



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
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LumCAT: LL6RRG-30K

Luminaire:

Report No:

Voltage(V): 120.04

Test No:

Current(A): 0.1413

LampCAT:

Power (W): 16.6860

Lamp flux(lm): 1044.1

PF: 0.9837

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1044.06

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 62.57

Central intensity(cd): 418.173

Maximum intensity(cd): 418.173

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

Beam Angle(50%Imax): [C0/180]Total=102.9

[C90/270]Total=103.0

Field angle(10%Imax): [C0/180]Total=153.8

[C90/270]Total=153.9

Maximum s/h(1/2): C0\_180=1.24 C90\_270=1.20

Maximum s/h(1/4): C0\_180=1.77 C90\_270=1.30

Up flux rate of lamp(%): 0.65%

Down flux rate of lamp(%): 99.35%

Up flux rate of LUM(%): 0.65%

Down flux rate of LUM(%): 99.35%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 81.928%

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

Date:  
Humidity(%): 58%

Operator: Zac

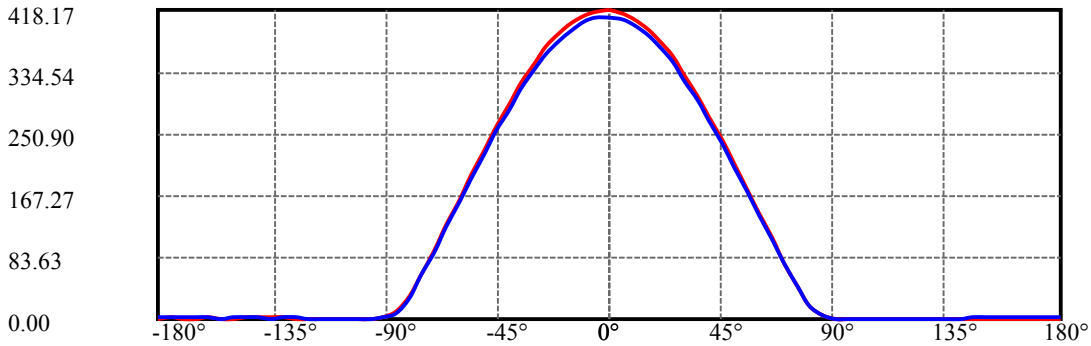
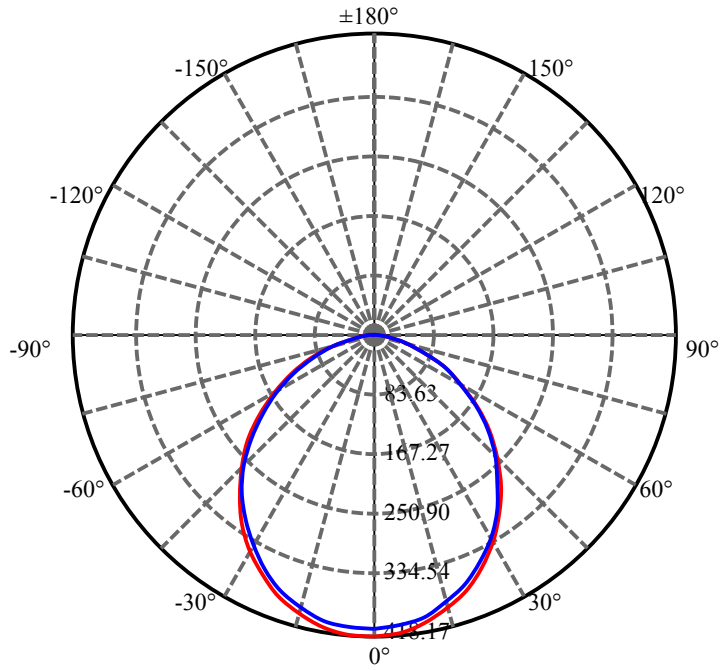
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	409.821	.000	.000	.000%	.000%
5.0	407.522	9.771	9.771	.936%	.936%
10.0	400.753	28.915	38.686	2.769%	3.705%
15.0	389.422	46.873	85.558	4.489%	8.195%
20.0	374.371	62.947	148.506	6.029%	14.224%
25.0	354.464	76.441	224.947	7.322%	21.546%
30.0	331.261	86.779	311.726	8.312%	29.857%
35.0	304.985	93.692	405.418	8.974%	38.831%
40.0	276.702	97.050	502.468	9.296%	48.127%
45.0	246.542	96.883	599.351	9.279%	57.406%
50.0	214.565	93.173	692.524	8.924%	66.330%
55.0	182.235	86.278	778.802	8.264%	74.594%
60.0	149.014	76.567	855.369	7.334%	81.928%
65.0	116.110	64.452	919.821	6.173%	88.101%
70.0	83.311	50.495	970.316	4.836%	92.937%
75.0	52.166	35.412	1005.727	3.392%	96.329%
80.0	24.341	20.471	1026.198	1.961%	98.290%
85.0	7.555	8.667	1034.865	.830%	99.120%
90.0	1.337	2.435	1037.300	.233%	99.353%
95.0	.856	.601	1037.901	.058%	99.411%
100.0	.868	.468	1038.369	.045%	99.455%
105.0	.927	.480	1038.849	.046%	99.501%
110.0	.927	.484	1039.333	.046%	99.548%
115.0	1.009	.490	1039.823	.047%	99.595%
120.0	1.020	.493	1040.317	.047%	99.642%
125.0	1.103	.491	1040.807	.047%	99.689%
130.0	1.114	.482	1041.290	.046%	99.735%
135.0	1.150	.457	1041.747	.044%	99.779%
140.0	1.208	.437	1042.183	.042%	99.821%
145.0	1.208	.403	1042.587	.039%	99.859%
150.0	1.279	.366	1042.953	.035%	99.895%
155.0	1.267	.322	1043.275	.031%	99.925%
160.0	1.326	.272	1043.547	.026%	99.951%
165.0	1.361	.221	1043.768	.021%	99.973%
170.0	1.302	.158	1043.926	.015%	99.988%
175.0	1.338	.094	1044.021	.009%	99.997%
180.0	1.408	.033	1044.054	.003%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	311.73	29.86%	29.86%
0-40	502.47	48.13%	48.13%
0-60	855.37	81.93%	81.93%
0-90	1037.30	99.35%	99.35%
0-120	1040.32	99.64%	99.64%
0-180	1044.05	100.00%	100.00%
60-90	258.50	24.76%	24.76%
90-120	5.45	0.52%	0.52%
90-130	6.42	0.62%	0.62%
90-150	8.09	0.77%	0.77%
90-180	9.16	0.88%	0.88%
0-58.69	835.24	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	38.69
10-20	109.82
20-30	163.22
30-40	190.74
40-50	190.06
50-60	162.84
60-70	114.95
70-80	55.88
80-90	11.10
90-100	1.07
100-110	0.96
110-120	0.98
120-130	0.97
130-140	0.89
140-150	0.77
150-160	0.59
160-170	0.38
170-180	0.09

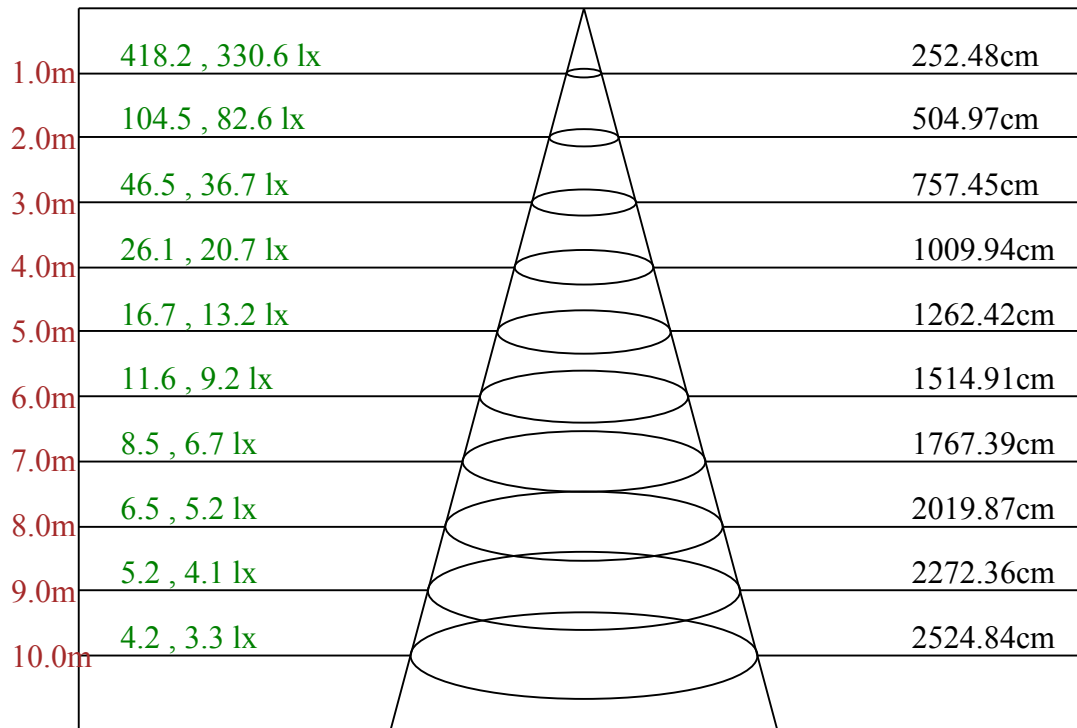


C0/C180: —

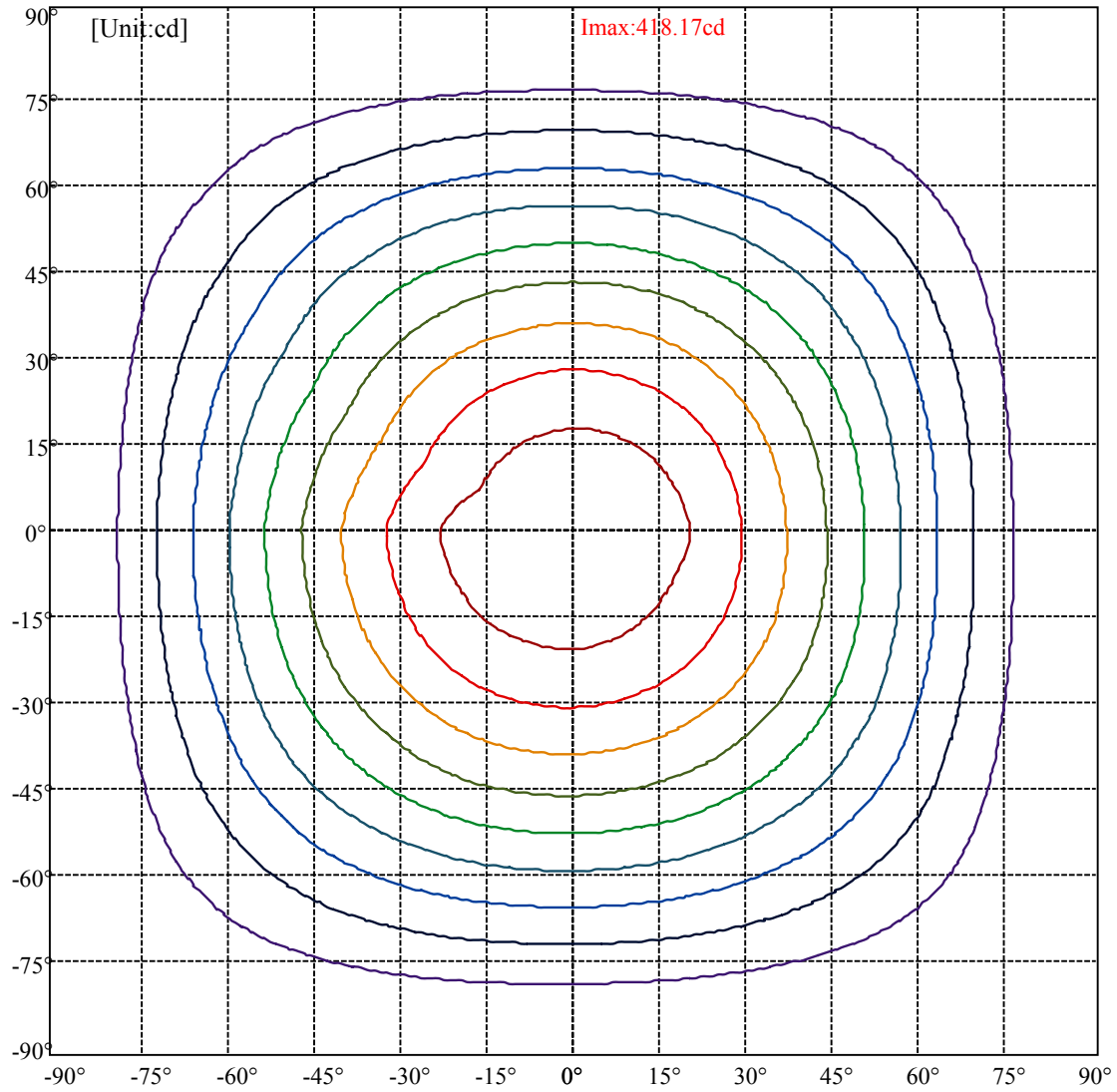
C90/C270: —

Field angle(10%Imax):C0/180Left:78.2 Right:75.6  
:C90/270Left:78.1 Right:75.8

Beam Angle(50%Imax):C0/180Left:52.9 Right:50.0  
:C90/270Left:52.9 Right:50.1



Max , Ave      Beam angle of C0plane103.14



(10%Imax)	41.7873	—
(20%Imax)	83.5746	—
(30%Imax)	125.362	—
(40%Imax)	167.149	—
(50%Imax)	208.936	—
(60%Imax)	250.724	—
(70%Imax)	292.511	—
(80%Imax)	334.298	—
(90%Imax)	376.086	—

## 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	418.17	413.86	405.41	392.84	377.07	355.11	329.58	302.37	273.65
22.5	413.67	409.92	401.84	389.27	372.38	351.36	326.77	299.37	269.71
45.0	411.23	407.29	399.22	386.83	370.31	348.17	324.89	297.11	267.08
67.5	408.60	405.60	397.72	385.14	368.25	347.23	322.64	296.93	267.46
90.0	407.85	404.47	396.40	383.64	367.87	347.23	322.45	295.24	266.33
112.5	407.29	403.72	395.09	383.83	366.75	345.54	322.64	295.61	266.71
135.0	405.97	402.97	395.09	382.89	367.31	346.85	322.83	296.36	268.02
157.5	405.79	402.78	395.28	383.83	367.69	347.41	324.14	297.30	268.40
180.0	418.17	416.67	410.85	400.53	386.83	367.69	345.35	318.51	291.48
202.5	413.67	412.54	407.66	397.53	383.26	364.87	341.97	316.26	289.23
225.0	411.23	410.48	404.85	394.90	381.20	362.62	340.85	315.32	286.60
247.5	408.60	407.48	403.16	393.40	378.76	360.37	338.03	312.88	286.04
270.0	407.85	406.91	401.84	390.77	377.82	359.05	336.72	311.75	284.16
292.5	407.29	405.79	400.16	389.83	376.32	357.17	334.84	310.06	282.47
315.0	405.97	405.41	399.03	388.14	374.25	355.67	334.28	308.19	280.60
337.5	405.79	404.47	398.47	387.39	373.88	355.11	332.21	306.50	279.28
360.0	418.17	413.86	405.41	392.84	377.07	355.11	329.58	302.37	273.65
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	241.93	209.09	175.30	142.64	109.05	76.01	44.86	18.58	5.63
22.5	239.31	207.02	173.61	140.20	108.11	74.51	44.30	17.64	5.63
45.0	237.05	204.77	172.86	139.64	106.61	75.08	44.30	17.83	5.44
67.5	236.49	203.27	172.86	139.27	106.61	74.33	44.67	18.39	5.44
90.0	236.49	204.58	172.11	139.08	107.36	75.45	44.86	18.39	6.01
112.5	236.49	204.39	173.43	140.02	107.36	75.64	45.98	19.33	6.01
135.0	237.80	205.90	174.74	141.52	108.86	76.95	46.36	19.90	6.57
157.5	238.74	206.46	174.93	141.89	110.74	78.64	47.86	21.02	6.76
180.0	260.70	228.79	195.01	160.48	127.25	93.09	61.00	30.97	9.57
202.5	259.01	226.92	194.45	161.98	126.69	92.72	61.19	31.34	9.95
225.0	257.14	224.85	193.32	159.54	125.94	93.28	60.81	30.97	9.76
247.5	256.39	224.48	192.01	158.41	125.38	92.16	59.69	31.72	9.57
270.0	254.70	222.79	189.94	157.85	123.88	90.47	59.31	29.84	9.01
292.5	252.44	221.47	189.00	155.60	122.94	89.90	57.81	28.90	8.63
315.0	250.38	220.16	186.94	153.34	121.25	88.21	55.93	27.40	8.63
337.5	249.63	218.10	185.25	152.78	119.75	86.53	55.74	27.22	8.26
360.0	241.93	209.09	175.30	142.64	109.05	76.01	44.86	18.58	5.63
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.19	0.19	0.38	0.38	0.19	0.56	0.56	0.56	0.38
22.5	0.56	0.94	0.75	0.94	0.75	0.75	0.94	0.94	0.94
45.0	0.94	0.75	0.75	0.75	0.94	0.94	0.75	1.13	1.13
67.5	0.75	0.75	0.56	0.75	0.94	0.94	1.13	1.13	0.94
90.0	0.94	0.75	0.94	0.94	0.94	0.94	1.13	0.94	1.13
112.5	0.94	0.75	0.94	0.94	0.75	0.94	0.94	0.94	0.94
135.0	0.75	0.75	0.75	0.94	0.94	0.94	0.75	1.13	0.94
157.5	0.94	0.94	0.75	0.75	0.94	0.94	0.94	1.13	1.13
180.0	1.88	0.75	0.94	0.94	0.94	0.94	1.13	1.13	1.31
202.5	2.44	0.94	0.94	0.94	1.13	1.13	1.13	1.31	1.31
225.0	2.25	0.94	0.94	1.13	1.13	1.13	1.13	1.31	1.13
247.5	2.25	0.94	0.94	0.94	1.13	1.31	1.31	1.13	1.31
270.0	1.88	0.94	0.94	1.13	0.94	1.13	1.13	1.31	1.31
292.5	1.88	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.31
315.0	1.69	1.13	1.13	1.13	1.13	1.13	1.13	1.31	1.31
337.5	1.13	1.13	1.13	1.13	0.94	1.31	1.13	1.13	1.31
360.0	0.19	0.19	0.38	0.38	0.19	0.56	0.56	0.56	0.38

LL6RRG-30K

Intensity data(cd)

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C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.56	0.56	0.56	0.56	0.56	0.75	0.56	0.56	0.56
22.5	0.94	1.13	0.94	1.13	1.31	1.31	1.31	1.50	1.31
45.0	1.31	1.13	1.31	1.50	1.13	1.50	1.31	1.31	1.31
67.5	1.13	1.31	1.31	1.13	1.31	1.31	1.31	1.50	1.31
90.0	1.13	1.13	1.31	1.31	1.31	1.31	1.50	1.31	1.50
112.5	1.13	1.13	1.13	1.31	1.31	1.13	1.50	1.31	1.50
135.0	1.13	1.31	1.13	1.31	1.50	1.13	1.50	1.31	1.50
157.5	1.13	1.13	1.13	1.31	1.31	1.31	1.50	1.13	1.31
180.0	1.31	1.31	1.31	1.13	1.13	1.31	1.13	1.13	1.31
202.5	1.13	1.31	1.31	1.31	1.13	1.69	1.50	1.50	1.50
225.0	1.31	1.31	1.31	1.50	1.50	1.31	1.50	1.31	1.31
247.5	1.31	1.13	1.13	1.31	1.50	1.31	1.31	1.31	1.31
270.0	1.13	1.31	1.50	1.31	1.13	1.31	1.50	1.50	1.31
292.5	1.31	1.50	1.50	1.50	1.31	1.50	1.50	1.31	1.50
315.0	1.31	1.31	1.13	1.31	1.50	1.50	1.31	1.31	1.50
337.5	1.13	1.31	1.31	1.50	1.31	1.50	1.50	1.50	1.31
360.0	0.56	0.56	0.56	0.56	0.56	0.75	0.56	0.56	0.56

C/γ(°)	180.0
0.0	0.94
22.5	1.50
45.0	1.31
67.5	1.31
90.0	1.50
112.5	1.50
135.0	1.50
157.5	1.69
180.0	0.94
202.5	1.50
225.0	1.31
247.5	1.31
270.0	1.50
292.5	1.50
315.0	1.50
337.5	1.69
360.0	0.94