



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

LumCAT: LRG6-50K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1240

Lamp flux(lm): -1.0

Power (W): 14.67

Number of Lamps: 1

PF: 0.9869

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1420.60, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.87

Central intensity(cd): 2227.381, Maximum intensity(cd): 2283.137

Angle of maximum intensity: C=247.5  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=42.3

[C90/270]Total=43.5

Field angle(10%Imax): [C0/180]Total=76.8

[C90/270]Total=77.3

Maximum s/h(1/2): C0\_180=0.70 C90\_270=0.70

Maximum s/h(1/4): C0\_180=0.73 C90\_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.763%

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

Date:  
Humidity(%): 59%

Operator: jarvis

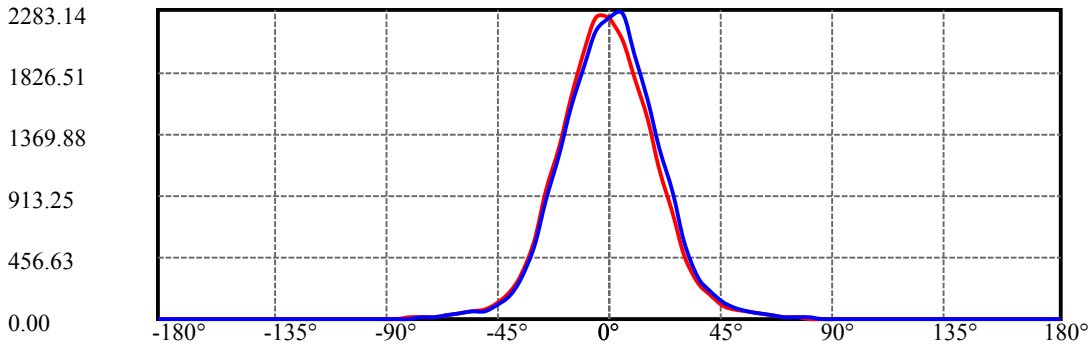
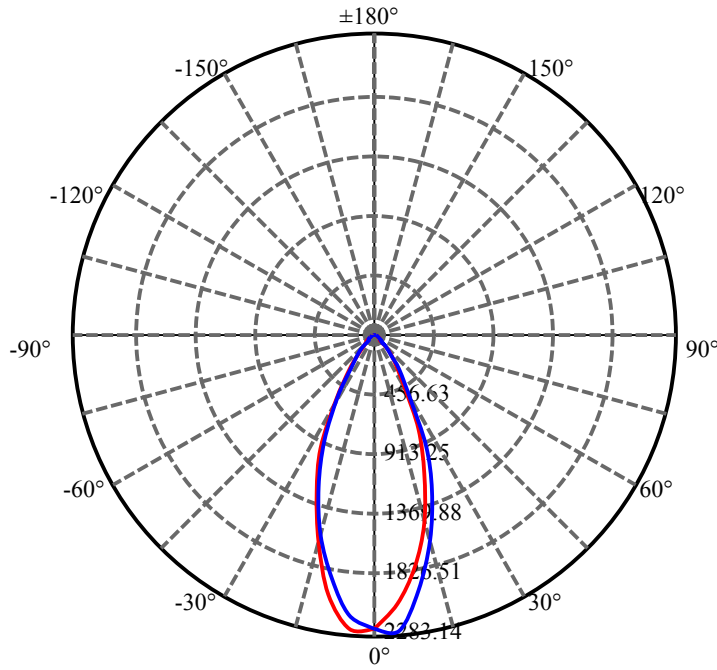
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2227.381	0.000	0	0.00%	0.00%
5.0	2146.485	52.288	52.288	0.00%	3.68%
10.0	1888.786	144.354	196.643	0.00%	13.84%
15.0	1554.915	204.278	400.921	0.00%	28.22%
20.0	1202.524	227.252	628.172	0.00%	44.22%
25.0	877.638	218.171	846.343	0.00%	59.58%
30.0	547.045	180.295	1026.638	0.00%	72.27%
35.0	308.130	125.931	1152.568	0.00%	81.13%
40.0	193.240	83.650	1236.218	0.00%	87.02%
45.0	106.681	55.533	1291.751	0.00%	90.93%
50.0	68.188	35.335	1327.086	0.00%	93.42%
55.0	52.521	26.246	1353.332	0.00%	95.26%
60.0	39.544	21.281	1374.613	0.00%	96.76%
65.0	29.282	16.732	1391.344	0.00%	97.94%
70.0	17.332	11.803	1403.147	0.00%	98.77%
75.0	10.950	7.392	1410.54	0.00%	99.29%
80.0	7.208	4.858	1415.398	0.00%	99.63%
85.0	3.291	2.853	1418.251	0.00%	99.83%
90.0	0.063	0.918	1419.169	0.00%	99.90%
95.0	0.000	0.017	1419.187	0.00%	99.90%
100.0	0.000	0.000	1419.187	0.00%	99.90%
105.0	0.025	0.007	1419.193	0.00%	99.90%
110.0	0.013	0.010	1419.203	0.00%	99.90%
115.0	0.013	0.006	1419.209	0.00%	99.90%
120.0	0.013	0.006	1419.215	0.00%	99.90%
125.0	0.025	0.009	1419.224	0.00%	99.90%
130.0	0.050	0.016	1419.24	0.00%	99.90%
135.0	0.125	0.035	1419.276	0.00%	99.91%
140.0	0.263	0.072	1419.348	0.00%	99.91%
145.0	0.450	0.119	1419.467	0.00%	99.92%
150.0	0.701	0.170	1419.636	0.00%	99.93%
155.0	0.939	0.207	1419.844	0.00%	99.95%
160.0	1.214	0.226	1420.069	0.00%	99.96%
165.0	1.414	0.217	1420.286	0.00%	99.98%
170.0	1.464	0.171	1420.457	0.00%	99.99%
175.0	1.552	0.108	1420.564	0.00%	100.00%
180.0	1.673	0.039	1420.603	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1026.64	N.A.	72.27%
0-40	1236.22	N.A.	87.02%
0-60	1374.61	N.A.	96.76%
0-90	1419.17	N.A.	99.90%
0-120	1419.22	N.A.	99.90%
0-180	1420.60	N.A.	100.00%
60-90	44.56	N.A.	3.14%
90-120	0.05	N.A.	0.00%
90-130	0.07	N.A.	0.00%
90-150	0.47	N.A.	0.03%
90-180	1.40	N.A.	0.10%
0-34.36	1136.48	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	196.64
10-20	431.53
20-30	398.47
30-40	209.58
40-50	90.87
50-60	47.53
60-70	28.53
70-80	12.25
80-90	3.77
90-100	0.02
100-110	0.02
110-120	0.01
120-130	0.02
130-140	0.11
140-150	0.29
150-160	0.43
160-170	0.39
170-180	0.11

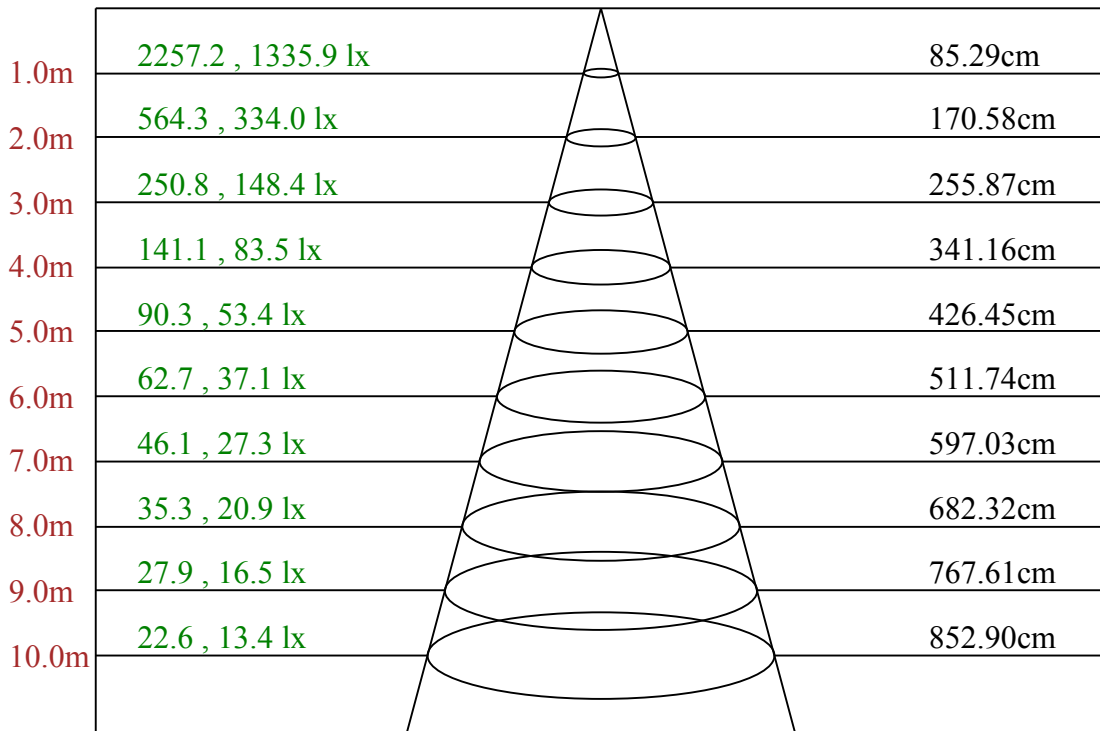


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:39.2 Right:37.6  
:C90/270Left:37.8 Right:39.5

Beam Angle(50%Imax):C0/180Left:22.4 Right:19.9  
:C90/270Left:21.4 Right:22.1



Max , Ave      Beam angle of C247.5 plane 46.19

## 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	2227.38	2050.08	1785.58	1468.23	1110.83	781.27	473.53	269.30	178.80
22.5	2227.38	2019.64	1711.70	1393.75	1049.17	714.39	428.88	251.08	174.19
45.0	2227.38	1979.20	1677.66	1354.91	1002.71	676.95	407.25	245.87	169.79
67.5	2227.38	1945.96	1638.22	1339.09	987.10	659.13	398.84	239.67	160.38
90.0	2227.38	2251.70	1961.58	1609.79	1260.80	938.04	564.63	317.95	214.24
112.5	2227.38	2219.27	1931.95	1597.58	1243.98	927.43	574.04	328.57	210.63
135.0	2227.38	2204.85	1929.54	1584.36	1237.98	930.03	592.86	334.17	208.83
157.5	2227.38	2213.26	1946.16	1588.77	1248.99	948.05	592.06	329.97	207.63
180.0	2227.38	2231.08	1988.61	1628.61	1275.82	948.05	575.04	327.56	204.03
202.5	2227.38	2250.70	2027.05	1662.65	1291.84	961.87	594.66	327.16	203.63
225.0	2227.38	2268.72	2064.09	1696.69	1333.28	995.31	623.69	346.39	215.24
247.5	2227.38	2283.14	2109.34	1751.75	1379.13	1043.96	680.56	380.42	225.65
270.0	2227.38	2128.77	1875.68	1560.33	1216.35	882.38	542.80	293.13	169.79
292.5	2227.38	2115.35	1885.90	1573.35	1243.76	897.40	583.05	318.75	219.20
315.0	2227.38	2099.73	1857.46	1554.33	1210.35	891.19	584.85	323.56	185.81
337.5	2227.38	2082.31	1830.03	1514.48	1168.30	846.74	536.00	296.53	184.00
360.0	2227.38	2050.08	1785.58	1468.23	1110.83	781.27	473.53	269.30	178.80
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	101.51	65.47	51.86	38.84	29.03	16.62	11.01	7.01	3.20
22.5	99.91	64.67	51.26	38.44	28.63	16.62	10.81	6.81	2.80
45.0	96.71	63.47	50.06	37.64	27.83	15.82	10.81	6.61	2.80
67.5	91.90	61.27	49.06	36.84	26.63	14.82	10.41	6.41	2.60
90.0	128.94	81.69	57.26	44.25	32.84	21.22	12.61	8.81	4.81
112.5	119.53	75.08	55.66	42.45	31.03	19.82	11.81	8.21	4.21
135.0	114.73	70.68	54.26	40.65	30.63	18.62	11.41	8.01	3.80
157.5	110.52	68.08	52.86	40.04	29.63	17.62	11.01	7.41	3.20
180.0	108.72	67.88	53.06	39.64	29.23	17.62	10.61	7.21	3.20
202.5	108.32	67.88	53.06	39.64	29.83	17.82	10.61	7.21	3.20
225.0	112.93	69.68	53.26	40.65	30.43	18.42	10.81	7.41	3.60
247.5	118.13	75.68	54.66	41.85	30.63	19.82	11.21	7.41	3.80
270.0	95.51	63.47	49.66	37.24	27.03	14.22	10.41	6.41	2.60
292.5	97.91	64.67	50.66	37.44	27.63	15.22	10.21	6.61	2.60
315.0	99.31	65.47	52.26	38.24	28.23	16.02	10.61	7.01	3.00
337.5	102.31	65.87	51.46	38.84	29.23	17.02	10.81	6.81	3.20
360.0	101.51	65.47	51.86	38.84	29.03	16.62	11.01	7.01	3.20
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	0.00	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	0.00	0.00
90.0	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.20	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	0.00	0.00	0.40	0.20	0.20	0.20	0.40	0.20
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LRG6-50K

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	0.00	0.40	0.40	0.80	0.80	1.20	1.60	1.60	1.60
22.5	0.00	0.40	0.60	0.80	1.20	1.40	1.40	1.40	1.80
45.0	0.20	0.40	0.60	0.80	1.20	1.20	1.60	1.40	1.60
67.5	0.20	0.60	0.80	0.80	1.00	1.40	1.60	1.60	1.60
90.0	0.20	0.20	0.60	0.80	1.00	1.20	1.60	1.60	1.60
112.5	0.00	0.00	0.40	0.60	0.80	1.20	1.40	1.40	1.40
135.0	0.00	0.00	0.40	0.40	0.80	1.20	1.20	1.60	1.40
157.5	0.00	0.00	0.20	0.40	0.80	1.20	1.40	1.40	1.40
180.0	0.00	0.00	0.40	0.60	0.80	1.20	1.40	1.40	1.60
202.5	0.00	0.00	0.20	0.60	0.80	1.00	1.40	1.40	1.40
225.0	0.00	0.00	0.00	0.40	0.60	1.00	1.20	1.40	1.20
247.5	0.00	0.00	0.00	0.40	0.60	1.00	0.80	1.20	1.60
270.0	0.60	1.00	1.00	1.40	1.60	1.60	2.00	1.80	2.20
292.5	0.40	0.40	0.60	0.80	1.20	1.20	1.20	1.40	1.60
315.0	0.20	0.40	0.40	0.80	0.80	1.20	1.60	1.40	1.40
337.5	0.20	0.40	0.60	0.80	1.00	1.20	1.20	1.40	1.40
360.0	0.00	0.40	0.40	0.80	0.80	1.20	1.60	1.60	1.60

C/γ(°)	180.0
0.0	1.67
22.5	1.67
45.0	1.67
67.5	1.67
90.0	1.67
112.5	1.67
135.0	1.67
157.5	1.67
180.0	1.67
202.5	1.67
225.0	1.67
247.5	1.67
270.0	1.67
292.5	1.67
315.0	1.67
337.5	1.67
360.0	1.67