



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

LumCAT:LD4R-HO-5CCT-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.1560

Lamp flux(lm): -1.0

Power (W): 18.50

Number of Lamps: 0

PF: 0.9884

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1393.65, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 75.33

Central intensity(cd): 3719.190, Maximum intensity(cd): 3789.051

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.8

[C90/270]Total=35.9

Field angle(10%Imax): [C0/180]Total=54.1

[C90/270]Total=53.6

Maximum s/h(1/2): C0_180=0.63 C90_270=0.65

Maximum s/h(1/4): C0_180=0.59 C90_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.12%

Down flux rate of LUM(%): 99.88%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.752%

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	3752.533	0.000	0	0.00%	0.00%
5.0	3544.773	87.237	87.237	0.00%	6.26%
10.0	3111.074	238.101	325.338	0.00%	23.34%
15.0	2473.029	331.245	656.583	0.00%	47.11%
20.0	1468.369	324.827	981.41	0.00%	70.42%
25.0	581.441	214.987	1196.397	0.00%	85.85%
30.0	154.358	93.116	1289.513	0.00%	92.53%
35.0	65.072	32.313	1321.825	0.00%	94.85%
40.0	36.863	17.007	1338.832	0.00%	96.07%
45.0	28.051	12.019	1350.852	0.00%	96.93%
50.0	21.382	9.989	1360.84	0.00%	97.65%
55.0	17.174	8.383	1369.224	0.00%	98.25%
60.0	13.258	7.034	1376.258	0.00%	98.75%
65.0	9.818	5.610	1381.868	0.00%	99.15%
70.0	6.933	4.241	1386.109	0.00%	99.46%
75.0	4.552	3.002	1389.111	0.00%	99.67%
80.0	2.408	1.862	1390.973	0.00%	99.81%
85.0	0.715	0.848	1391.822	0.00%	99.87%
90.0	0.027	0.203	1392.025	0.00%	99.88%
95.0	0.000	0.007	1392.032	0.00%	99.88%
100.0	0.027	0.007	1392.039	0.00%	99.88%
105.0	0.027	0.014	1392.053	0.00%	99.89%
110.0	0.027	0.014	1392.067	0.00%	99.89%
115.0	0.027	0.013	1392.08	0.00%	99.89%
120.0	0.027	0.013	1392.093	0.00%	99.89%
125.0	0.053	0.018	1392.112	0.00%	99.89%
130.0	0.053	0.023	1392.135	0.00%	99.89%
135.0	0.079	0.027	1392.161	0.00%	99.89%
140.0	0.159	0.044	1392.206	0.00%	99.90%
145.0	0.344	0.084	1392.289	0.00%	99.90%
150.0	0.688	0.152	1392.441	0.00%	99.91%
155.0	1.138	0.231	1392.672	0.00%	99.93%
160.0	1.482	0.275	1392.947	0.00%	99.95%
165.0	1.800	0.270	1393.218	0.00%	99.97%
170.0	2.037	0.228	1393.445	0.00%	99.99%
175.0	2.170	0.151	1393.596	0.00%	100.00%
180.0	2.382	0.054	1393.65	0.00%	100.00%

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

Date:
Humidity(%): 59%

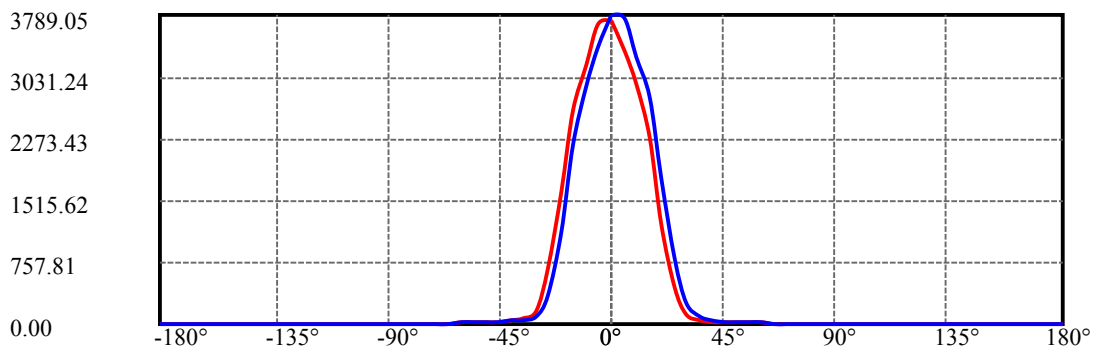
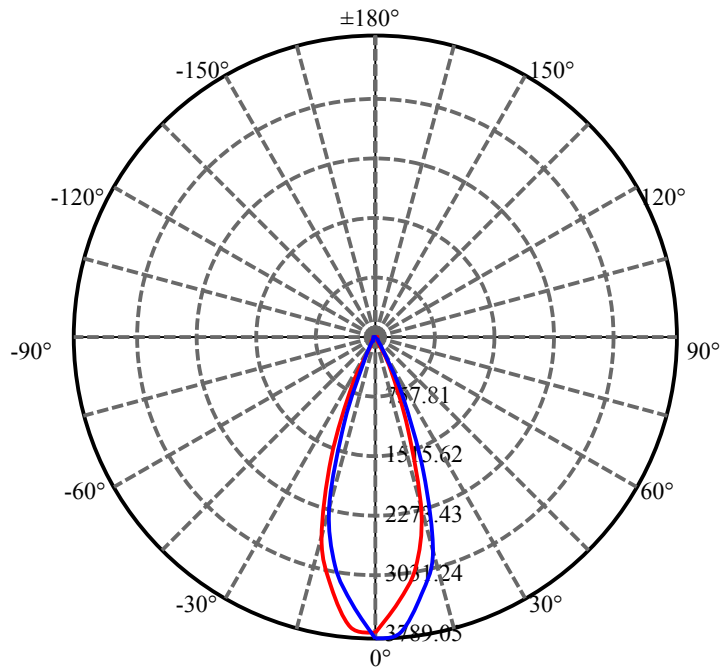
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1289.51	N.A.	92.53%
0-40	1338.83	N.A.	96.07%
0-60	1376.26	N.A.	98.75%
0-90	1392.02	N.A.	99.88%
0-120	1392.09	N.A.	99.89%
0-180	1393.65	N.A.	100.00%
60-90	15.77	N.A.	1.13%
90-120	0.07	N.A.	0.00%
90-130	0.11	N.A.	0.01%
90-150	0.42	N.A.	0.03%
90-180	1.57	N.A.	0.11%
0-23.11	1114.92	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	325.34
10-20	656.07
20-30	308.10
30-40	49.32
40-50	22.01
50-60	15.42
60-70	9.85
70-80	4.86
80-90	1.05
90-100	0.01
100-110	0.03
110-120	0.03
120-130	0.04
130-140	0.07
140-150	0.24
150-160	0.51
160-170	0.50
170-180	0.15

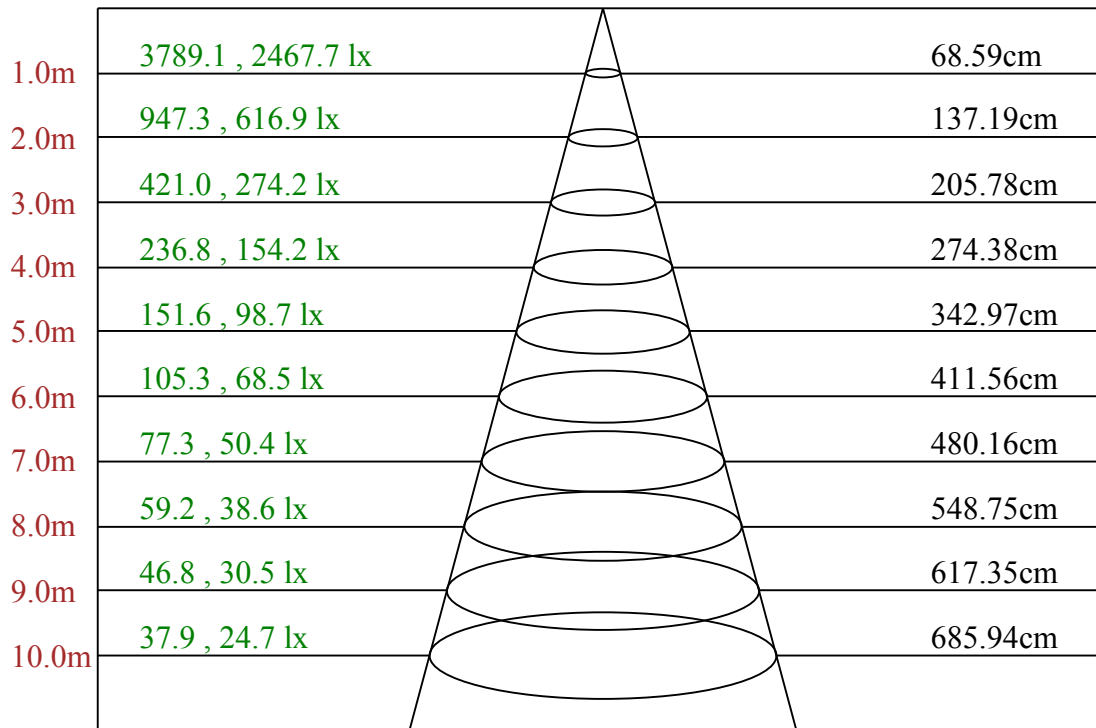


C0/C180: —

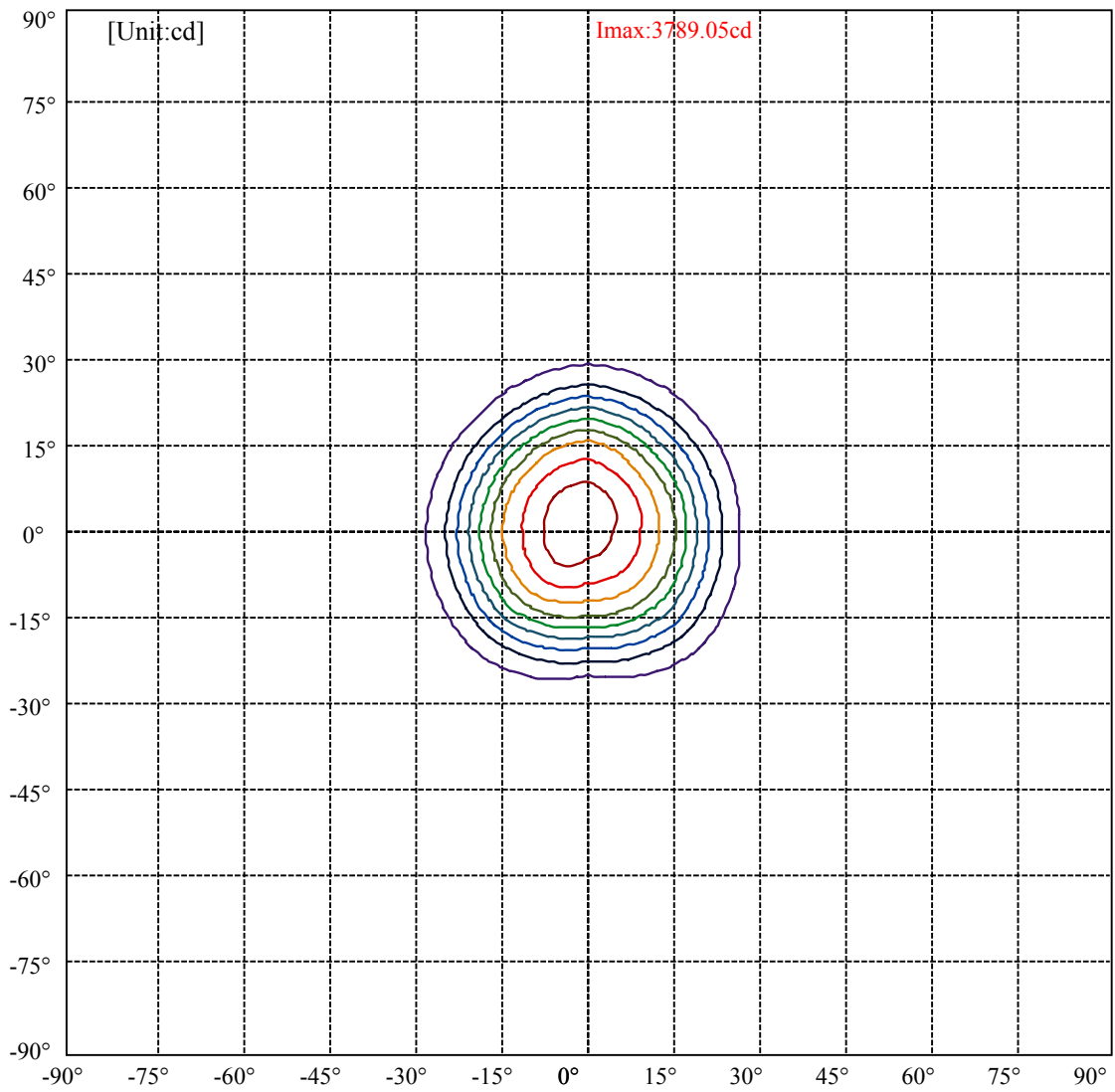
C90/C270: —

Field angle(10%I_{max}):C0/180Left:28.0 Right:26.1
 :C90/270Left:24.8 Right:28.8

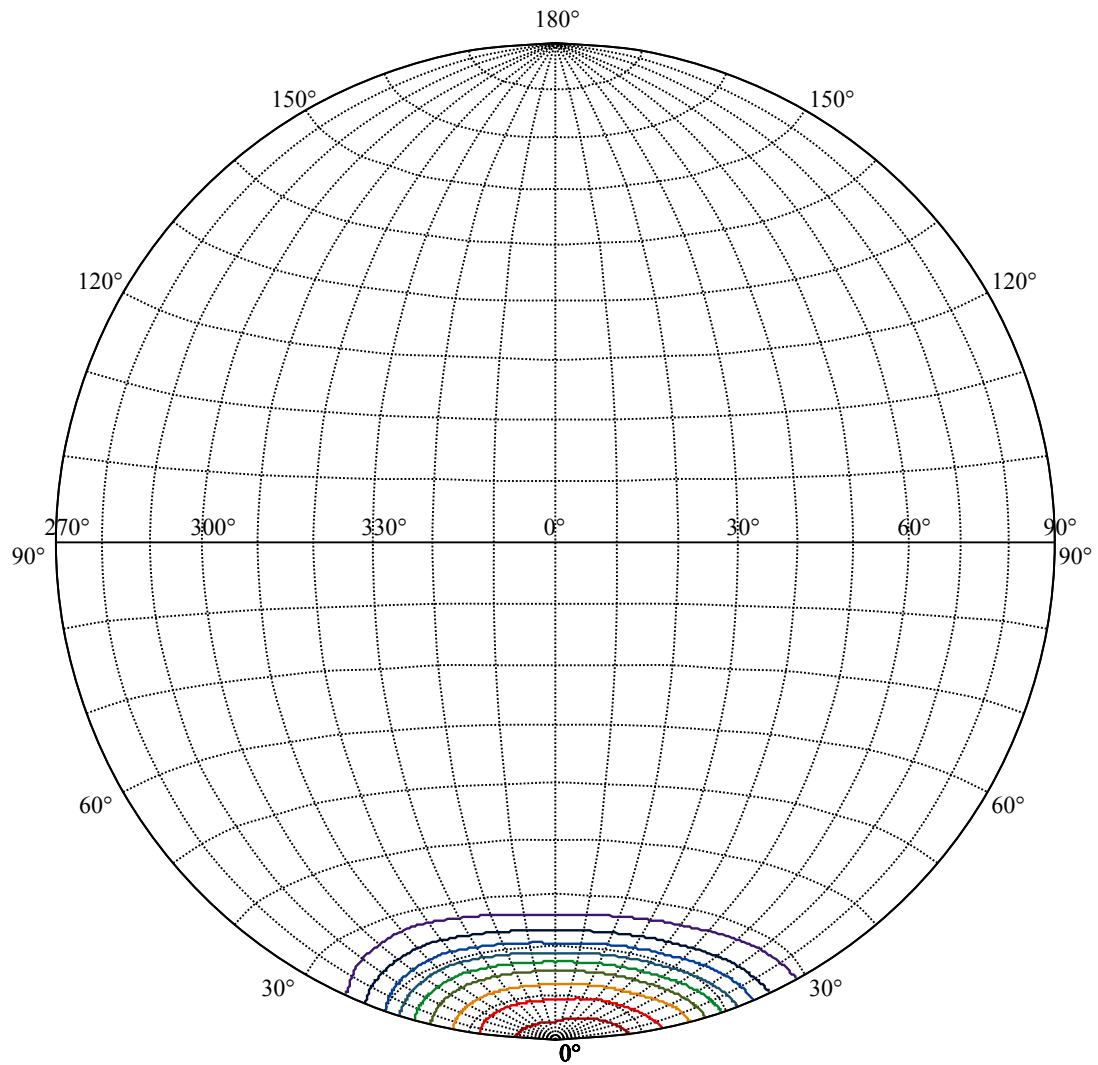
Beam Angle(50%I_{max}):C0/180Left:18.8 Right:17.0
 :C90/270Left:16.4 Right:19.5



Max , Ave Beam angle of C90 plane 37.86



(10%Imax) 378.905	—
(20%Imax) 757.81	—
(30%Imax) 1136.72	—
(40%Imax) 1515.62	—
(50%Imax) 1894.53	—
(60%Imax) 2273.43	—
(70%Imax) 2652.34	—
(80%Imax) 3031.24	—
(90%Imax) 3410.15	—



House

[Unit:cd]

Road

Imax:3789.05

(10%Imax) 378.905	—
(20%Imax) 757.81	—
(30%Imax) 1136.72	—
(40%Imax) 1515.62	—
(50%Imax) 1894.53	—
(60%Imax) 2273.43	—
(70%Imax) 2652.34	—
(80%Imax) 3031.24	—
(90%Imax) 3410.15	—

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	3719.19	3350.62	2942.88	2280.25	1234.44	446.48	116.23	51.66	34.93
45.0	3765.13	3539.03	3082.18	2386.95	1374.80	524.60	162.16	69.23	35.14
90.0	3789.05	3738.03	3280.97	2786.43	1786.13	804.68	248.96	82.56	41.92
135.0	3736.76	3679.81	3284.78	2615.37	1572.31	572.23	125.54	56.95	38.32
180.0	3719.19	3665.21	3180.41	2622.78	1625.24	675.75	162.38	68.17	36.20
225.0	3765.13	3648.48	3239.90	2580.65	1626.93	682.74	171.48	67.75	37.47
270.0	3789.05	3378.77	2918.32	2194.51	1127.95	350.16	92.51	51.23	35.57
315.0	3736.76	3358.24	2959.18	2317.30	1399.14	594.88	155.60	73.04	35.35
360.0	3719.19	3350.62	2942.88	2280.25	1234.44	446.48	116.23	51.66	34.93
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	27.31	20.96	16.72	12.70	9.32	6.35	4.02	1.91	0.42
45.0	27.31	20.32	16.30	12.49	8.89	6.35	4.02	2.12	0.42
90.0	30.70	22.86	18.21	13.97	10.59	7.83	5.08	2.96	1.06
135.0	28.79	21.59	17.15	13.76	10.37	7.20	4.87	2.75	0.85
180.0	26.68	20.96	17.36	13.34	9.95	6.99	4.45	2.12	0.64
225.0	27.73	21.59	17.36	13.55	9.95	6.99	4.87	2.54	0.64
270.0	27.95	21.81	17.15	13.34	9.95	7.20	4.87	2.75	1.06
315.0	27.95	20.96	17.15	12.91	9.53	6.56	4.23	2.12	0.64
360.0	27.31	20.96	16.72	12.70	9.32	6.35	4.02	1.91	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	0.00	0.21	0.21	0.21	0.21	0.21	0.42	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	0.42	0.64	1.27	1.48	1.69	1.91	1.91
45.0	0.00	0.21	0.42	0.64	1.27	1.48	1.91	1.91	2.33
90.0	0.00	0.00	0.21	0.42	1.06	1.48	1.69	1.91	2.12
135.0	0.00	0.00	0.00	0.85	0.85	1.06	1.69	1.91	2.12
180.0	0.00	0.00	0.21	0.42	1.06	1.48	1.69	1.91	1.91
225.0	0.00	0.00	0.21	0.42	0.85	1.06	1.48	2.12	1.91
270.0	0.42	0.85	1.06	1.27	1.69	2.12	2.54	2.75	2.96
315.0	0.21	0.00	0.21	0.85	1.06	1.69	1.69	1.91	2.12
360.0	0.00	0.21	0.42	0.64	1.27	1.48	1.69	1.91	1.91
C/ γ (°)	180.0								
0.0	2.12								
45.0	2.12								
90.0	2.96								
135.0	2.33								
180.0	2.12								
225.0	2.12								
270.0	2.96								
315.0	2.33								
360.0	2.12								