



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

LumCAT: LL4G-35K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 119.99

LampCAT:

Current(A): 0.0910

Lamp flux(lm): -1.0

Power (W): 10.62

Number of Lamps: 1

PF: 0.9775

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1036.90, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 97.61

Central intensity(cd): 1646.006, Maximum intensity(cd): 1646.988

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

Beam Angle(50%Imax): [C0/180]Total=41.0

[C90/270]Total=41.0

Field angle(10%Imax): [C0/180]Total=74.8

[C90/270]Total=73.9

Maximum s/h(1/2): C0\_180=0.67 C90\_270=0.71

Maximum s/h(1/4): C0\_180=0.71 C90\_270=0.73

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.11%

Down flux rate of LUM(%): 99.89%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 94.437%

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

Date:  
Humidity(%): 59%

Operator: jarvis

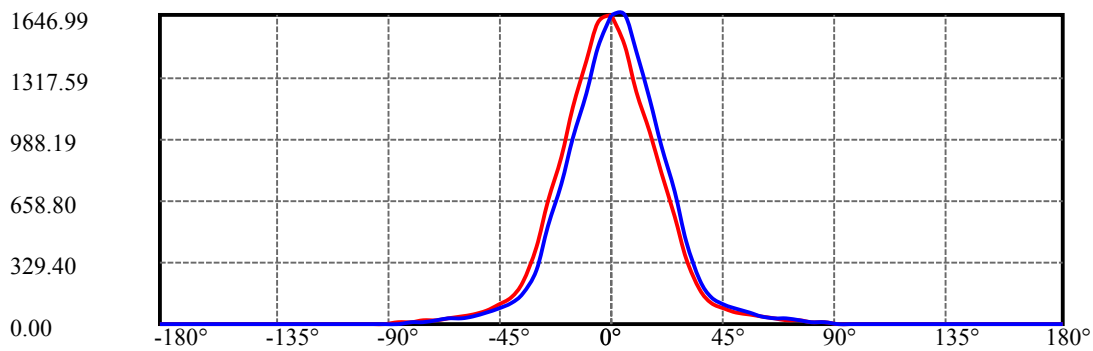
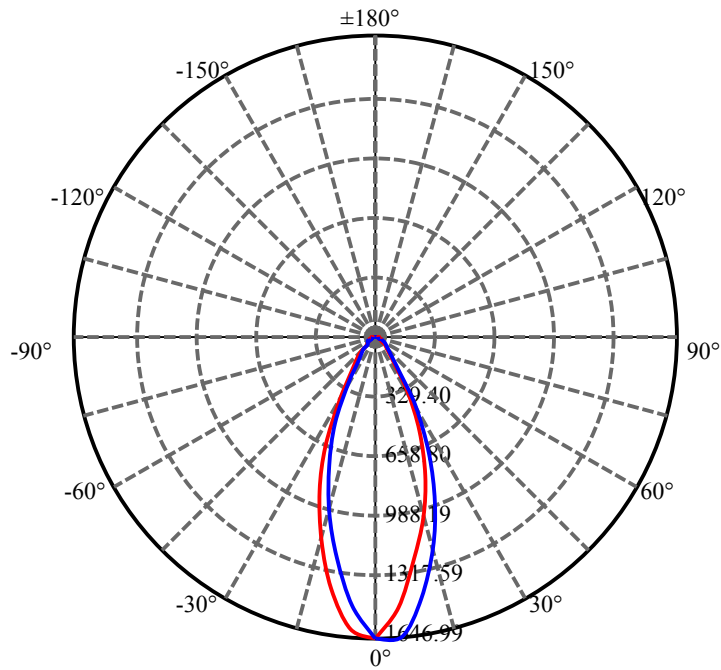
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1646.006	0.000	0	0.00%	0.00%
5.0	1543.332	38.128	38.128	0.00%	3.68%
10.0	1321.285	102.476	140.604	0.00%	13.56%
15.0	1085.260	142.755	283.359	0.00%	27.33%
20.0	845.362	159.110	442.469	0.00%	42.67%
25.0	609.468	152.585	595.054	0.00%	57.39%
30.0	370.553	124.022	719.076	0.00%	69.35%
35.0	200.383	84.074	803.151	0.00%	77.46%
40.0	127.970	54.783	857.934	0.00%	82.74%
45.0	93.717	41.047	898.981	0.00%	86.70%
50.0	69.344	32.949	931.93	0.00%	89.88%
55.0	51.636	26.305	958.235	0.00%	92.41%
60.0	39.168	20.989	979.224	0.00%	94.44%
65.0	30.800	17.009	996.233	0.00%	96.08%
70.0	23.882	13.846	1010.079	0.00%	97.41%
75.0	17.624	10.849	1020.928	0.00%	98.46%
80.0	11.725	7.853	1028.781	0.00%	99.22%
85.0	6.666	4.997	1033.778	0.00%	99.70%
90.0	0.540	1.973	1035.751	0.00%	99.89%
95.0	0.024	0.154	1035.905	0.00%	99.90%
100.0	0.012	0.010	1035.915	0.00%	99.90%
105.0	0.024	0.010	1035.924	0.00%	99.91%
110.0	0.024	0.013	1035.937	0.00%	99.91%
115.0	0.012	0.009	1035.946	0.00%	99.91%
120.0	0.012	0.006	1035.952	0.00%	99.91%
125.0	0.060	0.017	1035.969	0.00%	99.91%
130.0	0.060	0.026	1035.995	0.00%	99.91%
135.0	0.132	0.039	1036.033	0.00%	99.92%
140.0	0.132	0.049	1036.082	0.00%	99.92%
145.0	0.288	0.070	1036.152	0.00%	99.93%
150.0	0.384	0.099	1036.251	0.00%	99.94%
155.0	0.659	0.132	1036.383	0.00%	99.95%
160.0	0.779	0.151	1036.534	0.00%	99.96%
165.0	1.019	0.148	1036.682	0.00%	99.98%
170.0	0.995	0.119	1036.802	0.00%	99.99%
175.0	1.103	0.075	1036.877	0.00%	100.00%
180.0	1.173	0.027	1036.904	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	719.08	N.A.	69.35%
0-40	857.93	N.A.	82.74%
0-60	979.22	N.A.	94.44%
0-90	1035.75	N.A.	99.89%
0-120	1035.95	N.A.	99.91%
0-180	1036.90	N.A.	100.00%
60-90	56.53	N.A.	5.45%
90-120	0.20	N.A.	0.02%
90-130	0.24	N.A.	0.02%
90-150	0.50	N.A.	0.05%
90-180	1.13	N.A.	0.11%
0-37.41	829.52	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	140.60
10-20	301.86
20-30	276.61
30-40	138.86
40-50	74.00
50-60	47.29
60-70	30.85
70-80	18.70
80-90	6.97
90-100	0.16
100-110	0.02
110-120	0.01
120-130	0.04
130-140	0.09
140-150	0.17
150-160	0.28
160-170	0.27
170-180	0.08



C0/C180: —

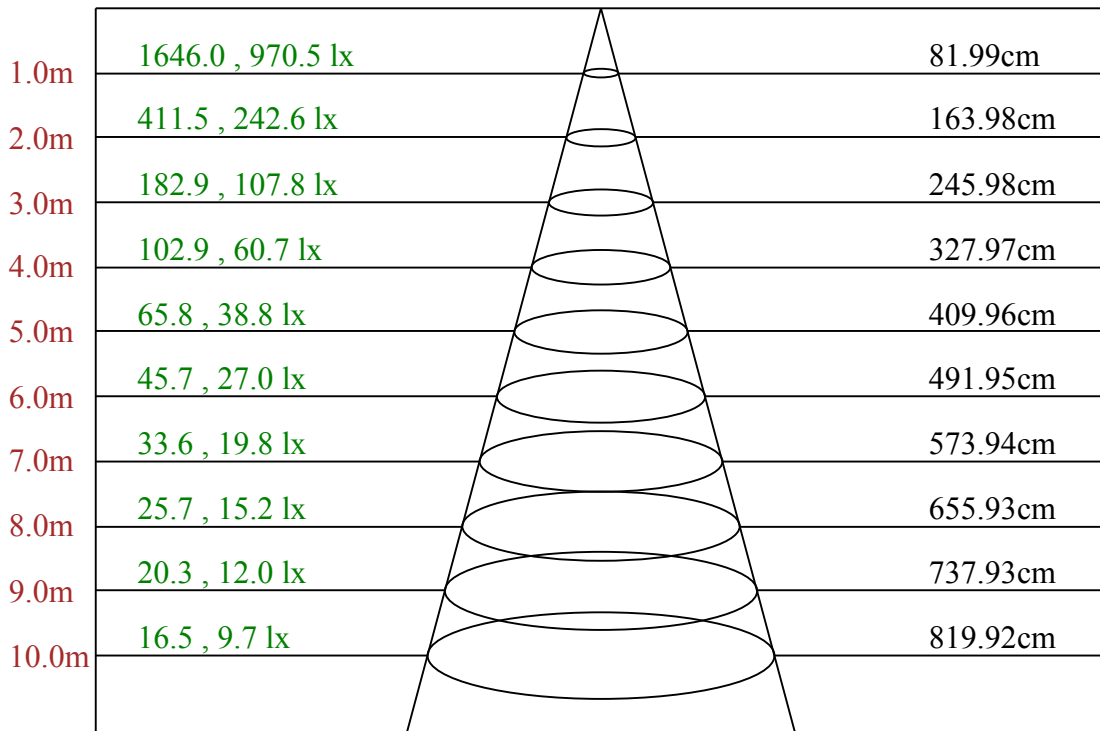
C90/C270: —

Field angle(10%Imax):C0/180Left:38.5 Right:36.3

:C90/270Left:34.9 Right:39.0

Beam Angle(50%Imax):C0/180Left:21.4 Right:19.6

:C90/270Left:18.4 Right:22.6



Max , Ave      Beam angle of C90 plane 44.58

## 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	1646.01	1481.25	1237.06	1022.41	806.81	568.75	352.19	182.62	115.67
22.5	1646.01	1477.42	1227.09	1010.52	806.81	554.75	324.18	170.15	115.09
45.0	1646.01	1458.62	1224.02	1010.91	778.99	535.57	314.78	169.38	113.94
67.5	1646.01	1455.36	1219.42	1007.26	773.05	535.95	307.68	173.79	115.67
90.0	1646.01	1646.99	1448.84	1196.01	954.51	701.69	440.62	237.28	145.59
112.5	1646.01	1630.49	1438.86	1192.94	937.82	703.80	457.88	242.46	145.21
135.0	1646.01	1613.61	1419.87	1174.91	921.13	699.19	446.18	246.68	148.85
157.5	1646.01	1608.43	1405.68	1154.00	906.36	681.35	428.72	236.33	143.10
180.0	1646.01	1602.29	1400.50	1151.51	887.95	657.38	407.82	220.21	140.22
202.5	1646.01	1594.62	1399.73	1140.58	876.25	642.41	376.36	206.21	136.39
225.0	1646.01	1597.31	1390.91	1133.67	864.16	625.53	368.30	201.61	135.43
247.5	1646.01	1596.92	1399.73	1140.00	871.07	628.60	381.92	208.32	134.66
270.0	1646.01	1470.13	1223.06	991.53	746.19	517.54	290.23	162.67	111.07
292.5	1646.01	1479.14	1233.99	1009.95	786.09	548.61	321.11	171.30	113.37
315.0	1646.01	1489.69	1236.10	1013.40	802.01	569.91	348.93	186.84	115.48
337.5	1646.01	1491.04	1235.72	1014.55	806.61	580.46	361.97	190.29	117.78
360.0	1646.01	1481.25	1237.06	1022.41	806.81	568.75	352.19	182.62	115.67
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	85.17	63.30	47.96	37.21	29.35	23.02	16.88	10.74	5.95
22.5	84.79	63.11	47.57	37.21	29.54	23.02	16.88	11.13	5.95
45.0	85.55	62.92	47.76	37.02	29.92	23.40	16.88	11.13	5.95
67.5	85.55	63.30	47.96	37.41	30.12	23.59	17.26	11.32	5.95
90.0	106.08	78.46	58.31	44.31	35.10	28.20	21.68	14.58	8.82
112.5	105.31	78.65	58.12	43.74	34.72	27.43	21.10	13.81	8.82
135.0	106.08	78.26	57.55	43.54	33.95	26.86	20.14	13.04	8.06
157.5	103.58	76.92	56.97	42.20	32.99	25.70	19.18	12.66	7.87
180.0	102.05	74.81	55.25	40.86	31.84	24.94	18.22	12.28	7.48
202.5	101.09	74.62	53.71	40.28	30.88	23.59	17.26	12.28	7.29
225.0	99.36	72.51	53.52	39.52	30.12	23.02	17.26	11.70	7.10
247.5	98.79	72.89	53.52	39.71	30.50	23.21	17.26	11.51	6.91
270.0	83.25	61.00	45.65	34.53	27.24	20.33	14.77	9.98	4.60
292.5	83.25	62.15	46.61	35.49	28.01	21.29	15.15	10.17	4.99
315.0	84.40	62.92	47.76	36.83	28.97	21.87	15.73	10.55	5.37
337.5	85.17	63.69	47.96	36.83	29.54	22.64	16.31	10.74	5.56
360.0	85.17	63.30	47.96	37.21	29.35	23.02	16.88	10.74	5.95
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	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	0.19	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
90.0	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.19	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	0.19	0.38	0.19	0.19	0.38	0.19	0.19	0.58	0.38
292.5	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.19
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LL4G-35K

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	0.19	0.19	0.38	0.58	0.77	0.77	1.15	0.96	1.34
22.5	0.19	0.19	0.38	0.38	0.58	0.96	0.96	0.96	1.15
45.0	0.19	0.00	0.38	0.58	0.77	0.96	1.15	0.96	1.15
67.5	0.19	0.19	0.38	0.58	0.58	0.77	1.15	1.34	0.96
90.0	0.00	0.00	0.19	0.38	0.77	0.77	0.96	1.15	1.15
112.5	0.00	0.00	0.19	0.38	0.58	0.58	0.77	0.96	0.96
135.0	0.00	0.00	0.19	0.19	0.58	0.77	0.96	0.77	0.96
157.5	0.00	0.00	0.19	0.19	0.77	0.77	0.96	0.96	0.96
180.0	0.00	0.00	0.00	0.19	0.38	0.58	0.96	0.77	0.96
202.5	0.00	0.00	0.19	0.19	0.38	0.77	0.77	0.77	0.96
225.0	0.00	0.00	0.00	0.19	0.38	0.58	0.77	0.58	0.96
247.5	0.00	0.00	0.00	0.19	0.58	0.58	0.96	0.77	0.96
270.0	0.58	0.77	0.77	0.77	1.34	1.34	1.54	1.54	1.73
292.5	0.38	0.38	0.58	0.58	0.77	0.77	1.15	1.15	1.15
315.0	0.19	0.19	0.38	0.38	0.58	0.77	1.15	1.15	1.15
337.5	0.19	0.19	0.38	0.38	0.77	0.77	0.96	1.15	1.15
360.0	0.19	0.19	0.38	0.58	0.77	0.77	1.15	0.96	1.34

C/γ(°)	180.0
0.0	1.17
22.5	1.17
45.0	1.17
67.5	1.17
90.0	1.17
112.5	1.17
135.0	1.17
157.5	1.17
180.0	1.17
202.5	1.17
225.0	1.17
247.5	1.17
270.0	1.17
292.5	1.17
315.0	1.17
337.5	1.17
360.0	1.17