



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

LumCAT: LD3R-5CCT-4RSL-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.16

Number of Lamps: 1

PF: 0.9843

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1332.96, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 94.16

Central intensity(cd): 424.981, Maximum intensity(cd): 2062.194

Angle of maximum intensity: C=0.0 γ =30.0

Beam Angle(50%Imax): [C0/180]Total=60.4

[C90/270]Total=47.5

Field angle(10%Imax): [C0/180]Total=75.2

[C90/270]Total=131.0

Maximum s/h(1/2): C0_180=0.31 C90_270=0.75

Maximum s/h(1/4): C0_180=0.69 C90_270=0.89

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.43%

Down flux rate of LUM(%): 99.57%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 91.538%

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

Date:
Humidity(%): 59%

Operator: Tester

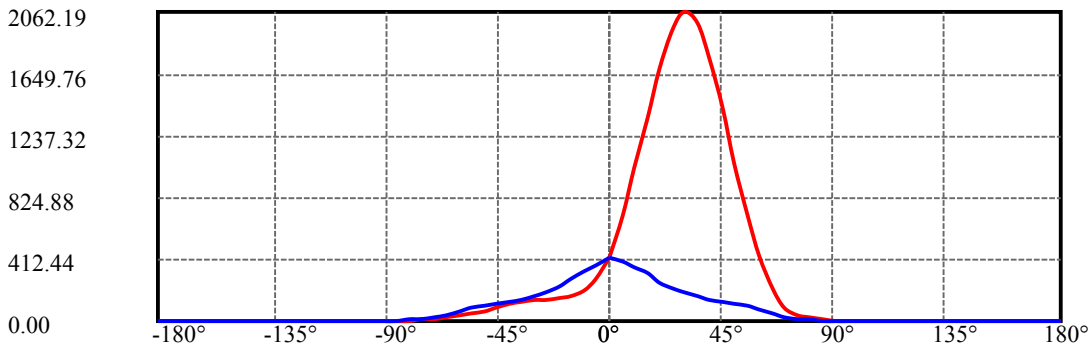
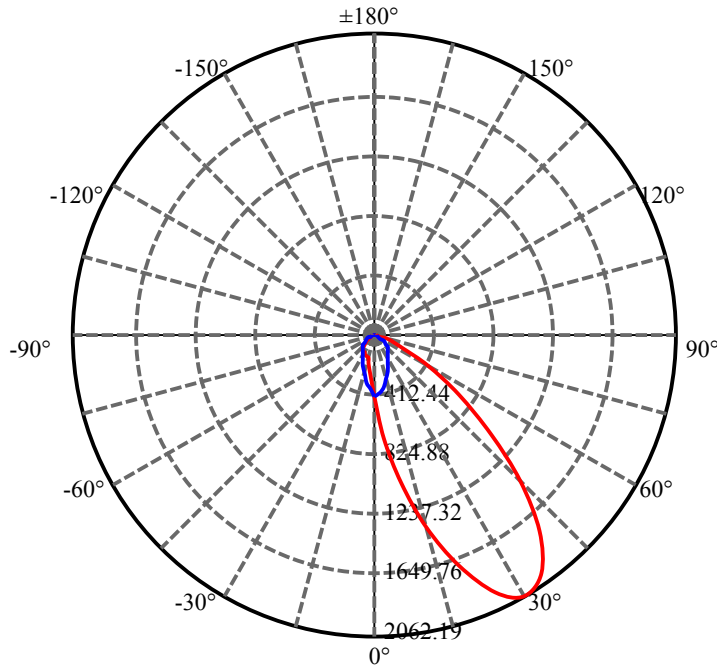
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	424.981	0.000	0	0.00%	0.00%
5.0	440.394	10.345	10.345	0.00%	0.78%
10.0	482.391	33.011	43.356	0.00%	3.25%
15.0	529.441	60.021	103.377	0.00%	7.76%
20.0	566.410	90.314	193.691	0.00%	14.53%
25.0	586.310	120.899	314.59	0.00%	23.60%
30.0	574.957	146.959	461.549	0.00%	34.63%
35.0	526.795	162.241	623.79	0.00%	46.80%
40.0	448.968	162.799	786.589	0.00%	59.01%
45.0	351.611	148.234	934.823	0.00%	70.13%
50.0	256.689	122.916	1057.739	0.00%	79.35%
55.0	177.433	94.393	1152.131	0.00%	86.43%
60.0	116.886	68.031	1220.162	0.00%	91.54%
65.0	69.174	45.232	1265.394	0.00%	94.93%
70.0	39.509	27.519	1292.913	0.00%	97.00%
75.0	23.287	16.414	1309.327	0.00%	98.23%
80.0	13.470	9.835	1319.162	0.00%	98.97%
85.0	6.748	5.494	1324.656	0.00%	99.38%
90.0	2.646	2.572	1327.228	0.00%	99.57%
95.0	0.476	0.855	1328.083	0.00%	99.63%
100.0	0.476	0.259	1328.342	0.00%	99.65%
105.0	0.423	0.241	1328.583	0.00%	99.67%
110.0	0.609	0.270	1328.853	0.00%	99.69%
115.0	0.715	0.335	1329.188	0.00%	99.72%
120.0	0.741	0.354	1329.541	0.00%	99.74%
125.0	0.768	0.349	1329.89	0.00%	99.77%
130.0	0.926	0.368	1330.258	0.00%	99.80%
135.0	0.979	0.385	1330.644	0.00%	99.83%
140.0	1.191	0.402	1331.045	0.00%	99.86%
145.0	1.218	0.402	1331.447	0.00%	99.89%
150.0	1.297	0.370	1331.817	0.00%	99.91%
155.0	1.350	0.335	1332.152	0.00%	99.94%
160.0	1.403	0.289	1332.441	0.00%	99.96%
165.0	1.323	0.225	1332.666	0.00%	99.98%
170.0	1.350	0.159	1332.824	0.00%	99.99%
175.0	1.456	0.100	1332.925	0.00%	100.00%
180.0	1.364	0.034	1332.958	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	461.55	N.A.	34.63%
0-40	786.59	N.A.	59.01%
0-60	1220.16	N.A.	91.54%
0-90	1327.23	N.A.	99.57%
0-120	1329.54	N.A.	99.74%
0-180	1332.96	N.A.	100.00%
60-90	107.07	N.A.	8.03%
90-120	2.31	N.A.	0.17%
90-130	3.03	N.A.	0.23%
90-150	4.59	N.A.	0.34%
90-180	5.70	N.A.	0.43%
0-50.46	1066.37	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	43.36
10-20	150.33
20-30	267.86
30-40	325.04
40-50	271.15
50-60	162.42
60-70	72.75
70-80	26.25
80-90	8.07
90-100	1.11
100-110	0.51
110-120	0.69
120-130	0.72
130-140	0.79
140-150	0.77
150-160	0.62
160-170	0.38
170-180	0.10

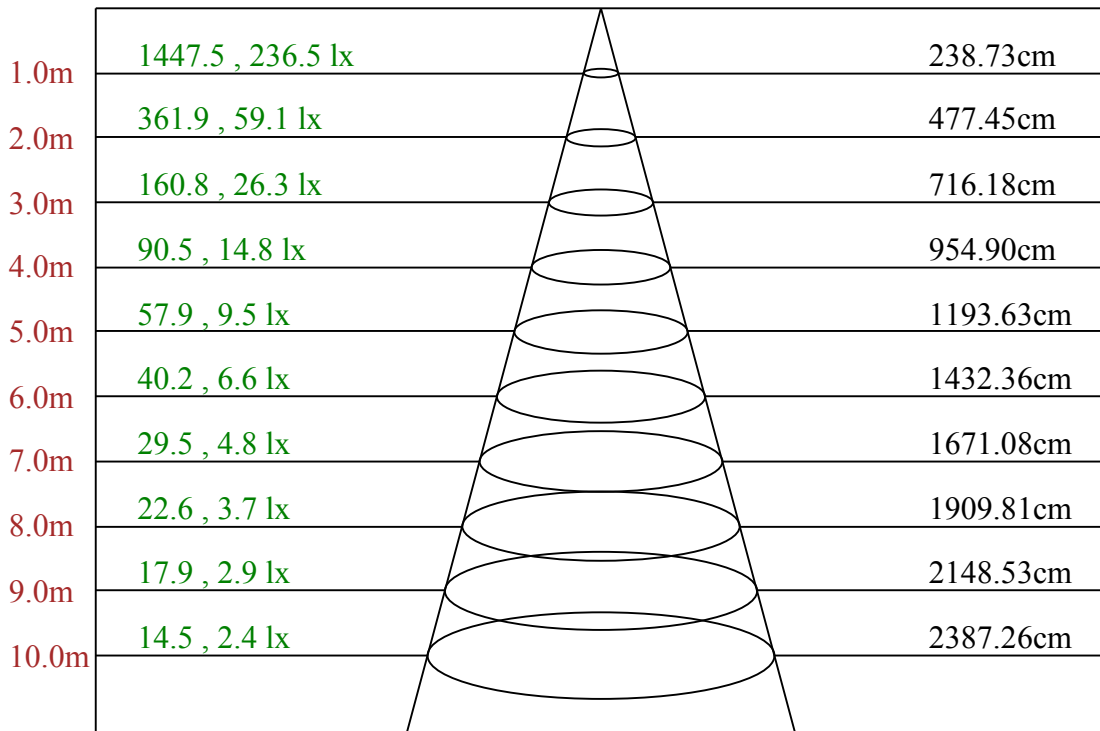


C0/C180: —

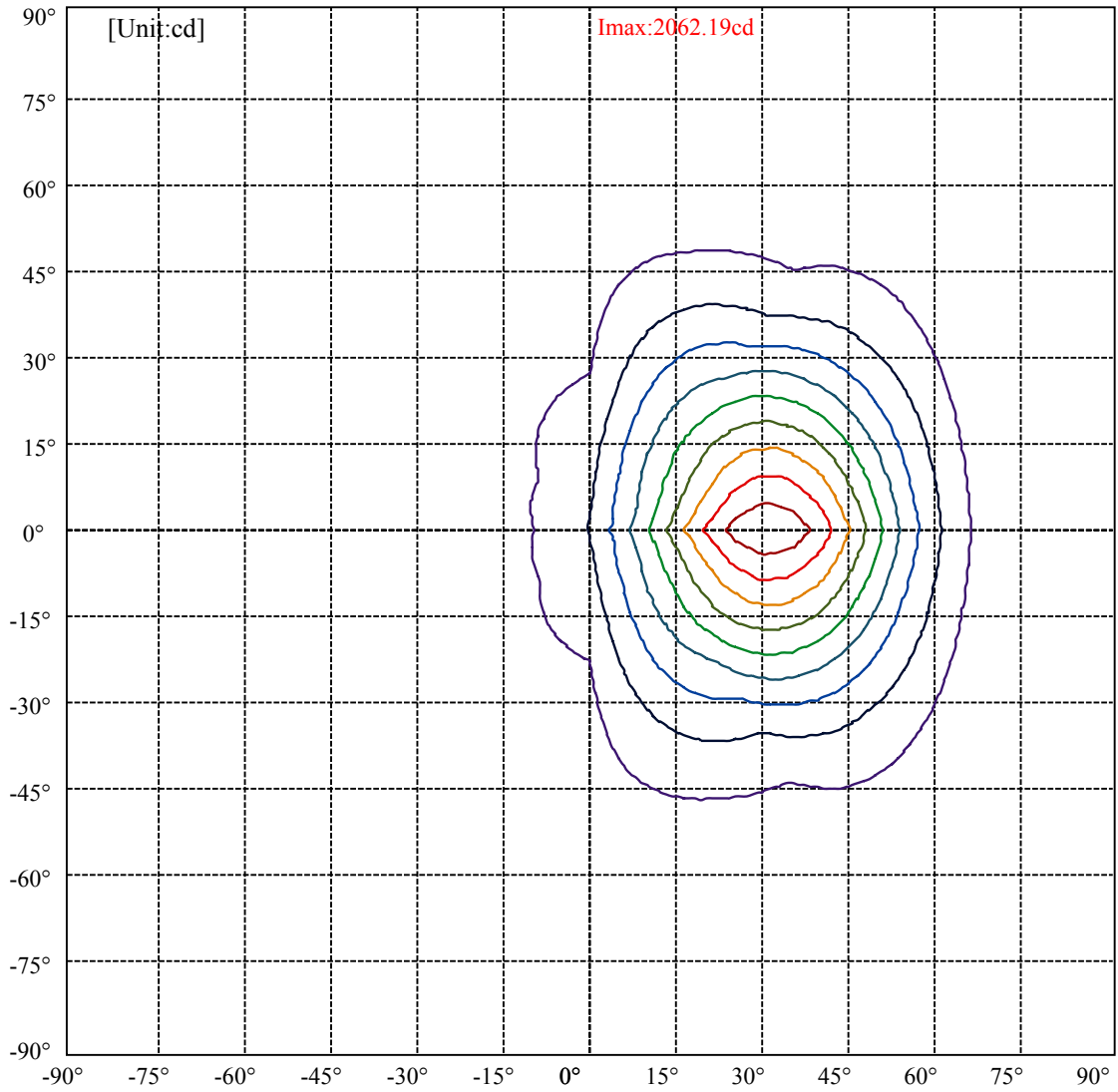
C90/C270: —

Field angle(10%Imax):C0/180Left:9.7 Right:65.5
:C90/270Left:64.3 Right:66.7

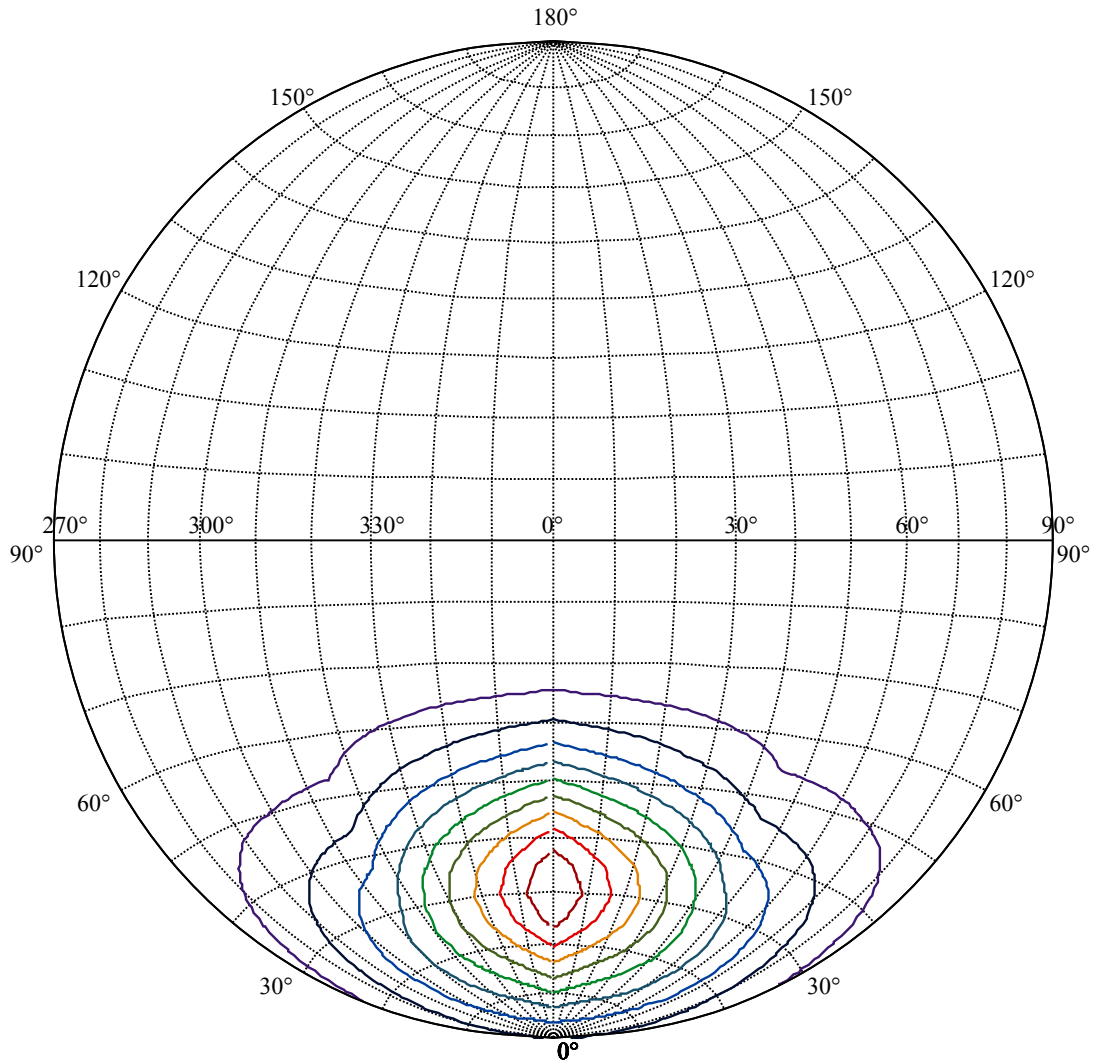
Beam Angle(50%Imax):C0/180Left:10.1 Right:50.3
:C90/270Left:21.7 Right:25.8



Max , Ave Beam angle of C0 plane 100.09



(10%Imax) 206.219	—
(20%Imax) 412.439	—
(30%Imax) 618.658	—
(40%Imax) 824.878	—
(50%Imax) 1031.1	—
(60%Imax) 1237.32	—
(70%Imax) 1443.54	—
(80%Imax) 1649.76	—
(90%Imax) 1855.97	—



House

[Unit:cd]

Road

I_{max}:2062.19

(10%I _{max}) 206.219	—
(20%I _{max}) 412.439	—
(30%I _{max}) 618.658	—
(40%I _{max}) 824.878	—
(50%I _{max}) 1031.1	—
(60%I _{max}) 1237.32	—
(70%I _{max}) 1443.54	—
(80%I _{max}) 1649.76	—
(90%I _{max}) 1855.97	—

LD3R-5CCT-4RSL-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	424.98	708.15	1025.06	1361.88	1679.65	1944.49	2062.19	1984.92	1754.59
45.0	424.98	592.77	760.01	899.52	980.18	994.16	939.32	824.37	656.70
90.0	424.98	392.50	360.32	315.65	261.88	217.63	186.93	161.32	141.42
135.0	424.98	299.98	225.04	185.03	161.53	147.98	140.78	133.58	122.58
180.0	424.98	276.27	201.33	168.30	153.70	146.71	142.26	131.04	114.95
225.0	424.98	298.08	223.35	183.12	159.62	147.13	139.30	131.47	118.77
270.0	424.98	372.39	328.99	275.43	224.41	188.42	163.43	143.32	127.66
315.0	424.98	583.03	735.03	846.60	910.32	903.97	825.43	704.33	555.08
360.0	424.98	708.15	1025.06	1361.88	1679.65	1944.49	2062.19	1984.92	1754.59

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1416.71	1054.28	703.49	432.09	218.48	94.84	43.40	19.48	7.20
45.0	465.32	298.71	193.92	134.64	84.68	53.77	33.24	17.36	5.50
90.0	126.60	114.11	104.16	73.04	48.48	31.33	17.57	8.89	4.23
135.0	106.28	81.08	58.22	41.28	29.64	19.69	12.07	6.56	2.96
180.0	89.34	64.99	47.85	35.99	25.62	16.51	9.74	4.02	1.06
225.0	100.35	75.37	54.62	38.32	27.10	17.57	10.16	5.29	2.12
270.0	115.38	105.64	85.10	58.01	40.01	24.77	13.55	8.05	4.45
315.0	392.92	259.34	172.11	121.73	79.39	57.58	46.58	38.11	26.46
360.0	1416.71	1054.28	703.49	432.09	218.48	94.84	43.40	19.48	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	0.42	0.64	0.64	0.85	0.85	0.64	0.85	0.64
45.0	2.12	0.85	0.64	0.42	0.85	0.85	0.85	0.85	0.64
90.0	1.27	0.21	0.42	0.21	0.21	0.42	0.42	0.21	0.42
135.0	0.85	0.21	0.21	0.00	0.21	0.42	0.42	0.64	0.64
180.0	0.21	0.42	0.21	0.42	0.64	0.85	1.06	1.06	1.69
225.0	0.85	0.21	0.21	0.21	0.42	0.64	0.64	0.85	1.48
270.0	1.48	0.85	0.85	0.85	0.85	1.06	1.06	0.85	1.06
315.0	13.13	0.64	0.64	0.64	0.85	0.64	0.85	0.85	0.85
360.0	1.27	0.42	0.64	0.64	0.85	0.85	0.64	0.85	0.64

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

C/γ(°)	180.0
0.0	1.36
45.0	1.36
90.0	1.36
135.0	1.36
180.0	1.36
225.0	1.36
270.0	1.36
315.0	1.36
360.0	1.36