



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

LumCAT: LL6RR-5CCT-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.05

LampCAT:

Current(A): 0.1400

Lamp flux(lm): -1.0

Power (W): 16.58

Number of Lamps: 1

PF: 0.9876

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1227.49, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 74.02

Central intensity(cd): 488.304, Maximum intensity(cd): 493.902

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

Beam Angle(50%Imax): [C0/180]Total=102.1

[C90/270]Total=102.4

Field angle(10%Imax): [C0/180]Total=153.2

[C90/270]Total=153.2

Maximum s/h(1/2): C0\_180=1.21 C90\_270=1.25

Maximum s/h(1/4): C0\_180=1.32 C90\_270=1.35

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 : 82.598%

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

Date:  
Humidity(%): 58%

Operator: Sam

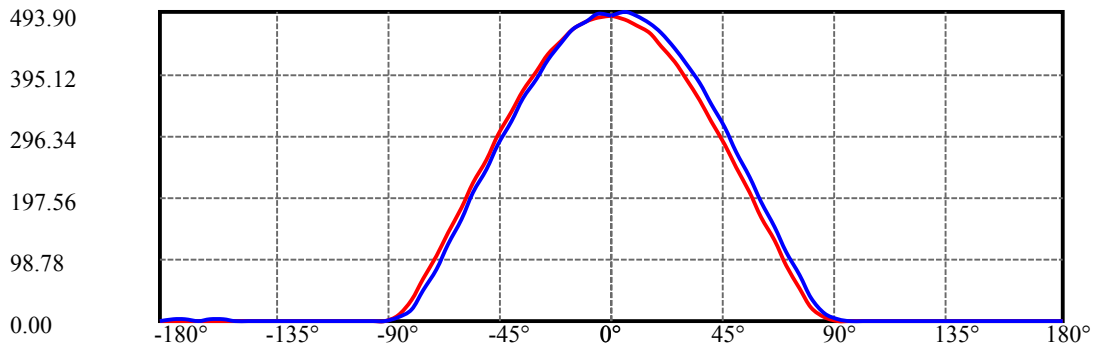
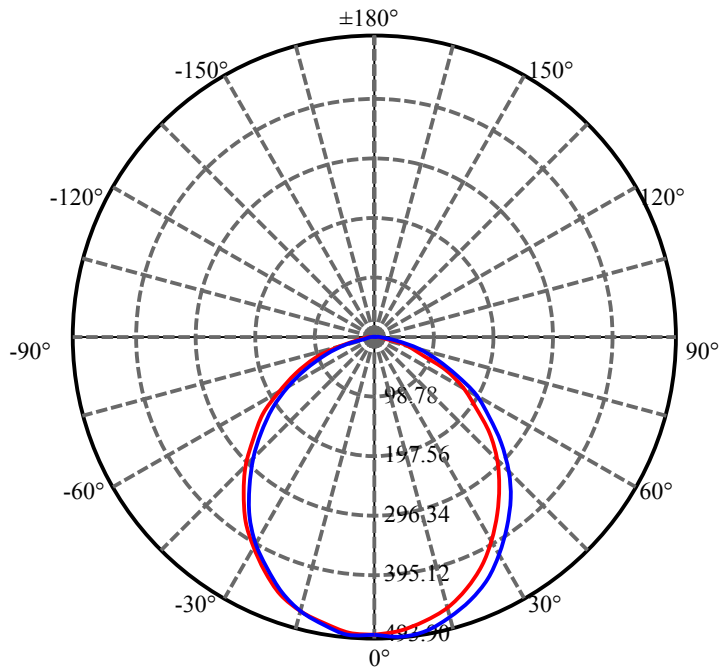
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	488.304	0.000	0	0.00%	0.00%
5.0	485.778	11.645	11.645	0.00%	0.95%
10.0	477.680	34.466	46.111	0.00%	3.76%
15.0	464.290	55.877	101.988	0.00%	8.31%
20.0	445.845	75.008	176.996	0.00%	14.42%
25.0	421.738	90.993	267.989	0.00%	21.83%
30.0	393.820	103.209	371.199	0.00%	30.24%
35.0	362.064	111.309	482.508	0.00%	39.31%
40.0	328.007	115.133	597.641	0.00%	48.69%
45.0	291.673	114.739	712.38	0.00%	58.04%
50.0	253.117	110.083	822.463	0.00%	67.00%
55.0	214.005	101.568	924.03	0.00%	75.28%
60.0	174.734	89.856	1013.886	0.00%	82.60%
65.0	135.014	75.300	1089.186	0.00%	88.73%
70.0	96.060	58.509	1147.696	0.00%	93.50%
75.0	59.647	40.699	1188.395	0.00%	96.82%
80.0	27.230	23.246	1211.641	0.00%	98.71%
85.0	7.965	9.563	1221.204	0.00%	99.49%
90.0	0.873	2.420	1223.624	0.00%	99.69%
95.0	0.238	0.304	1223.929	0.00%	99.71%
100.0	0.265	0.137	1224.065	0.00%	99.72%
105.0	0.291	0.149	1224.214	0.00%	99.73%
110.0	0.371	0.173	1224.387	0.00%	99.75%
115.0	0.397	0.194	1224.581	0.00%	99.76%
120.0	0.450	0.206	1224.787	0.00%	99.78%
125.0	0.609	0.245	1225.032	0.00%	99.80%
130.0	0.688	0.282	1225.314	0.00%	99.82%
135.0	0.714	0.283	1225.597	0.00%	99.85%
140.0	0.900	0.299	1225.896	0.00%	99.87%
145.0	1.059	0.327	1226.223	0.00%	99.90%
150.0	0.953	0.296	1226.519	0.00%	99.92%
155.0	1.138	0.265	1226.784	0.00%	99.94%
160.0	1.191	0.244	1227.028	0.00%	99.96%
165.0	1.191	0.196	1227.224	0.00%	99.98%
170.0	1.244	0.144	1227.369	0.00%	99.99%
175.0	1.244	0.089	1227.458	0.00%	100.00%
180.0	1.341	0.031	1227.488	0.00%	100.00%

## ZONAL LUMEN SUMMARY

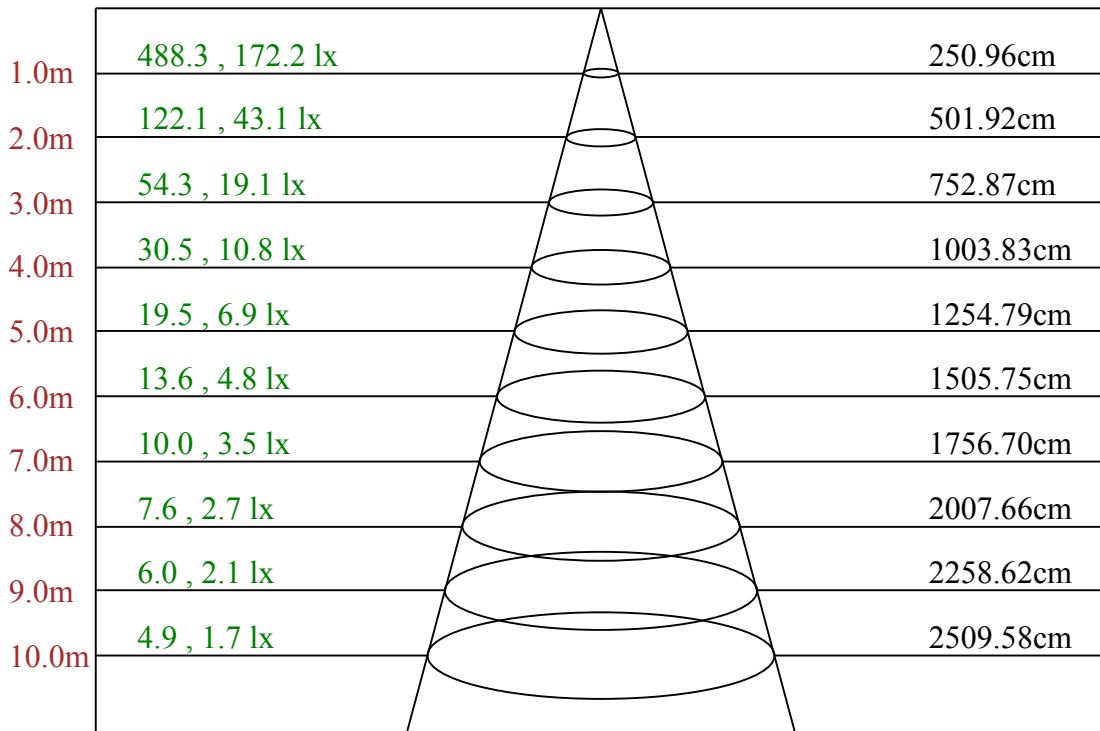
Zone	Lumens	%Lamp	%Fixt
0-30	371.20	N.A.	30.24%
0-40	597.64	N.A.	48.69%
0-60	1013.89	N.A.	82.60%
0-90	1223.62	N.A.	99.69%
0-120	1224.79	N.A.	99.78%
0-180	1227.49	N.A.	100.00%
60-90	209.74	N.A.	17.09%
90-120	1.16	N.A.	0.09%
90-130	1.69	N.A.	0.14%
90-150	2.89	N.A.	0.24%
90-180	3.83	N.A.	0.31%
0-58.23	981.99	N.A.	80.00%

## ZONAL LUMEN SUMMARY

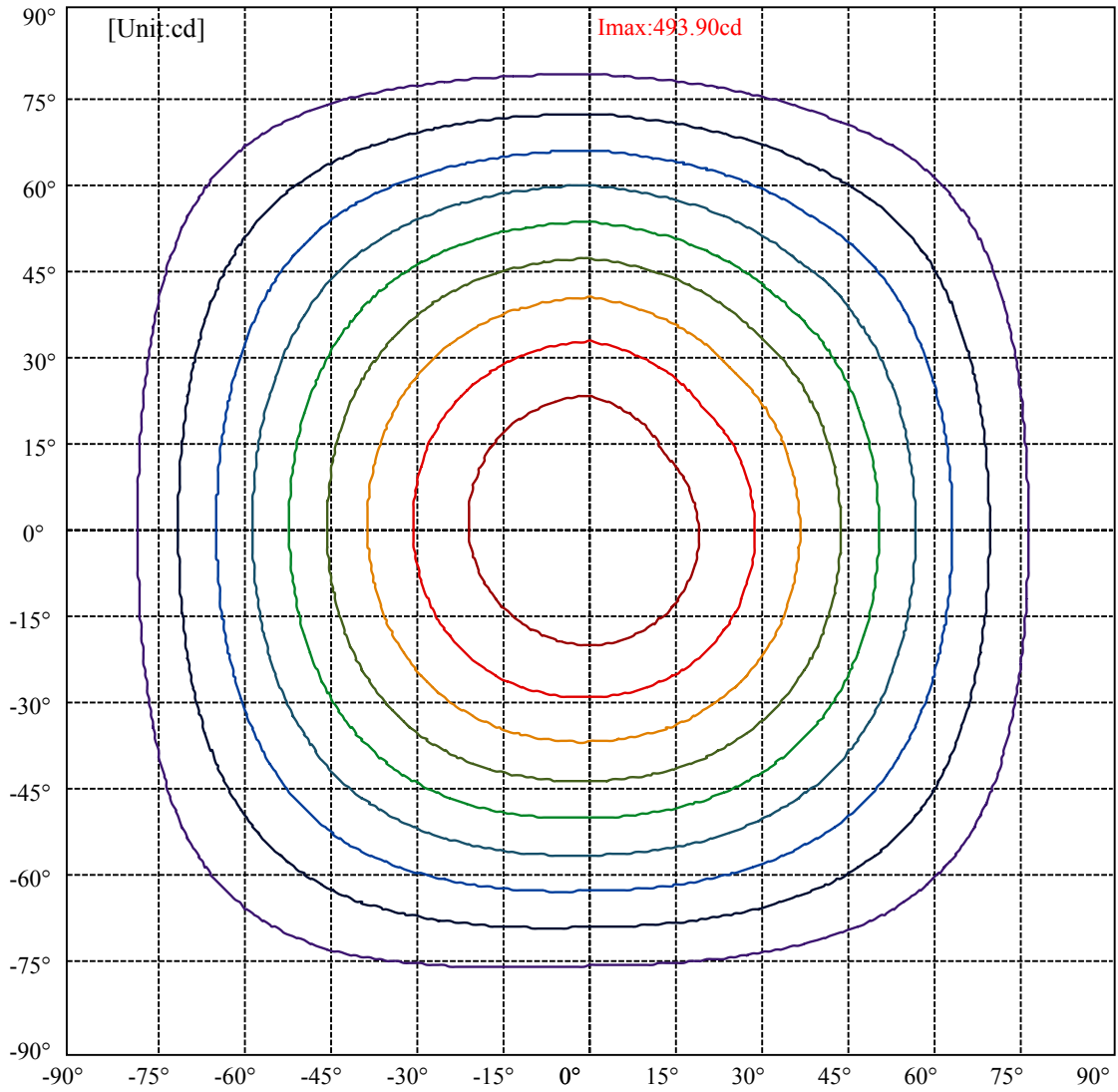
0-10	46.11
10-20	130.88
20-30	194.20
30-40	226.44
40-50	224.82
50-60	191.42
60-70	133.81
70-80	63.95
80-90	11.98
90-100	0.44
100-110	0.32
110-120	0.40
120-130	0.53
130-140	0.58
140-150	0.62
150-160	0.51
160-170	0.34
170-180	0.09



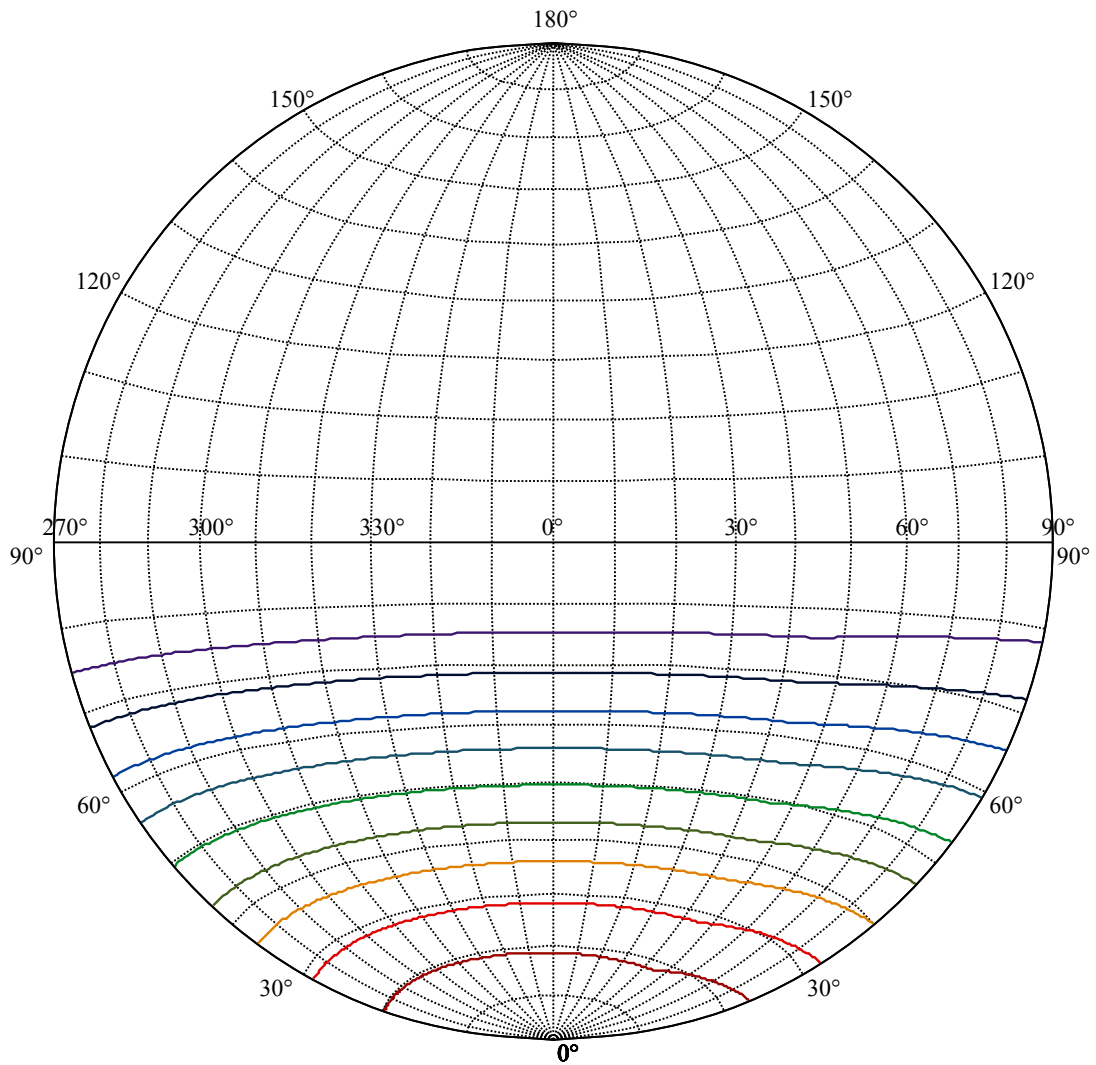
C0/C180: —  
 C90/C270: —  
 Field angle(10%Imax):C0/180Left:77.7 Right:75.5  
                                   :C90/270Left:74.8 Right:78.4  
 Beam Angle(50%Imax):C0/180Left:52.0 Right:50.1  
                                   :C90/270Left:49.4 Right:53.0



Max , Ave      Beam angle of C90 plane 102.89



(10%Imax) 49.3902	—
(20%Imax) 98.7804	—
(30%Imax) 148.171	—
(40%Imax) 197.561	—
(50%Imax) 246.951	—
(60%Imax) 296.341	—
(70%Imax) 345.731	—
(80%Imax) 395.122	—
(90%Imax) 444.512	—



House

[Unit:cd]

Road

**I<sub>max</sub>:493.90**

(10%I <sub>max</sub> ) 49.3902	
(20%I <sub>max</sub> ) 98.7804	
(30%I <sub>max</sub> ) 148.171	
(40%I <sub>max</sub> ) 197.561	
(50%I <sub>max</sub> ) 246.951	
(60%I <sub>max</sub> ) 296.341	
(70%I <sub>max</sub> ) 345.731	
(80%I <sub>max</sub> ) 395.122	
(90%I <sub>max</sub> ) 444.512	

LL6RR-5CCT-2700K

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	488.30	482.26	473.16	458.76	439.71	414.09	386.36	353.54	318.61
45.0	488.30	478.87	470.40	456.85	437.80	413.03	385.30	353.54	319.46
90.0	488.30	493.90	487.76	475.91	458.76	436.11	410.49	378.95	345.71
135.0	488.30	489.46	482.89	470.62	453.89	431.66	404.35	372.81	339.78
180.0	488.30	485.01	477.39	465.32	448.17	425.10	397.37	367.52	333.64
225.0	488.30	480.35	473.58	460.67	443.09	420.02	393.13	361.80	327.93
270.0	488.30	490.09	479.93	464.90	443.73	417.90	387.42	355.45	319.67
315.0	488.30	486.28	476.33	461.30	441.61	416.00	386.15	352.91	319.25
360.0	488.30	482.26	473.16	458.76	439.71	414.09	386.36	353.54	318.61
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	283.26	244.73	205.35	165.98	127.66	88.49	51.66	20.32	6.14
45.0	282.84	243.46	204.72	166.61	127.66	88.07	52.71	21.81	6.56
90.0	309.30	270.56	230.76	191.38	150.31	110.30	73.67	37.90	10.80
135.0	303.79	266.32	226.73	186.72	146.08	106.91	70.71	36.63	10.59
180.0	297.23	259.12	221.02	181.22	141.21	103.73	67.11	33.45	9.95
225.0	293.42	255.31	216.15	176.98	138.88	100.56	64.36	32.60	9.10
270.0	281.78	242.61	204.08	164.07	123.42	84.26	48.06	16.94	4.87
315.0	281.78	242.82	203.23	164.92	124.90	86.16	48.90	18.21	5.72
360.0	283.26	244.73	205.35	165.98	127.66	88.49	51.66	20.32	6.14
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.21	0.42	0.64	0.64	0.64	0.64	0.64	0.85	0.85
45.0	0.42	0.64	0.42	0.64	0.64	0.64	0.85	0.85	1.06
90.0	1.69	0.00	0.00	0.00	0.21	0.21	0.00	0.64	0.42
135.0	1.69	0.21	0.00	0.00	0.00	0.00	0.21	0.00	0.21
180.0	1.06	0.00	0.00	0.00	0.00	0.42	0.21	0.42	0.42
225.0	0.64	0.00	0.00	0.21	0.21	0.21	0.00	0.42	0.42
270.0	0.64	0.42	0.64	0.42	0.85	0.85	1.06	1.06	1.06
315.0	0.64	0.21	0.42	0.42	0.42	0.21	0.64	0.64	1.06
360.0	0.21	0.42	0.64	0.64	0.64	0.64	0.64	0.85	0.85
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	1.06	1.27	0.85	1.27	1.27	1.27	1.27	1.06
45.0	1.06	1.06	1.06	1.06	1.27	1.27	1.06	1.27	1.27
90.0	0.64	0.42	0.85	1.06	0.85	1.06	1.27	1.27	1.06
135.0	0.42	0.64	1.06	0.42	0.85	1.06	0.85	1.06	1.06
180.0	0.42	0.64	0.85	0.85	0.85	1.06	1.06	1.27	1.27
225.0	0.42	0.85	1.06	0.64	1.27	1.06	1.27	1.06	1.27
270.0	1.27	1.48	1.48	1.48	1.69	1.69	1.48	1.69	1.91
315.0	0.64	1.06	0.85	1.27	1.06	1.06	1.27	1.06	1.06
360.0	0.85	1.06	1.27	0.85	1.27	1.27	1.27	1.27	1.06
C/γ(°)	180.0								
0.0	1.34								
45.0	1.34								
90.0	1.34								
135.0	1.34								
180.0	1.34								
225.0	1.34								
270.0	1.34								
315.0	1.34								
360.0	1.34								