



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
www.bellingtest.com

Tel:0755-29351191 Fax:0755-29351120

Address:1 F,No.1 building,Meibaoh industrial park,Dalang street,Longhua district,Shenzhen,China

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LumCAT: LRG6-27K

Luminaire:

Report No:

Voltage(V): 120.05

Test No:

Current(A): 0.1219

LampCAT:

Power (W): 14.4440

Lamp flux(lm): 1210.0

PF: 0.9872

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): 1209.97

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 83.77

Central intensity(cd): 1991.948

Maximum intensity(cd): 1991.948

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

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

[C90/270]Total=40.7

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

[C90/270]Total=75.7

Maximum s/h(1/2): C0\_180=0.66 C90\_270=0.64

Maximum s/h(1/4): C0\_180=0.95 C90\_270=0.68

Up flux rate of lamp(%): 0.48%

Down flux rate of lamp(%): 99.52%

Up flux rate of LUM(%): 0.48%

Down flux rate of LUM(%): 99.52%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.378%

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

Date:  
Humidity(%): 58%

Operator: Zac

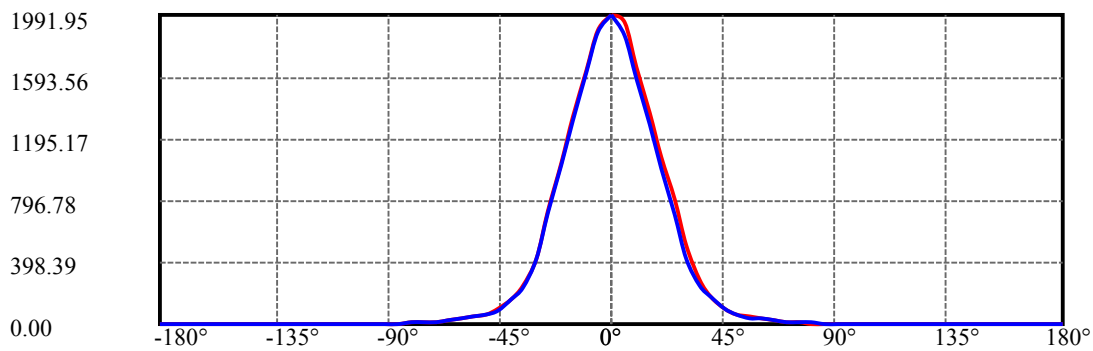
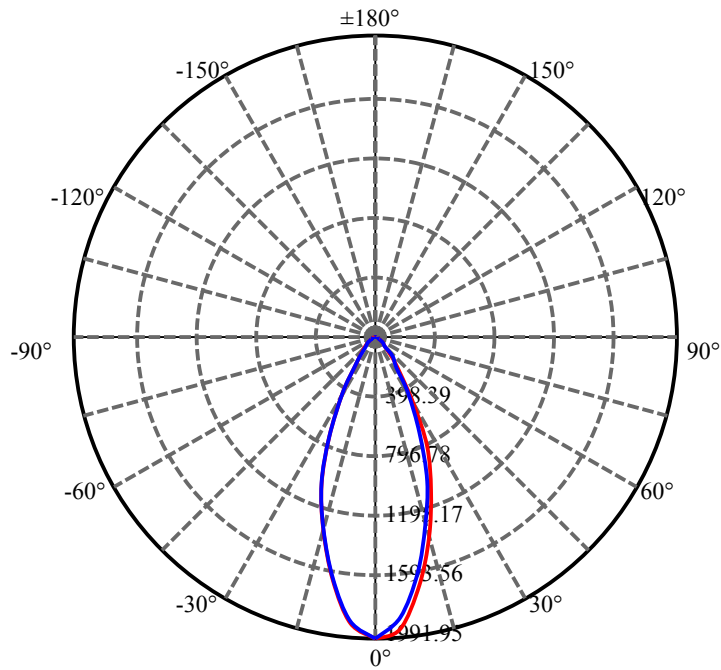
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1991.948	.000	.000	.000%	.000%
5.0	1877.127	46.254	46.254	3.823%	3.823%
10.0	1616.773	124.988	171.242	10.330%	14.153%
15.0	1318.620	174.126	345.367	14.391%	28.544%
20.0	1034.483	193.929	539.296	16.028%	44.571%
25.0	735.945	185.685	724.981	15.346%	59.918%
30.0	442.787	149.170	874.151	12.328%	72.246%
35.0	252.998	102.459	976.610	8.468%	80.714%
40.0	167.001	70.074	1046.683	5.791%	86.505%
45.0	94.075	48.340	1095.024	3.995%	90.500%
50.0	58.251	30.780	1125.803	2.544%	93.044%
55.0	44.645	22.373	1148.177	1.849%	94.893%
60.0	33.077	17.965	1166.142	1.485%	96.378%
65.0	24.342	13.959	1180.100	1.154%	97.532%
70.0	14.501	9.835	1189.936	.813%	98.345%
75.0	9.332	6.229	1196.165	.515%	98.859%
80.0	6.449	4.222	1200.388	.349%	99.208%
85.0	3.318	2.654	1203.041	.219%	99.428%
90.0	.683	1.095	1204.137	.091%	99.518%
95.0	.683	.374	1204.511	.031%	99.549%
100.0	.696	.375	1204.886	.031%	99.580%
105.0	.708	.376	1205.261	.031%	99.611%
110.0	.733	.377	1205.638	.031%	99.642%
115.0	.770	.381	1206.019	.031%	99.674%
120.0	.733	.365	1206.384	.030%	99.704%
125.0	.770	.347	1206.731	.029%	99.733%
130.0	.857	.354	1207.085	.029%	99.762%
135.0	.882	.351	1207.437	.029%	99.791%
140.0	1.081	.364	1207.800	.030%	99.821%
145.0	1.181	.377	1208.177	.031%	99.852%
150.0	1.367	.375	1208.553	.031%	99.883%
155.0	1.578	.373	1208.925	.031%	99.914%
160.0	1.727	.347	1209.272	.029%	99.943%
165.0	1.839	.294	1209.566	.024%	99.967%
170.0	1.851	.219	1209.785	.018%	99.985%
175.0	1.913	.135	1209.919	.011%	99.996%
180.0	1.941	.046	1209.965	.004%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	874.15	72.25%	72.25%
0-40	1046.68	86.51%	86.51%
0-60	1166.14	96.38%	96.38%
0-90	1204.14	99.52%	99.52%
0-120	1206.38	99.70%	99.70%
0-180	1209.97	100.00%	100.00%
60-90	55.96	4.62%	4.62%
90-120	3.34	0.28%	0.28%
90-130	4.04	0.33%	0.33%
90-150	5.51	0.46%	0.46%
90-180	6.88	0.57%	0.57%
0-34.58	967.97	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	171.24
10-20	368.05
20-30	334.85
30-40	172.53
40-50	79.12
50-60	40.34
60-70	23.79
70-80	10.45
80-90	3.75
90-100	0.75
100-110	0.75
110-120	0.75
120-130	0.70
130-140	0.71
140-150	0.75
150-160	0.72
160-170	0.51
170-180	0.13

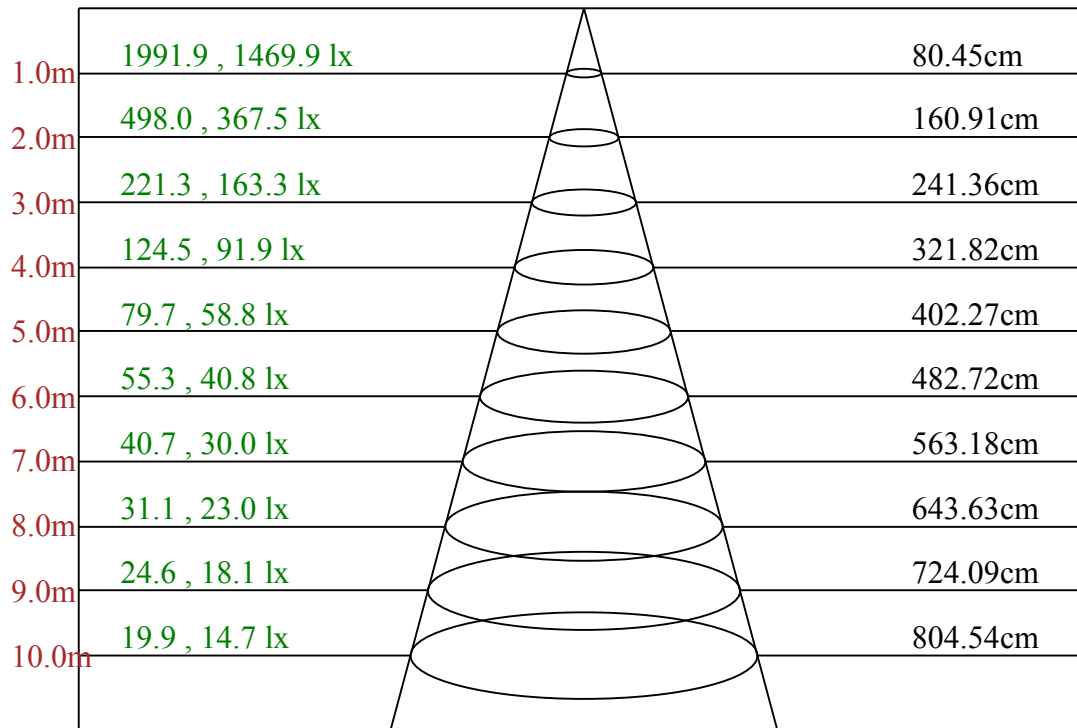


C0/C180: —

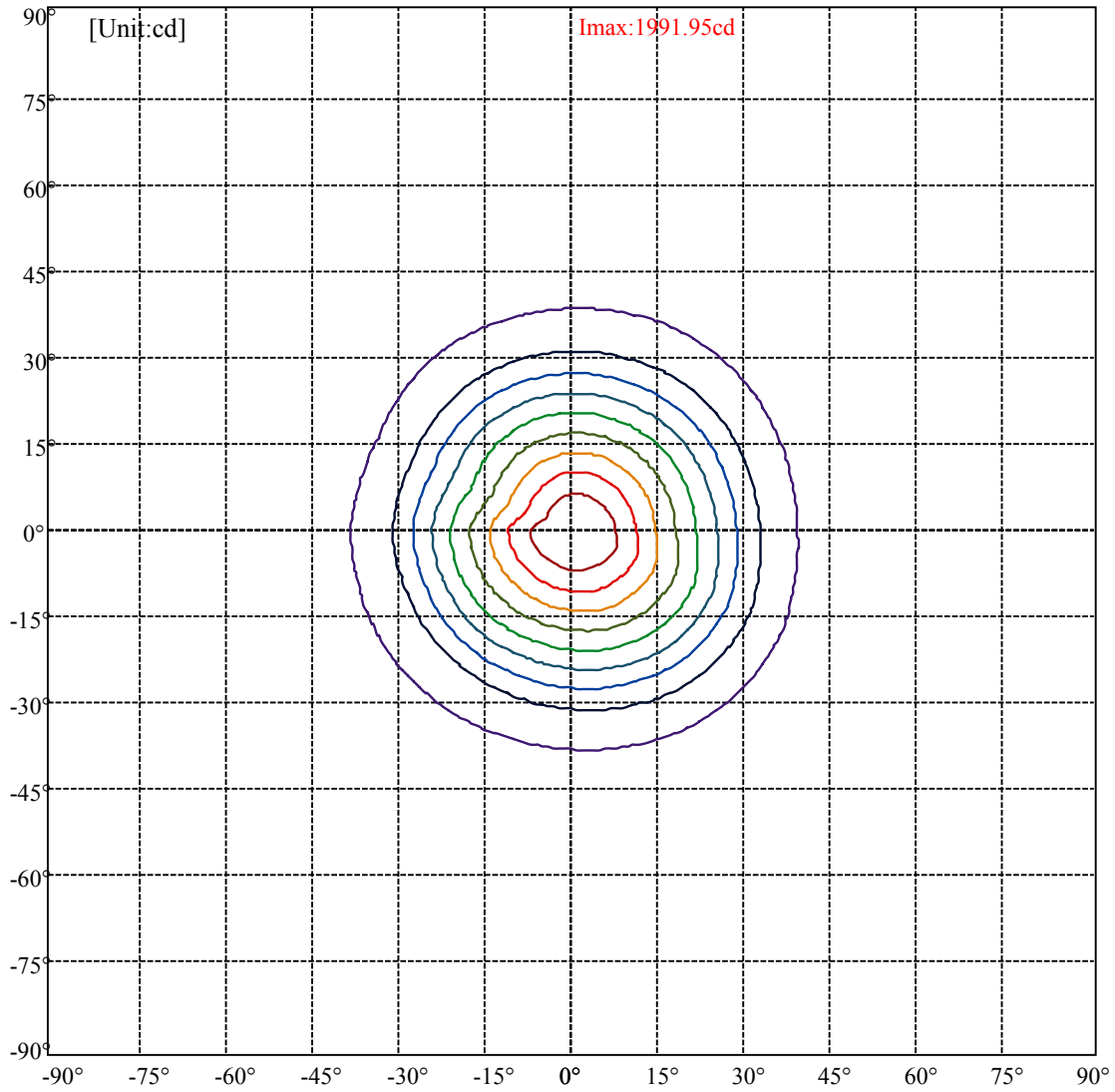
C90/C270: —

Field angle(10%Imax):C0/180Left:37.8 Right:39.0  
:C90/270Left:37.7 Right:38.1

Beam Angle(50%Imax):C0/180Left:20.7 Right:21.5  
:C90/270Left:20.5 Right:20.2



Max , Ave      Beam angle of C0plane43.82



- (10%Imax) 199.195 —
- (20%Imax) 398.39 —
- (30%Imax) 597.584 —
- (40%Imax) 796.779 —
- (50%Imax) 995.974 —
- (60%Imax) 1195.17 —
- (70%Imax) 1394.36 —
- (80%Imax) 1593.56 —
- (90%Imax) 1792.75 —

## 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	1991.95	1941.58	1663.25	1363.04	1080.53	799.81	513.33	287.08	175.95
22.5	1991.95	1910.56	1650.32	1351.31	1060.85	773.77	474.76	266.21	171.97
45.0	1991.95	1884.52	1635.61	1333.82	1040.97	742.95	456.27	258.25	171.97
67.5	1991.95	1870.80	1608.17	1315.13	1023.67	718.70	433.21	256.66	173.16
90.0	1991.95	1853.11	1589.49	1287.69	1006.77	705.18	425.06	245.73	170.18
112.5	1991.95	1823.68	1560.46	1263.44	988.29	691.26	413.13	237.78	163.62
135.0	1991.95	1793.66	1517.32	1221.29	953.10	667.21	394.44	228.23	156.46
157.5	1991.95	1776.17	1486.11	1183.12	912.14	637.98	372.57	216.11	147.52
180.0	1991.95	1898.44	1637.60	1332.23	1042.96	727.45	422.47	242.15	165.41
202.5	1991.95	1884.52	1623.88	1316.32	1026.66	694.05	389.27	230.02	162.23
225.0	1991.95	1872.79	1600.82	1297.83	998.03	679.33	373.37	221.87	156.46
247.5	1991.95	1872.00	1601.81	1292.27	996.64	674.76	392.45	227.04	155.27
270.0	1991.95	1886.71	1619.71	1313.34	1024.87	721.28	425.06	240.96	162.63
292.5	1991.95	1903.41	1659.47	1376.56	1089.28	793.85	477.34	265.01	169.39
315.0	1991.95	1918.32	1690.68	1410.76	1134.81	858.26	542.75	298.61	178.93
337.5	1991.95	1943.77	1723.68	1439.78	1172.18	889.28	579.13	326.25	190.86
360.0	1991.95	1941.58	1663.25	1363.04	1080.53	799.81	513.33	287.08	175.95
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	94.63	58.65	45.53	32.80	23.66	13.12	8.55	5.77	2.39
22.5	93.64	57.66	44.34	32.21	23.86	13.92	8.75	5.96	2.98
45.0	95.23	58.05	43.74	32.41	23.66	14.51	8.95	6.36	2.98
67.5	95.83	57.85	43.74	32.41	23.86	14.71	9.15	6.16	3.18
90.0	97.42	59.44	42.94	31.81	24.06	14.91	8.95	6.36	3.58
112.5	93.24	57.06	42.74	31.81	23.66	14.71	9.34	6.36	3.38
135.0	88.27	54.67	42.35	31.81	23.46	14.31	9.34	6.36	3.38
157.5	82.90	53.08	41.55	30.82	23.06	13.72	9.34	6.36	3.18
180.0	98.81	60.64	45.73	34.59	25.45	15.51	9.94	6.96	3.38
202.5	94.63	58.85	45.33	34.20	25.25	15.11	9.94	7.16	3.78
225.0	89.86	57.06	45.13	33.80	24.45	14.71	9.74	6.76	3.58
247.5	91.06	57.26	45.33	33.40	24.65	14.12	9.54	6.76	3.18
270.0	92.25	58.25	45.53	33.60	24.45	14.12	9.54	6.36	3.58
292.5	95.03	59.05	46.12	34.20	24.65	14.12	9.54	6.36	3.38
315.0	98.41	61.23	46.92	34.39	25.45	14.91	9.34	6.36	3.58
337.5	103.98	63.22	47.32	34.99	25.85	15.51	9.34	6.76	3.58
360.0	94.63	58.65	45.53	32.80	23.66	13.12	8.55	5.77	2.39
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.20	0.00	0.00	0.00	0.20	0.00	0.00	0.20
22.5	0.60	0.40	0.40	0.60	0.60	0.40	0.60	0.60	0.60
45.0	0.60	0.60	0.60	0.80	0.60	0.60	0.60	0.80	0.80
67.5	0.60	0.60	0.40	0.60	0.60	0.60	0.60	0.80	0.80
90.0	0.80	0.60	0.80	0.60	0.60	0.80	0.60	0.60	0.99
112.5	0.60	0.40	0.60	0.60	0.80	0.80	0.60	0.80	0.99
135.0	0.60	0.80	0.80	0.60	0.60	0.80	0.80	0.80	0.80
157.5	0.60	0.40	0.40	0.80	0.80	0.80	0.60	0.99	0.60
180.0	0.60	0.60	0.80	0.60	0.60	0.80	0.99	0.80	0.99
202.5	0.80	0.80	0.99	0.80	0.99	0.99	0.80	0.80	0.80
225.0	0.99	0.80	0.99	0.99	0.80	0.80	0.80	0.99	0.99
247.5	0.80	0.99	0.80	0.80	1.19	0.80	0.99	0.80	1.19
270.0	0.80	0.99	0.80	0.80	0.99	0.99	0.80	0.99	0.99
292.5	0.60	0.99	0.99	0.99	0.80	0.99	0.99	0.99	0.80
315.0	0.99	0.99	0.99	0.80	0.99	0.99	0.99	0.60	0.99
337.5	0.99	0.80	0.80	0.99	0.80	0.99	0.99	0.99	1.19
360.0	0.00	0.20	0.00	0.00	0.00	0.20	0.00	0.00	0.20

LRG6-27K

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	0.20	0.40	0.60	0.60	0.60	0.80	1.19	1.19	1.19
22.5	0.60	0.99	1.19	1.19	1.39	1.59	1.79	1.59	1.99
45.0	0.80	0.99	1.19	1.19	1.39	1.79	1.99	1.99	1.79
67.5	0.80	1.19	1.19	1.39	1.39	1.79	1.79	1.79	1.99
90.0	0.80	0.99	0.99	1.39	1.59	1.59	1.79	1.99	1.99
112.5	0.99	0.99	0.99	1.39	1.59	1.99	1.79	1.99	1.99
135.0	0.80	0.99	1.39	1.39	1.79	1.79	1.79	1.79	1.99
157.5	0.80	0.99	1.19	1.59	1.59	1.79	1.99	1.99	2.19
180.0	0.99	0.99	1.19	1.19	1.79	1.79	1.79	1.99	1.99
202.5	0.99	1.19	1.19	1.59	1.59	1.79	1.99	1.99	1.79
225.0	0.99	1.39	1.19	1.59	1.99	1.79	1.99	1.79	1.99
247.5	0.99	1.19	1.19	1.39	1.79	1.79	1.99	1.79	1.99
270.0	0.99	1.19	1.39	1.59	1.79	1.79	1.79	1.79	1.99
292.5	1.19	1.19	1.39	1.59	1.59	1.79	1.99	1.99	1.99
315.0	0.99	1.19	1.39	1.39	1.59	1.79	1.79	1.99	1.79
337.5	1.19	1.39	1.19	1.39	1.79	1.99	1.99	1.99	1.99
360.0	0.20	0.40	0.60	0.60	0.60	0.80	1.19	1.19	1.19

C/γ(°)	180.0
0.0	1.94
22.5	1.94
45.0	1.94
67.5	1.94
90.0	1.94
112.5	1.94
135.0	1.94
157.5	1.94
180.0	1.94
202.5	1.94
225.0	1.94
247.5	1.94
270.0	1.94
292.5	1.94
315.0	1.94
337.5	1.94
360.0	1.94