



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

---

LumCAT: LL6R-27K

Luminaire:

Report No:

Voltage(V): 120.1

Test No:

Current(A): 0.1401

LampCAT:

Power (W): 16.5950

Lamp flux(lm): 980.6

PF: 0.9863

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

---

### Photometric Results

Lumens(lm): 980.57

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 59.09

Central intensity(cd): 361.422

Maximum intensity(cd): 366.787

Angle of maximum intensity: C=180.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=107.5

[C90/270]Total=107.1

Field angle(10%Imax): [C0/180]Total=158.9

[C90/270]Total=159.0

Maximum s/h(1/2): C0\_180=1.26 C90\_270=1.22

Maximum s/h(1/4): C0\_180=1.80 C90\_270=1.33

Up flux rate of lamp(%): 0.66%

Down flux rate of lamp(%): 99.34%

Up flux rate of LUM(%): 0.66%

Down flux rate of LUM(%): 99.34%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 79.420%

---

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

Date:  
Humidity(%): 58%

Operator: Zac

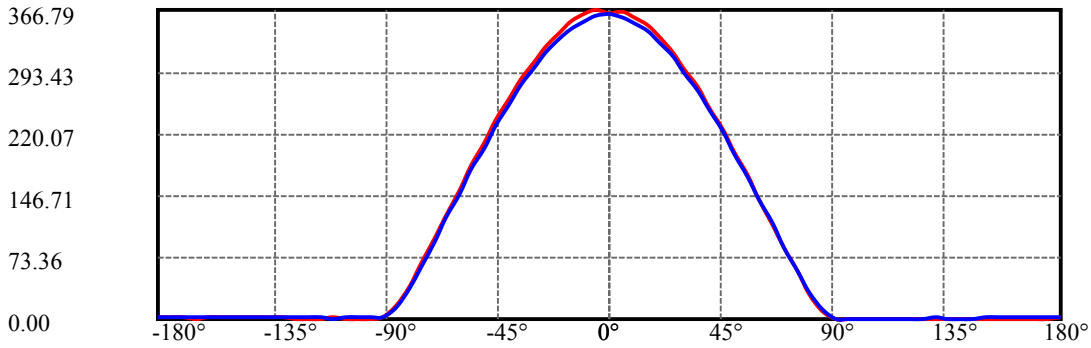
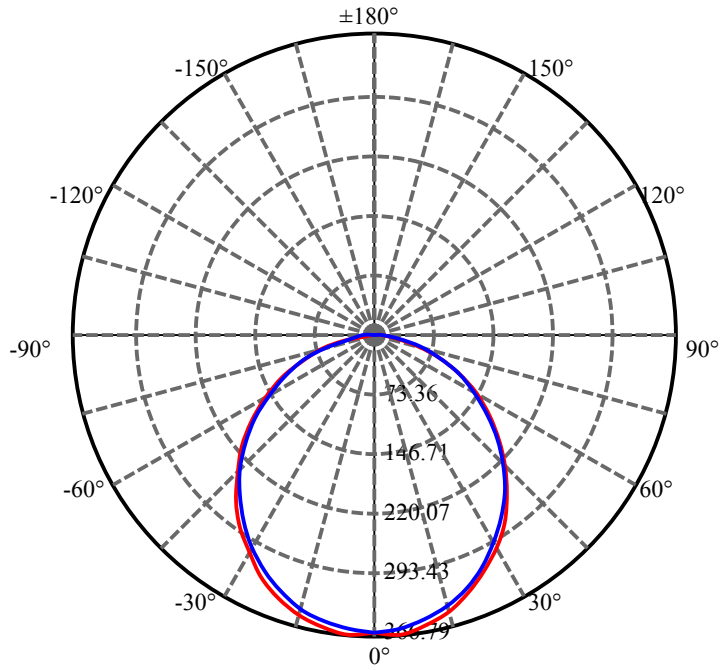
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	361.422	.000	.000	.000%	.000%
5.0	359.729	8.621	8.621	.879%	.879%
10.0	353.909	25.529	34.150	2.603%	3.483%
15.0	344.423	41.425	75.575	4.225%	7.707%
20.0	331.449	55.701	131.276	5.680%	13.388%
25.0	315.131	67.814	199.090	6.916%	20.303%
30.0	296.384	77.388	276.478	7.892%	28.196%
35.0	275.293	84.183	360.662	8.585%	36.781%
40.0	251.928	87.963	448.624	8.971%	45.751%
45.0	226.862	88.652	537.276	9.041%	54.792%
50.0	200.748	86.405	623.681	8.812%	63.604%
55.0	173.515	81.377	705.058	8.299%	71.903%
60.0	145.365	73.708	778.766	7.517%	79.420%
65.0	116.799	63.733	842.499	6.500%	85.919%
70.0	88.257	51.922	894.421	5.295%	91.214%
75.0	60.120	38.783	933.204	3.955%	95.169%
80.0	33.410	25.026	958.230	2.552%	97.721%
85.0	11.914	12.316	970.546	1.256%	98.977%
90.0	.976	3.530	974.075	.360%	99.337%
95.0	.881	.508	974.584	.052%	99.389%
100.0	.881	.479	975.062	.049%	99.438%
105.0	.940	.487	975.550	.050%	99.488%
110.0	.976	.501	976.051	.051%	99.539%
115.0	.952	.488	976.539	.050%	99.589%
120.0	1.024	.480	977.019	.049%	99.638%
125.0	1.059	.481	977.501	.049%	99.687%
130.0	1.095	.468	977.969	.048%	99.734%
135.0	1.083	.440	978.409	.045%	99.779%
140.0	1.119	.408	978.817	.042%	99.821%
145.0	1.178	.383	979.200	.039%	99.860%
150.0	1.202	.351	979.551	.036%	99.896%
155.0	1.262	.312	979.863	.032%	99.928%
160.0	1.155	.253	980.116	.026%	99.953%
165.0	1.202	.194	980.311	.020%	99.973%
170.0	1.238	.145	980.455	.015%	99.988%
175.0	1.226	.088	980.543	.009%	99.997%
180.0	1.243	.030	980.573	.003%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	276.48	28.20%	28.20%
0-40	448.62	45.75%	45.75%
0-60	778.77	79.42%	79.42%
0-90	974.08	99.34%	99.34%
0-120	977.02	99.64%	99.64%
0-180	980.57	100.00%	100.00%
60-90	269.02	27.43%	27.43%
90-120	6.47	0.66%	0.66%
90-130	7.42	0.76%	0.76%
90-150	9.01	0.92%	0.92%
90-180	10.00	1.02%	1.02%
0-60.45	784.46	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	34.15
10-20	97.13
20-30	145.20
30-40	172.15
40-50	175.06
50-60	155.09
60-70	115.65
70-80	63.81
80-90	15.85
90-100	0.99
100-110	0.99
110-120	0.97
120-130	0.95
130-140	0.85
140-150	0.73
150-160	0.57
160-170	0.34
170-180	0.09



C0/C180: —

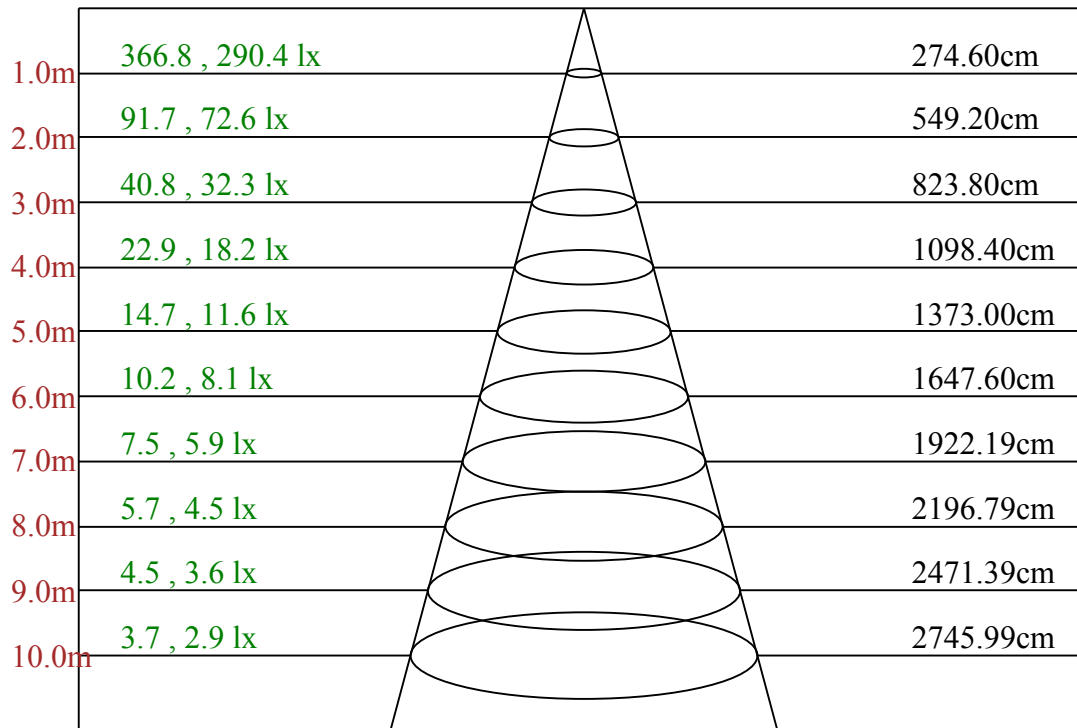
C90/C270: —

Field angle(10%Imax):C0/180Left:75.2 Right:83.6

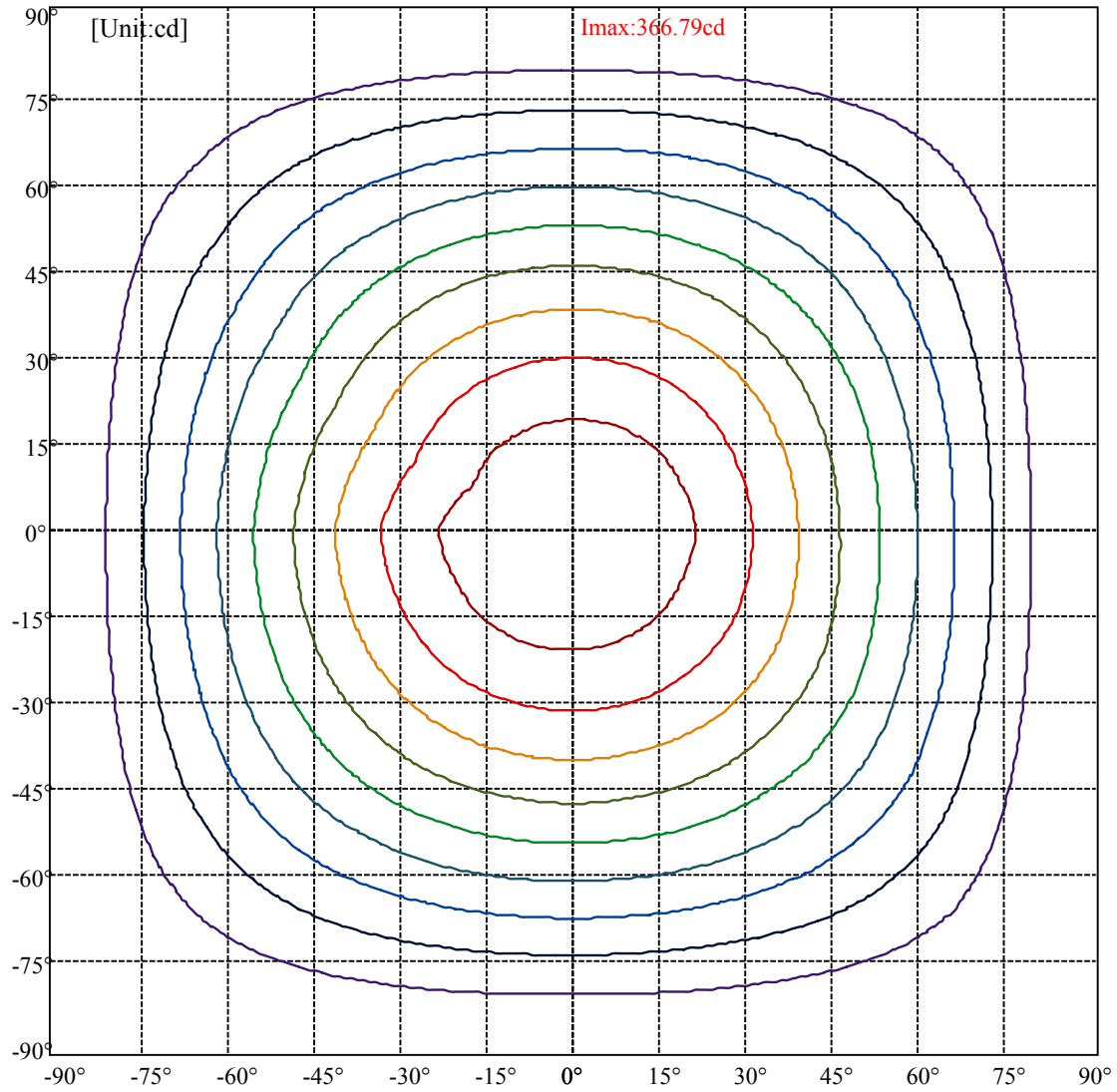
:C90/270Left:79.9 Right:79.1

Beam Angle(50%Imax):C0/180Left:49.9 Right:57.7

:C90/270Left:54.3 Right:52.9



Max , Ave      Beam angle of C180plane107.81



(10%Imax) 36.6787	—
(20%Imax) 73.3574	—
(30%Imax) 110.036	—
(40%Imax) 146.715	—
(50%Imax) 183.393	—
(60%Imax) 220.072	—
(70%Imax) 256.751	—
(80%Imax) 293.43	—
(90%Imax) 330.108	—

## Intensity data(cd)

Page: 7 Total:8

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	361.42	365.26	358.03	348.32	334.03	316.32	297.28	275.38	250.43
22.5	361.42	360.88	354.22	344.32	330.79	313.85	294.23	273.66	248.52
45.0	361.42	359.36	352.89	343.36	329.46	313.27	293.47	271.57	248.33
67.5	361.42	358.41	352.12	341.65	328.32	312.51	292.71	271.00	247.57
90.0	361.42	357.84	351.17	341.27	327.37	311.18	291.75	270.43	247.57
112.5	361.42	357.08	350.79	340.89	327.18	311.56	291.75	269.85	247.19
135.0	361.42	356.89	350.98	340.89	327.75	310.80	291.75	270.43	246.43
157.5	361.42	356.12	350.41	339.94	326.80	310.42	290.61	269.66	246.05
180.0	361.42	366.79	361.27	352.31	340.13	324.13	305.66	285.47	261.09
202.5	361.42	362.98	357.84	348.89	336.51	319.56	301.85	281.09	257.86
225.0	361.42	361.07	355.55	346.60	334.22	318.61	299.75	279.19	256.33
247.5	361.42	359.36	354.03	344.70	333.27	316.51	298.42	277.47	254.62
270.0	361.42	358.98	353.84	345.08	331.56	316.13	297.85	277.47	254.24
292.5	361.42	358.60	353.08	344.32	331.94	314.99	298.04	276.90	254.05
315.0	361.42	358.03	353.08	343.94	331.94	316.32	298.23	277.09	255.76
337.5	361.42	358.03	353.27	344.32	331.94	315.94	298.80	278.04	254.81
360.0	361.42	365.26	358.03	348.32	334.03	316.32	297.28	275.38	250.43
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	224.53	198.25	170.44	141.69	112.55	84.75	55.99	29.52	8.76
22.5	222.62	197.11	169.49	141.12	112.93	84.17	56.94	30.47	9.90
45.0	223.20	196.53	168.92	141.50	113.31	84.75	56.94	30.66	10.67
67.5	222.82	196.34	169.49	140.93	114.07	85.51	57.51	31.61	10.28
90.0	222.24	195.96	169.30	141.50	112.93	85.13	57.89	31.42	10.47
112.5	222.24	195.96	168.16	141.12	112.74	84.94	56.94	31.61	10.47
135.0	221.29	195.96	167.97	140.16	111.79	84.75	56.75	30.47	10.67
157.5	220.53	194.06	167.40	139.59	111.22	83.22	56.18	29.90	9.90
180.0	235.96	209.29	182.63	153.50	123.98	95.03	65.70	37.71	14.85
202.5	233.10	207.01	179.40	151.59	122.45	93.13	63.99	36.18	14.28
225.0	231.58	205.10	177.49	149.12	120.74	91.60	63.42	35.80	13.71
247.5	229.67	203.77	177.30	149.12	119.60	90.08	62.66	35.99	13.14
270.0	230.43	203.77	176.73	148.16	119.98	90.84	61.89	35.42	12.95
292.5	229.67	203.96	176.73	148.35	119.60	90.65	61.89	35.61	12.95
315.0	229.86	203.96	176.92	148.92	120.17	91.03	63.42	35.61	13.71
337.5	230.05	204.91	177.87	149.50	120.74	92.55	63.80	36.56	13.90
360.0	224.53	198.25	170.44	141.69	112.55	84.75	55.99	29.52	8.76
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.19	0.19	0.38	0.19	0.19	0.38	0.57	0.38
22.5	0.76	0.76	0.76	0.76	0.95	0.95	0.95	0.76	1.14
45.0	0.76	0.76	0.76	0.95	0.95	1.14	0.95	0.76	0.76
67.5	0.76	0.95	0.57	0.76	1.14	0.76	0.95	1.14	0.95
90.0	0.76	0.95	0.95	0.95	0.95	0.76	0.95	0.95	1.14
112.5	0.95	0.57	0.95	0.76	0.95	0.95	0.95	0.95	1.14
135.0	0.76	0.95	0.76	0.76	0.76	0.95	0.95	1.14	1.14
157.5	0.76	0.76	0.76	0.95	0.95	0.95	1.14	1.14	0.95
180.0	1.52	0.95	0.95	0.95	1.33	0.95	0.95	0.95	1.33
202.5	1.14	1.14	0.76	1.14	0.95	1.14	0.95	1.33	0.95
225.0	1.14	0.95	1.14	1.14	0.95	0.95	1.14	1.14	1.33
247.5	1.14	0.95	0.95	1.14	1.33	1.14	1.33	0.95	1.14
270.0	1.14	1.14	1.14	1.14	0.95	1.14	1.14	1.33	1.33
292.5	1.14	0.95	1.14	1.14	1.14	0.95	1.14	1.33	1.14
315.0	1.33	1.14	1.14	0.95	1.14	1.14	1.33	1.14	1.33
337.5	1.52	0.95	1.14	1.14	0.95	1.14	1.14	1.33	1.33
360.0	0.00	0.19	0.19	0.38	0.19	0.19	0.38	0.57	0.38

## Intensity data(cd)

Page: 8 Total:8

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.57	0.38	0.57	0.57	0.57	0.57	0.57	0.57	0.57
22.5	0.95	0.95	0.95	1.33	1.14	0.95	1.33	1.33	1.33
45.0	1.14	1.14	1.33	1.33	1.14	1.14	1.33	1.33	1.14
67.5	0.95	1.14	1.14	1.14	1.14	1.33	1.14	1.52	1.33
90.0	0.95	0.95	0.95	1.14	1.33	1.33	1.33	1.14	1.33
112.5	1.14	1.14	1.33	1.14	1.33	1.14	1.14	1.33	1.14
135.0	1.14	0.95	1.14	1.14	1.33	1.14	1.14	1.33	1.33
157.5	1.14	1.14	1.33	1.14	1.33	1.14	1.33	1.14	1.33
180.0	1.14	1.14	1.14	1.14	1.14	1.14	0.95	1.14	1.14
202.5	1.14	1.33	1.14	1.33	1.52	1.14	1.14	1.14	1.33
225.0	1.14	1.33	1.14	1.33	1.52	1.14	1.33	1.33	1.14
247.5	1.14	1.33	1.33	1.33	1.33	1.14	1.33	1.33	1.33
270.0	1.14	1.33	1.33	1.33	1.52	1.33	1.33	1.33	1.33
292.5	1.14	1.14	1.33	1.52	1.14	1.33	1.33	1.33	1.33
315.0	1.14	1.33	1.33	1.14	1.33	1.14	1.14	1.33	1.14
337.5	1.33	1.14	1.33	1.14	1.33	1.33	1.33	1.14	1.33
360.0	0.57	0.38	0.57	0.57	0.57	0.57	0.57	0.57	0.57
C/γ(°)	180.0								
0.0	1.24								
22.5	1.24								
45.0	1.24								
67.5	1.24								
90.0	1.24								
112.5	1.24								
135.0	1.24								
157.5	1.24								
180.0	1.24								
202.5	1.24								
225.0	1.24								
247.5	1.24								
270.0	1.24								
292.5	1.24								
315.0	1.24								
337.5	1.24								
360.0	1.24								