



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

LumCAT: LE8R-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.15

LampCAT:

Current(A): 0.1550

Lamp flux(lm): -1.0

Power (W): 16.97

Number of Lamps: 1

PF: 0.9099

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1563.30, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 92.12

Central intensity(cd): 538.500, Maximum intensity(cd): 538.500

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=113.3

[C90/270]Total=113.4

Field angle(10%Imax): [C0/180]Total=162.7

[C90/270]Total=162.7

Maximum s/h(1/2): C0\_180=1.27 C90\_270=1.27

Maximum s/h(1/4): C0\_180=1.39 C90\_270=1.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.30%

Down flux rate of LUM(%): 99.70%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 78.041%

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

Date:  
Humidity(%): 58%

Operator: Sam

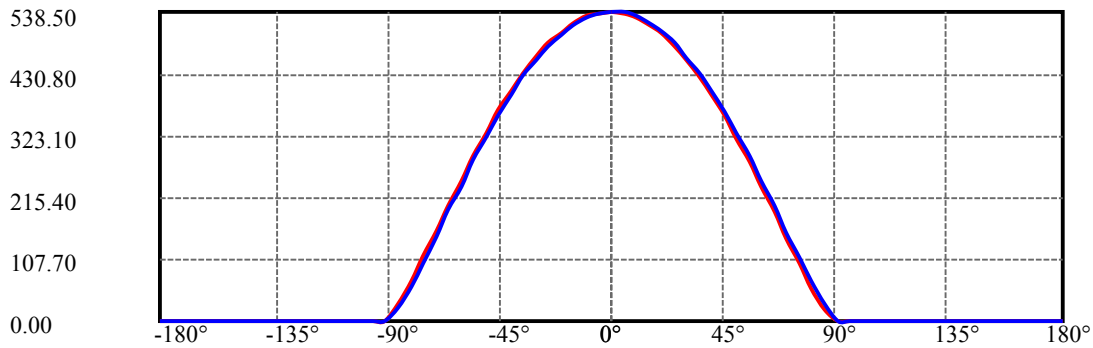
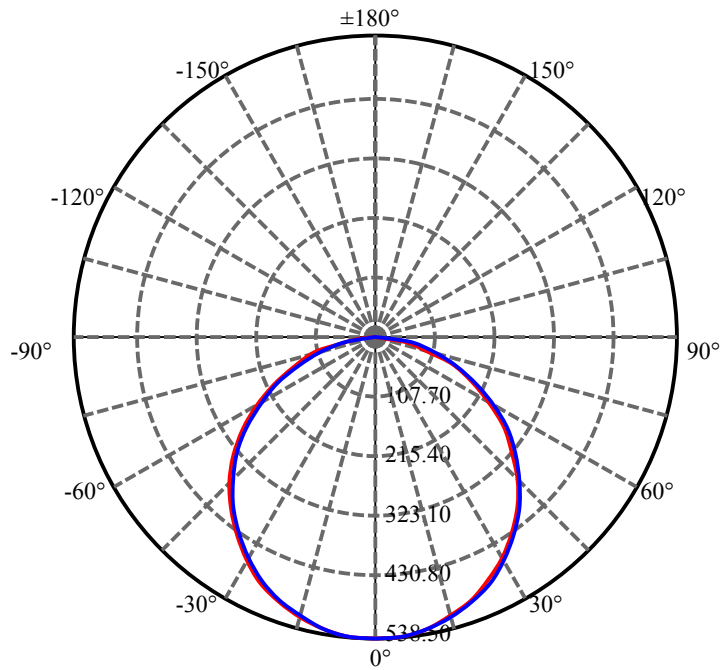
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	538.500	0.000	0	0.00%	0.00%
5.0	536.401	12.850	12.85	0.00%	0.82%
10.0	529.283	38.123	50.973	0.00%	3.26%
15.0	517.613	62.101	113.074	0.00%	7.23%
20.0	501.708	84.006	197.08	0.00%	12.61%
25.0	481.570	103.128	300.208	0.00%	19.20%
30.0	457.277	118.812	419.02	0.00%	26.80%
35.0	428.962	130.505	549.525	0.00%	35.15%
40.0	397.419	137.875	687.401	0.00%	43.97%
45.0	362.329	140.673	828.074	0.00%	52.97%
50.0	324.143	138.712	966.786	0.00%	61.84%
55.0	283.681	132.161	1098.947	0.00%	70.30%
60.0	240.124	121.076	1220.023	0.00%	78.04%
65.0	195.851	105.986	1326.009	0.00%	84.82%
70.0	150.812	87.777	1413.786	0.00%	90.44%
75.0	106.169	67.171	1480.957	0.00%	94.73%
80.0	64.225	45.593	1526.55	0.00%	97.65%
85.0	26.622	24.685	1551.235	0.00%	99.23%
90.0	0.529	7.434	1558.669	0.00%	99.70%
95.0	0.371	0.246	1558.915	0.00%	99.72%
100.0	0.477	0.230	1559.145	0.00%	99.73%
105.0	0.423	0.241	1559.386	0.00%	99.75%
110.0	0.503	0.242	1559.628	0.00%	99.76%
115.0	0.582	0.275	1559.903	0.00%	99.78%
120.0	0.635	0.296	1560.199	0.00%	99.80%
125.0	0.741	0.318	1560.517	0.00%	99.82%
130.0	0.794	0.334	1560.851	0.00%	99.84%
135.0	1.006	0.364	1561.214	0.00%	99.87%
140.0	1.059	0.382	1561.597	0.00%	99.89%
145.0	1.085	0.358	1561.954	0.00%	99.91%
150.0	1.112	0.323	1562.278	0.00%	99.93%
155.0	1.191	0.291	1562.569	0.00%	99.95%
160.0	1.244	0.255	1562.824	0.00%	99.97%
165.0	1.244	0.205	1563.029	0.00%	99.98%
170.0	1.323	0.152	1563.182	0.00%	99.99%
175.0	1.244	0.092	1563.274	0.00%	100.00%
180.0	1.270	0.030	1563.304	0.00%	100.00%

## ZONAL LUMEN SUMMARY

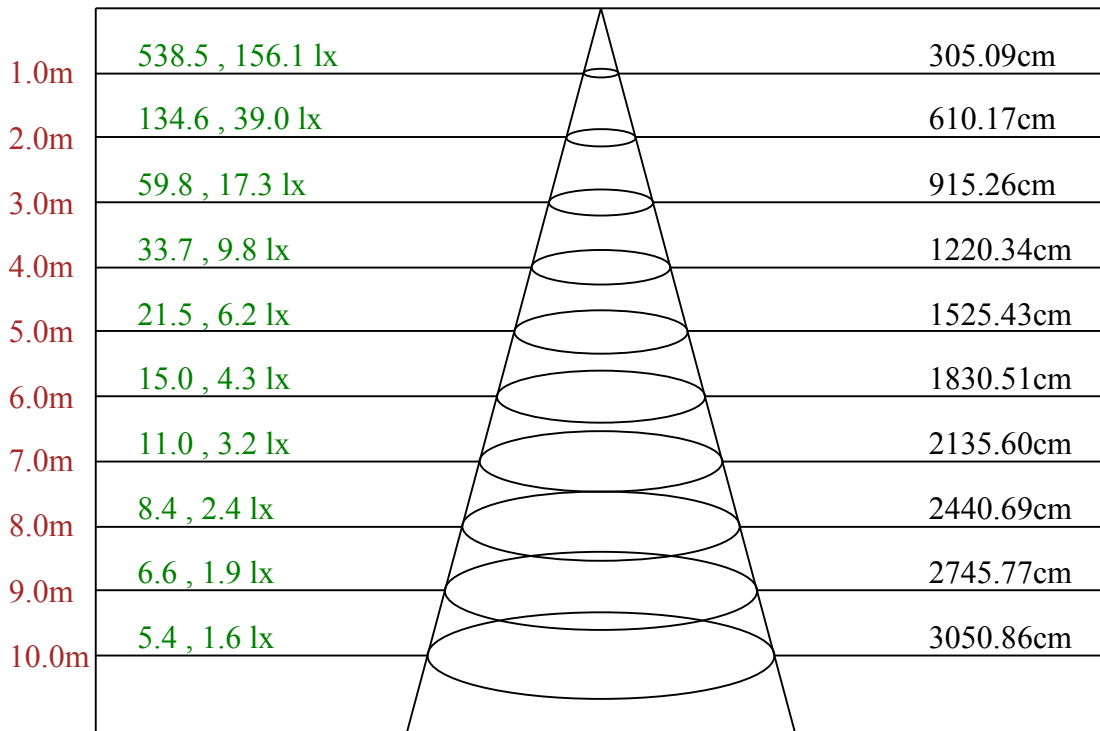
Zone	Lumens	%Lamp	%Fixt
0-30	419.02	N.A.	26.80%
0-40	687.40	N.A.	43.97%
0-60	1220.02	N.A.	78.04%
0-90	1558.67	N.A.	99.70%
0-120	1560.20	N.A.	99.80%
0-180	1563.30	N.A.	100.00%
60-90	338.65	N.A.	21.66%
90-120	1.53	N.A.	0.10%
90-130	2.18	N.A.	0.14%
90-150	3.61	N.A.	0.23%
90-180	4.60	N.A.	0.29%
0-61.44	1250.64	N.A.	80.00%

## ZONAL LUMEN SUMMARY

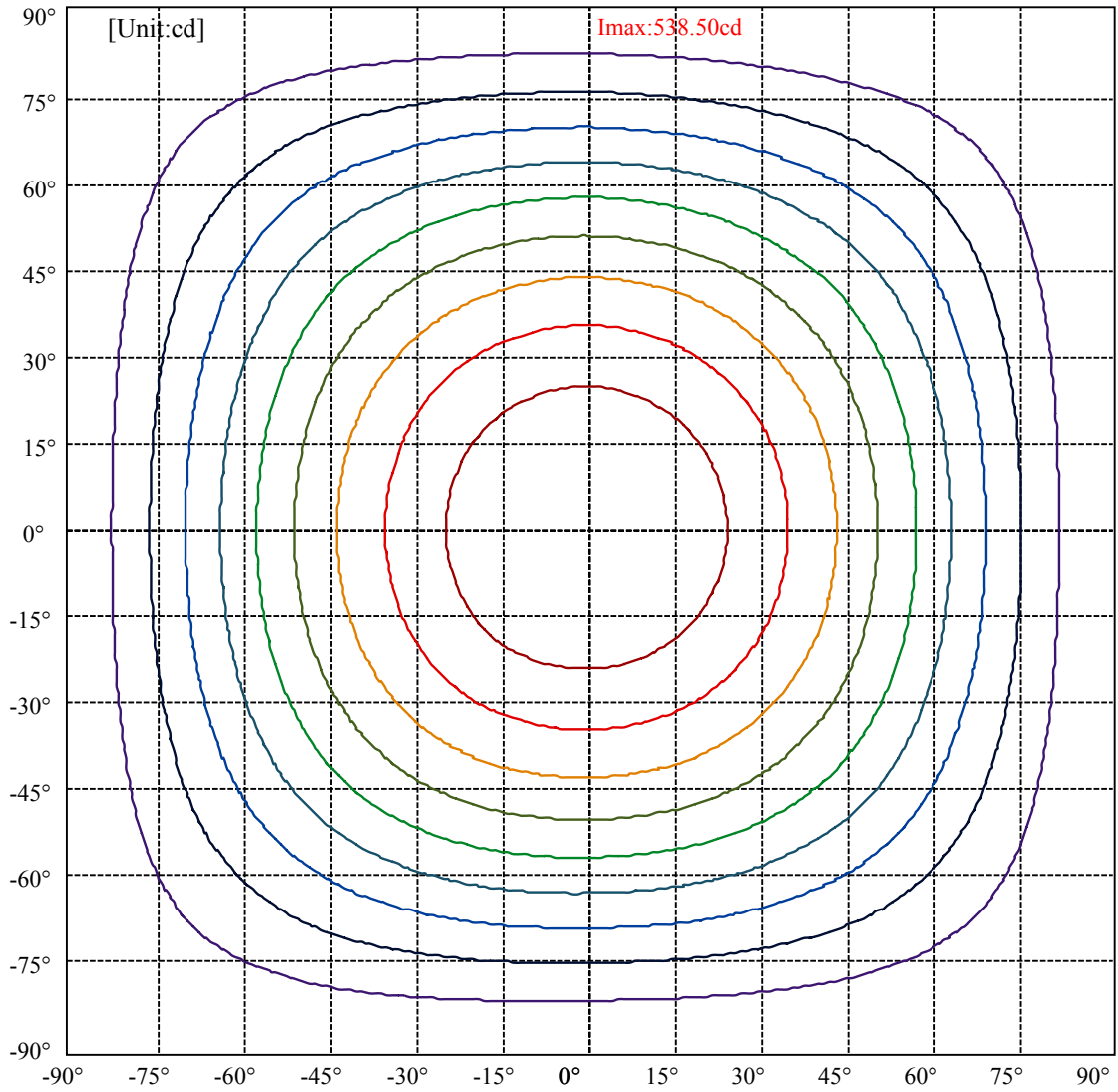
0-10	50.97
10-20	146.11
20-30	221.94
30-40	268.38
40-50	279.39
50-60	253.24
60-70	193.76
70-80	112.76
80-90	32.12
90-100	0.48
100-110	0.48
110-120	0.57
120-130	0.65
130-140	0.75
140-150	0.68
150-160	0.55
160-170	0.36
170-180	0.09



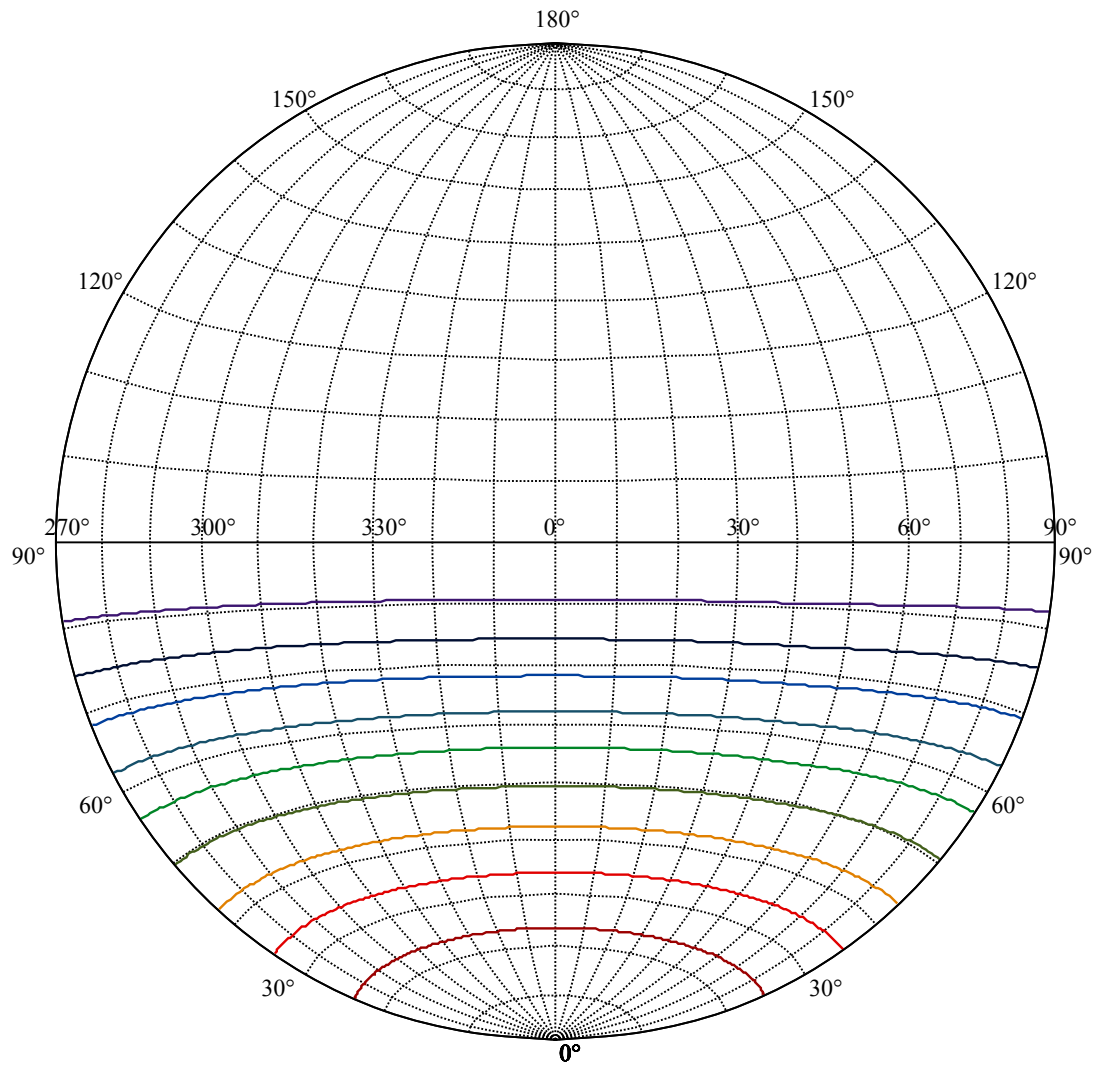
C0/C180: ————  
C90/C270: ————  
Field angle(10%Imax):C0/180Left:82.1 Right:80.6  
:C90/270Left:80.8 Right:81.9  
Beam Angle(50%Imax):C0/180Left:57.2 Right:56.1  
:C90/270Left:56.2 Right:57.2



Max , Ave      Beam angle of C0 plane 113.51



(10%Imax) 53.85	—
(20%Imax) 107.7	—
(30%Imax) 161.55	—
(40%Imax) 215.4	—
(50%Imax) 269.25	—
(60%Imax) 323.1	—
(70%Imax) 376.95	—
(80%Imax) 430.8	—
(90%Imax) 484.65	—



House

[Unit:cd]

Road

**Imax:538.50**

(10%Imax) 53.85	—
(20%Imax) 107.7	—
(30%Imax) 161.55	—
(40%Imax) 215.4	—
(50%Imax) 269.25	—
(60%Imax) 323.1	—
(70%Imax) 376.95	—
(80%Imax) 430.8	—
(90%Imax) 484.65	—

## LE8R-5CCT-4000K

Appendix Page: 8 Total:8

## 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	538.50	535.61	527.99	515.71	500.25	478.66	453.89	425.31	393.98
45.0	538.50	536.03	528.41	516.77	500.04	480.14	455.37	426.79	393.98
90.0	538.50	537.09	530.74	519.10	504.28	483.95	459.61	432.30	400.54
135.0	538.50	537.30	530.53	519.52	503.85	483.95	460.24	432.51	400.97
180.0	538.50	536.67	530.32	518.67	503.01	483.95	460.03	432.09	401.60
225.0	538.50	536.67	529.89	518.67	503.22	483.32	458.97	431.03	401.18
270.0	538.50	536.45	527.99	516.34	499.62	479.72	454.95	426.58	393.56
315.0	538.50	535.40	528.41	516.13	499.41	478.87	455.16	425.10	393.56
360.0	538.50	535.61	527.99	515.71	500.25	478.66	453.89	425.31	393.98

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	357.99	318.61	278.81	234.78	189.69	144.38	100.56	58.43	21.59
45.0	359.68	320.31	279.24	234.99	191.17	145.44	99.08	58.22	21.81
90.0	366.03	327.08	288.13	244.73	200.27	154.97	110.72	69.02	30.06
135.0	366.03	329.83	288.55	245.79	201.12	157.30	112.41	70.29	32.18
180.0	366.46	329.20	288.34	245.15	201.96	156.45	112.41	70.50	31.12
225.0	365.19	327.72	288.34	245.15	200.06	154.54	110.72	68.38	29.64
270.0	359.26	320.52	279.45	235.41	192.44	146.71	101.83	59.70	23.92
315.0	357.99	319.88	278.60	234.99	190.11	146.71	101.62	59.28	22.65
360.0	357.99	318.61	278.81	234.78	189.69	144.38	100.56	58.43	21.59

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	0.85	0.64	0.42	0.85	0.85	1.06	0.85
45.0	0.64	0.64	0.64	0.64	0.85	0.85	0.64	0.85	0.85
90.0	0.42	0.21	0.21	0.21	0.21	0.42	0.42	0.42	0.64
135.0	0.42	0.00	0.21	0.21	0.21	0.00	0.42	0.64	0.85
180.0	0.42	0.21	0.21	0.42	0.21	0.42	0.42	0.42	0.64
225.0	0.42	0.00	0.21	0.00	0.21	0.42	0.64	0.42	0.64
270.0	0.64	0.85	0.64	0.85	1.06	0.85	1.06	1.27	1.06
315.0	0.64	0.64	0.85	0.42	0.85	0.85	0.64	0.85	0.85
360.0	0.64	0.42	0.85	0.64	0.42	0.85	0.85	1.06	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	1.06	1.06	1.06	1.48	1.27	1.27	1.27	1.27
45.0	1.06	1.27	1.48	1.27	1.27	1.48	1.06	1.48	1.06
90.0	0.64	0.85	0.85	1.06	1.06	1.27	1.27	1.48	1.27
135.0	0.85	0.85	0.85	1.06	0.85	0.85	1.48	1.27	1.27
180.0	0.85	0.85	0.85	0.85	1.06	1.06	1.06	1.27	1.27
225.0	0.85	1.06	0.85	0.85	0.85	1.27	1.27	1.27	1.27
270.0	1.27	1.27	1.27	1.48	1.48	1.48	1.27	1.27	1.27
315.0	1.48	1.27	1.48	1.27	1.48	1.27	1.27	1.27	1.27
360.0	1.06	1.06	1.06	1.06	1.48	1.27	1.27	1.27	1.27

C/γ(°)	180.0
0.0	1.27
45.0	1.27
90.0	1.27
135.0	1.27
180.0	1.27
225.0	1.27
270.0	1.27
315.0	1.27
360.0	1.27

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

Date:  
 Humidity(%): 58%

Operator: Sam