



Shenzhen Belling Efficiency  
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Client:

LumCAT: LL4G-HO-5CCT(2700K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.120

LampCAT:

Current(A): 0.124

Lamp flux(lm): -1.0

Power (W): 14.667

Number of Lamps: 1

PF: 0.988

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1292.19, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 88.10

Central intensity(cd): 1997.085, Maximum intensity(cd): 1997.085

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

Beam Angle(50%Imax): [C0/180]Total=42.1

[C90/270]Total=40.6

Field angle(10%Imax): [C0/180]Total=76.4

[C90/270]Total=75.5

Maximum s/h(1/2): C0\_180=0.60 C90\_270=0.67

Maximum s/h(1/4): C0\_180=0.69 C90\_270=0.74

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.09%

Down flux rate of LUM(%): 99.91%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 94.932%

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

Date:  
Humidity(%): 58%

Operator: Sam

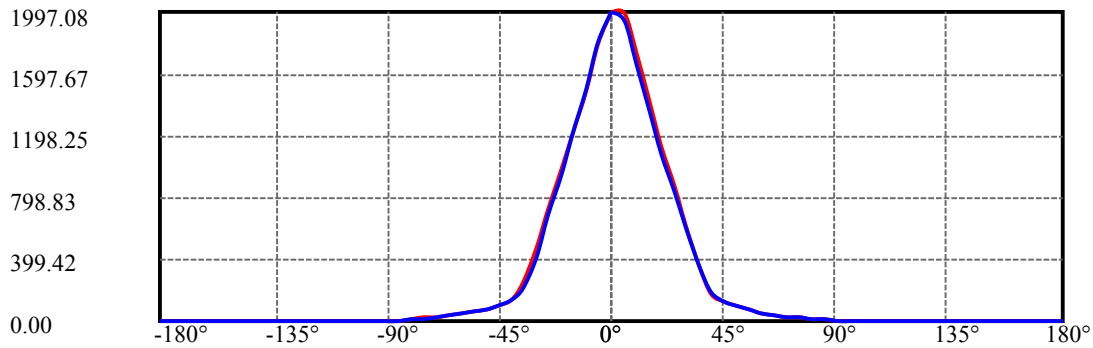
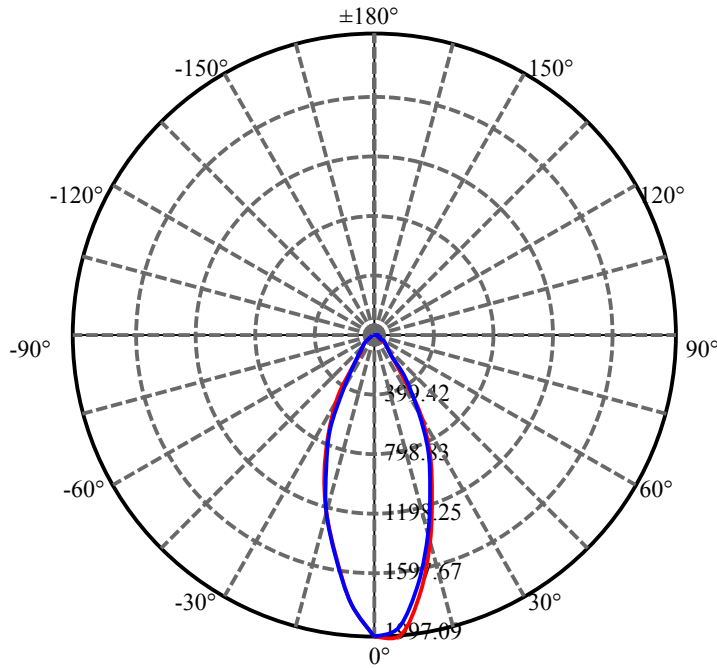
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1997.085	0.000	0	0.00%	0.00%
5.0	1868.709	46.214	46.214	0.00%	3.58%
10.0	1590.499	123.747	169.961	0.00%	13.15%
15.0	1295.419	171.191	341.152	0.00%	26.40%
20.0	1024.610	191.203	532.355	0.00%	41.20%
25.0	773.787	188.619	720.974	0.00%	55.79%
30.0	522.241	164.013	884.987	0.00%	68.49%
35.0	286.297	119.063	1004.05	0.00%	77.70%
40.0	158.521	74.215	1078.264	0.00%	83.44%
45.0	113.340	50.337	1128.602	0.00%	87.34%
50.0	85.306	40.139	1168.741	0.00%	90.45%
55.0	63.533	32.363	1201.104	0.00%	92.95%
60.0	47.209	25.598	1226.701	0.00%	94.93%
65.0	36.221	20.282	1246.983	0.00%	96.50%
70.0	27.350	16.097	1263.08	0.00%	97.75%
75.0	19.657	12.287	1275.367	0.00%	98.70%
80.0	12.623	8.637	1284.004	0.00%	99.37%
85.0	6.590	5.221	1289.224	0.00%	99.77%
90.0	0.114	1.836	1291.06	0.00%	99.91%
95.0	0.013	0.035	1291.095	0.00%	99.91%
100.0	0.013	0.007	1291.102	0.00%	99.92%
105.0	0.013	0.007	1291.109	0.00%	99.92%
110.0	0.013	0.007	1291.115	0.00%	99.92%
115.0	0.038	0.013	1291.128	0.00%	99.92%
120.0	0.051	0.022	1291.15	0.00%	99.92%
125.0	0.038	0.021	1291.17	0.00%	99.92%
130.0	0.076	0.025	1291.195	0.00%	99.92%
135.0	0.127	0.041	1291.236	0.00%	99.93%
140.0	0.178	0.056	1291.292	0.00%	99.93%
145.0	0.304	0.080	1291.373	0.00%	99.94%
150.0	0.457	0.112	1291.485	0.00%	99.95%
155.0	0.684	0.144	1291.629	0.00%	99.96%
160.0	0.913	0.167	1291.797	0.00%	99.97%
165.0	1.014	0.159	1291.955	0.00%	99.98%
170.0	1.115	0.126	1292.082	0.00%	99.99%
175.0	1.179	0.082	1292.164	0.00%	100.00%
180.0	1.360	0.030	1292.194	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	884.99	N.A.	68.49%
0-40	1078.26	N.A.	83.44%
0-60	1226.70	N.A.	94.93%
0-90	1291.06	N.A.	99.91%
0-120	1291.15	N.A.	99.92%
0-180	1292.19	N.A.	100.00%
60-90	64.36	N.A.	4.98%
90-120	0.09	N.A.	0.01%
90-130	0.13	N.A.	0.01%
90-150	0.42	N.A.	0.03%
90-180	1.10	N.A.	0.09%
0-37.00	1033.76	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	169.96
10-20	362.39
20-30	352.63
30-40	193.28
40-50	90.48
50-60	57.96
60-70	36.38
70-80	20.92
80-90	7.06
90-100	0.04
100-110	0.01
110-120	0.03
120-130	0.05
130-140	0.10
140-150	0.19
150-160	0.31
160-170	0.29
170-180	0.08

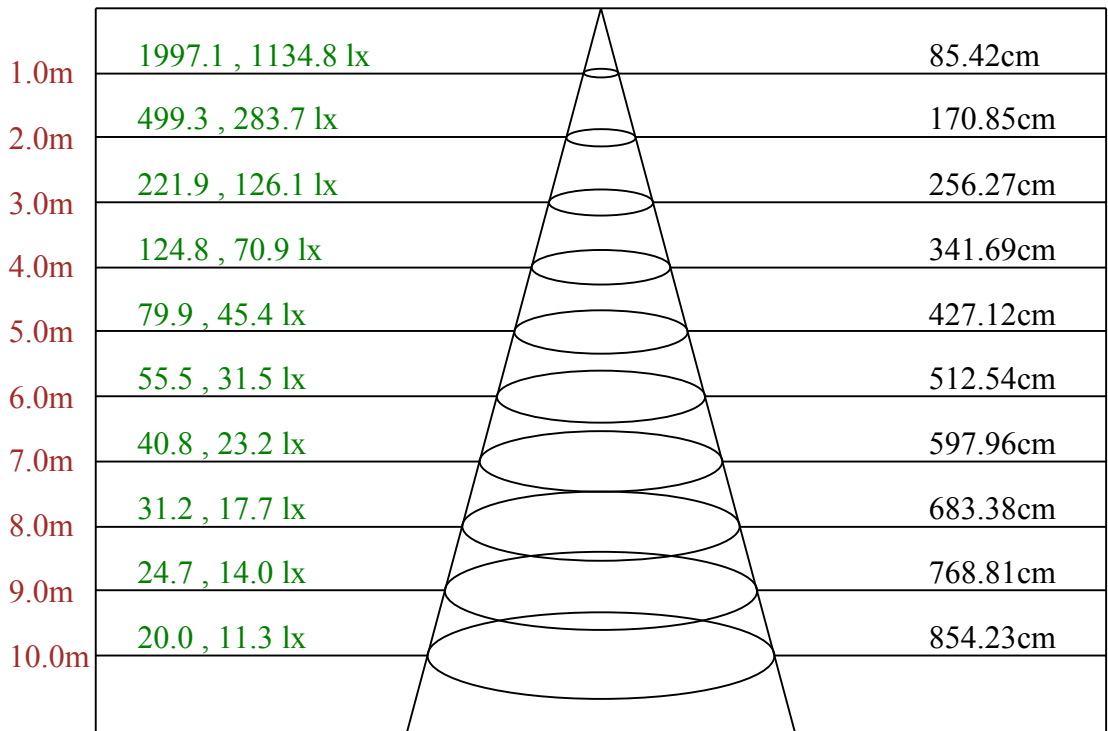


C0/C180: —

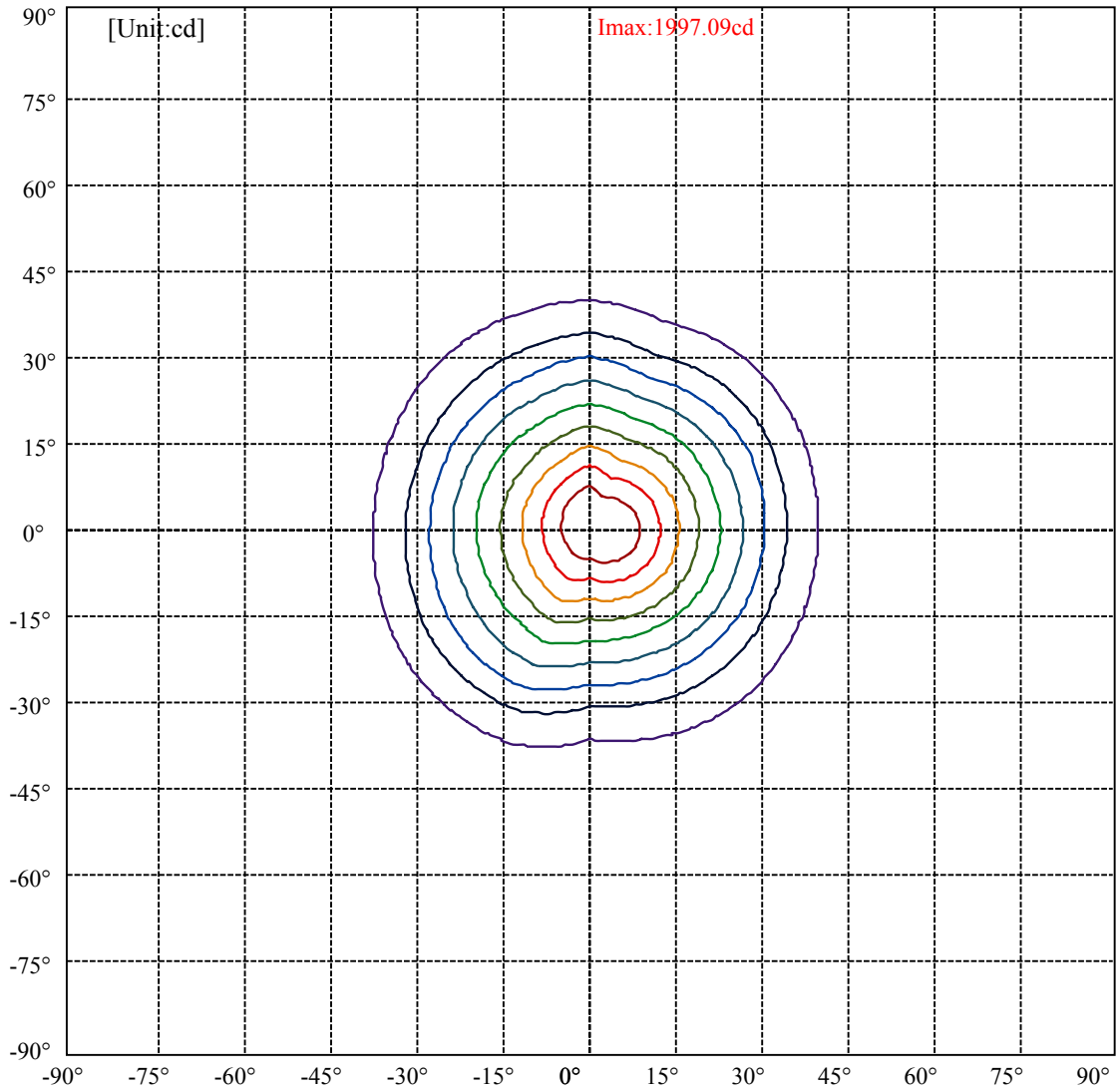
C90/C270: —

Field angle(10%Imax):C0/180Left:37.1 Right:39.3  
:C90/270Left:36.0 Right:39.5

Beam Angle(50%Imax):C0/180Left:19.5 Right:22.6  
:C90/270Left:18.9 Right:21.7



Max , Ave      Beam angle of C0 plane 46.26



(10%Imax) 199.708	—
(20%Imax) 399.417	—
(30%Imax) 599.125	—
(40%Imax) 798.834	—
(50%Imax) 998.542	—
(60%Imax) 1198.25	—
(70%Imax) 1397.96	—
(80%Imax) 1597.67	—
(90%Imax) 1797.38	—

LL4G-HO-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	1997.09	1986.41	1730.91	1419.85	1131.09	873.97	603.67	341.48	176.82
22.5	1997.09	1968.97	1714.89	1407.68	1109.80	846.60	615.63	348.58	178.24
45.0	1997.09	1914.22	1653.04	1353.95	1080.40	810.91	567.57	316.94	168.10
67.5	1997.09	1860.89	1576.60	1290.27	1026.46	756.16	489.71	257.12	150.26
90.0	1997.09	1936.73	1664.60	1357.80	1084.25	836.46	592.92	346.75	183.11
112.5	1997.09	1895.16	1589.37	1269.79	1017.34	764.67	520.33	300.92	168.91
135.0	1997.09	1850.14	1526.92	1227.62	985.09	732.23	478.15	269.69	150.66
157.5	1997.09	1807.15	1502.79	1218.69	981.44	722.50	466.39	241.51	144.38
180.0	1997.09	1787.89	1484.54	1213.42	976.98	724.52	473.28	241.91	142.55
202.5	1997.09	1778.56	1484.33	1214.23	966.44	733.24	508.57	266.65	144.78
225.0	1997.09	1787.08	1520.02	1241.20	973.54	761.23	543.24	288.55	152.49
247.5	1997.09	1803.10	1560.37	1296.97	1029.50	795.29	558.65	304.37	165.06
270.0	1997.09	1792.76	1500.15	1214.23	940.28	683.97	409.21	214.54	136.67
292.5	1997.09	1851.56	1575.58	1264.12	973.54	722.29	454.02	246.17	147.62
315.0	1997.09	1913.41	1647.16	1335.90	1025.45	778.46	507.15	284.50	159.18
337.5	1997.09	1965.32	1716.72	1400.99	1092.16	838.08	567.37	311.06	167.49
360.0	1997.09	1986.41	1730.91	1419.85	1131.09	873.97	603.67	341.48	176.82
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	123.49	93.68	69.55	50.09	37.72	27.78	20.68	13.99	8.11
22.5	120.45	91.25	68.13	49.48	37.31	26.97	20.48	13.99	7.91
45.0	115.58	86.18	65.09	47.45	35.69	26.36	19.47	12.98	7.30
67.5	109.70	82.33	60.83	44.41	33.86	24.94	18.05	11.96	6.08
90.0	124.91	93.48	69.96	51.10	39.54	29.61	21.70	14.80	8.72
112.5	115.58	85.78	64.69	47.86	37.31	28.19	20.28	12.98	7.30
135.0	109.30	81.11	61.24	45.63	35.49	26.97	19.06	11.76	5.88
157.5	105.65	79.69	59.41	44.81	34.68	26.77	18.66	11.15	5.27
180.0	105.24	79.29	58.60	44.61	34.47	26.56	18.66	10.95	5.07
202.5	106.05	79.29	59.21	45.83	35.28	26.97	18.86	11.56	5.48
225.0	109.50	83.34	61.85	47.04	36.50	28.79	19.87	12.17	6.08
247.5	115.18	86.99	65.50	49.68	38.53	29.40	21.70	13.79	7.30
270.0	104.03	78.68	58.40	44.21	34.07	25.96	17.84	11.36	4.46
292.5	110.31	82.94	60.83	45.83	34.68	26.77	18.86	12.17	5.88
315.0	117.21	88.82	64.89	47.65	36.91	27.58	19.67	12.78	7.10
337.5	121.26	92.06	68.34	49.68	37.51	27.98	20.68	13.59	7.50
360.0	123.49	93.68	69.55	50.09	37.72	27.78	20.68	13.99	8.11
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.20
90.0	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.20	0.20	0.00	0.20	0.20	0.20	0.41	0.20	0.41
292.5	0.00	0.00	0.20	0.00	0.00	0.20	0.00	0.20	0.20
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.41
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LL4G-HO-5CCT(2700K)

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.20	0.20	0.41	0.41	0.61	0.81	0.81	1.01	1.01
22.5	0.20	0.41	0.41	0.41	0.81	0.81	1.01	1.22	1.42
45.0	0.00	0.41	0.41	0.61	0.41	1.01	1.01	1.22	1.22
67.5	0.20	0.20	0.41	0.61	1.01	1.22	1.01	1.22	1.22
90.0	0.00	0.00	0.41	0.41	0.61	0.61	1.01	1.01	1.22
112.5	0.00	0.00	0.20	0.41	0.41	0.61	1.01	1.22	1.22
135.0	0.00	0.00	0.00	0.41	0.61	0.81	0.81	1.01	1.22
157.5	0.00	0.00	0.00	0.20	0.61	0.81	1.01	0.81	1.01
180.0	0.00	0.00	0.20	0.41	0.61	1.01	1.01	1.01	1.22
202.5	0.00	0.00	0.20	0.41	0.61	0.81	0.81	1.22	1.01
225.0	0.00	0.00	0.20	0.20	0.61	1.01	0.81	1.01	1.22
247.5	0.00	0.00	0.20	0.41	0.61	0.81	1.01	1.01	1.01
270.0	0.61	0.61	0.61	1.01	1.22	1.22	1.42	1.62	1.62
292.5	0.41	0.41	0.61	0.41	1.01	1.22	1.22	1.01	1.01
315.0	0.20	0.41	0.41	0.41	0.61	0.81	1.01	1.01	1.22
337.5	0.20	0.20	0.20	0.61	0.61	1.01	1.22	1.22	1.01
360.0	0.20	0.20	0.41	0.41	0.61	0.81	0.81	1.01	1.01

C/γ(°)	180.0
0.0	1.36
22.5	1.36
45.0	1.36
67.5	1.36
90.0	1.36
112.5	1.36
135.0	1.36
157.5	1.36
180.0	1.36
202.5	1.36
225.0	1.36
247.5	1.36
270.0	1.36
292.5	1.36
315.0	1.36
337.5	1.36
360.0	1.36