



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

LumCAT:LD4R-HO-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.07

LampCAT:

Current(A): 0.1530

Lamp flux(lm): -1.0

Power (W): 18.10

Number of Lamps: 0

PF: 0.9878

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1620.32, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 89.52

Central intensity(cd): 4368.058, Maximum intensity(cd): 4378.643

Angle of maximum intensity: C=135.0 γ =0.0

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

[C90/270]Total=35.9

Field angle(10%Imax): [C0/180]Total=54.0

[C90/270]Total=53.8

Maximum s/h(1/2): C0_180=0.60 C90_270=0.64

Maximum s/h(1/4): C0_180=0.56 C90_270=0.61

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 : 98.762%

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

Date:
Humidity(%): 59%

Operator: Tester

Zonal flux distribution table

Appendix Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4368.587	0.000	0	0.00%	0.00%
5.0	4115.338	101.423	101.423	0.00%	6.26%
10.0	3626.279	276.942	378.365	0.00%	23.35%
15.0	2868.463	385.264	763.629	0.00%	47.13%
20.0	1715.902	377.816	1141.445	0.00%	70.45%
25.0	678.295	251.107	1392.552	0.00%	85.94%
30.0	177.566	108.310	1500.861	0.00%	92.63%
35.0	73.884	37.028	1537.889	0.00%	94.91%
40.0	42.129	19.356	1557.245	0.00%	96.11%
45.0	32.258	13.773	1571.018	0.00%	96.96%
50.0	24.505	11.470	1582.488	0.00%	97.66%
55.0	19.821	9.638	1592.126	0.00%	98.26%
60.0	15.349	8.129	1600.255	0.00%	98.76%
65.0	11.459	6.517	1606.772	0.00%	99.16%
70.0	8.018	4.932	1611.704	0.00%	99.47%
75.0	5.213	3.458	1615.162	0.00%	99.68%
80.0	2.805	2.145	1617.308	0.00%	99.81%
85.0	0.847	0.992	1618.3	0.00%	99.88%
90.0	0.000	0.232	1618.532	0.00%	99.89%
95.0	0.000	0.000	1618.532	0.00%	99.89%
100.0	0.000	0.000	1618.532	0.00%	99.89%
105.0	0.000	0.000	1618.532	0.00%	99.89%
110.0	0.000	0.000	1618.532	0.00%	99.89%
115.0	0.000	0.000	1618.532	0.00%	99.89%
120.0	0.000	0.000	1618.532	0.00%	99.89%
125.0	0.000	0.000	1618.532	0.00%	99.89%
130.0	0.000	0.000	1618.532	0.00%	99.89%
135.0	0.080	0.016	1618.548	0.00%	99.89%
140.0	0.212	0.054	1618.602	0.00%	99.89%
145.0	0.476	0.115	1618.717	0.00%	99.90%
150.0	0.847	0.195	1618.911	0.00%	99.91%
155.0	1.350	0.278	1619.189	0.00%	99.93%
160.0	1.747	0.325	1619.514	0.00%	99.95%
165.0	2.091	0.316	1619.83	0.00%	99.97%
170.0	2.329	0.262	1620.092	0.00%	99.99%
175.0	2.408	0.169	1620.262	0.00%	100.00%
180.0	2.752	0.062	1620.324	0.00%	100.00%

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

Date:
Humidity(%): 59%

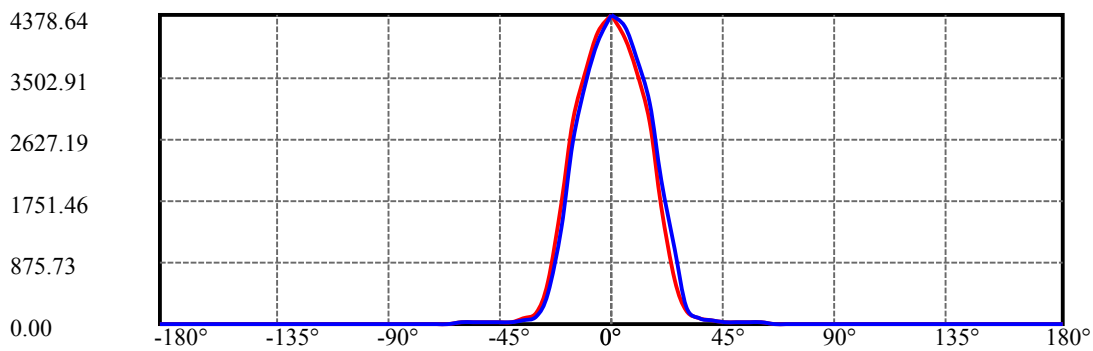
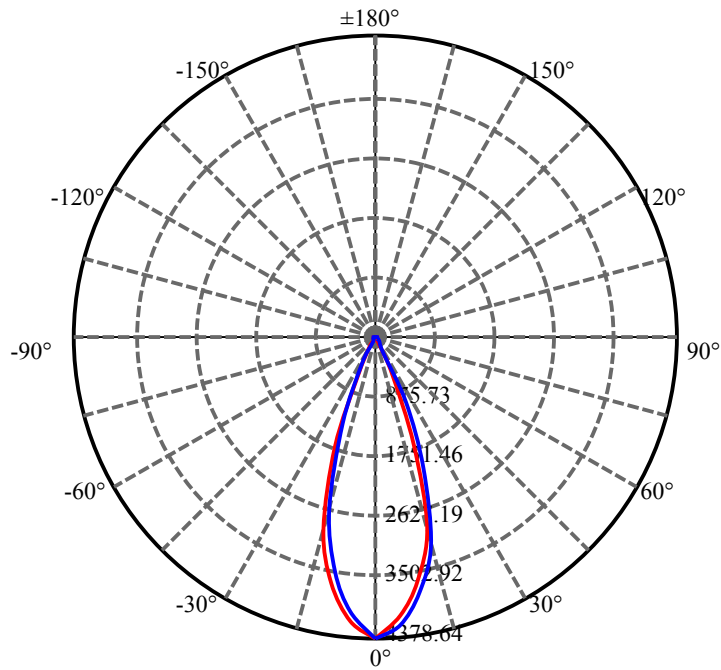
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1500.86	N.A.	92.63%
0-40	1557.25	N.A.	96.11%
0-60	1600.26	N.A.	98.76%
0-90	1618.53	N.A.	99.89%
0-120	1618.53	N.A.	99.89%
0-180	1620.32	N.A.	100.00%
60-90	18.28	N.A.	1.13%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.38	N.A.	0.02%
90-180	1.73	N.A.	0.11%
0-23.08	1296.26	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	378.36
10-20	763.08
20-30	359.42
30-40	56.38
40-50	25.24
50-60	17.77
60-70	11.45
70-80	5.60
80-90	1.22
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.07
140-150	0.31
150-160	0.60
160-170	0.58
170-180	0.17



C0/C180: —

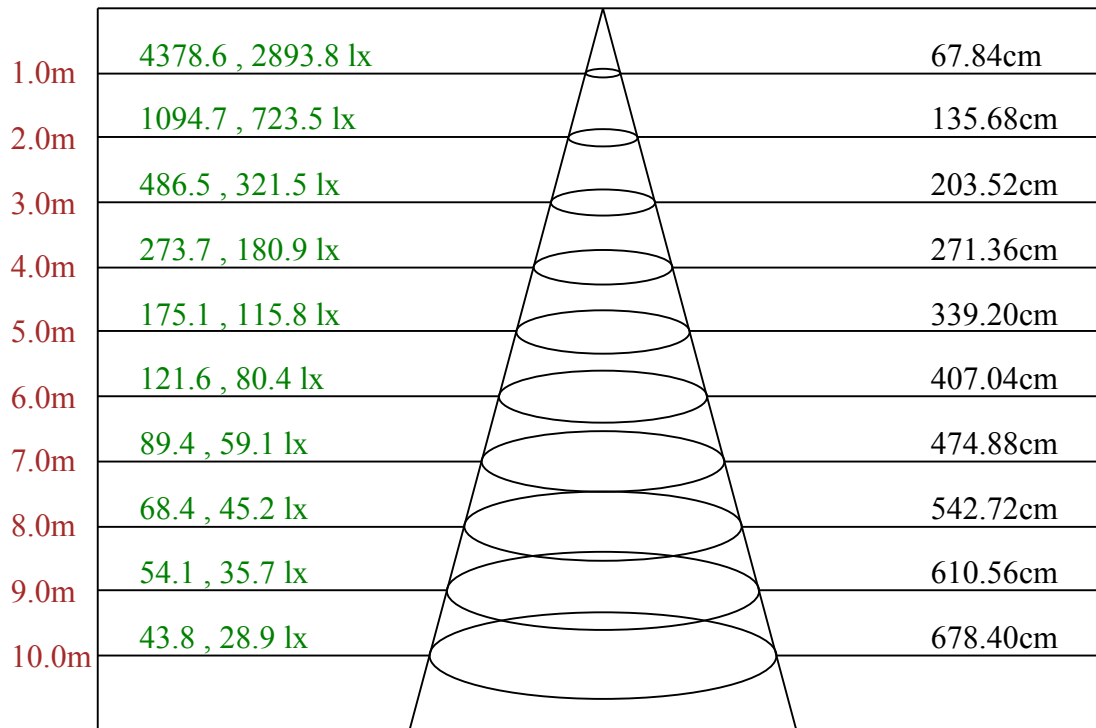
C90/C270: —

Field angle(10%Imax):C0/180Left:26.9 Right:27.1

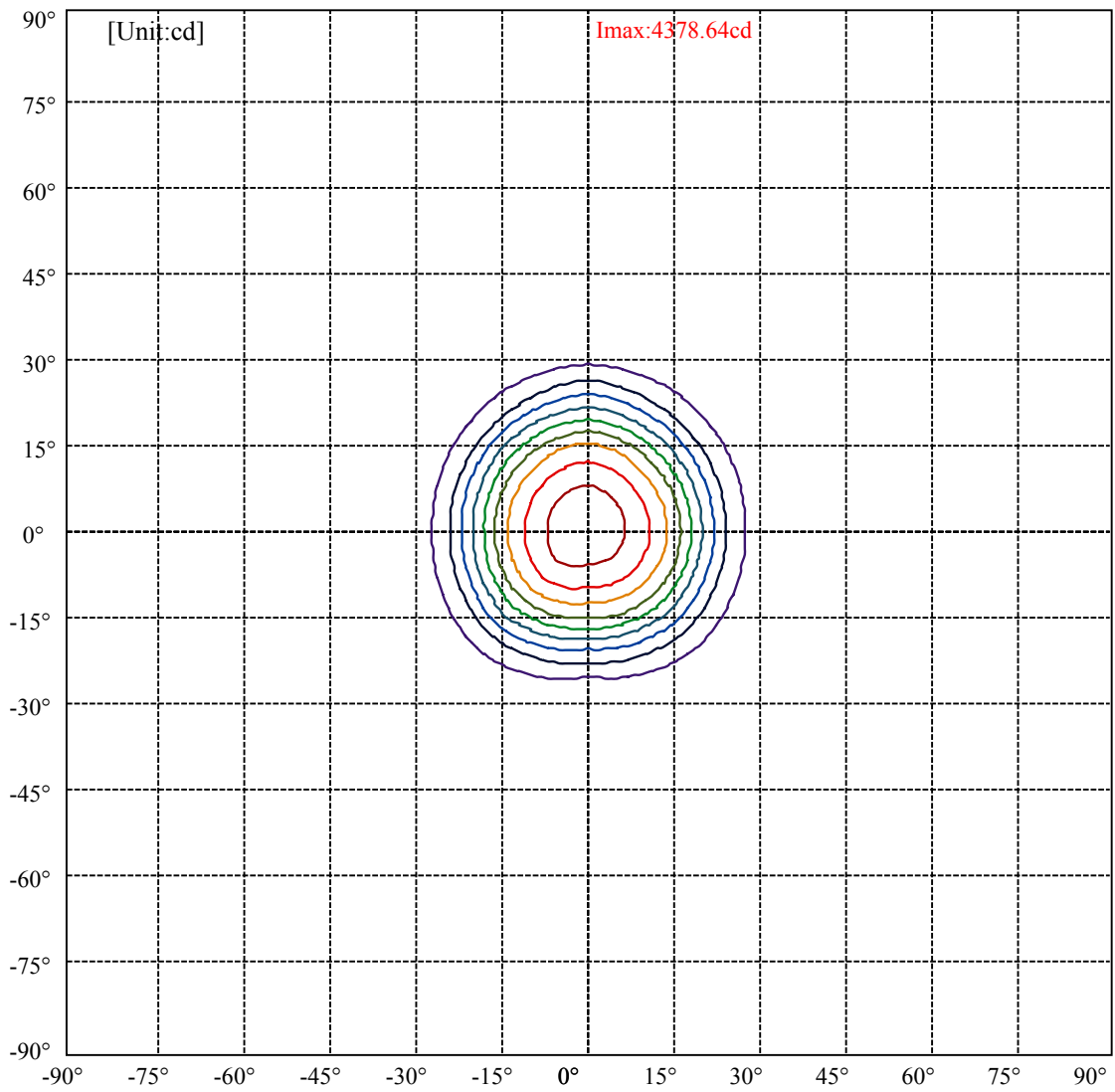
:C90/270Left:25.0 Right:28.8

Beam Angle(50%Imax):C0/180Left:18.0 Right:17.8

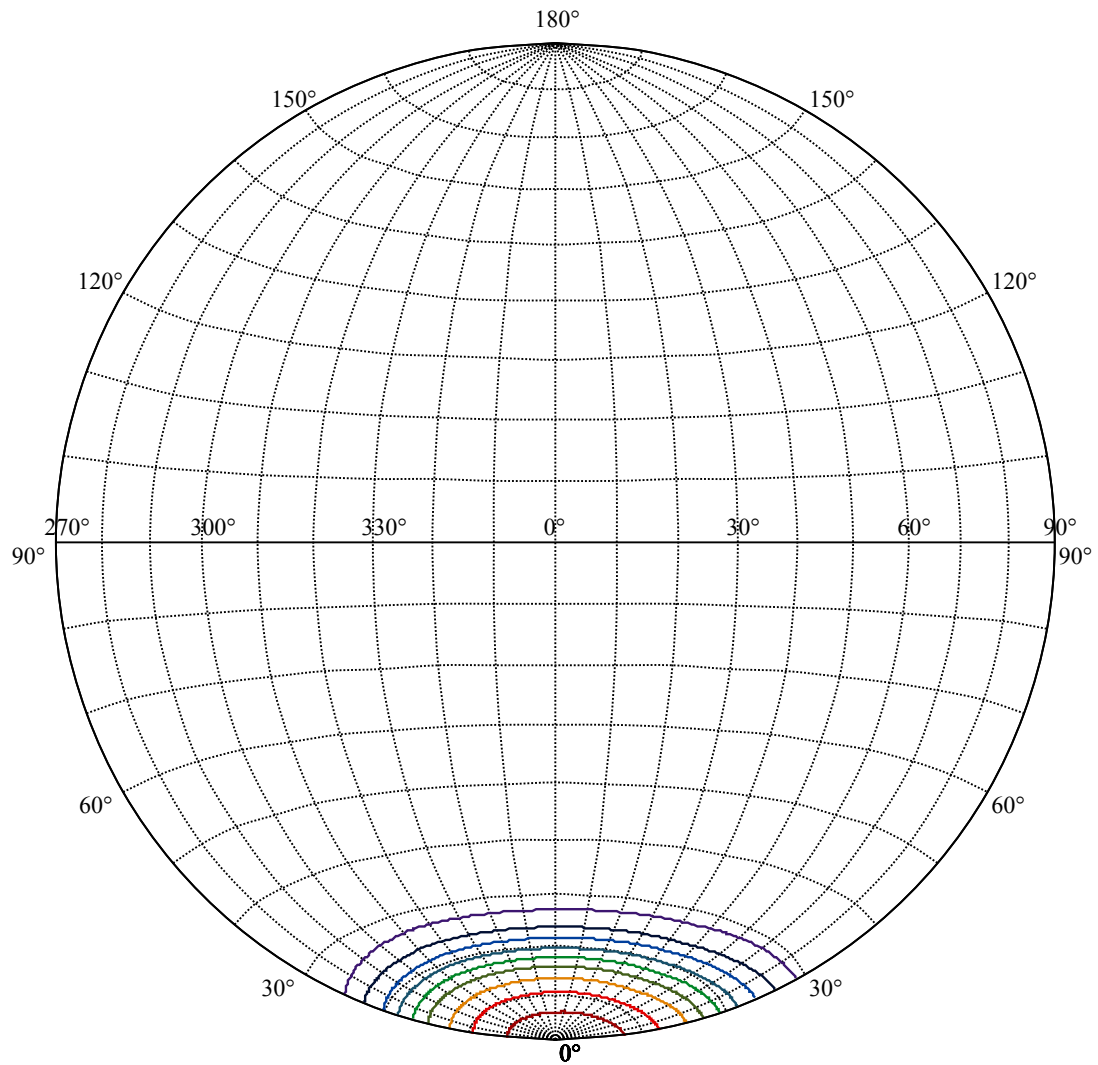
:C90/270Left:16.6 Right:19.3



Max , Ave Beam angle of C135 plane 37.47



(10%Imax) 437.653	—
(20%Imax) 875.305	—
(30%Imax) 1312.96	—
(40%Imax) 1750.61	—
(50%Imax) 2188.26	—
(60%Imax) 2625.92	—
(70%Imax) 3063.57	—
(80%Imax) 3501.22	—
(90%Imax) 3938.87	—



House

[Unit:cd]

Road

Imax:4378.64

(10%Imax) 437.864	—
(20%Imax) 875.729	—
(30%Imax) 1313.59	—
(40%Imax) 1751.46	—
(50%Imax) 2189.32	—
(60%Imax) 2627.19	—
(70%Imax) 3065.05	—
(80%Imax) 3502.91	—
(90%Imax) 3940.78	—

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	4368.06	4064.05	3598.52	2857.77	1662.08	621.35	188.20	72.40	41.49	
45.0	4351.12	4123.97	3641.07	2862.85	1736.17	680.84	205.78	81.08	41.71	
90.0	4376.53	4205.05	3768.94	3123.25	2030.86	1061.27	249.81	84.05	47.63	
135.0	4378.64	4164.82	3699.08	2960.24	1865.73	707.72	169.15	73.04	42.34	
180.0	4368.06	4141.54	3627.10	2879.79	1700.61	606.74	151.37	69.44	39.80	
225.0	4351.12	4179.64	3690.61	2896.73	1793.76	690.57	169.36	72.19	42.34	
270.0	4376.53	4002.45	3443.77	2592.09	1348.76	433.99	118.34	64.36	40.22	
315.0	4378.64	4041.19	3541.15	2775.00	1589.25	623.89	168.52	74.52	41.49	
360.0	4368.06	4064.05	3598.52	2857.77	1662.08	621.35	188.20	72.40	41.49	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	32.18	24.98	19.69	15.24	11.43	7.62	4.87	2.54	0.64	
45.0	32.60	24.35	19.69	15.03	11.01	7.83	5.08	2.75	0.85	
90.0	34.72	25.19	20.11	15.88	12.07	8.26	5.50	3.18	1.06	
135.0	32.18	24.13	19.90	15.45	11.64	8.26	5.29	2.75	0.64	
180.0	30.49	24.35	19.69	15.45	11.43	8.05	5.08	2.75	0.85	
225.0	31.97	24.77	20.54	15.88	11.86	8.68	5.50	3.18	1.06	
270.0	31.54	23.71	19.27	14.61	11.01	7.62	5.08	2.54	0.64	
315.0	32.39	24.56	19.69	15.24	11.22	7.83	5.29	2.75	1.06	
360.0	32.18	24.98	19.69	15.24	11.43	7.62	4.87	2.54	0.64	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	0.21	0.21	0.64	0.85	1.48	1.69	2.12	2.33	2.54	
45.0	0.21	0.21	0.64	0.85	1.48	1.91	2.33	2.33	2.54	
90.0	0.00	0.00	0.42	0.64	1.27	1.48	1.91	2.33	2.12	
135.0	0.00	0.00	0.42	0.85	1.27	1.48	1.69	2.33	2.12	
180.0	0.00	0.21	0.00	0.85	1.27	1.69	2.12	2.33	2.54	
225.0	0.00	0.21	0.42	0.85	1.06	1.69	1.91	2.33	2.54	
270.0	0.00	0.42	0.64	0.85	1.48	2.12	2.54	2.33	2.54	
315.0	0.21	0.42	0.64	1.06	1.48	1.91	2.12	2.33	2.33	
360.0	0.21	0.21	0.64	0.85	1.48	1.69	2.12	2.33	2.54	
C/γ(°)	180.0									
0.0	2.75									
45.0	2.96									
90.0	2.54									
135.0	2.75									
180.0	2.75									
225.0	2.96									
270.0	2.54									
315.0	2.75									
360.0	2.75									