



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

LumCAT: LE4R-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.0880

Lamp flux(lm): -1.0

Power (W): 10.06

Number of Lamps: 1

PF: 0.9471

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 765.98, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 76.14

Central intensity(cd): 277.613, Maximum intensity(cd): 277.613

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

Beam Angle(50%Imax): [C0/180]Total=110.7

[C90/270]Total=110.1

Field angle(10%Imax): [C0/180]Total=157.4

[C90/270]Total=157.1

Maximum s/h(1/2): C0\_180=1.27 C90\_270=1.28

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(%): 0.44%

Down flux rate of LUM(%): 99.56%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 80.488%

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

Date:  
Humidity(%): 58%

Operator: Tester

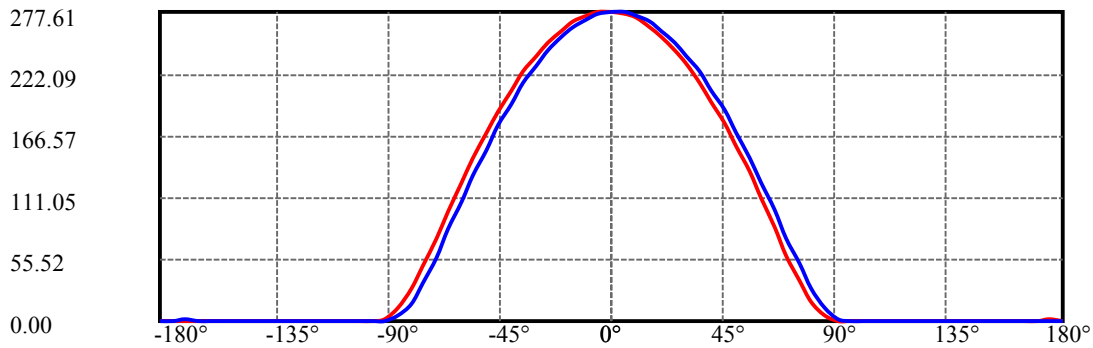
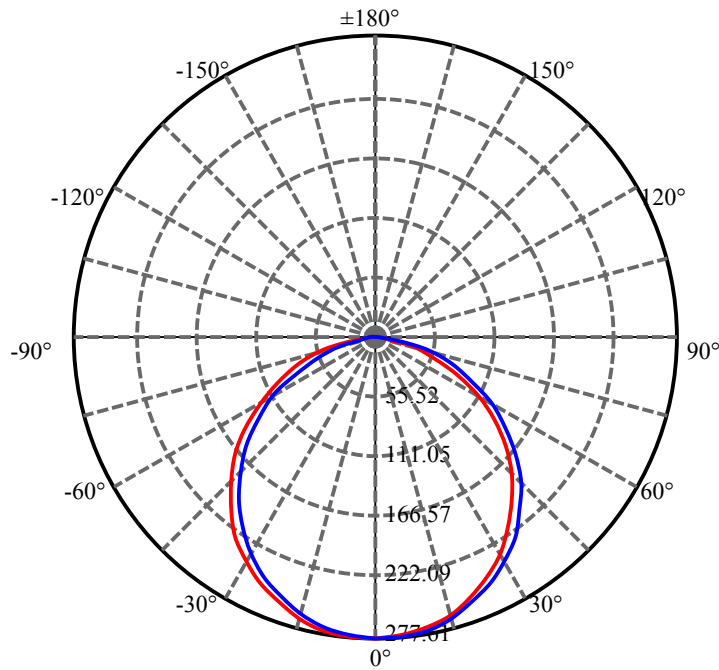
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	277.613	0.000	0	0.00%	0.00%
5.0	276.431	6.623	6.623	0.00%	0.86%
10.0	272.726	19.645	26.268	0.00%	3.43%
15.0	266.401	31.981	58.249	0.00%	7.60%
20.0	257.642	43.188	101.438	0.00%	13.24%
25.0	246.898	52.917	154.355	0.00%	20.15%
30.0	233.984	60.856	215.211	0.00%	28.10%
35.0	218.556	66.640	281.85	0.00%	36.80%
40.0	201.461	70.077	351.927	0.00%	45.94%
45.0	182.249	71.047	422.974	0.00%	55.22%
50.0	161.370	69.433	492.408	0.00%	64.29%
55.0	139.036	65.318	557.726	0.00%	72.81%
60.0	115.299	58.789	616.514	0.00%	80.49%
65.0	90.318	49.986	666.5	0.00%	87.01%
70.0	65.601	39.480	705.98	0.00%	92.17%
75.0	42.393	28.228	734.208	0.00%	95.85%
80.0	22.520	17.369	751.577	0.00%	98.12%
85.0	8.309	8.377	759.954	0.00%	99.21%
90.0	1.244	2.616	762.569	0.00%	99.56%
95.0	0.397	0.449	763.019	0.00%	99.61%
100.0	0.291	0.187	763.205	0.00%	99.64%
105.0	0.318	0.163	763.368	0.00%	99.66%
110.0	0.397	0.187	763.555	0.00%	99.68%
115.0	0.424	0.208	763.763	0.00%	99.71%
120.0	0.423	0.206	763.969	0.00%	99.74%
125.0	0.556	0.226	764.195	0.00%	99.77%
130.0	0.476	0.224	764.419	0.00%	99.80%
135.0	0.609	0.219	764.638	0.00%	99.83%
140.0	0.662	0.235	764.874	0.00%	99.86%
145.0	0.715	0.230	765.103	0.00%	99.89%
150.0	0.741	0.214	765.318	0.00%	99.91%
155.0	0.821	0.198	765.515	0.00%	99.94%
160.0	0.741	0.164	765.679	0.00%	99.96%
165.0	0.794	0.127	765.805	0.00%	99.98%
170.0	0.794	0.094	765.9	0.00%	99.99%
175.0	0.794	0.057	765.956	0.00%	100.00%
180.0	0.776	0.019	765.975	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	215.21	N.A.	28.10%
0-40	351.93	N.A.	45.94%
0-60	616.51	N.A.	80.49%
0-90	762.57	N.A.	99.56%
0-120	763.97	N.A.	99.74%
0-180	765.98	N.A.	100.00%
60-90	146.05	N.A.	19.07%
90-120	1.40	N.A.	0.18%
90-130	1.85	N.A.	0.24%
90-150	2.75	N.A.	0.36%
90-180	3.39	N.A.	0.44%
0-59.68	612.78	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	26.27
10-20	75.17
20-30	113.77
30-40	136.72
40-50	140.48
50-60	124.11
60-70	89.47
70-80	45.60
80-90	10.99
90-100	0.64
100-110	0.35
110-120	0.41
120-130	0.45
130-140	0.45
140-150	0.44
150-160	0.36
160-170	0.22
170-180	0.06

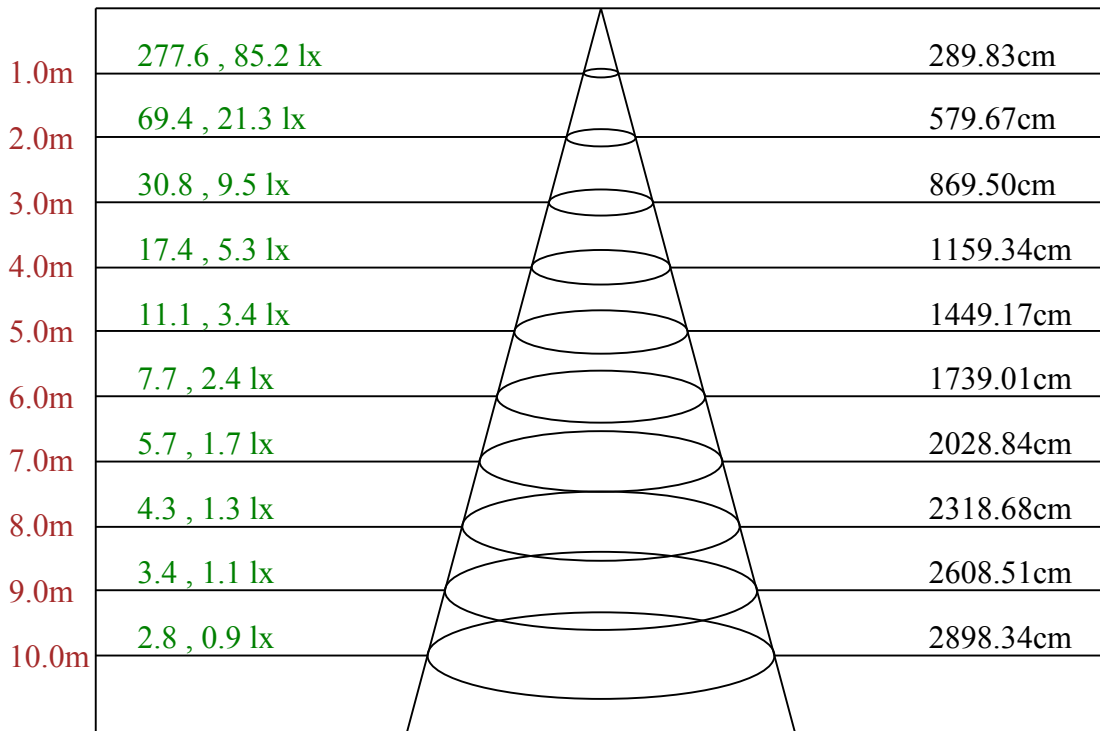


C0/C180: —

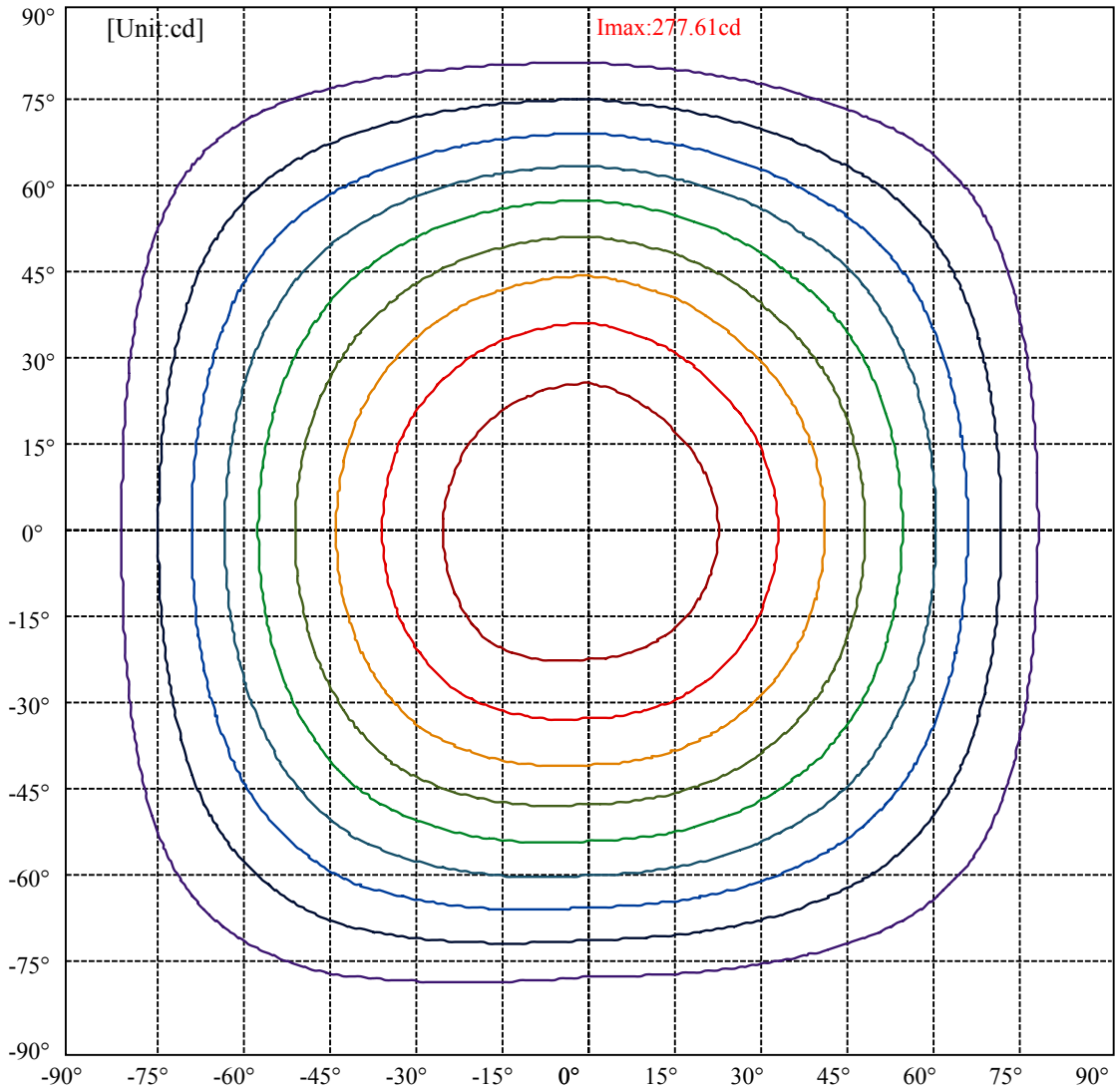
C90/C270: —

Field angle(10%Imax):C0/180Left:80.2 Right:77.2  
:C90/270Left:76.7 Right:80.4

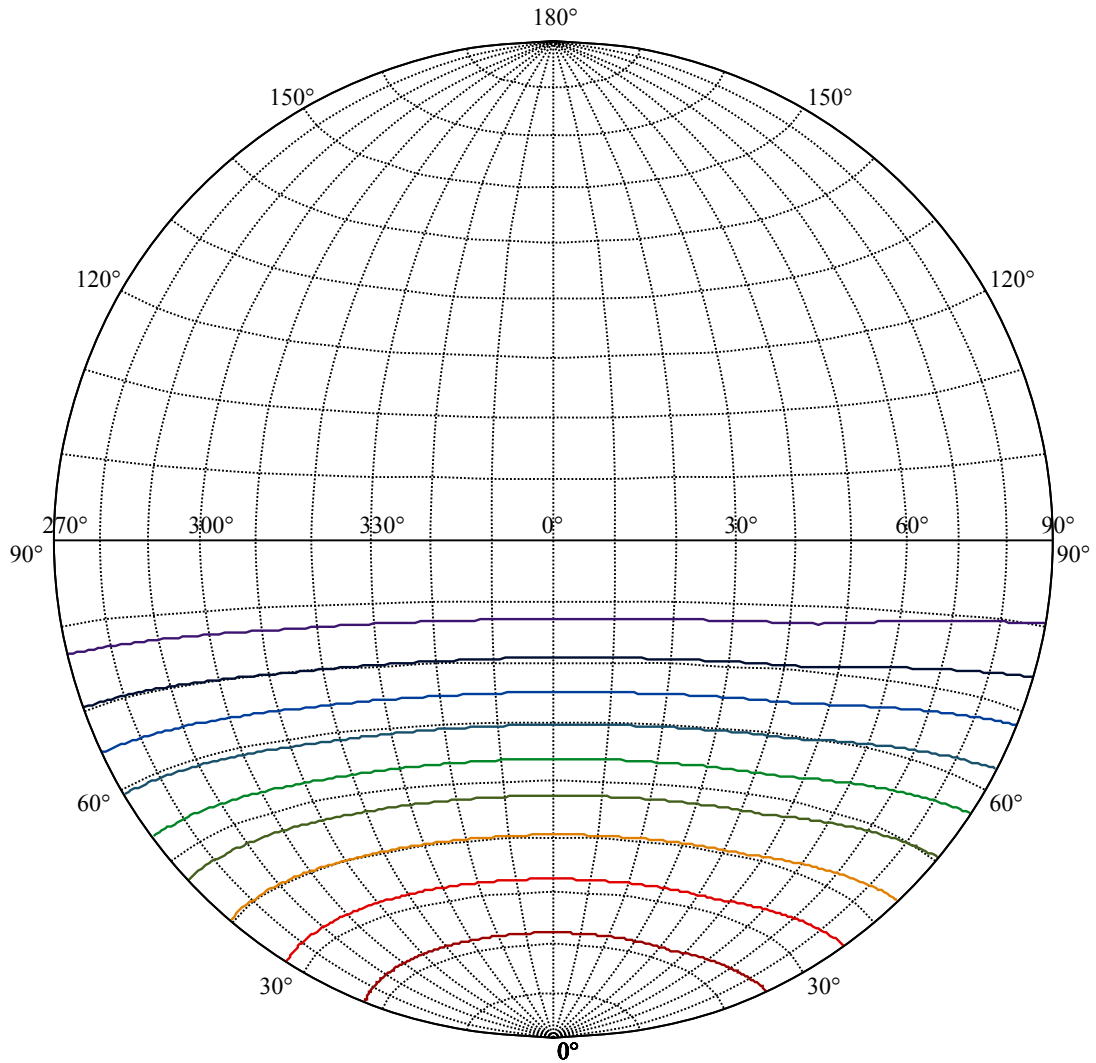
Beam Angle(50%Imax):C0/180Left:56.8 Right:53.9  
:C90/270Left:53.4 Right:56.7



Max , Ave      Beam angle of C0 plane 110.78



(10%Imax)	27.7613	—
(20%Imax)	55.5226	—
(30%Imax)	83.2839	—
(40%Imax)	111.045	—
(50%Imax)	138.807	—
(60%Imax)	166.568	—
(70%Imax)	194.329	—
(80%Imax)	222.09	—
(90%Imax)	249.852	—



House

[Unit:cd]

Road

<b>I<sub>max</sub>:277.61</b>	—
(10%I <sub>max</sub> ) 27.7613	—
(20%I <sub>max</sub> ) 55.5226	—
(30%I <sub>max</sub> ) 83.2839	—
(40%I <sub>max</sub> ) 111.045	—
(50%I <sub>max</sub> ) 138.807	—
(60%I <sub>max</sub> ) 166.568	—
(70%I <sub>max</sub> ) 194.329	—
(80%I <sub>max</sub> ) 222.09	—
(90%I <sub>max</sub> ) 249.852	—

## LE4R-5CCT-3500K

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## 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	277.61	275.85	271.61	264.63	255.10	243.67	230.33	214.03	196.67
45.0	277.61	275.64	271.19	263.78	254.68	243.03	229.27	213.61	196.04
90.0	277.61	277.12	274.37	268.65	260.39	250.44	238.38	223.98	207.68
135.0	277.61	277.12	274.16	268.23	260.61	250.02	237.95	223.35	206.83
180.0	277.61	277.12	274.37	268.86	260.39	250.02	238.38	223.56	207.05
225.0	277.61	277.12	273.94	268.86	260.18	251.08	238.17	223.13	207.05
270.0	277.61	275.64	270.98	263.78	254.89	243.46	229.70	213.18	195.61
315.0	277.61	275.85	271.19	264.42	254.89	243.46	229.70	213.61	194.77
360.0	277.61	275.85	271.61	264.63	255.10	243.67	230.33	214.03	196.67

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	176.98	156.45	133.80	109.66	83.83	59.49	36.20	16.94	4.66
45.0	175.93	155.18	132.31	109.24	83.62	58.85	36.20	18.21	5.93
90.0	189.69	168.52	146.50	124.06	99.29	74.52	51.02	29.22	12.28
135.0	187.57	166.40	144.81	120.46	95.27	70.71	48.06	27.52	11.86
180.0	188.42	168.52	147.35	123.42	99.08	74.73	50.39	28.58	11.64
225.0	188.84	168.52	145.65	122.58	98.87	73.67	49.96	28.37	11.22
270.0	175.08	154.12	131.68	107.76	82.14	57.37	34.08	15.67	4.45
315.0	175.50	153.27	130.20	105.22	80.45	55.47	33.24	15.67	4.45
360.0	176.98	156.45	133.80	109.66	83.83	59.49	36.20	16.94	4.66

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	0.64	0.42	0.85	0.64	0.64	0.64	0.42
45.0	0.64	0.64	0.42	0.64	0.64	0.85	0.85	0.64	0.64
90.0	2.33	0.00	0.00	0.21	0.00	0.21	0.42	0.42	0.42
135.0	2.12	0.21	0.00	0.21	0.00	0.21	0.00	0.42	0.42
180.0	1.48	0.21	0.00	0.00	0.21	0.00	0.42	0.64	0.21
225.0	1.69	0.42	0.00	0.00	0.00	0.21	0.00	0.21	0.21
270.0	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.85
315.0	0.42	0.64	0.64	0.42	0.85	0.64	0.42	0.85	0.64
360.0	0.64	0.42	0.64	0.42	0.85	0.64	0.64	0.64	0.42

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.64	0.64	0.85	0.85	0.85	0.85	0.85	0.64	1.06
45.0	0.64	1.06	1.06	0.85	1.06	0.85	0.85	0.64	0.85
90.0	0.42	0.42	0.64	0.64	0.64	0.64	0.85	0.85	0.85
135.0	0.42	0.42	0.64	0.64	0.85	0.64	0.64	0.85	0.85
180.0	0.42	0.64	0.42	0.64	0.64	0.64	0.64	0.85	0.64
225.0	0.64	0.64	0.42	0.64	0.85	0.64	0.85	0.64	0.64
270.0	0.85	0.64	0.85	0.85	0.85	0.85	0.85	1.06	0.64
315.0	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
360.0	0.64	0.64	0.85	0.85	0.85	0.85	0.85	0.64	1.06

C/γ(°)	180.0
0.0	0.78
45.0	0.78
90.0	0.78
135.0	0.78
180.0	0.78
225.0	0.78
270.0	0.78
315.0	0.78
360.0	0.78