



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

Tel:0755-21038430

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

LumCAT: LL6SR-27K

Luminaire:

Report No:

Voltage(V): 120.04

Test No:

Current(A): 0.1514

LampCAT:

Power (W): 17.9340

Lamp flux(lm): 1105.8

PF: 0.9868

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1105.81

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 61.66

Central intensity(cd): 441.241

Maximum intensity(cd): 441.241

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=104.3

[C90/270]Total=104.2

Field angle(10%Imax): [C0/180]Total=154.3

[C90/270]Total=154.4

Maximum s/h(1/2): C0_180=1.22 C90_270=1.22

Maximum s/h(1/4): C0_180=1.74 C90_270=1.32

Up flux rate of lamp(%): 0.25%

Down flux rate of lamp(%): 99.75%

Up flux rate of LUM(%): 0.25%

Down flux rate of LUM(%): 99.75%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 82.466%

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

Date:
Humidity(%): 58%

Operator: Zac

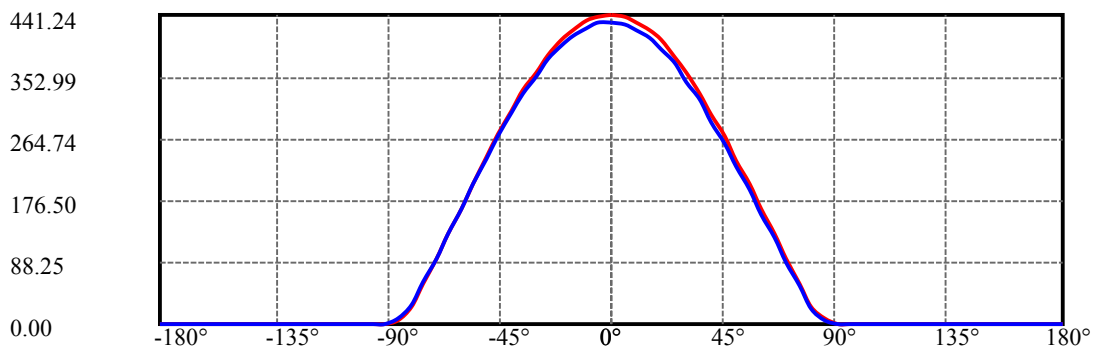
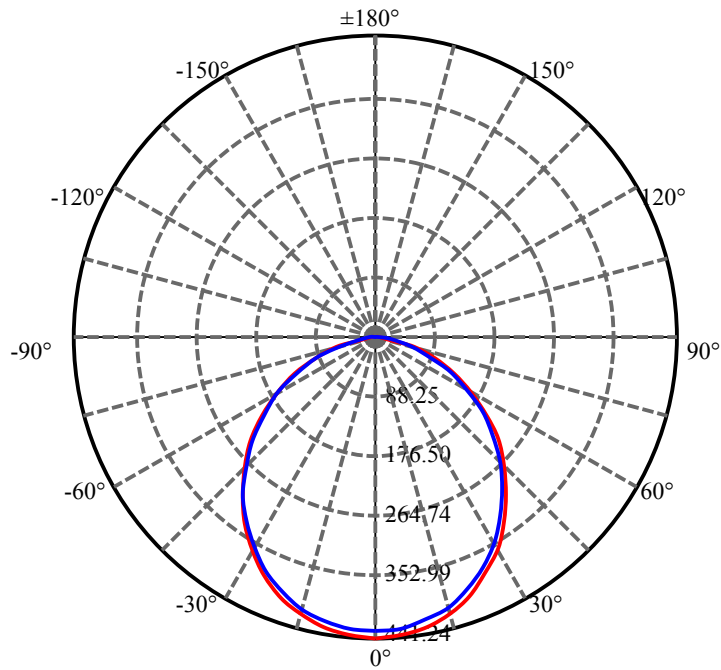
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	431.969	.000	.000	.000%	.000%
5.0	429.864	10.303	10.303	.932%	.932%
10.0	423.069	30.512	40.815	2.759%	3.691%
15.0	412.278	49.552	90.367	4.481%	8.172%
20.0	397.330	66.723	157.090	6.034%	14.206%
25.0	377.240	81.238	238.329	7.346%	21.552%
30.0	353.180	92.435	330.764	8.359%	29.911%
35.0	325.829	99.989	430.752	9.042%	38.954%
40.0	295.960	103.741	534.493	9.381%	48.335%
45.0	263.706	103.627	638.120	9.371%	57.706%
50.0	229.800	99.720	737.840	9.018%	66.724%
55.0	194.788	92.320	830.159	8.349%	75.073%
60.0	158.938	81.763	911.922	7.394%	82.466%
65.0	123.073	68.557	980.479	6.200%	88.666%
70.0	87.809	53.397	1033.876	4.829%	93.495%
75.0	54.782	37.271	1071.147	3.370%	96.865%
80.0	24.687	21.264	1092.411	1.923%	98.788%
85.0	7.021	8.616	1101.026	.779%	99.567%
90.0	.333	2.014	1103.040	.182%	99.749%
95.0	.213	.149	1103.189	.014%	99.763%
100.0	.200	.112	1103.302	.010%	99.773%
105.0	.253	.121	1103.423	.011%	99.784%
110.0	.293	.143	1103.565	.013%	99.797%
115.0	.346	.162	1103.727	.015%	99.812%
120.0	.346	.168	1103.896	.015%	99.827%
125.0	.386	.169	1104.065	.015%	99.842%
130.0	.573	.208	1104.273	.019%	99.861%
135.0	.573	.231	1104.505	.021%	99.882%
140.0	.639	.224	1104.729	.020%	99.902%
145.0	.666	.218	1104.947	.020%	99.922%
150.0	.759	.210	1105.157	.019%	99.941%
155.0	.760	.192	1105.349	.017%	99.958%
160.0	.799	.163	1105.512	.015%	99.973%
165.0	.800	.132	1105.644	.012%	99.985%
170.0	.746	.092	1105.736	.008%	99.993%
175.0	.799	.055	1105.791	.005%	99.998%
180.0	.826	.019	1105.811	.002%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	330.76	29.91%	29.91%
0-40	534.49	48.33%	48.33%
0-60	911.92	82.47%	82.47%
0-90	1103.04	99.75%	99.75%
0-120	1103.90	99.83%	99.83%
0-180	1105.81	100.00%	100.00%
60-90	272.88	24.68%	24.68%
90-120	2.87	0.26%	0.26%
90-130	3.25	0.29%	0.29%
90-150	4.13	0.37%	0.37%
90-180	4.76	0.43%	0.43%
0-58.33	884.65	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	40.82
10-20	116.28
20-30	173.67
30-40	203.73
40-50	203.35
50-60	174.08
60-70	121.95
70-80	58.53
80-90	10.63
90-100	0.26
100-110	0.26
110-120	0.33
120-130	0.38
130-140	0.46
140-150	0.43
150-160	0.36
160-170	0.22
170-180	0.06

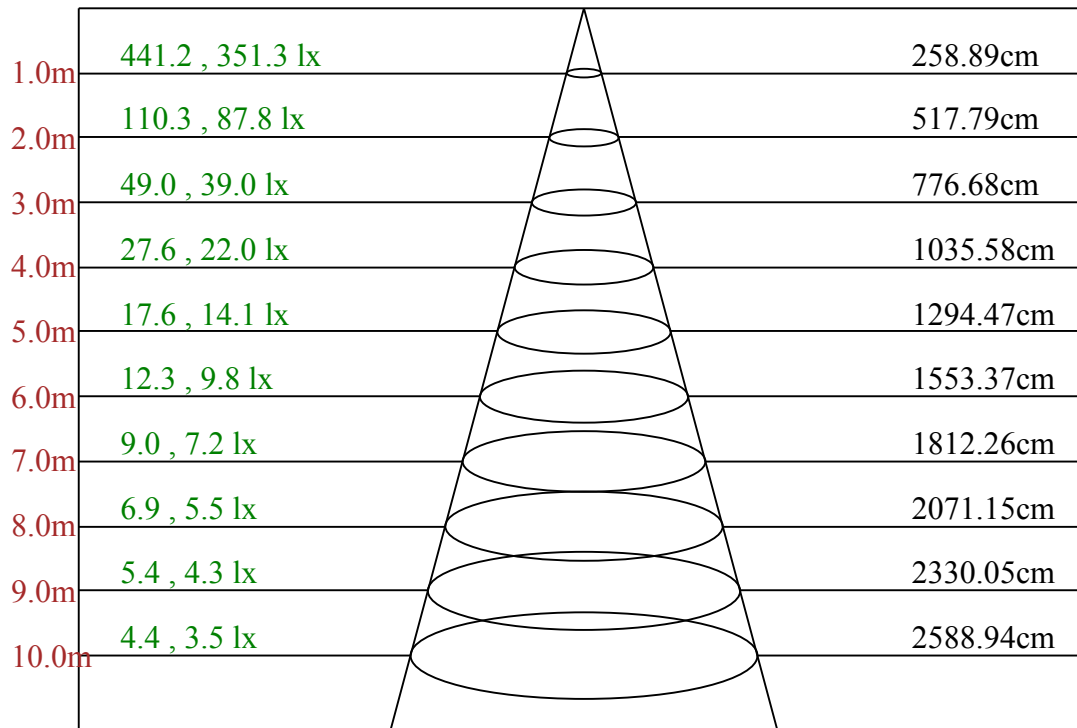


C0/C180: —

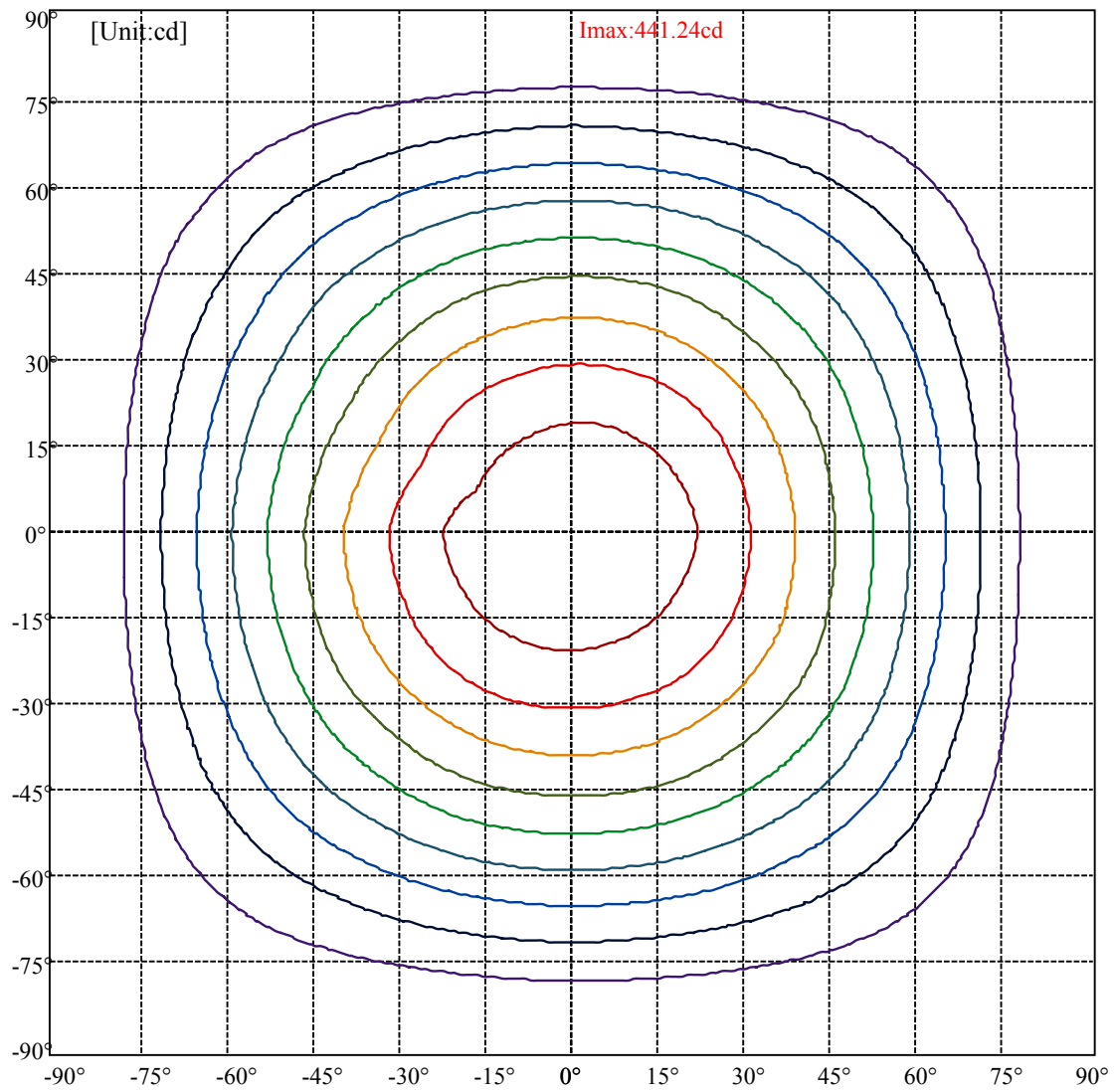
C90/C270: —

Field angle(10%Imax):C0/180Left:77.1 Right:77.2
:C90/270Left:77.6 Right:76.7

Beam Angle(50%Imax):C0/180Left:52.3 Right:51.9
:C90/270Left:52.8 Right:51.4



Max , Ave Beam angle of C0plane104.63



(10%Imax)	44.0729	—
(20%Imax)	88.1459	—
(30%Imax)	132.219	—
(40%Imax)	176.292	—
(50%Imax)	220.365	—
(60%Imax)	264.438	—
(70%Imax)	308.511	—
(80%Imax)	352.584	—
(90%Imax)	396.656	—

Intensity data(cd)

Page: 7 Total:8

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	441.24	438.26	430.58	419.93	404.37	381.98	357.68	330.19	299.49
22.5	435.27	432.72	425.89	414.60	399.46	378.79	353.63	326.14	296.72
45.0	432.50	429.73	422.70	411.40	395.63	377.08	352.35	323.36	292.46
67.5	431.22	428.67	421.63	410.12	394.35	373.03	349.16	321.87	291.60
90.0	430.16	428.24	420.14	408.84	392.43	371.75	346.39	320.17	289.05
112.5	428.45	425.68	418.22	406.07	390.30	368.77	345.11	317.18	287.34
135.0	428.67	424.62	416.73	405.22	389.44	369.62	343.83	315.90	284.57
157.5	428.24	425.47	417.58	405.43	389.66	367.91	342.97	315.05	285.42
180.0	441.24	438.68	431.86	420.35	405.43	383.48	360.24	333.17	303.75
202.5	435.27	433.57	426.96	415.88	401.81	381.56	357.68	331.04	302.05
225.0	432.50	430.80	424.62	414.38	399.89	381.13	358.11	329.12	298.64
247.5	431.22	429.52	423.55	413.96	399.04	379.64	356.40	329.33	299.28
270.0	430.16	429.09	422.70	412.25	398.40	378.79	354.49	329.12	300.13
292.5	428.45	427.81	421.84	412.25	398.18	379.21	355.98	329.12	301.20
315.0	428.67	426.96	421.42	412.25	398.82	381.13	358.75	330.61	300.34
337.5	428.24	428.03	422.70	413.53	400.10	381.98	358.11	331.89	303.33
360.0	441.24	438.26	430.58	419.93	404.37	381.98	357.68	330.19	299.49
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	267.52	233.84	199.73	163.71	128.11	91.87	58.62	25.58	7.03
22.5	264.11	229.79	194.62	159.23	122.99	87.82	53.29	25.15	7.46
45.0	258.78	225.74	190.35	154.54	119.80	84.84	52.44	24.09	7.25
67.5	259.84	225.52	191.42	155.82	119.80	85.05	53.08	23.45	6.82
90.0	257.92	224.67	190.57	156.03	122.35	87.82	53.93	22.38	6.18
112.5	255.37	221.90	187.16	151.77	116.60	82.92	50.31	21.32	5.97
135.0	251.74	217.21	183.53	148.36	112.98	78.87	48.17	20.89	5.97
157.5	253.23	218.92	184.17	149.43	114.47	80.15	47.54	19.82	5.76
180.0	270.93	237.25	201.44	164.99	129.18	92.73	57.77	25.79	6.82
202.5	269.22	234.05	199.09	161.79	124.27	88.04	56.27	24.73	6.82
225.0	265.17	230.64	195.89	158.38	121.71	86.12	53.50	24.51	6.82
247.5	267.73	234.26	198.03	162.00	125.13	89.53	55.42	24.94	7.46
270.0	267.94	235.12	199.52	164.99	128.54	93.36	60.32	27.50	7.46
292.5	269.43	235.12	199.09	163.28	127.90	91.02	58.19	27.50	7.67
315.0	268.37	234.90	199.09	162.43	125.76	91.23	57.98	28.14	8.31
337.5	271.99	237.89	202.93	166.27	129.60	93.58	59.69	29.20	8.53
360.0	267.52	233.84	199.73	163.71	128.11	91.87	58.62	25.58	7.03
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.43	0.21	0.43	0.21	0.21	0.43	0.21	0.21	0.43
22.5	0.43	0.21	0.43	0.64	0.43	0.43	0.64	0.64	0.85
45.0	0.43	0.64	0.43	0.43	0.43	0.43	0.43	0.64	0.85
67.5	0.43	0.43	0.43	0.43	0.43	0.85	0.64	0.43	0.64
90.0	0.43	0.43	0.21	0.43	0.64	0.21	0.64	0.43	0.64
112.5	0.43	0.64	0.43	0.43	0.64	0.64	0.64	0.64	0.85
135.0	0.21	0.21	0.43	0.21	0.43	0.64	0.43	0.85	0.64
157.5	0.43	0.64	0.43	0.64	0.43	0.64	0.43	0.64	0.85
180.0	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.43	0.43
202.5	0.00	0.00	0.00	0.00	0.21	0.00	0.43	0.21	0.64
225.0	0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.43
247.5	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.43
270.0	0.21	0.00	0.00	0.43	0.21	0.43	0.21	0.21	0.43
292.5	0.21	0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.43
315.0	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
337.5	0.85	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.21
360.0	0.43	0.21	0.43	0.21	0.21	0.43	0.21	0.21	0.43

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.43	0.64	0.64	0.64	0.43	0.64	0.43	0.64	0.64
22.5	0.85	0.64	0.85	0.85	0.85	0.85	0.85	0.85	0.85
45.0	0.64	0.85	0.64	0.64	0.85	1.07	0.85	0.64	0.85
67.5	0.85	1.07	0.64	0.85	0.85	0.85	0.85	0.85	0.64
90.0	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
112.5	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.64	0.64
135.0	0.64	0.64	0.64	0.85	0.85	1.07	0.85	0.85	0.85
157.5	0.64	0.64	0.85	1.07	0.85	0.64	0.85	0.85	0.85
180.0	0.21	0.21	0.43	0.64	0.85	0.64	0.85	0.85	0.64
202.5	0.64	0.43	0.43	0.85	0.85	1.07	0.85	0.64	0.85
225.0	0.43	0.43	0.64	0.64	0.64	0.64	0.85	0.64	0.85
247.5	0.43	0.64	0.64	0.64	0.64	0.85	0.64	0.85	1.07
270.0	0.43	0.64	0.64	0.64	0.85	0.64	0.85	0.85	0.85
292.5	0.64	0.85	0.64	0.64	0.43	0.64	0.85	0.64	0.64
315.0	0.43	0.43	0.64	0.85	0.64	0.64	0.85	0.64	0.85
337.5	0.21	0.43	0.64	0.64	0.85	0.85	0.64	0.64	0.85
360.0	0.43	0.64	0.64	0.64	0.43	0.64	0.43	0.64	0.64
C/γ(°)	180.0								
0.0	0.64								
22.5	0.85								
45.0	0.85								
67.5	0.85								
90.0	0.85								
112.5	0.64								
135.0	1.07								
157.5	0.85								
180.0	0.64								
202.5	0.85								
225.0	0.85								
247.5	0.85								
270.0	0.85								
292.5	0.64								
315.0	1.07								
337.5	0.85								
360.0	0.64								