



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

LumCAT: LD3R-5CCT-4RSL-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1220

Lamp flux(lm): -1.0

Power (W): 14.46

Number of Lamps: 1

PF: 0.9849

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1386.83, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 95.91

Central intensity(cd): 351.501, Maximum intensity(cd): 2194.482

Angle of maximum intensity: C=0.0 γ =30.0

Beam Angle(50%Imax): [C0/180]Total=62.9

[C90/270]Total=59.4

Field angle(10%Imax): [C0/180]Total=73.0

[C90/270]Total=135.5

Maximum s/h(1/2): C0_180=0.39 C90_270=0.89

Maximum s/h(1/4): C0_180=0.84 C90_270=1.01

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.42%

Down flux rate of LUM(%): 99.58%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 91.369%

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

Date:
Humidity(%): 59%

Operator: Tester

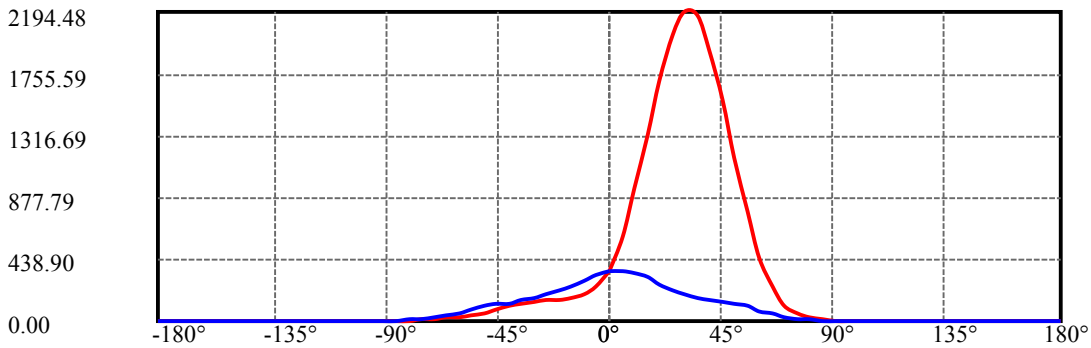
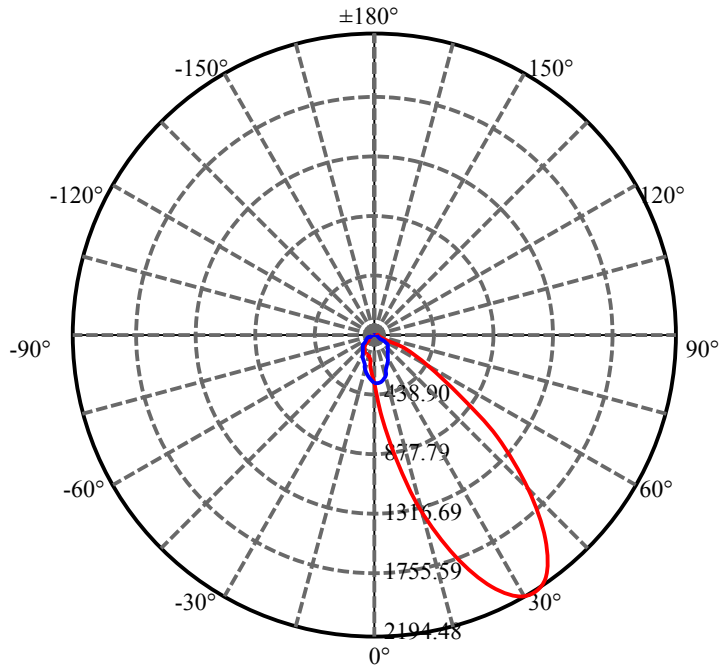
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	351.501	0.000	0	0.00%	0.00%
5.0	375.401	8.690	8.69	0.00%	0.63%
10.0	434.980	28.990	37.68	0.00%	2.72%
15.0	501.592	55.557	93.237	0.00%	6.72%
20.0	560.504	87.532	180.768	0.00%	13.03%
25.0	598.420	121.550	302.318	0.00%	21.80%
30.0	601.431	151.842	454.16	0.00%	32.75%
35.0	562.715	171.429	625.589	0.00%	45.11%
40.0	484.673	174.749	800.338	0.00%	57.71%
45.0	381.103	160.305	960.643	0.00%	69.27%
50.0	277.001	132.980	1093.623	0.00%	78.86%
55.0	189.766	101.491	1195.113	0.00%	86.18%
60.0	121.848	72.029	1267.142	0.00%	91.37%
65.0	74.046	47.622	1314.764	0.00%	94.80%
70.0	42.286	29.456	1344.22	0.00%	96.93%
75.0	24.647	17.495	1361.715	0.00%	98.19%
80.0	14.548	10.487	1372.203	0.00%	98.94%
85.0	7.487	5.988	1378.19	0.00%	99.38%
90.0	2.958	2.860	1381.05	0.00%	99.58%
95.0	0.453	0.934	1381.984	0.00%	99.65%
100.0	0.373	0.224	1382.208	0.00%	99.67%
105.0	0.453	0.221	1382.429	0.00%	99.68%
110.0	0.559	0.265	1382.693	0.00%	99.70%
115.0	0.639	0.304	1382.997	0.00%	99.72%
120.0	0.746	0.337	1383.334	0.00%	99.75%
125.0	0.746	0.345	1383.679	0.00%	99.77%
130.0	0.959	0.371	1384.049	0.00%	99.80%
135.0	1.066	0.409	1384.459	0.00%	99.83%
140.0	1.173	0.414	1384.873	0.00%	99.86%
145.0	1.332	0.418	1385.291	0.00%	99.89%
150.0	1.386	0.400	1385.691	0.00%	99.92%
155.0	1.359	0.347	1386.039	0.00%	99.94%
160.0	1.333	0.282	1386.321	0.00%	99.96%
165.0	1.386	0.224	1386.545	0.00%	99.98%
170.0	1.359	0.163	1386.708	0.00%	99.99%
175.0	1.279	0.094	1386.802	0.00%	100.00%
180.0	1.397	0.032	1386.834	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	454.16	N.A.	32.75%
0-40	800.34	N.A.	57.71%
0-60	1267.14	N.A.	91.37%
0-90	1381.05	N.A.	99.58%
0-120	1383.33	N.A.	99.75%
0-180	1386.83	N.A.	100.00%
60-90	113.91	N.A.	8.21%
90-120	2.28	N.A.	0.16%
90-130	3.00	N.A.	0.22%
90-150	4.64	N.A.	0.33%
90-180	5.75	N.A.	0.41%
0-50.78	1109.47	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	37.68
10-20	143.09
20-30	273.39
30-40	346.18
40-50	293.29
50-60	173.52
60-70	77.08
70-80	27.98
80-90	8.85
90-100	1.16
100-110	0.49
110-120	0.64
120-130	0.72
130-140	0.82
140-150	0.82
150-160	0.63
160-170	0.39
170-180	0.09

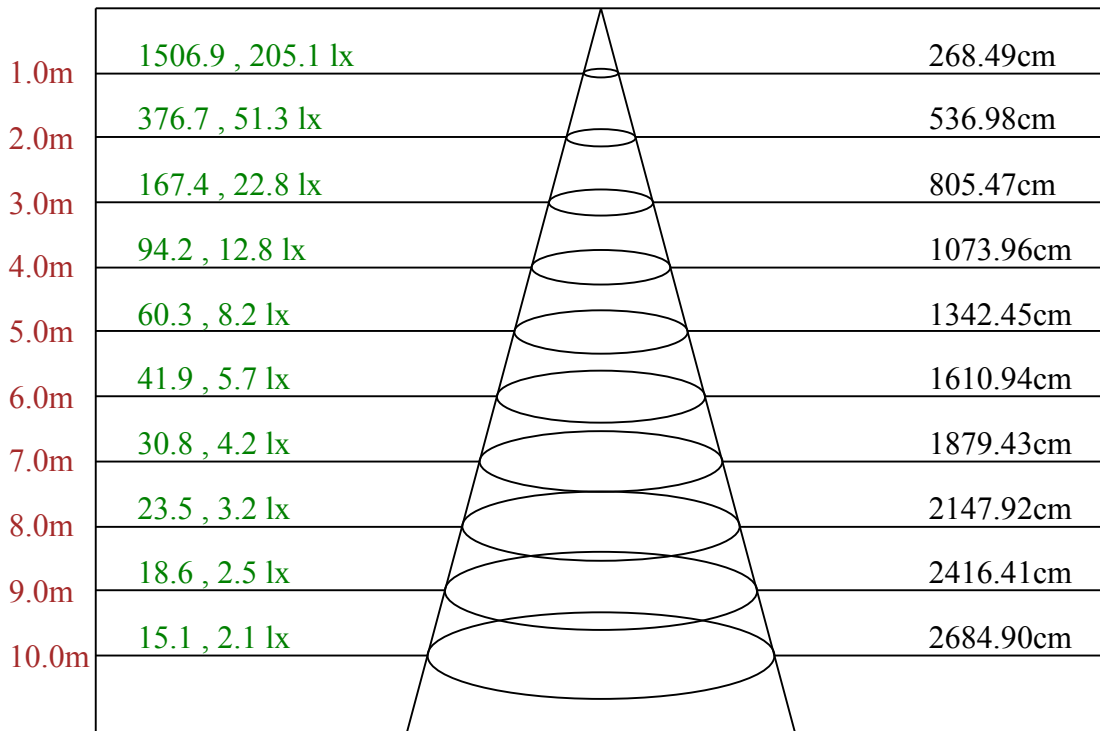


C0/C180: —

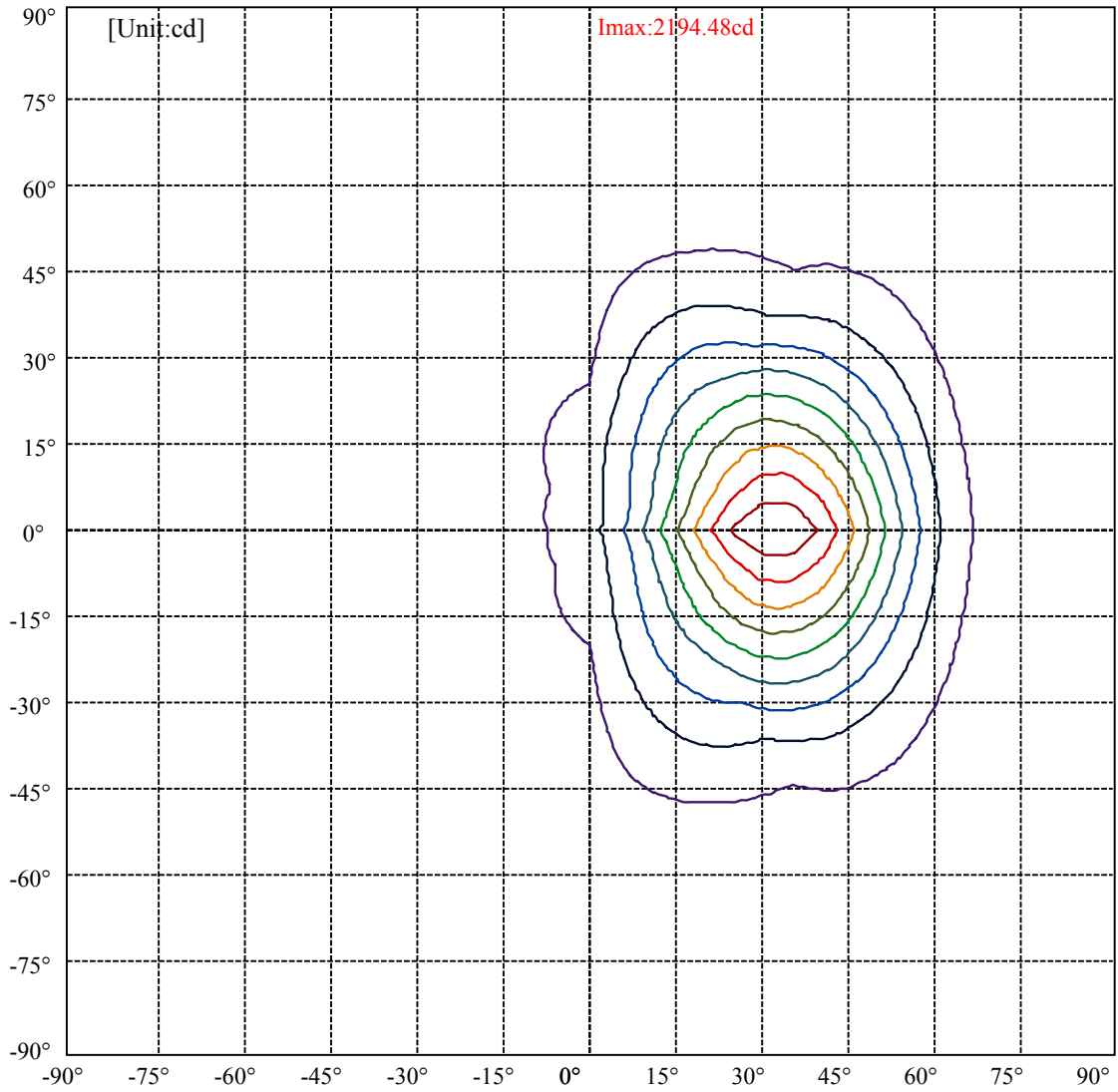
C90/C270: —

Field angle(10%Imax):C0/180Left:7.2 Right:65.8
:C90/270Left:66.5 Right:69.0

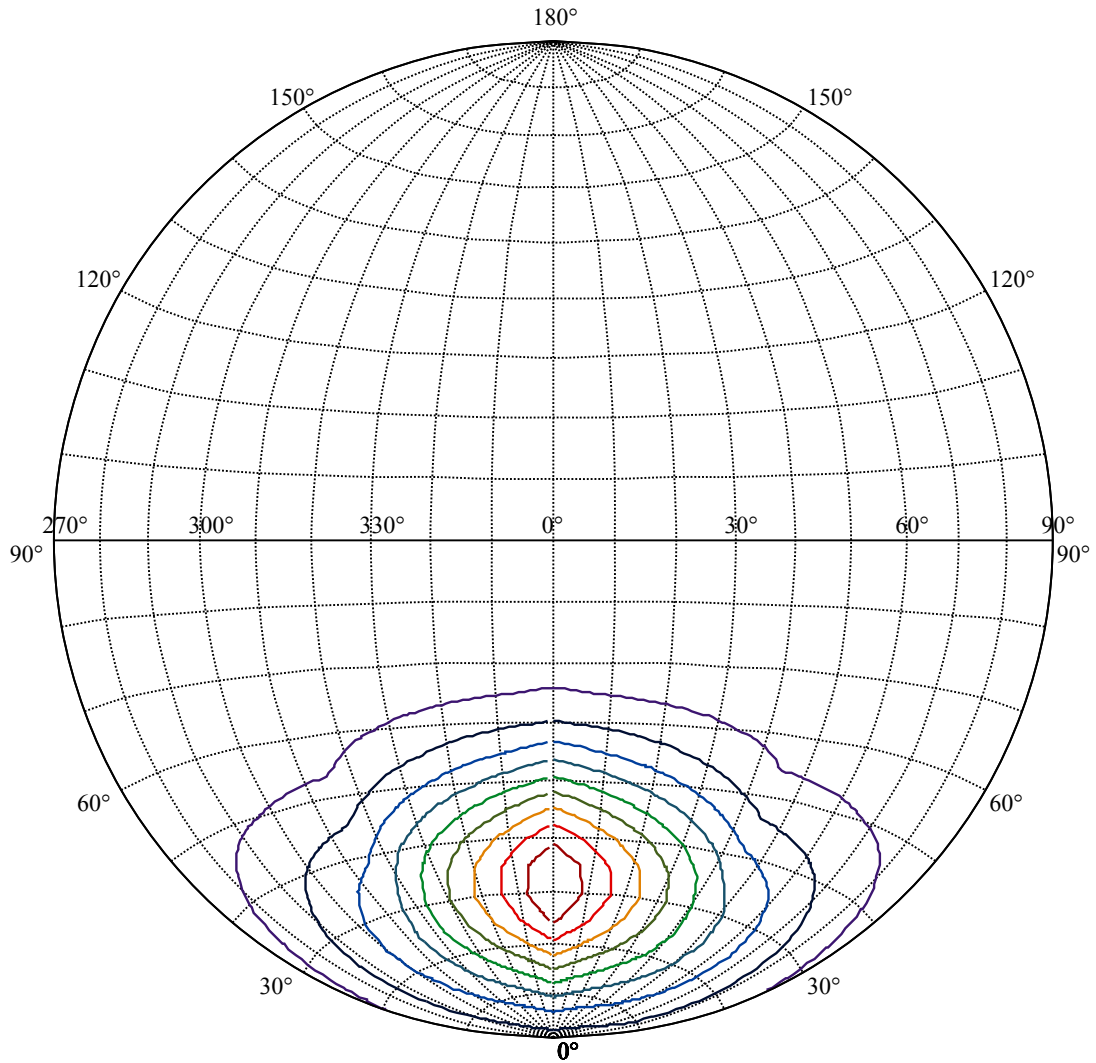
Beam Angle(50%Imax):C0/180Left:12.1 Right:50.8
:C90/270Left:27.0 Right:32.4



Max , Ave Beam angle of C0 plane 106.63



(10%Imax) 219.448	—
(20%Imax) 438.896	—
(30%Imax) 658.345	—
(40%Imax) 877.793	—
(50%Imax) 1097.24	—
(60%Imax) 1316.69	—
(70%Imax) 1536.14	—
(80%Imax) 1755.59	—
(90%Imax) 1975.03	—



House

[Unit:cd]

Road

Imax:2194.48

(10%Imax) 219.448	—
(20%Imax) 438.896	—
(30%Imax) 658.345	—
(40%Imax) 877.793	—
(50%Imax) 1097.24	—
(60%Imax) 1316.69	—
(70%Imax) 1536.14	—
(80%Imax) 1755.59	—
(90%Imax) 1975.03	—

LD3R-5CCT-4RSL-5000K

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	351.50	597.27	937.05	1322.45	1707.41	2024.17	2194.48	2164.21	1928.67
45.0	351.50	484.94	674.44	838.15	961.14	1014.43	983.95	876.94	701.08
90.0	351.50	355.34	343.61	309.08	262.61	221.26	189.93	164.35	144.74
135.0	351.50	270.71	214.23	181.19	160.94	148.79	141.97	134.93	123.21
180.0	351.50	242.58	190.78	163.92	151.98	146.87	140.47	128.54	110.63
225.0	351.50	252.17	204.21	173.73	154.75	144.52	137.28	128.54	115.32
270.0	351.50	320.81	286.49	251.10	216.78	187.15	163.07	144.31	128.75
315.0	351.50	479.40	629.04	773.13	868.41	900.18	860.31	759.92	624.99
360.0	351.50	597.27	937.05	1322.45	1707.41	2024.17	2194.48	2164.21	1928.67

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1573.33	1161.51	774.62	452.75	240.02	111.27	50.31	23.45	9.17
45.0	491.76	321.87	208.47	145.16	96.14	59.05	37.09	20.68	6.61
90.0	130.67	118.94	107.65	74.82	50.31	31.97	17.69	9.17	4.26
135.0	104.45	78.87	56.91	40.71	28.56	18.97	11.94	6.18	2.77
180.0	83.99	60.11	45.40	33.68	23.23	14.71	7.89	3.20	0.85
225.0	94.86	70.98	50.95	35.60	24.94	15.77	8.95	4.48	1.92
270.0	116.81	106.58	86.12	58.83	40.07	24.51	13.86	8.31	4.48
315.0	452.97	297.15	188.01	133.23	89.10	62.03	49.45	40.93	29.84
360.0	1573.33	1161.51	774.62	452.75	240.02	111.27	50.31	23.45	9.17

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.92	0.64	0.43	0.85	0.85	0.85	0.64	0.64	0.85
45.0	2.35	0.64	0.43	0.64	0.64	0.64	0.64	0.64	0.85
90.0	1.28	0.21	0.21	0.21	0.21	0.43	0.21	0.21	0.21
135.0	0.43	0.43	0.21	0.00	0.43	0.64	0.64	0.64	1.07
180.0	0.00	0.21	0.21	0.21	0.85	0.85	1.28	1.28	1.71
225.0	0.00	0.21	0.21	0.21	0.21	0.43	0.85	1.07	1.28
270.0	1.49	0.64	0.64	0.85	0.64	0.85	0.85	0.85	1.07
315.0	16.20	0.64	0.64	0.64	0.64	0.43	0.85	0.64	0.64
360.0	1.92	0.64	0.43	0.85	0.85	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	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.28	1.07
45.0	0.85	0.64	1.07	1.07	0.85	1.07	1.07	1.28	1.49
90.0	0.43	0.85	0.64	0.85	0.85	0.85	1.07	1.07	1.07
135.0	1.07	1.07	1.28	1.28	1.28	1.28	1.49	1.28	1.28
180.0	1.92	2.13	2.13	2.56	2.35	2.13	2.13	1.49	1.49
225.0	1.49	1.92	2.56	2.56	2.56	2.35	2.13	1.92	1.49
270.0	1.07	1.07	1.28	1.28	1.28	1.28	1.49	1.28	1.28
315.0	0.85	0.85	0.85	0.64	0.85	0.85	0.85	1.28	1.07
360.0	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.28	1.07

C/γ(°)	180.0
0.0	1.40
45.0	1.40
90.0	1.40
135.0	1.40
180.0	1.40
225.0	1.40
270.0	1.40
315.0	1.40
360.0	1.40