



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

LumCAT: LE4R-5CCT-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.52

Number of Lamps: 1

PF: 0.9495

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 679.83, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 64.63

Central intensity(cd): 246.351, Maximum intensity(cd): 248.327

Angle of maximum intensity: C=90.0  $\gamma=5.0$

Beam Angle(50%Imax): [C0/180]Total=110.3

[C90/270]Total=110.4

Field angle(10%Imax): [C0/180]Total=157.3

[C90/270]Total=157.3

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

Maximum s/h(1/4): C0\_180=1.39 C90\_270=1.40

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.58%

Down flux rate of LUM(%): 99.42%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 80.394%

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

Date:  
Humidity(%): 58%

Operator: Tester

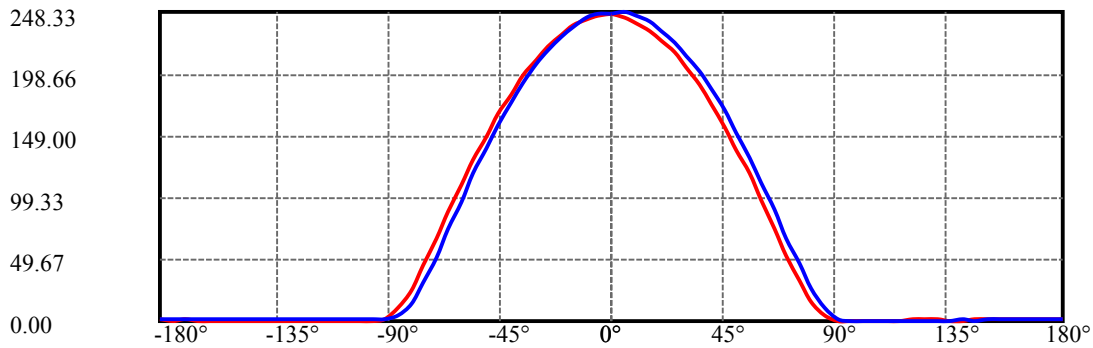
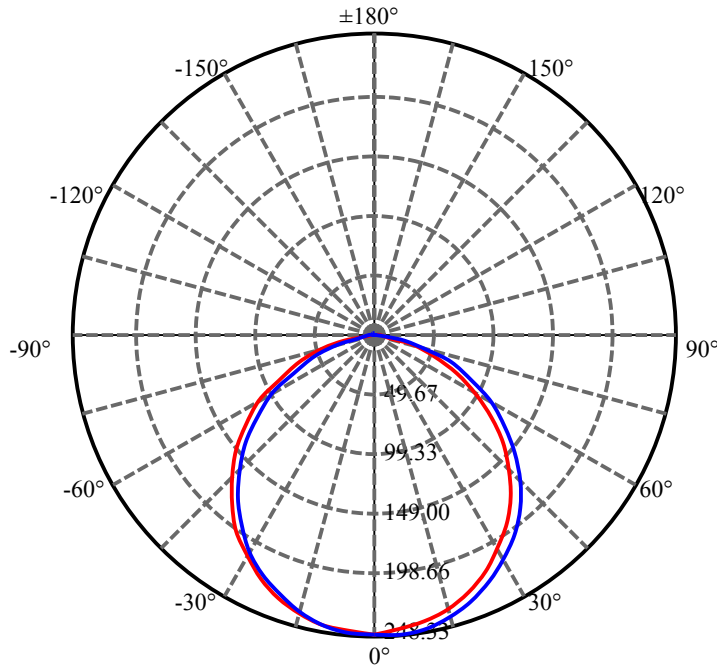
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	246.351	0.000	0	0.00%	0.00%
5.0	245.125	5.875	5.875	0.00%	0.86%
10.0	241.817	17.419	23.295	0.00%	3.43%
15.0	236.287	28.361	51.656	0.00%	7.60%
20.0	228.559	38.310	89.966	0.00%	13.23%
25.0	218.848	46.925	136.89	0.00%	20.14%
30.0	207.336	53.934	190.824	0.00%	28.07%
35.0	193.920	59.088	249.912	0.00%	36.76%
40.0	178.756	62.178	312.09	0.00%	45.91%
45.0	161.503	63.002	375.092	0.00%	55.17%
50.0	142.952	61.520	436.611	0.00%	64.22%
55.0	123.211	57.873	494.484	0.00%	72.74%
60.0	101.988	52.054	546.538	0.00%	80.39%
65.0	80.050	44.254	590.792	0.00%	86.90%
70.0	58.086	34.977	625.769	0.00%	92.05%
75.0	37.710	25.039	650.808	0.00%	95.73%
80.0	19.794	15.386	666.194	0.00%	97.99%
85.0	7.304	7.363	673.558	0.00%	99.08%
90.0	1.244	2.340	675.898	0.00%	99.42%
95.0	0.397	0.449	676.347	0.00%	99.49%
100.0	0.371	0.209	676.556	0.00%	99.52%
105.0	0.423	0.212	676.768	0.00%	99.55%
110.0	0.450	0.228	676.996	0.00%	99.58%
115.0	0.423	0.221	677.218	0.00%	99.62%
120.0	0.556	0.238	677.456	0.00%	99.65%
125.0	0.635	0.275	677.731	0.00%	99.69%
130.0	0.715	0.293	678.024	0.00%	99.74%
135.0	0.688	0.283	678.308	0.00%	99.78%
140.0	0.741	0.265	678.572	0.00%	99.82%
145.0	0.767	0.252	678.824	0.00%	99.85%
150.0	0.847	0.238	679.062	0.00%	99.89%
155.0	0.900	0.221	679.283	0.00%	99.92%
160.0	0.926	0.192	679.474	0.00%	99.95%
165.0	0.926	0.153	679.627	0.00%	99.97%
170.0	0.953	0.111	679.738	0.00%	99.99%
175.0	0.900	0.066	679.805	0.00%	100.00%
180.0	0.823	0.021	679.825	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	190.82	N.A.	28.07%
0-40	312.09	N.A.	45.91%
0-60	546.54	N.A.	80.39%
0-90	675.90	N.A.	99.42%
0-120	677.46	N.A.	99.65%
0-180	679.83	N.A.	100.00%
60-90	129.36	N.A.	19.03%
90-120	1.56	N.A.	0.23%
90-130	2.13	N.A.	0.31%
90-150	3.16	N.A.	0.47%
90-180	3.91	N.A.	0.57%
0-59.74	543.86	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	23.29
10-20	66.67
20-30	100.86
30-40	121.27
40-50	124.52
50-60	109.93
60-70	79.23
70-80	40.43
80-90	9.70
90-100	0.66
100-110	0.44
110-120	0.46
120-130	0.57
130-140	0.55
140-150	0.49
150-160	0.41
160-170	0.26
170-180	0.07

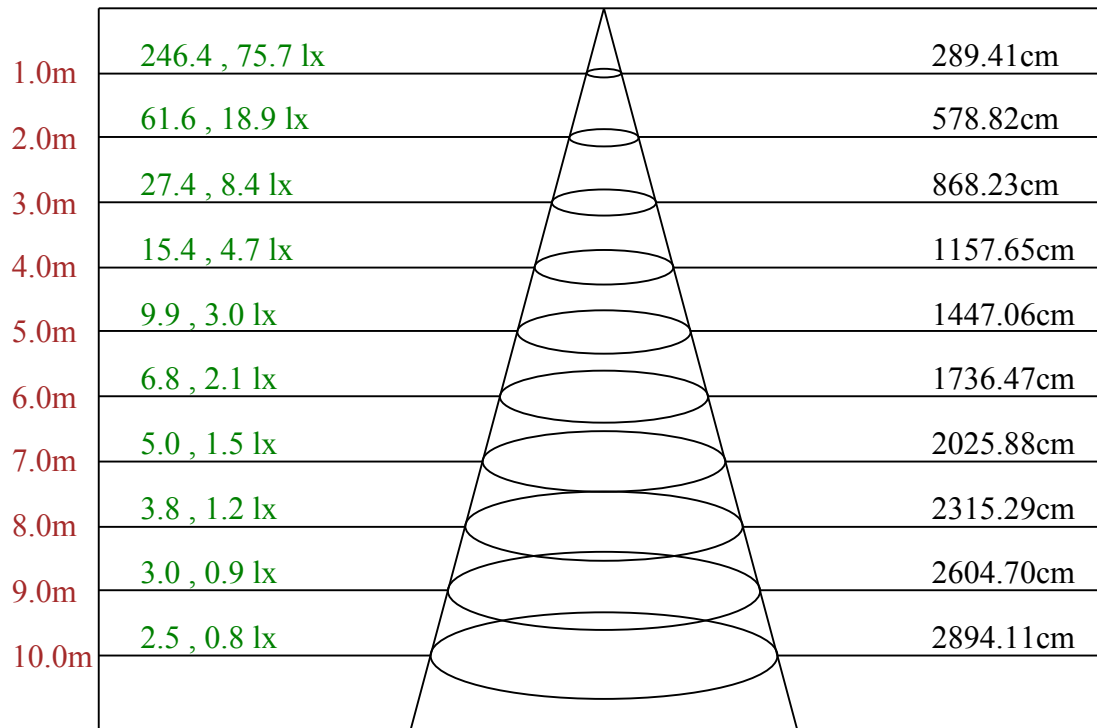


C0/C180: —

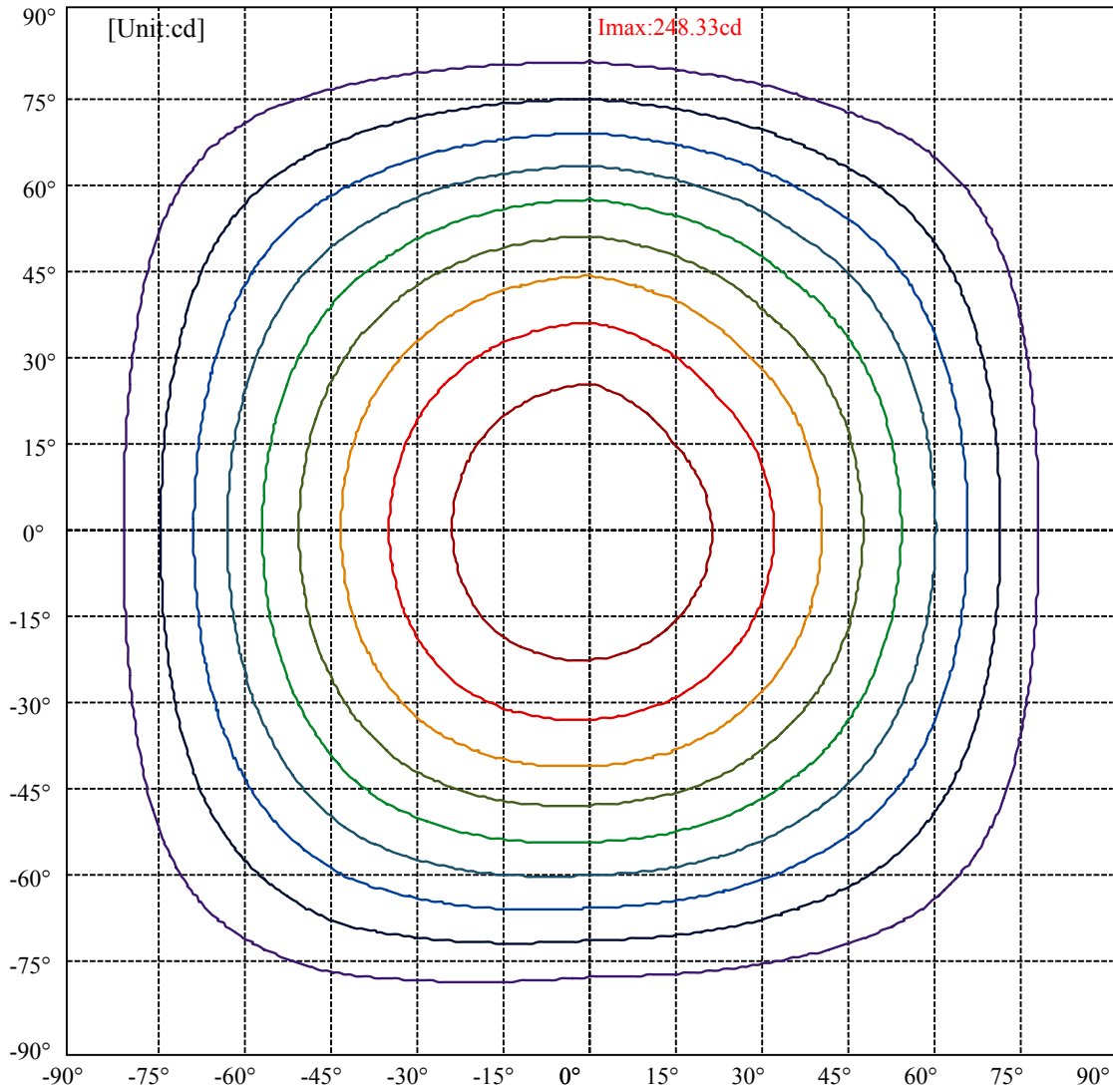
C90/C270: —

Field angle(10%Imax):C0/180Left:80.1 Right:77.2  
:C90/270Left:76.8 Right:80.5

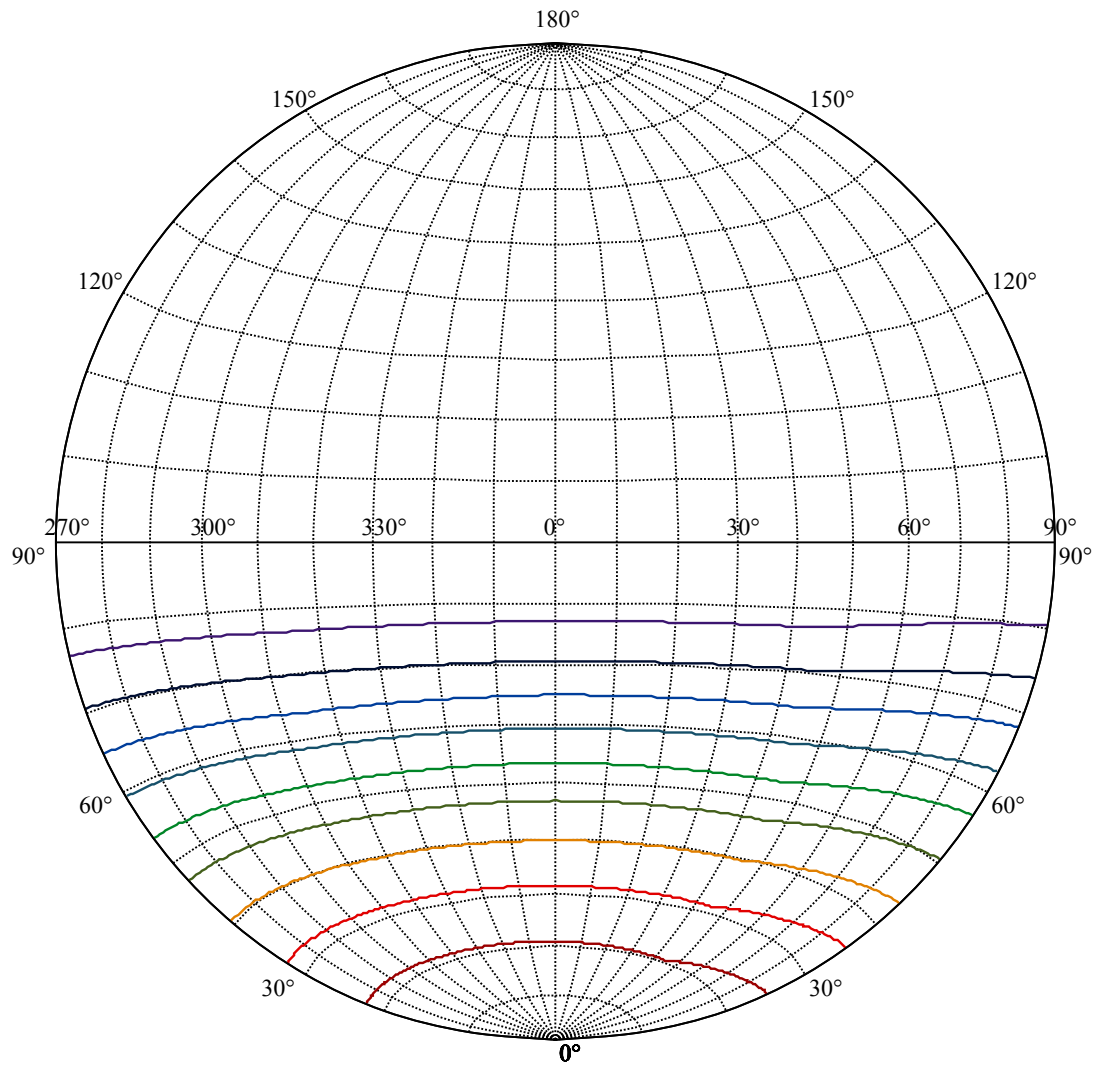
Beam Angle(50%Imax):C0/180Left:56.5 Right:53.8  
:C90/270Left:53.6 Right:56.8



Max , Ave      Beam angle of C90 plane 110.71



(10%Imax) 24.8327	—
(20%Imax) 49.6654	—
(30%Imax) 74.4981	—
(40%Imax) 99.3308	—
(50%Imax) 124.163	—
(60%Imax) 148.996	—
(70%Imax) 173.829	—
(80%Imax) 198.662	—
(90%Imax) 223.494	—












House

[Unit:cd]

Road

**Imax:248.33**

(10%Imax) 24.8327	
(20%Imax) 49.6654	
(30%Imax) 74.4981	
(40%Imax) 99.3308	
(50%Imax) 124.163	
(60%Imax) 148.996	
(70%Imax) 173.829	
(80%Imax) 198.662	
(90%Imax) 223.494	

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	246.35	243.46	239.44	233.51	225.46	215.30	203.23	189.47	173.60
45.0	246.35	243.03	239.01	232.45	224.41	214.24	202.18	188.20	172.75
90.0	246.35	248.33	245.58	240.49	233.30	223.77	212.97	200.69	185.88
135.0	246.35	246.00	243.25	238.38	231.18	221.86	210.64	197.94	183.33
180.0	246.35	244.52	241.98	237.95	229.91	221.02	210.01	197.31	182.70
225.0	246.35	244.31	241.76	236.47	230.12	220.81	210.01	197.10	183.12
270.0	246.35	246.85	243.03	236.47	228.00	218.05	205.99	191.38	175.71
315.0	246.35	244.52	240.49	234.57	226.10	215.73	203.66	189.26	172.96
360.0	246.35	243.46	239.44	233.51	225.46	215.30	203.23	189.47	173.60
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	156.24	137.61	118.55	96.75	74.31	51.87	32.18	15.03	4.02
45.0	155.18	136.13	116.23	95.27	73.46	51.87	31.54	15.45	5.29
90.0	169.36	150.94	131.68	110.72	88.92	66.69	46.15	26.25	10.80
135.0	166.61	147.98	128.08	106.91	84.47	63.09	42.34	24.35	11.01
180.0	166.61	148.83	129.14	108.82	88.07	65.63	44.25	24.98	10.16
225.0	165.76	147.77	128.29	108.39	86.80	64.78	44.67	24.77	9.53
270.0	157.51	138.45	118.34	96.11	74.10	51.66	30.91	13.76	4.02
315.0	154.76	135.91	115.38	92.94	70.29	49.12	29.64	13.76	3.60
360.0	156.24	137.61	118.55	96.75	74.31	51.87	32.18	15.03	4.02
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.42	0.42	0.64	0.64	0.42	0.85	0.85	0.85
45.0	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.64	0.85
90.0	2.12	0.64	0.21	0.42	0.00	0.42	0.42	0.64	0.64
135.0	2.12	0.21	0.21	0.21	0.21	0.21	0.42	0.64	0.21
180.0	1.48	0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.42
225.0	1.48	0.00	0.21	0.00	0.21	0.21	0.42	0.42	0.42
270.0	1.06	1.06	0.85	0.85	1.27	0.85	1.06	1.06	1.27
315.0	0.85	0.42	0.64	0.85	0.64	0.64	0.64	0.64	1.06
360.0	0.42	0.42	0.42	0.64	0.64	0.42	0.85	0.85	0.85
C/ $\gamma$ (°)	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	1.06	0.85	1.06	0.85
45.0	0.64	0.85	0.85	0.85	1.06	0.85	0.85	1.06	0.85
90.0	0.64	0.85	0.64	0.85	0.85	0.85	0.85	0.85	1.06
135.0	0.21	0.42	0.85	0.64	0.85	0.85	0.85	0.85	0.85
180.0	0.64	0.64	0.42	0.42	0.64	0.64	0.64	0.85	0.64
225.0	0.42	0.42	0.42	0.64	0.64	0.85	0.85	0.64	0.64
270.0	1.27	1.48	1.27	1.48	1.27	1.27	1.48	1.48	1.48
315.0	1.06	0.64	0.85	1.06	1.06	1.06	1.06	0.85	0.85
360.0	0.64	0.64	0.85	0.85	0.85	1.06	0.85	1.06	0.85
C/ $\gamma$ (°)	180.0								
0.0	0.82								
45.0	0.82								
90.0	0.82								
135.0	0.82								
180.0	0.82								
225.0	0.82								
270.0	0.82								
315.0	0.82								
360.0	0.82								