



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

LumCAT: LE8R-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.15

LampCAT:

Current(A): 0.1540

Lamp flux(lm): -1.0

Power (W): 16.89

Number of Lamps: 1

PF: 0.9102

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1426.77, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 84.47

Central intensity(cd): 491.597, Maximum intensity(cd): 491.597

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

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

[C90/270]Total=113.3

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

[C90/270]Total=162.9

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(%): 0.31%

Down flux rate of LUM(%): 99.69%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 78.035%

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

Date:  
Humidity(%): 58%

Operator: Sam

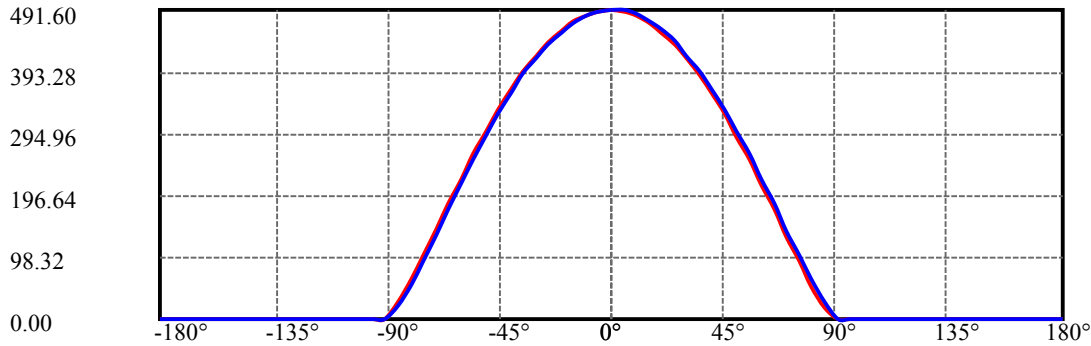
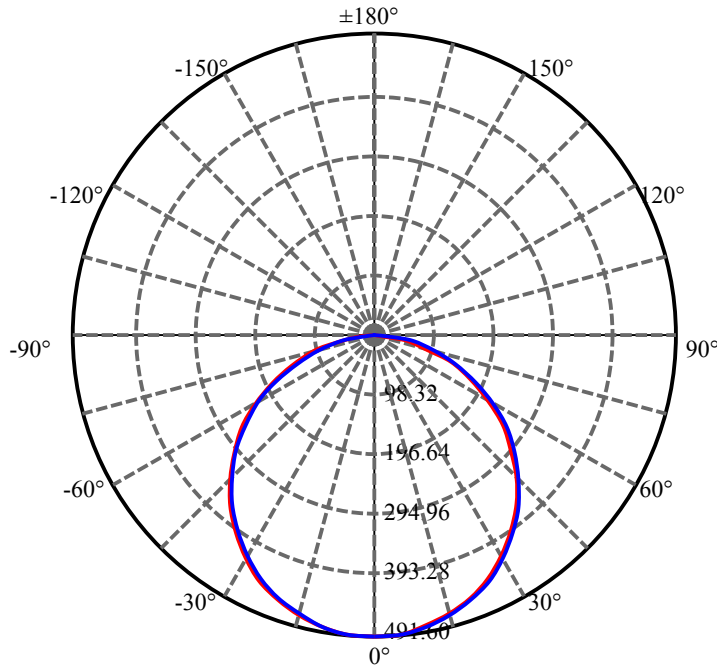
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	491.597	0.000	0	0.00%	0.00%
5.0	489.377	11.727	11.727	0.00%	0.82%
10.0	482.973	34.784	46.511	0.00%	3.26%
15.0	472.388	56.671	103.183	0.00%	7.23%
20.0	457.833	76.663	179.846	0.00%	12.61%
25.0	439.574	94.121	273.967	0.00%	19.20%
30.0	417.001	108.400	382.368	0.00%	26.80%
35.0	391.861	119.111	501.478	0.00%	35.15%
40.0	362.911	125.928	627.406	0.00%	43.97%
45.0	330.653	128.419	755.825	0.00%	52.97%
50.0	295.696	126.563	882.388	0.00%	61.85%
55.0	258.621	120.527	1002.915	0.00%	70.29%
60.0	219.271	110.463	1113.378	0.00%	78.03%
65.0	178.915	96.800	1210.178	0.00%	84.82%
70.0	137.739	80.179	1290.357	0.00%	90.44%
75.0	96.351	61.187	1351.544	0.00%	94.73%
80.0	58.695	41.486	1393.03	0.00%	97.64%
85.0	24.160	22.514	1415.544	0.00%	99.21%
90.0	0.582	6.775	1422.318	0.00%	99.69%
95.0	0.344	0.254	1422.572	0.00%	99.71%
100.0	0.291	0.173	1422.744	0.00%	99.72%
105.0	0.450	0.198	1422.943	0.00%	99.73%
110.0	0.476	0.242	1423.185	0.00%	99.75%
115.0	0.609	0.275	1423.459	0.00%	99.77%
120.0	0.715	0.322	1423.781	0.00%	99.79%
125.0	0.794	0.349	1424.13	0.00%	99.81%
130.0	0.847	0.357	1424.487	0.00%	99.84%
135.0	0.953	0.364	1424.85	0.00%	99.87%
140.0	0.900	0.343	1425.193	0.00%	99.89%
145.0	0.953	0.309	1425.502	0.00%	99.91%
150.0	1.085	0.300	1425.803	0.00%	99.93%
155.0	1.138	0.281	1426.084	0.00%	99.95%
160.0	1.165	0.241	1426.325	0.00%	99.97%
165.0	1.138	0.190	1426.515	0.00%	99.98%
170.0	1.191	0.138	1426.653	0.00%	99.99%
175.0	1.217	0.086	1426.739	0.00%	100.00%
180.0	1.317	0.030	1426.77	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	382.37	N.A.	26.80%
0-40	627.41	N.A.	43.97%
0-60	1113.38	N.A.	78.03%
0-90	1422.32	N.A.	99.69%
0-120	1423.78	N.A.	99.79%
0-180	1426.77	N.A.	100.00%
60-90	308.94	N.A.	21.65%
90-120	1.46	N.A.	0.10%
90-130	2.17	N.A.	0.15%
90-150	3.48	N.A.	0.24%
90-180	4.42	N.A.	0.31%
0-61.45	1141.42	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	46.51
10-20	133.33
20-30	202.52
30-40	245.04
40-50	254.98
50-60	230.99
60-70	176.98
70-80	102.67
80-90	29.29
90-100	0.43
100-110	0.44
110-120	0.60
120-130	0.71
130-140	0.71
140-150	0.61
150-160	0.52
160-170	0.33
170-180	0.09

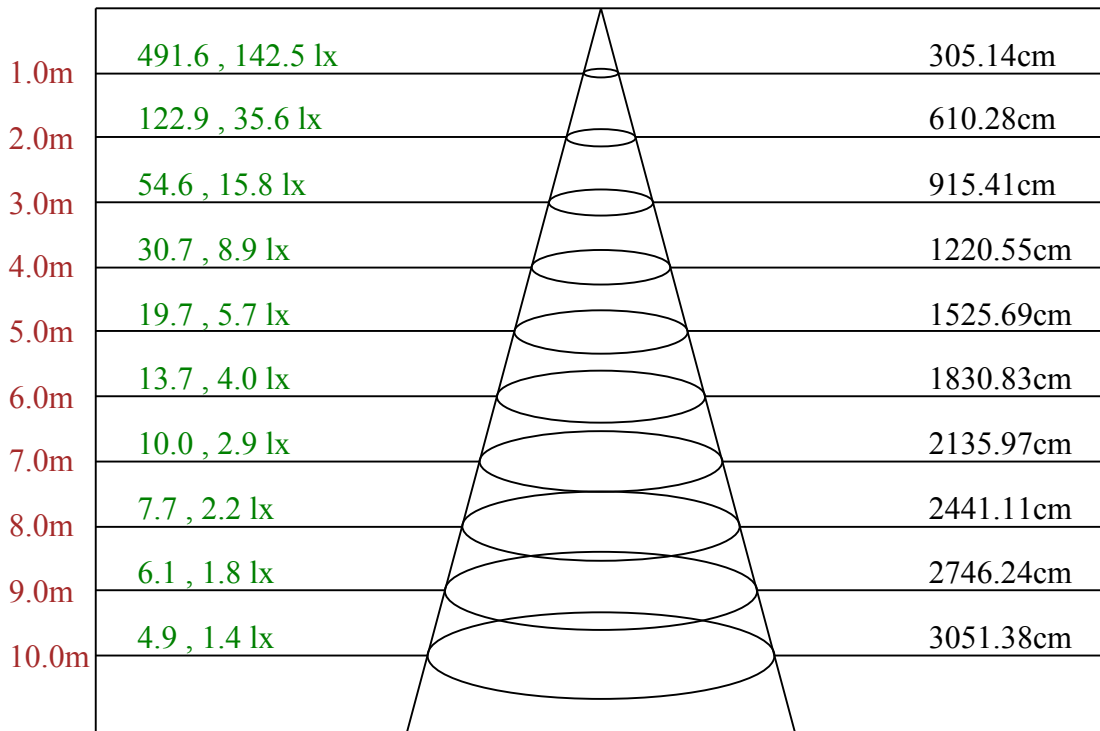


C0/C180: —

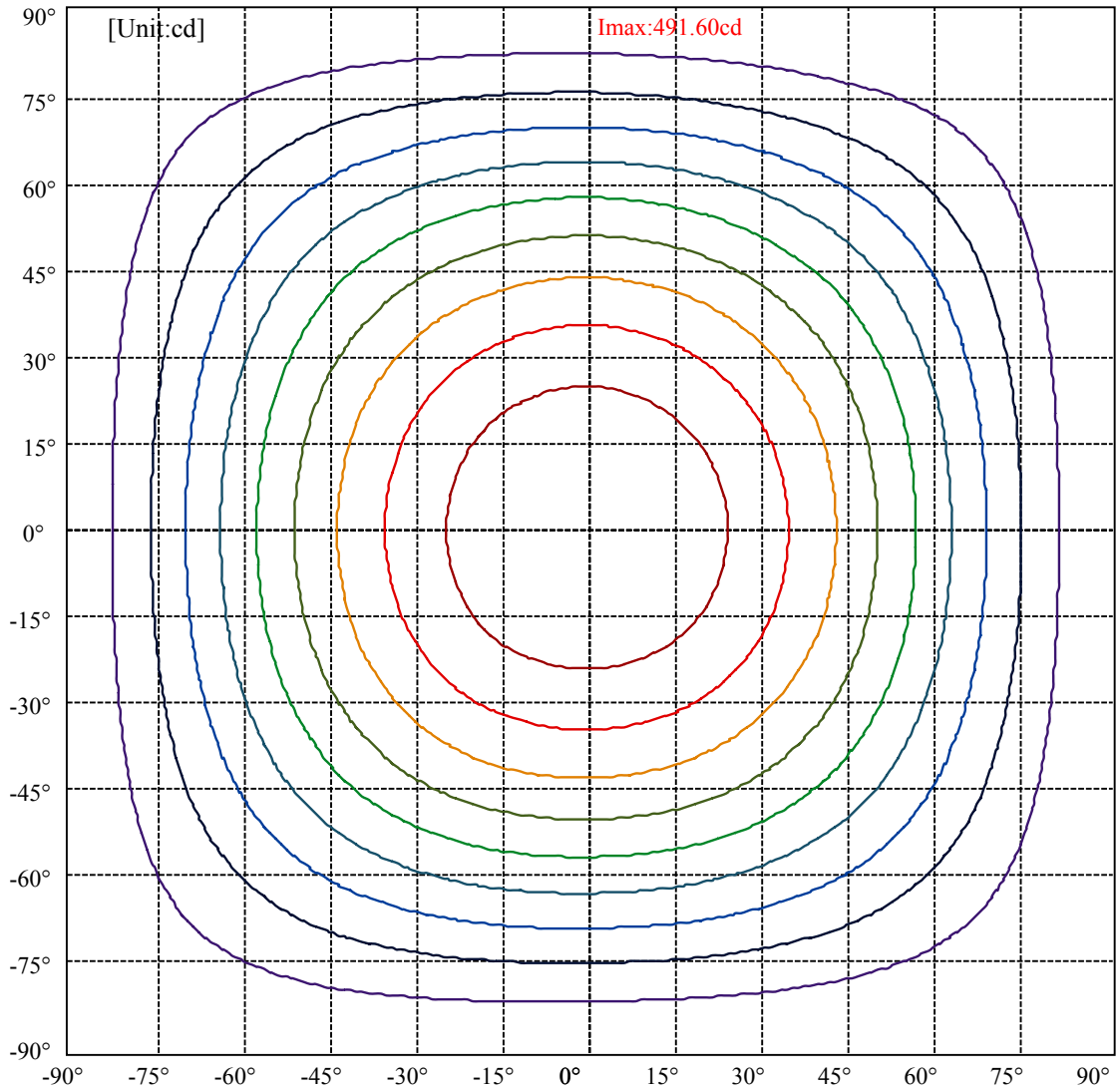
C90/C270: —

Field angle(10%Imax):C0/180Left:82.1 Right:80.6  
:C90/270Left:80.9 Right:82.0

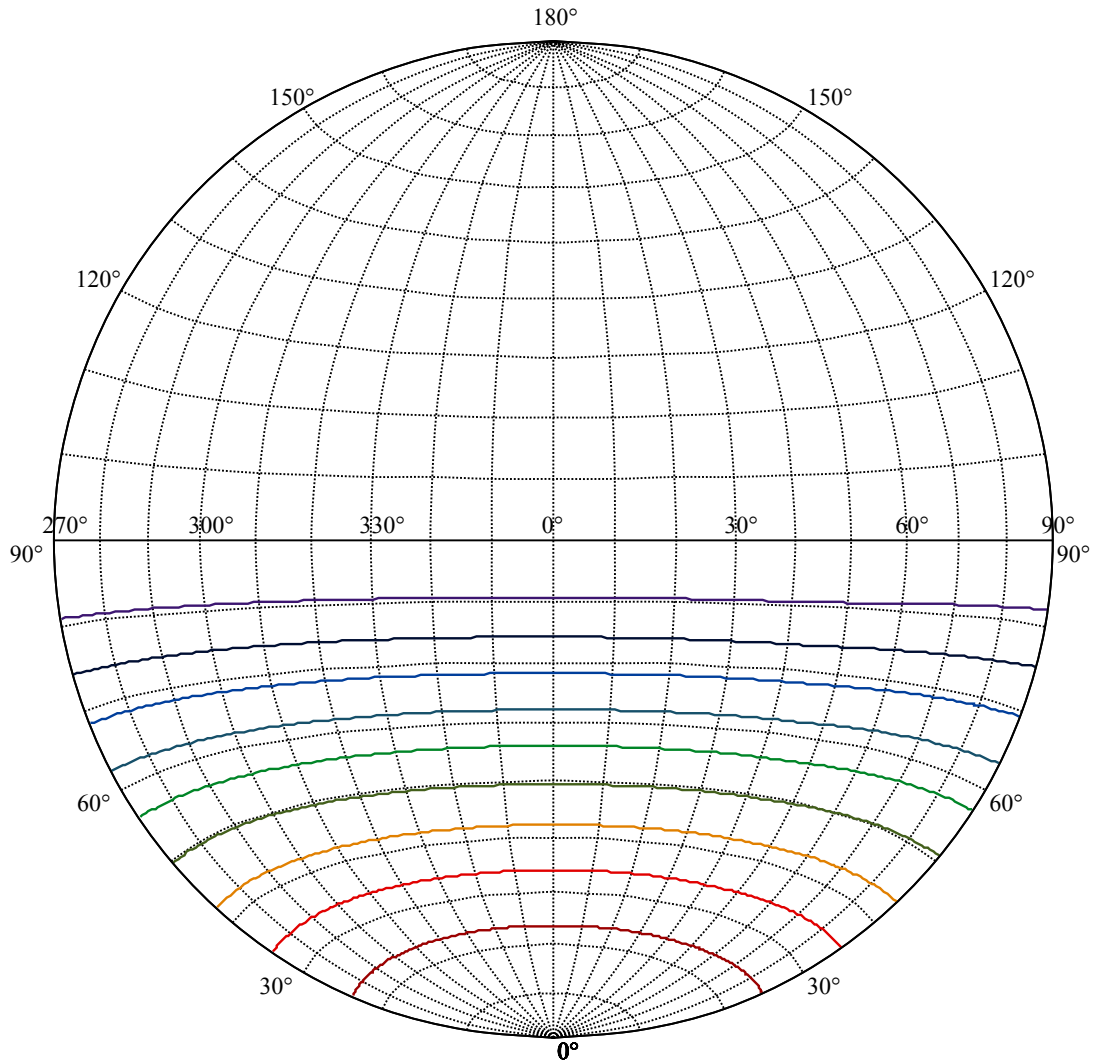
Beam Angle(50%Imax):C0/180Left:57.2 Right:56.1  
:C90/270Left:56.1 Right:57.2



Max , Ave      Beam angle of C0 plane 113.52



(10%Imax) 49.1597	—
(20%Imax) 98.3194	—
(30%Imax) 147.479	—
(40%Imax) 196.639	—
(50%Imax) 245.798	—
(60%Imax) 294.958	—
(70%Imax) 344.118	—
(80%Imax) 393.278	—
(90%Imax) 442.437	—



House

[Unit:cd]

Road

<b>I<sub>max</sub>:491.60</b>	—
(10%I <sub>max</sub> ) 49.1597	—
(20%I <sub>max</sub> ) 98.3194	—
(30%I <sub>max</sub> ) 147.479	—
(40%I <sub>max</sub> ) 196.639	—
(50%I <sub>max</sub> ) 245.798	—
(60%I <sub>max</sub> ) 294.958	—
(70%I <sub>max</sub> ) 344.118	—
(80%I <sub>max</sub> ) 393.278	—
(90%I <sub>max</sub> ) 442.437	—

## LE8R-5CCT-3000K

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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	491.60	488.82	481.62	471.25	456.22	437.59	415.15	388.90	359.47
45.0	491.60	489.03	482.47	471.25	456.64	438.01	415.36	389.32	360.32
90.0	491.60	490.52	484.38	474.00	460.03	441.82	419.59	394.83	366.25
135.0	491.60	489.24	483.74	473.58	459.61	441.61	419.38	395.25	365.82
180.0	491.60	489.67	483.95	473.79	459.39	440.98	419.38	394.40	365.61
225.0	491.60	489.88	483.74	473.16	458.55	441.19	418.75	393.56	366.46
270.0	491.60	489.03	482.47	471.46	456.43	437.59	414.94	389.32	360.53
315.0	491.60	488.82	481.41	470.62	455.80	437.80	413.46	389.32	358.84
360.0	491.60	488.82	481.62	471.25	456.22	437.59	415.15	388.90	359.47
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	326.66	290.67	254.26	214.24	172.96	132.74	91.67	53.35	19.69
45.0	327.93	292.36	254.47	215.09	174.23	132.74	89.76	52.71	20.54
90.0	334.28	299.56	262.51	224.19	182.91	141.21	100.14	63.09	27.52
135.0	334.07	298.92	263.78	224.41	183.76	143.53	102.68	64.15	28.16
180.0	333.64	300.19	263.15	223.98	184.39	142.69	101.19	63.93	28.37
225.0	333.43	299.14	261.88	222.71	182.91	141.42	100.14	62.66	27.10
270.0	327.72	292.57	254.47	215.94	175.29	134.01	92.51	55.25	21.59
315.0	327.50	292.15	254.47	213.61	174.87	133.58	92.73	54.41	20.32
360.0	326.66	290.67	254.26	214.24	172.96	132.74	91.67	53.35	19.69
C/ $\gamma$ (°)	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	0.85	0.64	0.85	0.64	1.06	0.85
45.0	0.42	0.42	0.42	0.85	0.64	0.85	1.06	0.64	1.06
90.0	0.42	0.21	0.00	0.21	0.42	0.21	0.64	0.64	0.64
135.0	0.64	0.21	0.00	0.00	0.21	0.42	0.42	0.64	0.85
180.0	0.64	0.42	0.21	0.21	0.00	0.21	0.64	0.64	0.64
225.0	0.42	0.00	0.00	0.21	0.42	0.42	0.42	0.42	0.64
270.0	0.64	0.64	0.64	0.64	0.85	1.06	1.06	1.27	1.06
315.0	0.85	0.42	0.42	0.64	0.64	0.85	0.85	1.06	1.06
360.0	0.64	0.42	0.64	0.85	0.64	0.85	0.64	1.06	0.85
C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.27	0.85	1.06	1.06	1.27	1.27	1.06	1.27	1.27
45.0	1.06	1.27	1.06	1.27	1.27	1.27	1.27	1.27	1.27
90.0	0.85	0.85	1.06	0.85	1.27	1.27	1.27	1.27	1.27
135.0	0.64	0.64	0.64	1.06	1.06	1.06	1.06	1.06	1.06
180.0	0.85	0.64	1.06	0.85	1.27	1.06	1.06	1.06	1.06
225.0	0.85	0.85	0.64	1.06	0.85	1.06	0.85	1.06	1.27
270.0	1.06	0.85	1.06	1.27	1.06	1.27	1.27	1.27	1.27
315.0	1.06	1.27	1.06	1.27	1.06	1.06	1.27	1.27	1.27
360.0	1.27	0.85	1.06	1.06	1.27	1.27	1.06	1.27	1.27
C/ $\gamma$ (°)	180.0								
0.0	1.32								
45.0	1.32								
90.0	1.32								
135.0	1.32								
180.0	1.32								
225.0	1.32								
270.0	1.32								
315.0	1.32								
360.0	1.32								

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

Date:  
 Humidity(%): 58%

Operator: Sam