



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

LumCAT:LD8R-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.1540

Lamp flux(lm): -1.0

Power (W): 18.20

Number of Lamps: 1

PF: 0.9874

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1540.02, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 84.62

Central intensity(cd): 2461.677, Maximum intensity(cd): 2503.805

Angle of maximum intensity: C=45.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=45.1

[C90/270]Total=45.1

Field angle(10%Imax): [C0/180]Total=73.3

[C90/270]Total=73.7

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

Maximum s/h(1/4): C0_180=0.77 C90_270=0.77

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.11%

Down flux rate of LUM(%): 99.89%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.392%

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

Date:
Humidity(%): 59%

Operator: Tester

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2483.906	0.000	0	0.00%	0.00%
5.0	2361.250	57.922	57.922	0.00%	3.76%
10.0	2062.829	158.263	216.186	0.00%	14.04%
15.0	1723.523	224.604	440.79	0.00%	28.62%
20.0	1395.834	257.079	697.868	0.00%	45.32%
25.0	1074.866	259.131	956.999	0.00%	62.14%
30.0	715.052	226.516	1183.515	0.00%	76.85%
35.0	352.061	157.140	1340.655	0.00%	87.05%
40.0	130.012	80.430	1421.085	0.00%	92.28%
45.0	73.487	37.680	1458.764	0.00%	94.72%
50.0	52.396	25.437	1484.201	0.00%	96.38%
55.0	32.708	18.505	1502.706	0.00%	97.58%
60.0	21.567	12.546	1515.251	0.00%	98.39%
65.0	14.766	8.833	1524.084	0.00%	98.97%
70.0	9.818	6.225	1530.309	0.00%	99.37%
75.0	6.060	4.150	1534.459	0.00%	99.64%
80.0	3.149	2.464	1536.923	0.00%	99.80%
85.0	1.059	1.143	1538.067	0.00%	99.87%
90.0	0.027	0.297	1538.364	0.00%	99.89%
95.0	0.027	0.015	1538.378	0.00%	99.89%
100.0	0.027	0.014	1538.393	0.00%	99.89%
105.0	0.027	0.014	1538.407	0.00%	99.90%
110.0	0.027	0.014	1538.421	0.00%	99.90%
115.0	0.053	0.020	1538.441	0.00%	99.90%
120.0	0.053	0.026	1538.466	0.00%	99.90%
125.0	0.027	0.018	1538.485	0.00%	99.90%
130.0	0.053	0.017	1538.502	0.00%	99.90%
135.0	0.159	0.043	1538.545	0.00%	99.90%
140.0	0.265	0.078	1538.623	0.00%	99.91%
145.0	0.529	0.132	1538.756	0.00%	99.92%
150.0	0.768	0.191	1538.947	0.00%	99.93%
155.0	1.112	0.238	1539.184	0.00%	99.95%
160.0	1.323	0.255	1539.44	0.00%	99.96%
165.0	1.508	0.233	1539.673	0.00%	99.98%
170.0	1.614	0.185	1539.858	0.00%	99.99%
175.0	1.720	0.119	1539.978	0.00%	100.00%
180.0	1.958	0.044	1540.022	0.00%	100.00%

Equipment: GMS-3000
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 59%

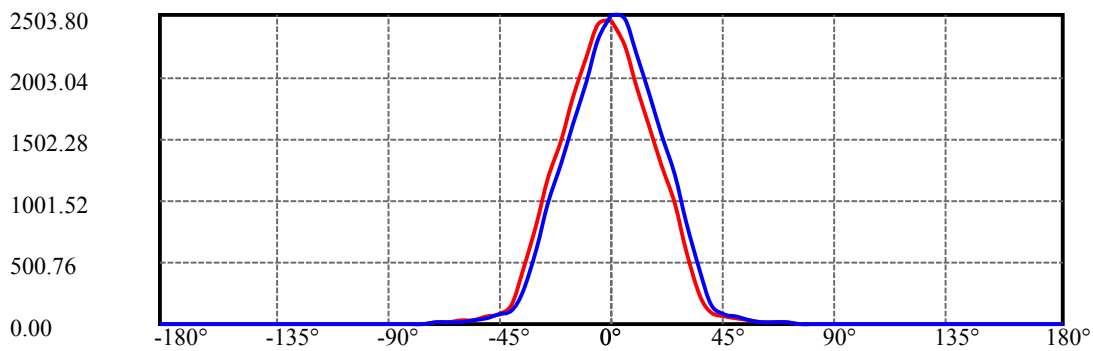
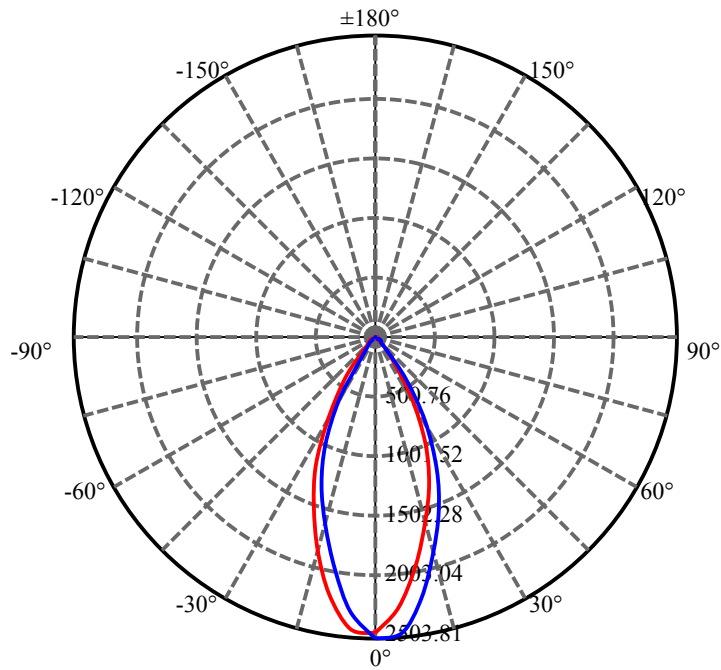
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1183.51	N.A.	76.85%
0-40	1421.08	N.A.	92.28%
0-60	1515.25	N.A.	98.39%
0-90	1538.36	N.A.	99.89%
0-120	1538.47	N.A.	99.90%
0-180	1540.02	N.A.	100.00%
60-90	23.11	N.A.	1.50%
90-120	0.10	N.A.	0.01%
90-130	0.14	N.A.	0.01%
90-150	0.58	N.A.	0.04%
90-180	1.61	N.A.	0.10%
0-31.54	1232.02	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	216.19
10-20	481.68
20-30	485.65
30-40	237.57
40-50	63.12
50-60	31.05
60-70	15.06
70-80	6.61
80-90	1.44
90-100	0.03
100-110	0.03
110-120	0.05
120-130	0.04
130-140	0.12
140-150	0.32
150-160	0.49
160-170	0.42
170-180	0.12

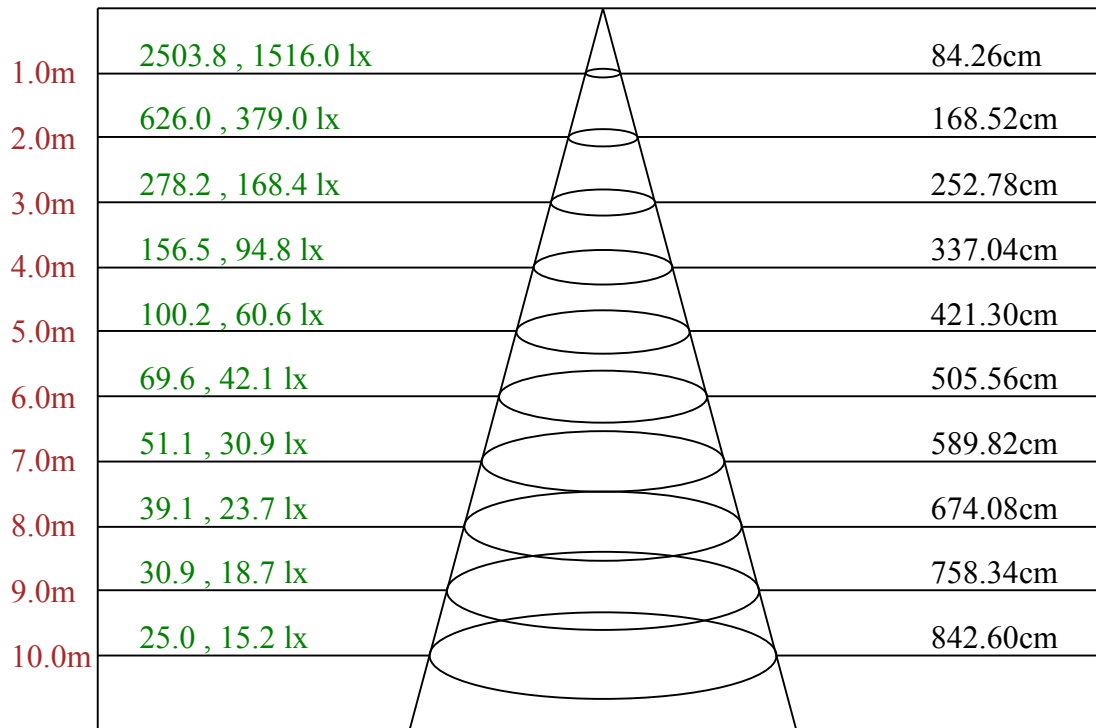


C0/C180: —

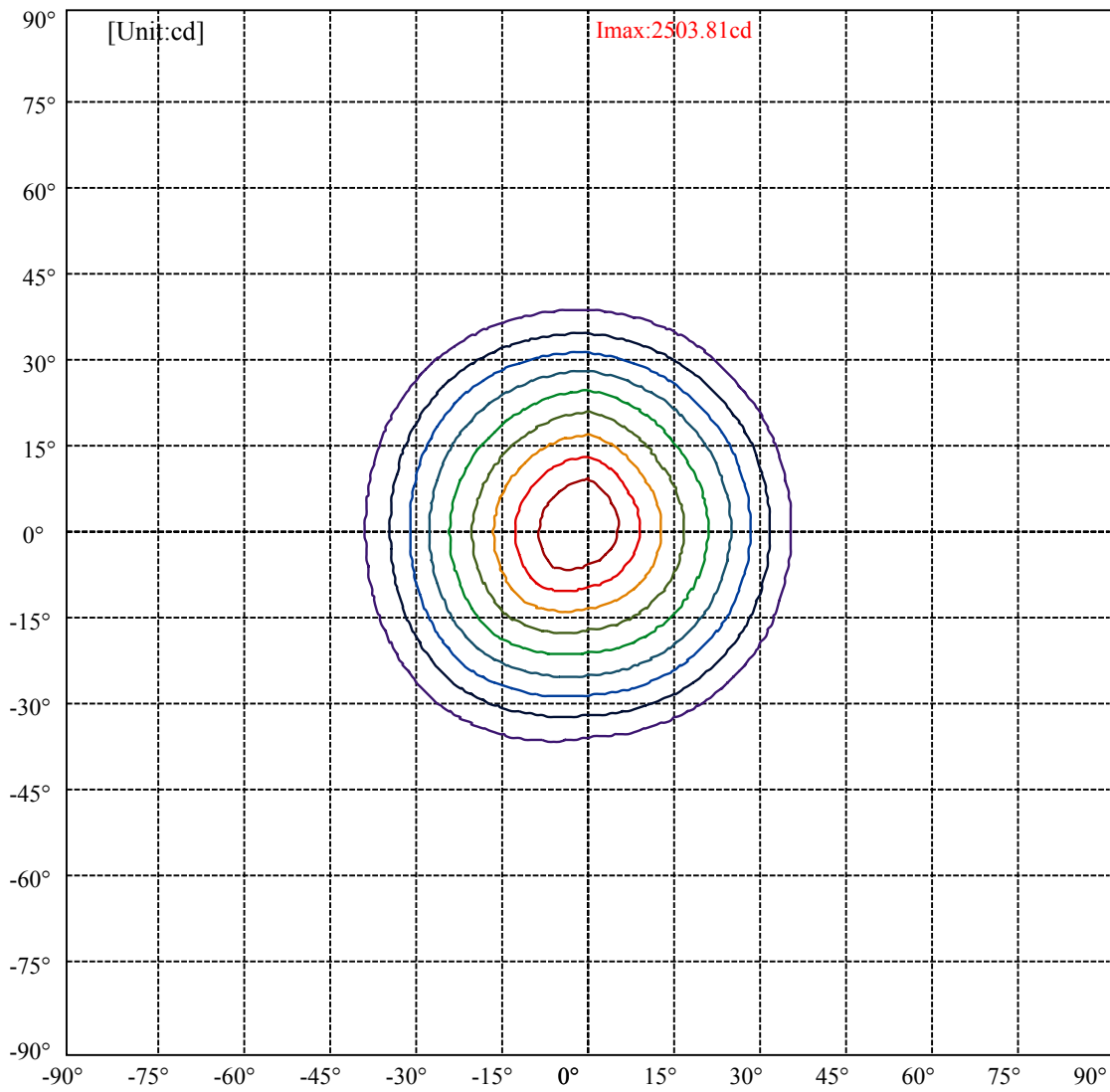
C90/C270: —

Field angle(10%Imax):C0/180Left:38.4 Right:34.9
:C90/270Left:35.4 Right:38.3

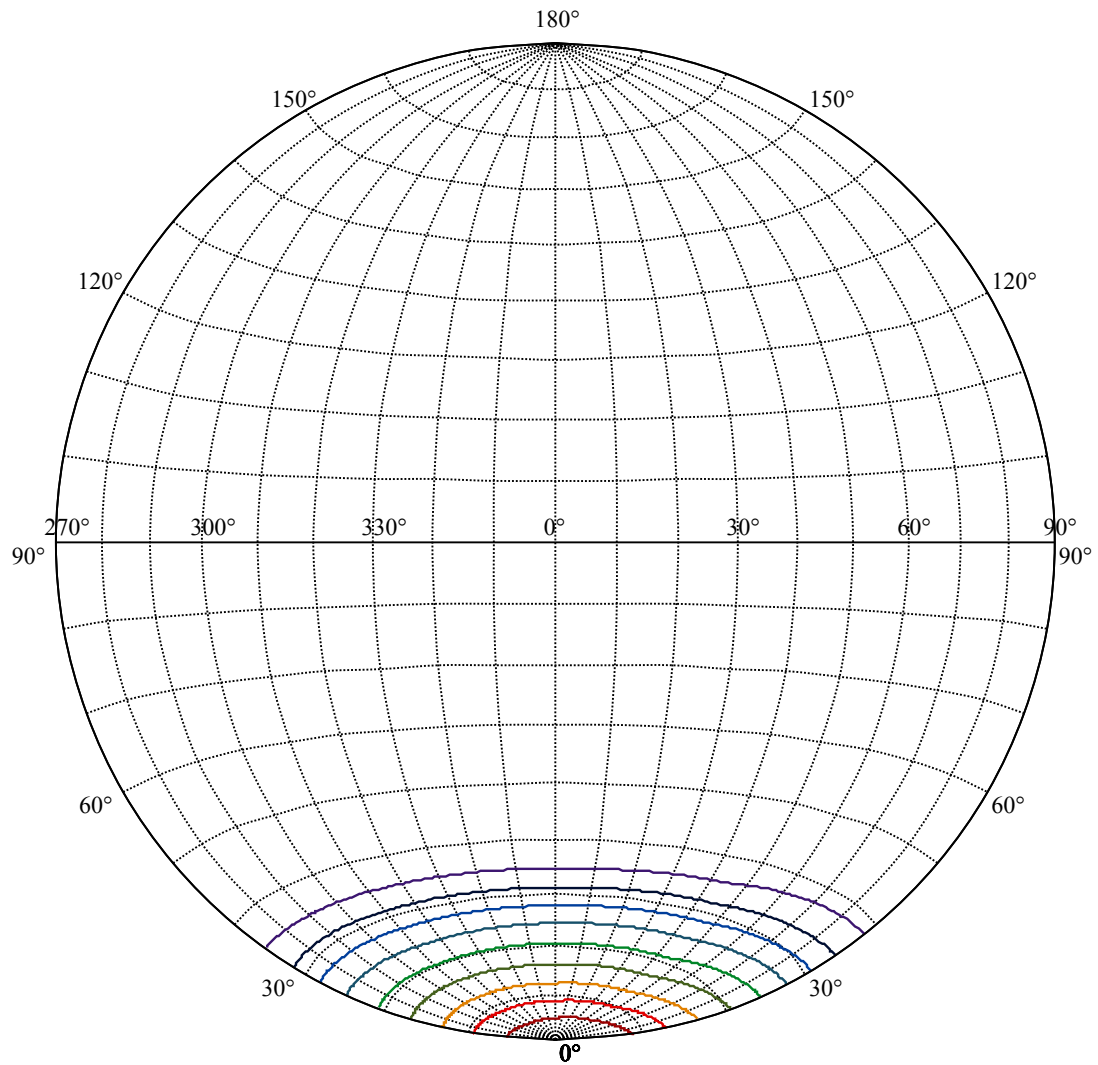
Beam Angle(50%Imax):C0/180Left:24.2 Right:20.9
:C90/270Left:20.8 Right:24.3



Max , Ave Beam angle of C45 plane 45.69



(10%I _{max}) 249.936	—
(20%I _{max}) 499.872	—
(30%I _{max}) 749.808	—
(40%I _{max}) 999.744	—
(50%I _{max}) 1249.68	—
(60%I _{max}) 1499.62	—
(70%I _{max}) 1749.55	—
(80%I _{max}) 1999.49	—
(90%I _{max}) 2249.42	—



House

[Unit:cd]

Road

Imax:2503.81

(10%Imax) 250.38	—
(20%Imax) 500.761	—
(30%Imax) 751.141	—
(40%Imax) 1001.52	—
(50%Imax) 1251.9	—
(60%Imax) 1502.28	—
(70%Imax) 1752.66	—
(80%Imax) 2003.04	—
(90%Imax) 2253.42	—

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	2461.68	2252.94	1921.62	1582.48	1290.33	973.83	596.37	238.59	92.30
45.0	2503.81	2325.55	1981.54	1629.47	1307.48	1004.53	632.14	272.04	96.33
90.0	2499.36	2471.20	2200.01	1857.48	1540.98	1205.86	816.96	432.51	152.85
135.0	2470.78	2438.18	2163.60	1822.97	1463.71	1142.56	855.91	484.16	172.54
180.0	2461.68	2425.69	2168.68	1836.94	1499.49	1176.85	804.68	431.45	161.53
225.0	2503.81	2438.60	2181.81	1846.68	1494.62	1169.66	821.83	457.07	164.92
270.0	2499.36	2294.43	1966.29	1621.01	1301.97	985.05	613.51	263.15	104.16
315.0	2470.78	2243.41	1919.08	1591.16	1268.10	940.59	579.01	237.53	95.48
360.0	2461.68	2252.94	1921.62	1582.48	1290.33	973.83	596.37	238.59	92.30

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	63.09	45.30	26.89	19.05	12.70	8.47	5.08	2.33	0.42
45.0	65.42	47.85	27.73	19.48	13.13	8.68	5.29	2.75	0.64
90.0	77.70	55.25	36.20	23.29	15.88	10.80	6.56	3.39	1.48
135.0	81.29	57.16	38.32	23.92	16.51	10.80	6.99	3.81	1.48
180.0	81.51	57.16	38.74	24.13	16.51	10.80	6.77	3.81	1.48
225.0	82.35	58.01	37.47	23.50	16.30	10.80	6.56	3.39	1.06
270.0	72.19	51.44	28.79	20.11	14.18	9.53	5.93	3.18	1.27
315.0	64.36	47.00	27.52	19.05	12.91	8.68	5.29	2.54	0.64
360.0	63.09	45.30	26.89	19.05	12.70	8.47	5.08	2.33	0.42

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.21	0.21	0.21	0.21	0.21	0.42	0.42	0.21	0.42
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.21	0.64	0.85	1.06	1.27	1.69	1.69	1.69
45.0	0.21	0.42	0.64	0.85	1.27	1.27	1.48	1.69	1.91
90.0	0.00	0.00	0.42	0.85	1.06	1.06	1.27	1.48	1.91
135.0	0.00	0.00	0.21	0.42	0.85	1.27	1.48	1.48	1.48
180.0	0.00	0.21	0.21	0.21	0.64	1.06	1.27	1.48	1.48
225.0	0.00	0.21	0.21	0.64	0.85	1.27	1.27	1.48	1.48
270.0	0.64	0.85	1.27	1.48	1.69	1.91	1.91	2.12	2.12
315.0	0.42	0.21	0.64	0.85	1.48	1.48	1.69	1.48	1.69
360.0	0.00	0.21	0.64	0.85	1.06	1.27	1.69	1.69	1.69

C/γ(°)	180.0
0.0	1.91
45.0	1.91
90.0	2.12
135.0	1.91
180.0	1.91
225.0	1.91
270.0	2.12
315.0	1.91
360.0	1.91