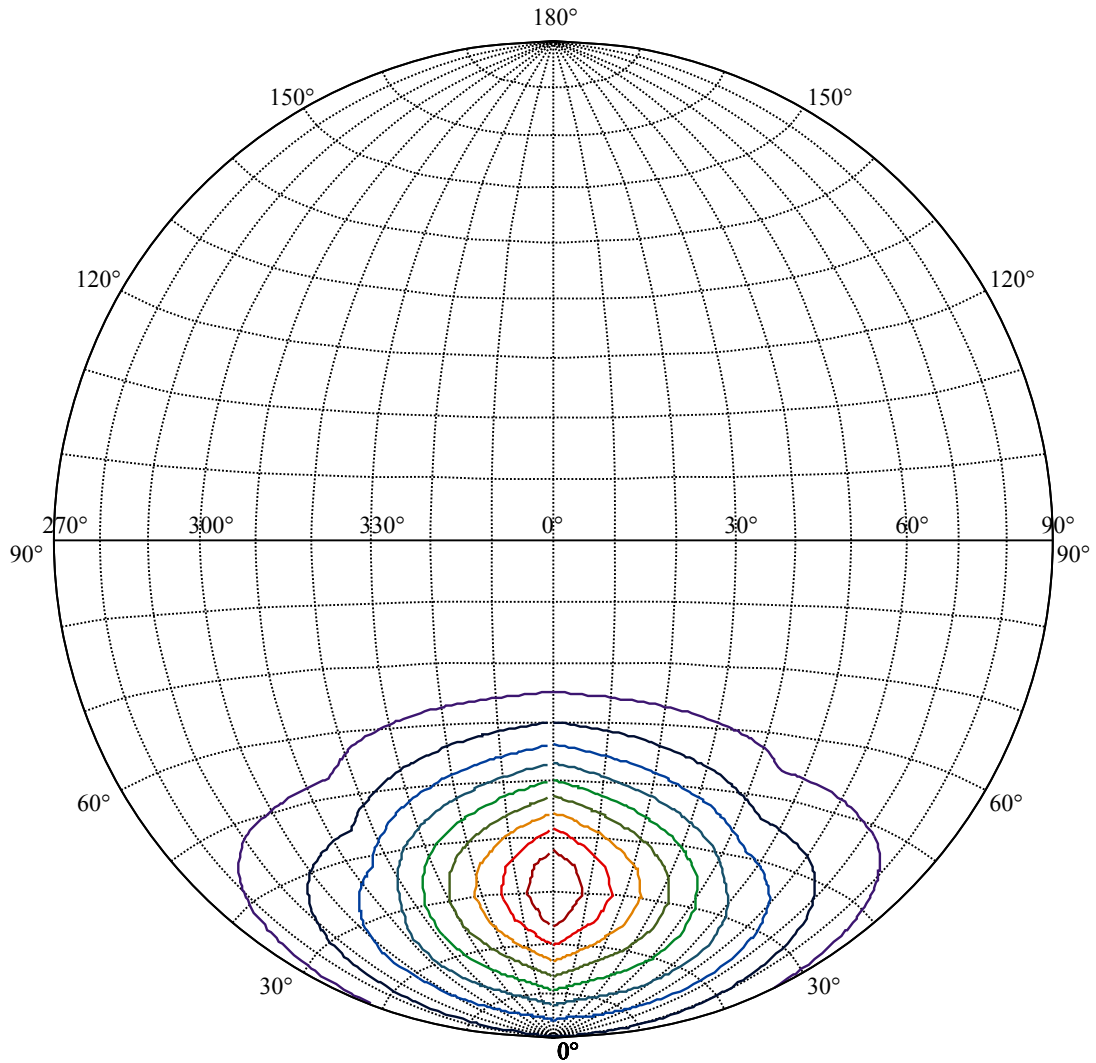
:C90/270Left:22.8 Right:27.8



Max , Ave      Beam angle of C0 plane 101.90



(10%Imax) 215.386	—
(20%Imax) 430.772	—
(30%Imax) 646.158	—
(40%Imax) 861.544	—
(50%Imax) 1076.93	—
(60%Imax) 1292.32	—
(70%Imax) 1507.7	—
(80%Imax) 1723.09	—
(90%Imax) 1938.47	—



House

[Unit:cd]

Road

**Imax:2153.86**

(10%Imax) 215.386	—
(20%Imax) 430.772	—
(30%Imax) 646.158	—
(40%Imax) 861.544	—
(50%Imax) 1076.93	—
(60%Imax) 1292.32	—
(70%Imax) 1507.7	—
(80%Imax) 1723.09	—
(90%Imax) 1938.47	—

LD3R-5CCT-4RSL-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	411.83	696.50	1036.71	1397.03	1740.83	2023.03	2153.86	2078.28	1834.61
45.0	411.83	584.93	766.36	920.27	1017.02	1042.21	991.62	869.89	689.94
90.0	411.83	385.72	362.01	321.15	268.65	223.35	192.01	165.76	145.23
135.0	411.83	297.02	226.73	187.99	164.49	151.37	143.75	136.34	124.90
180.0	411.83	272.67	203.45	170.42	155.81	149.04	144.38	132.95	117.07
225.0	411.83	291.51	221.86	183.76	161.32	148.83	141.63	132.95	120.25
270.0	411.83	358.62	317.77	269.92	224.83	190.74	166.19	145.65	129.77
315.0	411.83	562.92	717.25	844.06	917.10	923.24	854.64	738.21	589.17
360.0	411.83	696.50	1036.71	1397.03	1740.83	2023.03	2153.86	2078.28	1834.61

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1475.36	1087.73	724.02	432.30	218.48	96.96	44.67	20.11	7.20
45.0	485.43	309.93	203.02	138.24	87.43	54.62	34.08	18.21	5.72
90.0	130.41	118.13	106.70	76.21	49.96	31.97	17.78	9.10	4.45
135.0	108.18	82.56	59.28	41.92	29.85	19.90	12.28	6.56	3.18
180.0	90.40	65.84	48.69	36.41	25.83	16.51	9.32	4.23	1.48
225.0	101.41	76.21	55.04	38.74	26.89	18.00	10.16	5.29	2.33
270.0	117.28	107.33	86.80	59.07	40.01	25.19	13.76	8.05	4.45
315.0	419.17	274.16	179.95	125.33	84.05	59.70	48.48	39.38	28.16
360.0	1475.36	1087.73	724.02	432.30	218.48	96.96	44.67	20.11	7.20

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.27	0.85	0.64	0.85	0.64	0.85	0.64	0.64	0.64
45.0	1.91	0.64	0.85	0.64	0.64	0.64	0.85	0.64	0.64
90.0	1.48	0.00	0.42	0.42	0.21	0.21	0.42	0.42	0.42
135.0	0.64	0.21	0.21	0.21	0.21	0.42	0.42	0.64	0.85
180.0	0.21	0.21	0.42	0.42	0.21	0.64	1.06	1.06	1.69
225.0	0.64	0.21	0.21	0.21	0.64	0.42	0.85	0.85	1.27
270.0	1.48	0.64	0.64	0.85	1.06	0.85	1.06	0.85	0.85
315.0	13.97	0.64	0.64	0.64	0.64	0.64	0.85	0.85	0.85
360.0	1.27	0.85	0.64	0.85	0.64	0.85	0.64	0.64	0.64

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.64	0.64	1.06	0.85	1.06	1.06	1.06	1.06	1.27
45.0	0.64	1.06	0.85	0.85	0.85	1.06	0.85	1.27	1.69
90.0	0.42	0.64	0.64	0.85	0.85	1.06	1.06	1.06	1.06
135.0	0.85	1.06	1.06	1.06	1.48	1.48	1.27	1.27	1.27
180.0	1.91	2.12	2.33	2.33	2.12	2.12	1.69	1.48	1.69
225.0	1.69	1.91	1.91	2.33	2.54	2.33	2.12	1.69	1.69
270.0	1.06	1.06	1.27	1.06	1.27	1.06	1.06	1.27	1.48
315.0	0.85	0.85	0.85	0.85	0.85	0.85	1.27	1.06	1.27
360.0	0.64	0.64	1.06	0.85	1.06	1.06	1.06	1.06	1.27

C/γ(°)	180.0
0.0	1.51
45.0	1.51
90.0	1.51
135.0	1.51
180.0	1.51
225.0	1.51
270.0	1.51
315.0	1.51
360.0	1.51