



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

LumCAT: LRG6-32K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 119.98

LampCAT:

Current(A): 0.1570

Lamp flux(lm): -1.0

Power (W): 18.61

Number of Lamps: 1

PF: 0.9871

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1148.29, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 61.70

Central intensity(cd): 1896.136, Maximum intensity(cd): 1925.985

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

Beam Angle(50%Imax): [C0/180]Total=41.6

[C90/270]Total=41.5

Field angle(10%Imax): [C0/180]Total=75.1

[C90/270]Total=75.2

Maximum s/h(1/2): C0\_180=0.69 C90\_270=0.72

Maximum s/h(1/4): C0\_180=0.72 C90\_270=0.75

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 : 96.915%

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

Date:  
Humidity(%): 59%

Operator: jarvis

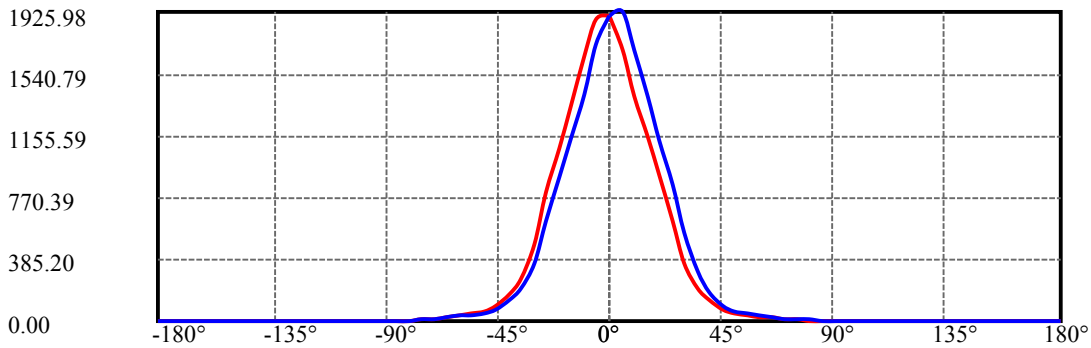
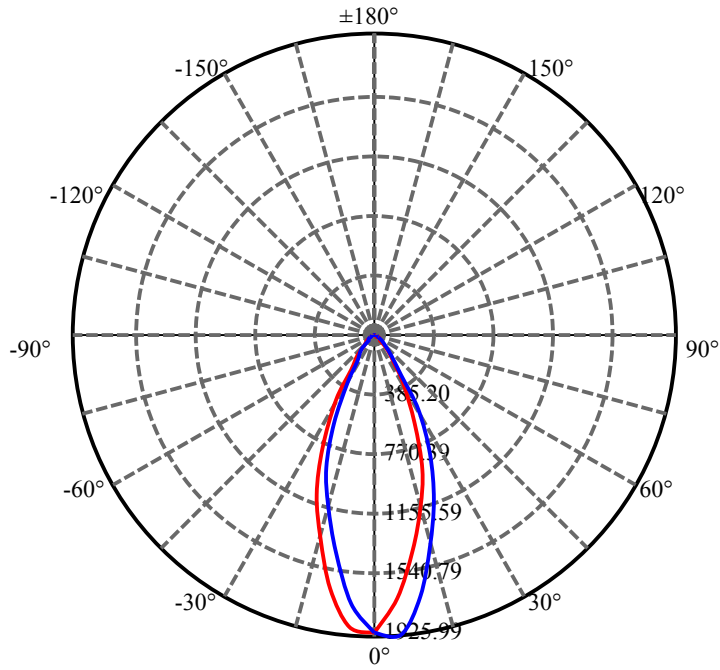
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1896.136	0.000	0	0.00%	0.00%
5.0	1790.799	44.076	44.076	0.00%	3.84%
10.0	1528.650	118.747	162.823	0.00%	14.18%
15.0	1245.298	164.549	327.372	0.00%	28.51%
20.0	991.899	184.376	511.749	0.00%	44.57%
25.0	714.500	178.970	690.718	0.00%	60.15%
30.0	438.077	145.860	836.578	0.00%	72.85%
35.0	247.706	100.986	937.564	0.00%	81.65%
40.0	152.784	66.819	1004.383	0.00%	87.47%
45.0	83.534	43.756	1048.139	0.00%	91.28%
50.0	52.966	27.582	1075.721	0.00%	93.68%
55.0	41.150	20.464	1096.185	0.00%	95.46%
60.0	30.997	16.677	1112.861	0.00%	96.91%
65.0	22.546	13.016	1125.878	0.00%	98.05%
70.0	13.159	9.041	1134.918	0.00%	98.84%
75.0	8.381	5.630	1140.549	0.00%	99.33%
80.0	5.505	3.715	1144.264	0.00%	99.65%
85.0	2.339	2.131	1146.396	0.00%	99.84%
90.0	0.050	0.654	1147.05	0.00%	99.89%
95.0	0.010	0.016	1147.066	0.00%	99.89%
100.0	0.010	0.005	1147.071	0.00%	99.89%
105.0	0.010	0.005	1147.077	0.00%	99.89%
110.0	0.010	0.005	1147.082	0.00%	99.89%
115.0	0.020	0.008	1147.089	0.00%	99.90%
120.0	0.050	0.017	1147.106	0.00%	99.90%
125.0	0.050	0.023	1147.129	0.00%	99.90%
130.0	0.090	0.030	1147.16	0.00%	99.90%
135.0	0.100	0.038	1147.198	0.00%	99.90%
140.0	0.209	0.057	1147.255	0.00%	99.91%
145.0	0.388	0.100	1147.355	0.00%	99.92%
150.0	0.558	0.139	1147.494	0.00%	99.93%
155.0	0.806	0.173	1147.667	0.00%	99.95%
160.0	0.995	0.189	1147.856	0.00%	99.96%
165.0	1.085	0.171	1148.027	0.00%	99.98%
170.0	1.234	0.138	1148.165	0.00%	99.99%
175.0	1.354	0.093	1148.257	0.00%	100.00%
180.0	1.405	0.033	1148.29	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	836.58	N.A.	72.85%
0-40	1004.38	N.A.	87.47%
0-60	1112.86	N.A.	96.91%
0-90	1147.05	N.A.	99.89%
0-120	1147.11	N.A.	99.90%
0-180	1148.29	N.A.	100.00%
60-90	34.19	N.A.	2.98%
90-120	0.06	N.A.	0.00%
90-130	0.11	N.A.	0.01%
90-150	0.44	N.A.	0.04%
90-180	1.21	N.A.	0.11%
0-34.06	918.63	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	162.82
10-20	348.93
20-30	324.83
30-40	167.81
40-50	71.34
50-60	37.14
60-70	22.06
70-80	9.35
80-90	2.79
90-100	0.02
100-110	0.01
110-120	0.02
120-130	0.05
130-140	0.10
140-150	0.24
150-160	0.36
160-170	0.31
170-180	0.09

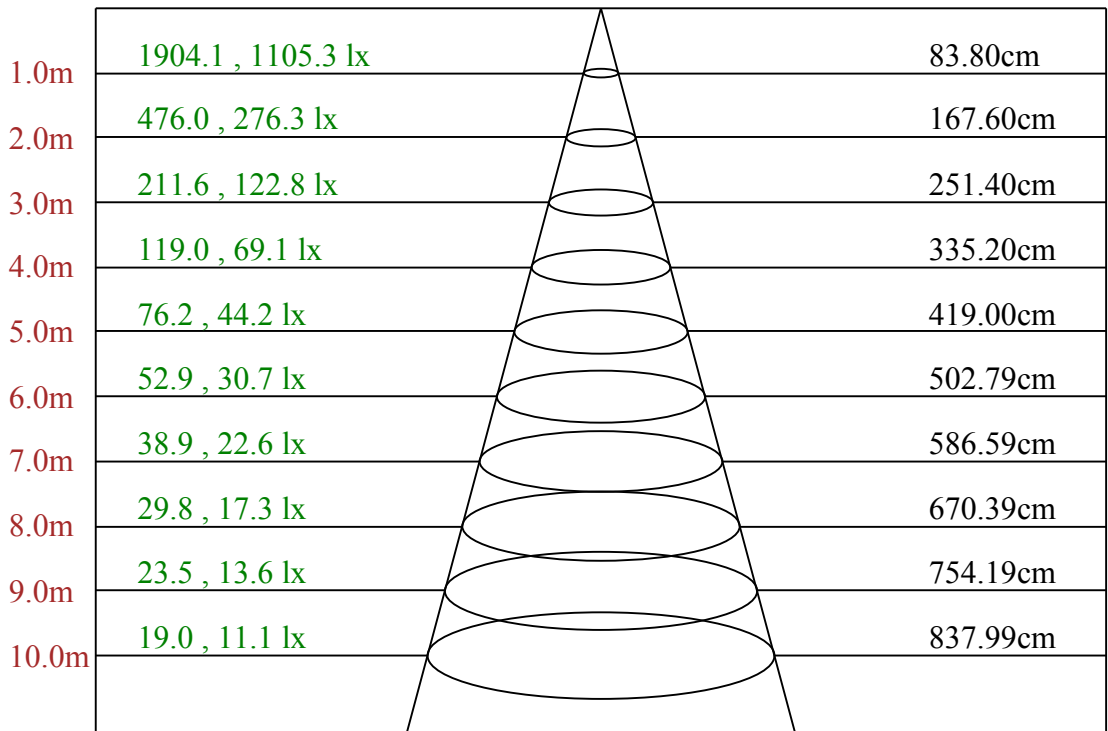


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:39.1 Right:36.0  
:C90/270Left:35.7 Right:39.5

Beam Angle(50%Imax):C0/180Left:22.3 Right:19.3  
:C90/270Left:18.6 Right:22.9



Max , Ave      Beam angle of C90 plane 45.47

LRG6-32K-HO

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	1896.14	1681.04	1393.72	1148.30	913.38	624.00	356.43	204.50	130.44
22.5	1896.14	1687.73	1401.85	1141.29	894.91	603.77	351.18	198.76	127.41
45.0	1896.14	1688.20	1398.98	1141.93	883.92	598.04	350.38	205.93	127.73
67.5	1896.14	1692.34	1399.14	1142.24	895.86	614.92	364.88	209.11	127.89
90.0	1896.14	1925.99	1690.43	1395.79	1121.06	845.38	552.65	309.93	180.29
112.5	1896.14	1903.37	1675.62	1381.94	1114.21	852.70	561.73	324.74	183.63
135.0	1896.14	1893.34	1654.12	1358.69	1112.78	839.01	553.13	326.17	184.43
157.5	1896.14	1886.65	1655.71	1354.38	1085.87	814.16	540.54	298.14	175.03
180.0	1896.14	1876.77	1648.55	1344.19	1077.11	796.00	482.73	267.09	172.01
202.5	1896.14	1878.36	1644.09	1321.90	1047.96	769.88	467.12	252.28	167.55
225.0	1896.14	1877.41	1655.39	1318.07	1033.47	749.50	457.09	256.10	167.07
247.5	1896.14	1877.89	1649.98	1320.94	1058.63	763.35	462.03	259.92	166.91
270.0	1896.14	1719.26	1412.04	1132.05	900.16	620.81	355.00	202.90	132.83
292.5	1896.14	1696.80	1398.34	1137.79	911.63	644.23	377.46	213.10	134.74
315.0	1896.14	1691.07	1388.79	1138.26	911.47	654.74	392.27	220.90	135.53
337.5	1896.14	1676.58	1391.65	1147.02	907.97	641.52	384.62	213.73	131.08
360.0	1896.14	1681.04	1393.72	1148.30	913.38	624.00	356.43	204.50	130.44
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	73.10	47.94	37.91	28.51	20.07	10.67	7.80	4.94	1.91
22.5	73.26	47.30	37.43	28.19	19.59	10.51	7.65	4.78	1.75
45.0	72.31	46.98	37.11	27.71	19.27	10.03	7.49	4.62	1.59
67.5	73.58	46.82	36.79	27.71	19.27	9.87	7.33	4.46	1.43
90.0	96.20	59.25	44.44	33.45	25.16	15.77	8.92	6.21	3.03
112.5	95.24	57.02	44.28	33.45	24.53	15.29	8.92	5.89	2.71
135.0	93.17	55.90	44.12	32.81	24.37	15.29	8.76	6.05	2.71
157.5	92.06	56.54	43.64	32.65	24.69	15.29	8.76	6.05	2.71
180.0	93.65	56.54	43.64	32.97	24.69	15.29	8.76	5.89	2.87
202.5	93.17	56.70	43.64	33.13	24.69	15.13	8.76	6.05	2.87
225.0	93.33	58.13	43.96	33.29	25.01	15.93	9.08	6.21	3.03
247.5	96.04	61.00	44.28	33.92	25.64	16.25	9.08	6.37	3.19
270.0	73.90	49.85	39.98	30.10	21.50	11.63	8.44	5.26	2.07
292.5	73.26	49.53	39.82	29.78	20.86	11.47	8.28	5.26	1.91
315.0	72.78	49.37	38.86	29.31	21.02	11.31	7.96	5.10	1.91
337.5	71.51	48.58	38.54	28.99	20.39	10.83	8.12	4.94	1.75
360.0	73.10	47.94	37.91	28.51	20.07	10.67	7.80	4.94	1.91
C/γ(°)	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	0.16	0.16	0.16
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	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
90.0	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
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	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.16	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	0.32	0.16	0.16	0.16	0.16	0.32	0.32	0.32	0.48
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.32
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.16
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.16

LRG6-32K-HO

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	0.16	0.32	0.48	0.64	0.80	1.12	0.96	1.27	1.43
22.5	0.16	0.16	0.48	0.64	0.64	0.96	1.12	1.27	1.43
45.0	0.00	0.32	0.48	0.64	0.96	0.80	0.96	1.27	1.43
67.5	0.16	0.32	0.32	0.64	0.96	1.12	1.12	1.27	1.27
90.0	0.00	0.32	0.32	0.64	0.80	0.96	0.96	1.43	1.43
112.5	0.00	0.16	0.32	0.32	0.64	0.80	0.96	1.12	1.27
135.0	0.00	0.00	0.48	0.32	0.64	0.80	0.96	1.12	1.27
157.5	0.00	0.00	0.16	0.32	0.64	0.80	0.80	1.12	1.12
180.0	0.00	0.16	0.16	0.32	0.64	0.96	1.12	1.12	1.27
202.5	0.00	0.00	0.16	0.48	0.80	0.96	1.12	1.27	1.27
225.0	0.00	0.00	0.16	0.48	0.64	0.80	1.12	1.12	1.27
247.5	0.00	0.00	0.32	0.48	0.64	0.96	0.96	1.12	1.12
270.0	0.48	0.80	0.80	1.12	1.43	1.43	1.75	1.59	1.91
292.5	0.32	0.32	0.64	0.64	0.96	1.27	1.12	1.27	1.43
315.0	0.16	0.32	0.48	0.64	0.96	1.12	1.12	1.27	1.43
337.5	0.16	0.16	0.48	0.64	0.80	1.12	1.27	1.12	1.27
360.0	0.16	0.32	0.48	0.64	0.80	1.12	0.96	1.27	1.43
C/γ(°)	180.0								
0.0	1.41								
22.5	1.41								
45.0	1.41								
67.5	1.41								
90.0	1.41								
112.5	1.41								
135.0	1.41								
157.5	1.41								
180.0	1.41								
202.5	1.41								
225.0	1.41								
247.5	1.41								
270.0	1.41								
292.5	1.41								
315.0	1.41								
337.5	1.41								
360.0	1.41								