



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

LumCAT: LE4R-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.0890

Lamp flux(lm): -1.0

Power (W): 10.18

Number of Lamps: 1

PF: 0.9478

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 781.94, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 76.80

Central intensity(cd): 283.140, Maximum intensity(cd): 283.258

Angle of maximum intensity: C=180.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=110.6

[C90/270]Total=110.2

Field angle(10%Imax): [C0/180]Total=157.5

[C90/270]Total=157.1

Maximum s/h(1/2): C0\_180=1.28 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(%): 0.46%

Down flux rate of LUM(%): 99.54%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 80.441%

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

Date:  
Humidity(%): 58%

Operator: Tester

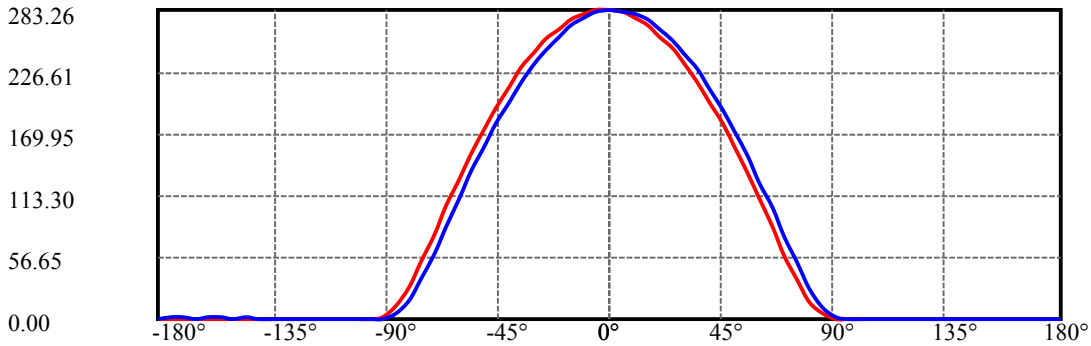
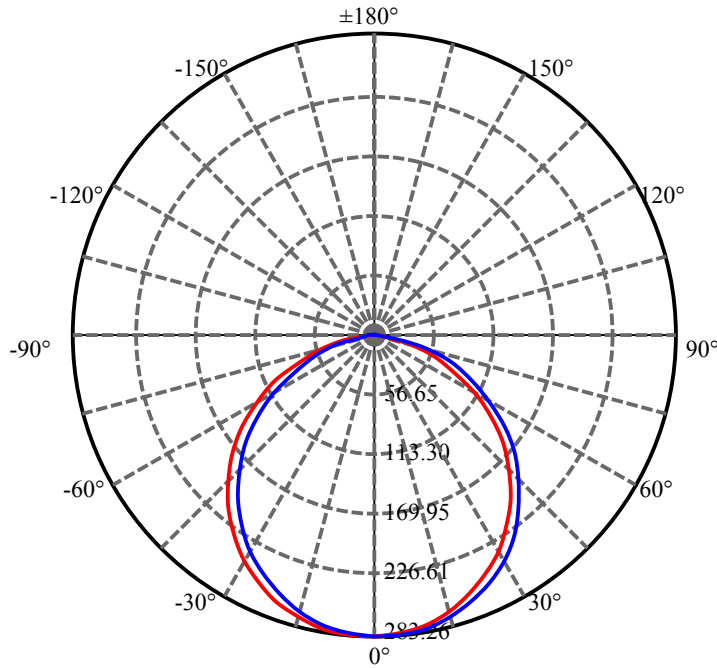
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	283.140	0.000	0	0.00%	0.00%
5.0	281.855	6.754	6.754	0.00%	0.86%
10.0	278.151	20.033	26.788	0.00%	3.43%
15.0	271.800	32.623	59.41	0.00%	7.60%
20.0	262.829	44.061	103.471	0.00%	13.23%
25.0	251.873	53.983	157.454	0.00%	20.14%
30.0	238.615	62.072	219.526	0.00%	28.07%
35.0	223.029	67.980	287.506	0.00%	36.77%
40.0	205.457	71.490	358.995	0.00%	45.91%
45.0	185.954	72.473	431.468	0.00%	55.18%
50.0	164.493	70.813	502.281	0.00%	64.24%
55.0	142.132	66.670	568.952	0.00%	72.76%
60.0	117.654	60.049	629	0.00%	80.44%
65.0	92.461	51.079	680.08	0.00%	86.97%
70.0	67.030	40.384	720.464	0.00%	92.14%
75.0	43.531	28.899	749.363	0.00%	95.83%
80.0	22.996	17.801	767.164	0.00%	98.11%
85.0	8.442	8.542	775.706	0.00%	99.20%
90.0	1.323	2.674	778.38	0.00%	99.54%
95.0	0.371	0.464	778.843	0.00%	99.60%
100.0	0.370	0.201	779.045	0.00%	99.63%
105.0	0.318	0.184	779.229	0.00%	99.65%
110.0	0.371	0.180	779.409	0.00%	99.68%
115.0	0.371	0.188	779.596	0.00%	99.70%
120.0	0.556	0.225	779.821	0.00%	99.73%
125.0	0.529	0.251	780.072	0.00%	99.76%
130.0	0.582	0.242	780.314	0.00%	99.79%
135.0	0.662	0.251	780.565	0.00%	99.82%
140.0	0.609	0.235	780.8	0.00%	99.85%
145.0	0.715	0.221	781.021	0.00%	99.88%
150.0	0.768	0.218	781.239	0.00%	99.91%
155.0	0.874	0.208	781.447	0.00%	99.94%
160.0	0.821	0.178	781.625	0.00%	99.96%
165.0	0.847	0.137	781.762	0.00%	99.98%
170.0	0.821	0.099	781.861	0.00%	99.99%
175.0	0.874	0.061	781.922	0.00%	100.00%
180.0	0.823	0.020	781.942	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	219.53	N.A.	28.07%
0-40	359.00	N.A.	45.91%
0-60	629.00	N.A.	80.44%
0-90	778.38	N.A.	99.54%
0-120	779.82	N.A.	99.73%
0-180	781.94	N.A.	100.00%
60-90	149.38	N.A.	19.10%
90-120	1.44	N.A.	0.18%
90-130	1.93	N.A.	0.25%
90-150	2.86	N.A.	0.37%
90-180	3.54	N.A.	0.45%
0-59.71	625.55	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	26.79
10-20	76.68
20-30	116.05
30-40	139.47
40-50	143.29
50-60	126.72
60-70	91.46
70-80	46.70
80-90	11.22
90-100	0.67
100-110	0.36
110-120	0.41
120-130	0.49
130-140	0.49
140-150	0.44
150-160	0.39
160-170	0.24
170-180	0.06

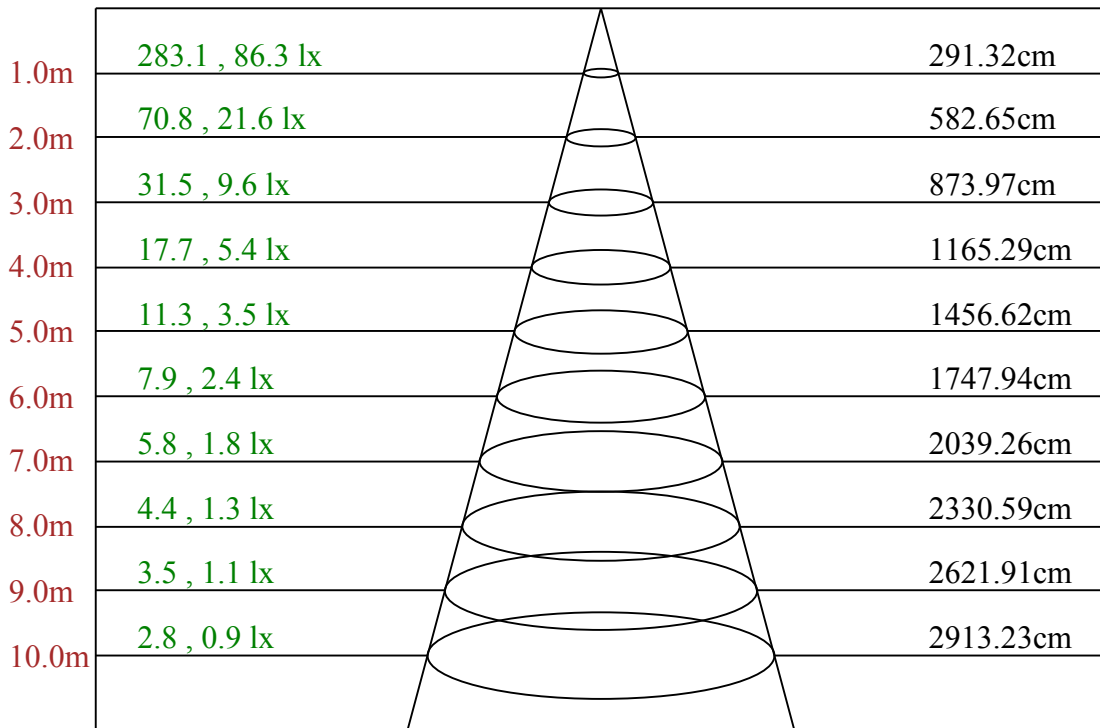


C0/C180: —

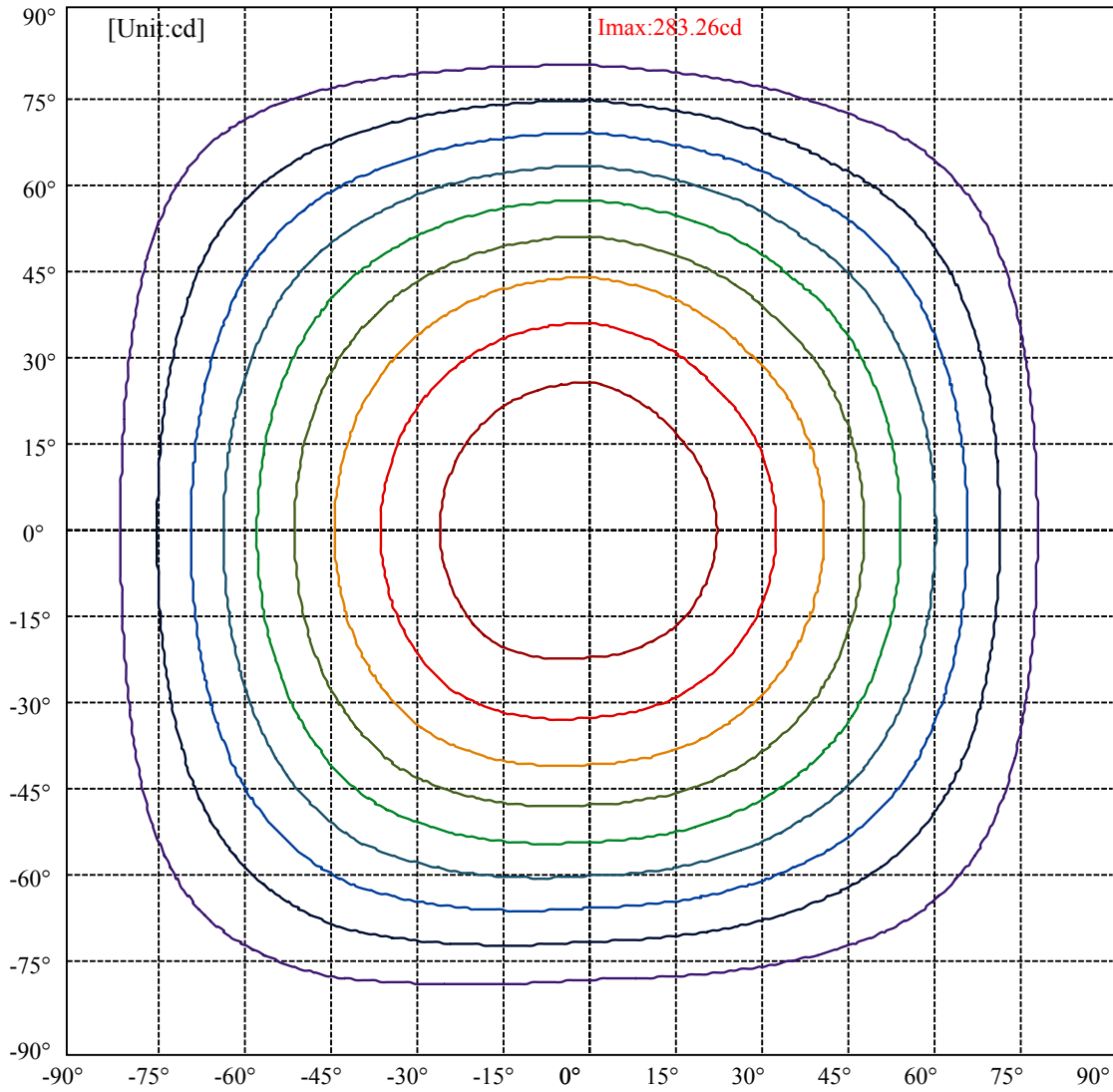
C90/C270: —

Field angle(10%Imax):C0/180Left:80.6 Right:76.9  
:C90/270Left:77.2 Right:79.9

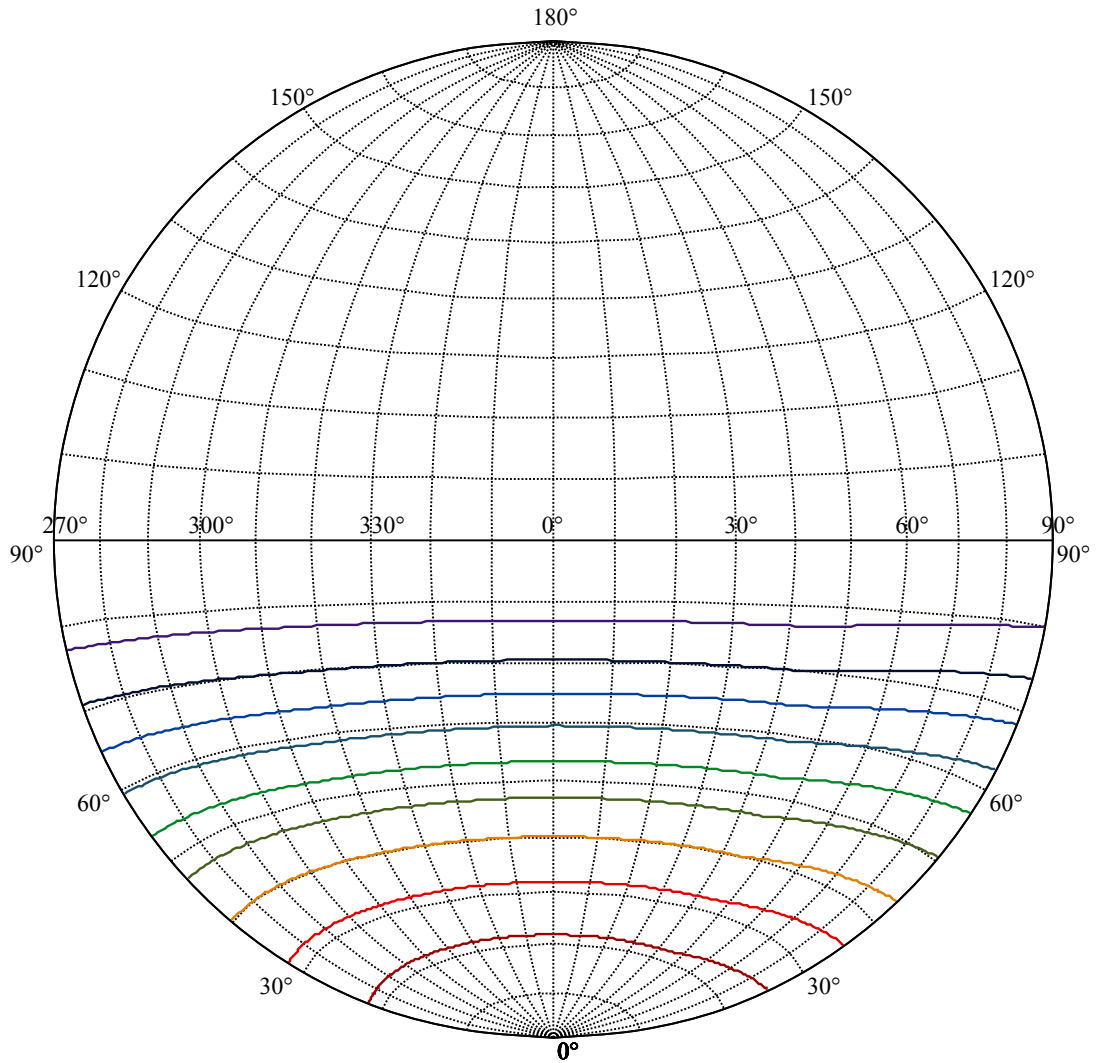
Beam Angle(50%Imax):C0/180Left:57.2 Right:53.4  
:C90/270Left:53.5 Right:56.7



Max , Ave      Beam angle of C180 plane 111.06



(10%Imax)	28.3258	—
(20%Imax)	56.6516	—
(30%Imax)	84.9774	—
(40%Imax)	113.303	—
(50%Imax)	141.629	—
(60%Imax)	169.955	—
(70%Imax)	198.281	—
(80%Imax)	226.606	—
(90%Imax)	254.932	—



House

[Unit:cd]

Road

**Imax:283.26**

(10%Imax) 28.3258	—
(20%Imax) 56.6516	—
(30%Imax) 84.9774	—
(40%Imax) 113.303	—
(50%Imax) 141.629	—
(60%Imax) 169.955	—
(70%Imax) 198.281	—
(80%Imax) 226.606	—
(90%Imax) 254.932	—

## LE4R-5CCT-4000K

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## 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	283.14	281.14	276.48	269.07	259.34	247.69	233.30	216.57	199.42
45.0	283.14	280.72	276.70	269.29	259.34	247.27	233.72	217.00	198.37
90.0	283.14	282.20	279.45	274.16	266.32	255.95	243.67	228.85	211.91
135.0	283.14	282.62	280.29	275.21	266.53	256.58	243.88	229.06	211.49
180.0	283.14	283.26	279.87	274.37	266.53	257.01	244.31	229.91	212.97
225.0	283.14	283.05	279.87	274.58	266.11	255.74	243.88	229.27	211.91
270.0	283.14	280.93	276.27	268.86	259.12	247.06	233.51	217.21	199.21
315.0	283.14	280.93	276.27	268.86	259.34	247.69	232.66	216.36	198.37
360.0	283.14	281.14	276.48	269.07	259.34	247.69	233.30	216.57	199.42
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	179.31	157.51	134.43	110.72	84.47	58.85	35.57	16.51	4.45
45.0	178.89	156.45	134.22	108.82	83.41	56.95	35.35	16.51	4.02
90.0	192.44	172.11	149.89	125.75	101.83	76.21	51.02	27.73	11.01
135.0	192.65	171.06	149.04	123.63	99.29	73.46	48.48	28.16	11.43
180.0	194.13	173.38	152.00	128.08	103.10	77.48	53.35	30.49	12.49
225.0	192.86	172.11	150.52	126.81	102.04	77.27	52.71	30.27	13.13
270.0	179.10	157.93	134.85	110.30	84.47	59.70	36.84	17.36	5.50
315.0	178.25	155.39	132.10	107.12	81.08	56.31	34.93	16.94	5.50
360.0	179.31	157.51	134.43	110.72	84.47	58.85	35.57	16.51	4.45
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.64	0.64	0.42	0.64	0.64	0.64	0.85	0.85
45.0	0.64	0.64	0.64	0.64	0.42	0.64	0.85	0.64	0.85
90.0	2.33	0.00	0.21	0.21	0.21	0.00	0.21	0.21	0.42
135.0	1.91	0.21	0.21	0.00	0.00	0.00	0.42	0.42	0.42
180.0	1.27	0.21	0.42	0.00	0.00	0.00	0.42	0.21	0.21
225.0	2.54	0.21	0.00	0.21	0.21	0.21	0.42	0.21	0.42
270.0	0.64	0.64	0.42	0.64	0.85	0.85	0.85	0.85	0.64
315.0	0.85	0.42	0.42	0.42	0.64	0.64	0.64	0.85	0.85
360.0	0.42	0.64	0.64	0.42	0.64	0.64	0.64	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	0.85	0.85	0.85	0.85	0.85	0.64	0.85	0.85	0.85
45.0	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
90.0	0.42	0.21	0.42	0.64	0.85	0.85	0.85	0.64	0.85
135.0	0.42	0.42	0.64	0.64	0.64	0.85	0.85	0.85	0.85
180.0	0.64	0.64	0.64	0.85	0.85	0.64	0.85	0.85	0.85
225.0	0.42	0.42	0.42	0.42	0.85	0.64	0.64	0.64	0.85
270.0	0.85	0.85	1.06	0.85	1.06	1.06	0.85	1.06	1.06
315.0	0.85	0.64	0.85	1.06	1.06	1.06	1.06	0.85	0.85
360.0	0.85	0.85	0.85	0.85	0.85	0.64	0.85	0.85	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								