



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
www.bellingeel.com

Tel:0755-21038430

Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

Client:

LumCAT: LD3R-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.1190

Lamp flux(lm): -1.0

Power (W): 14.13

Number of Lamps: 1

PF: 0.9841

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1408.25, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 99.69

Central intensity(cd): 2385.511, Maximum intensity(cd): 2385.511

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.7

[C90/270]Total=39.3

Field angle(10%Imax): [C0/180]Total=72.7

[C90/270]Total=71.5

Maximum s/h(1/2): C0_180=0.71 C90_270=0.67

Maximum s/h(1/4): C0_180=0.73 C90_270=0.69

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 π solid angle : 95.893%

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

Date:
Humidity(%): 59%

Operator: Tester

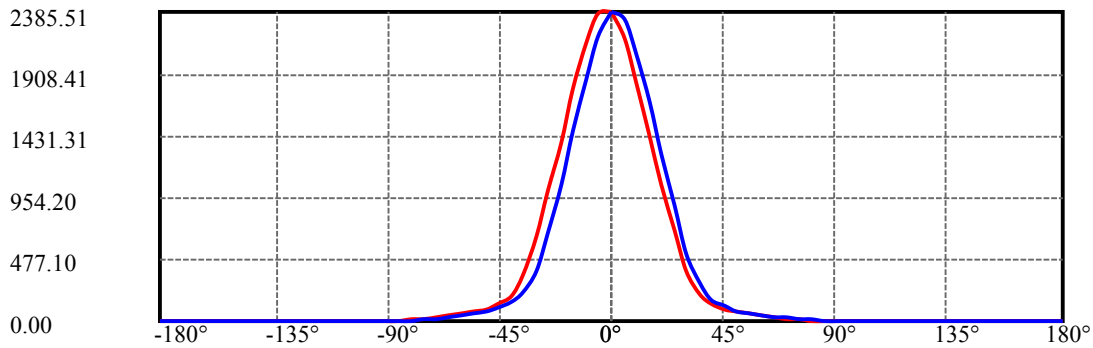
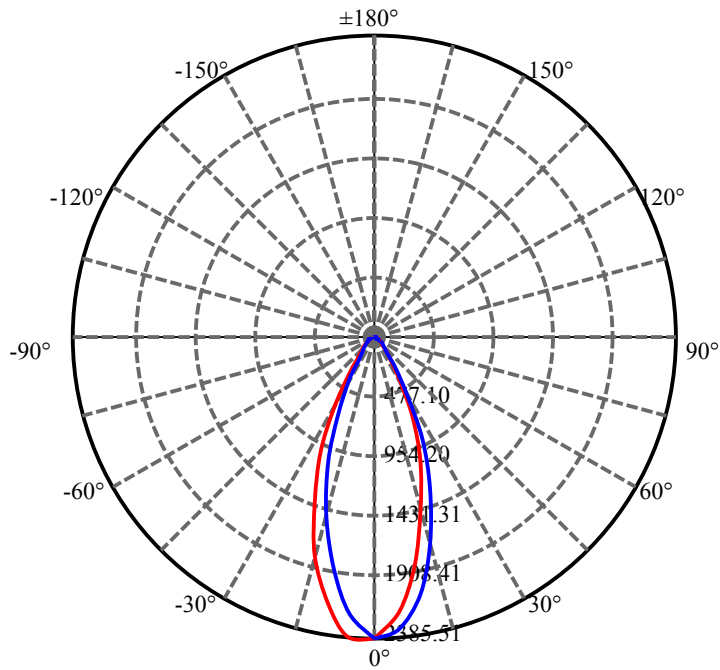
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2385.511	0.000	0	0.00%	0.00%
5.0	2268.498	55.637	55.637	0.00%	3.95%
10.0	1978.810	151.940	207.577	0.00%	14.74%
15.0	1592.744	211.862	419.439	0.00%	29.78%
20.0	1192.600	229.551	648.99	0.00%	46.08%
25.0	818.601	210.938	859.928	0.00%	61.06%
30.0	487.948	165.345	1025.273	0.00%	72.80%
35.0	266.295	111.068	1136.341	0.00%	80.69%
40.0	159.068	70.969	1207.309	0.00%	85.73%
45.0	108.948	49.625	1256.934	0.00%	89.25%
50.0	78.753	37.928	1294.862	0.00%	91.95%
55.0	60.944	30.375	1325.237	0.00%	94.11%
60.0	48.004	25.183	1350.42	0.00%	95.89%
65.0	34.613	20.084	1370.504	0.00%	97.32%
70.0	21.805	14.286	1384.79	0.00%	98.33%
75.0	13.126	9.130	1393.92	0.00%	98.98%
80.0	7.436	5.502	1399.422	0.00%	99.37%
85.0	3.176	2.883	1402.305	0.00%	99.58%
90.0	0.715	1.065	1403.371	0.00%	99.65%
95.0	0.344	0.290	1403.66	0.00%	99.67%
100.0	0.291	0.173	1403.833	0.00%	99.69%
105.0	0.397	0.184	1404.017	0.00%	99.70%
110.0	0.450	0.221	1404.238	0.00%	99.71%
115.0	0.476	0.235	1404.473	0.00%	99.73%
120.0	0.556	0.251	1404.724	0.00%	99.75%
125.0	0.609	0.269	1404.993	0.00%	99.77%
130.0	0.741	0.293	1405.286	0.00%	99.79%
135.0	0.768	0.305	1405.591	0.00%	99.81%
140.0	0.979	0.323	1405.915	0.00%	99.83%
145.0	1.059	0.340	1406.255	0.00%	99.86%
150.0	1.350	0.355	1406.609	0.00%	99.88%
155.0	1.694	0.385	1406.994	0.00%	99.91%
160.0	2.117	0.400	1407.394	0.00%	99.94%
165.0	2.223	0.358	1407.752	0.00%	99.96%
170.0	2.329	0.270	1408.022	0.00%	99.98%
175.0	2.461	0.171	1408.193	0.00%	100.00%
180.0	2.517	0.060	1408.253	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1025.27	N.A.	72.80%
0-40	1207.31	N.A.	85.73%
0-60	1350.42	N.A.	95.89%
0-90	1403.37	N.A.	99.65%
0-120	1404.72	N.A.	99.75%
0-180	1408.25	N.A.	100.00%
60-90	52.95	N.A.	3.76%
90-120	1.35	N.A.	0.10%
90-130	1.92	N.A.	0.14%
90-150	3.24	N.A.	0.23%
90-180	4.82	N.A.	0.34%
0-34.56	1126.60	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	207.58
10-20	441.41
20-30	376.28
30-40	182.04
40-50	87.55
50-60	55.56
60-70	34.37
70-80	14.63
80-90	3.95
90-100	0.46
100-110	0.41
110-120	0.49
120-130	0.56
130-140	0.63
140-150	0.69
150-160	0.78
160-170	0.63
170-180	0.17



C0/C180: —

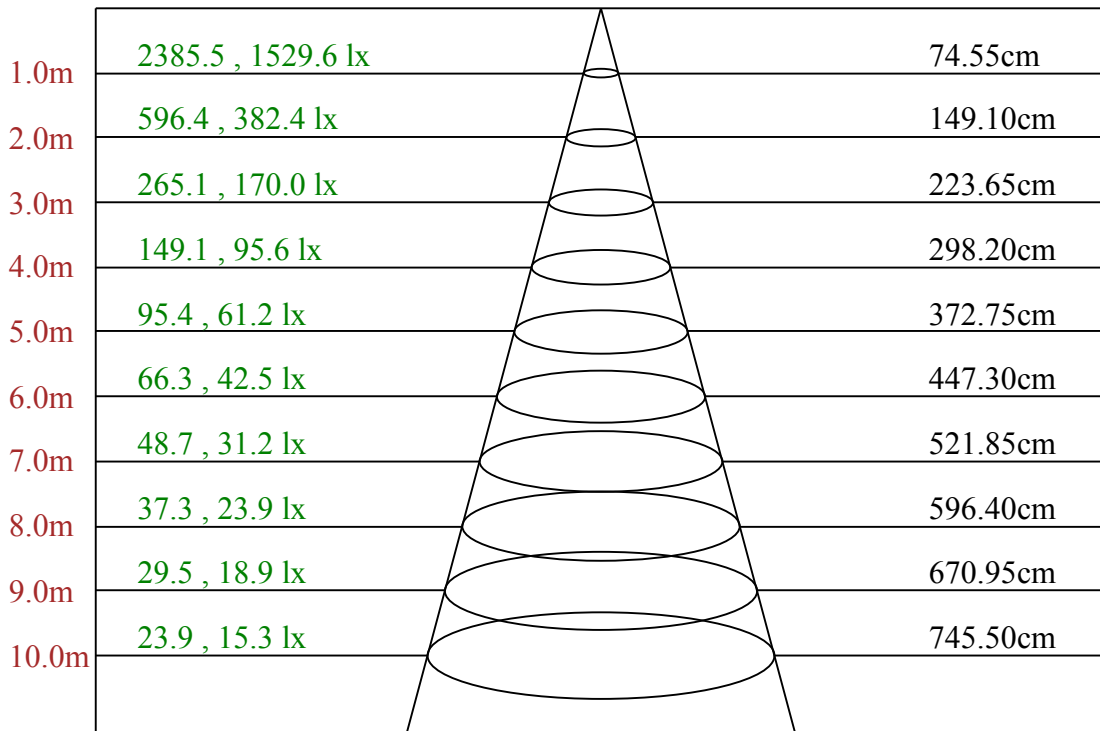
C90/C270: —

Field angle(10%Imax):C0/180Left:38.6 Right:34.1

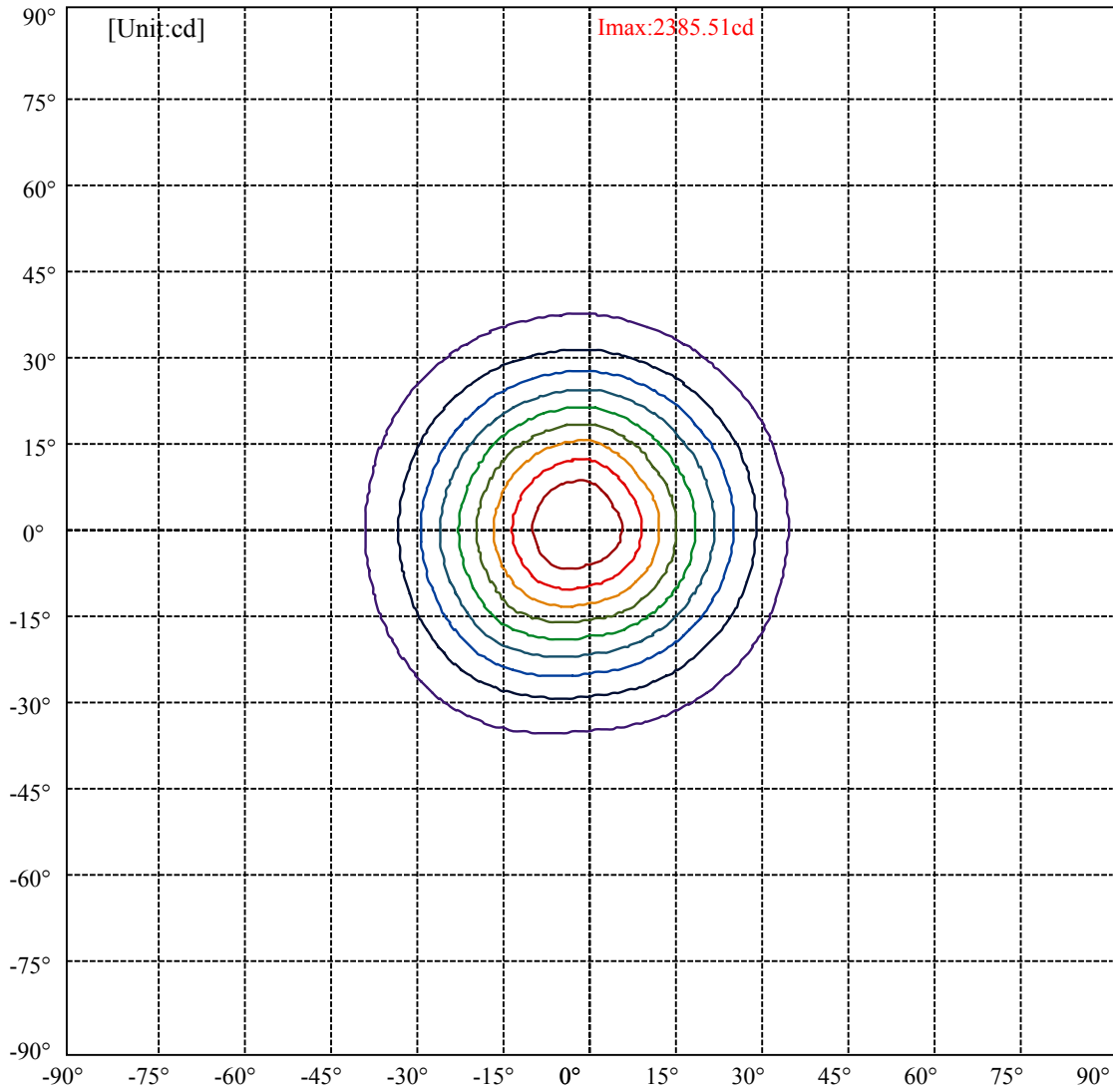
:C90/270Left:34.4 Right:37.1

Beam Angle(50%Imax):C0/180Left:22.6 Right:18.1

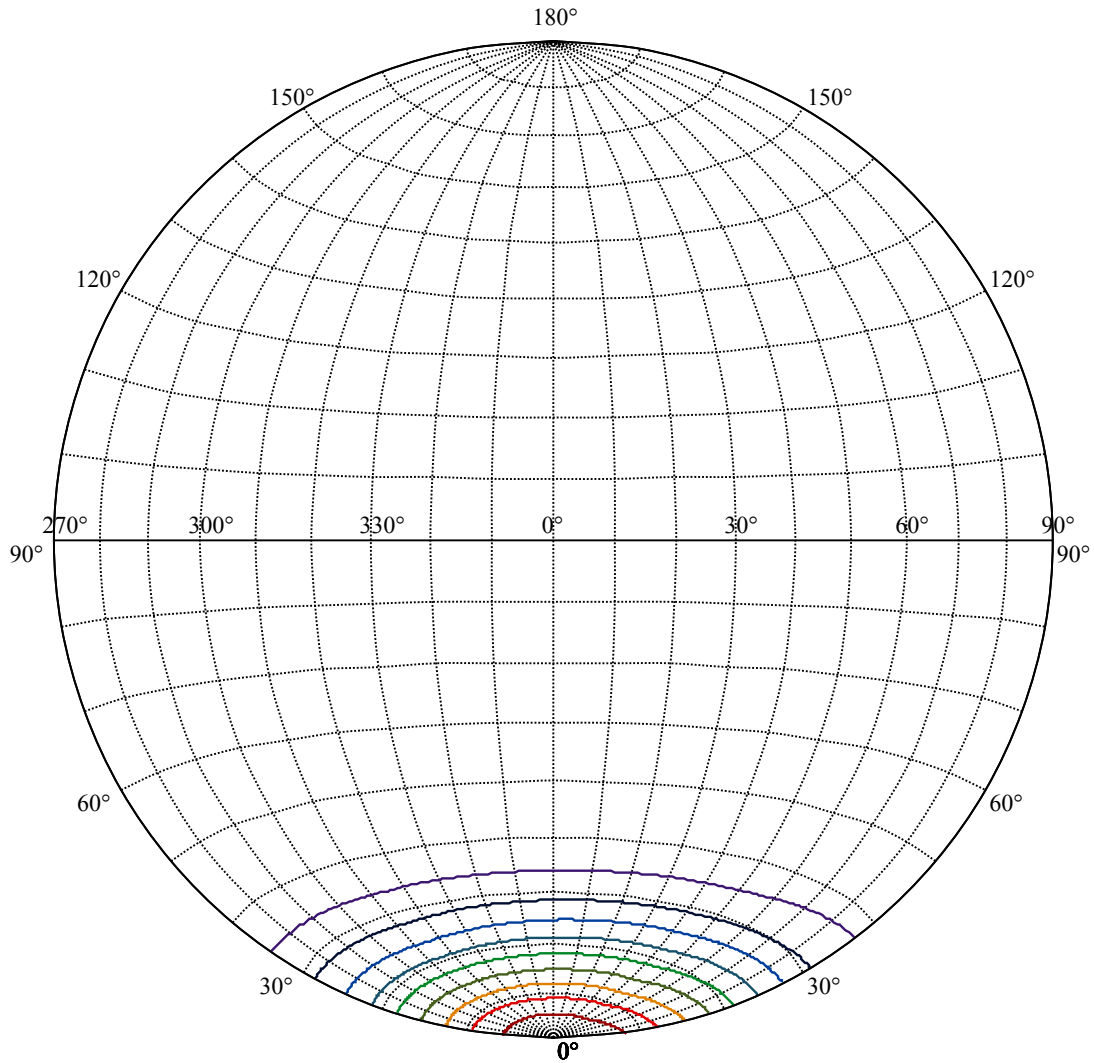
:C90/270Left:18.2 Right:21.1



Max , Ave Beam angle of C0 plane 40.89



(10%Imax) 238.551	—
(20%Imax) 477.102	—
(30%Imax) 715.653	—
(40%Imax) 954.204	—
(50%Imax) 1192.76	—
(60%Imax) 1431.31	—
(70%Imax) 1669.86	—
(80%Imax) 1908.41	—
(90%Imax) 2146.96	—



House

[Unit:cd]

Road

Imax:2385.51

(10%Imax) 238.551	—
(20%Imax) 477.102	—
(30%Imax) 715.653	—
(40%Imax) 954.204	—
(50%Imax) 1192.76	—
(60%Imax) 1431.31	—
(70%Imax) 1669.86	—
(80%Imax) 1908.41	—
(90%Imax) 2146.96	—

LD3R-5CCT-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	2385.51	2181.17	1830.80	1425.39	1053.22	701.58	388.26	204.93	133.16
45.0	2385.51	2192.81	1868.28	1461.17	1086.46	743.29	420.44	221.65	138.03
90.0	2385.51	2320.47	2061.77	1696.37	1283.98	887.03	524.81	290.46	169.15
135.0	2385.51	2363.87	2130.36	1756.50	1336.27	933.61	579.64	315.23	180.58
180.0	2385.51	2372.34	2141.58	1797.99	1384.96	1013.00	652.26	353.54	194.98
225.0	2385.51	2340.80	2091.20	1724.32	1342.19	953.51	592.34	326.23	182.70
270.0	2385.51	2197.05	1870.39	1461.59	1046.87	683.38	388.47	217.63	142.05
315.0	2385.51	2179.48	1836.10	1418.62	1006.86	633.41	357.35	200.69	131.89
360.0	2385.51	2181.17	1830.80	1425.39	1053.22	701.58	388.26	204.93	133.16

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	92.09	69.44	55.47	42.98	28.58	16.94	10.37	5.72	1.69
45.0	95.69	71.13	56.31	43.40	29.43	17.57	11.01	5.72	1.91
90.0	114.95	79.81	61.82	49.12	35.35	22.65	13.55	7.41	2.96
135.0	121.94	86.38	65.20	51.87	39.17	25.40	15.03	8.89	4.45
180.0	128.29	91.24	68.38	54.41	41.71	27.31	16.30	9.74	4.87
225.0	123.42	88.07	66.90	53.56	40.44	26.46	15.24	9.10	4.45
270.0	102.46	74.10	58.01	45.52	32.81	20.32	12.49	6.99	2.96
315.0	92.73	69.86	55.47	43.19	29.43	17.78	11.01	5.93	2.12
360.0	92.09	69.44	55.47	42.98	28.58	16.94	10.37	5.72	1.69

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.42	0.42	0.42	0.64	0.64	0.85	0.85	0.85
45.0	0.42	0.42	0.64	0.64	0.85	0.64	0.85	0.64	0.85
90.0	0.21	0.00	0.00	0.00	0.21	0.21	0.42	0.42	0.42
135.0	0.85	0.21	0.00	0.42	0.21	0.42	0.00	0.42	0.64
180.0	1.27	0.21	0.00	0.21	0.21	0.21	0.21	0.21	0.64
225.0	1.06	0.00	0.00	0.21	0.00	0.21	0.42	0.42	0.64
270.0	0.85	0.64	0.85	0.64	0.64	0.64	0.85	1.06	1.06
315.0	0.42	0.85	0.42	0.64	0.85	0.85	0.85	0.85	0.85
360.0	0.64	0.42	0.42	0.42	0.64	0.64	0.85	0.85	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	1.27	1.27	1.69	1.69	2.33	2.54	2.33	2.54
45.0	0.85	1.06	1.06	1.69	1.91	2.12	2.33	2.54	2.54
90.0	0.64	0.85	0.85	1.06	1.48	2.12	2.12	2.12	2.75
135.0	0.42	0.85	0.85	1.06	1.69	1.91	1.91	2.12	2.33
180.0	0.64	0.64	0.85	1.06	1.27	1.69	2.12	2.33	2.12
225.0	0.42	0.85	0.85	1.27	1.48	1.91	2.12	2.33	2.12
270.0	1.06	1.27	1.48	1.48	2.12	2.54	2.33	2.33	2.75
315.0	1.06	1.06	1.27	1.48	1.91	2.33	2.33	2.54	2.54
360.0	1.06	1.27	1.27	1.69	1.69	2.33	2.54	2.33	2.54

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