



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6S-27K

Luminaire:

Report No:

Voltage(V): 120.12

Test No:

Current(A): 0.1438

LampCAT:

Power (W): 16.9850

Lamp flux(lm): 1004.3

PF: 0.9833

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1004.34

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 59.13

Central intensity(cd): 385.493

Maximum intensity(cd): 385.493

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=106.1

[C90/270]Total=105.9

Field angle(10%Imax): [C0/180]Total=158.1

[C90/270]Total=158.0

Maximum s/h(1/2): C0_180=1.24 C90_270=1.22

Maximum s/h(1/4): C0_180=1.77 C90_270=1.33

Up flux rate of lamp(%): 0.28%

Down flux rate of lamp(%): 99.72%

Up flux rate of LUM(%): 0.28%

Down flux rate of LUM(%): 99.72%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 80.226%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	377.739	.000	.000	.000%	.000%
5.0	375.714	9.007	9.007	.897%	.897%
10.0	369.426	26.656	35.663	2.654%	3.551%
15.0	359.225	43.223	78.886	4.304%	7.855%
20.0	345.395	58.071	136.957	5.782%	13.636%
25.0	328.484	70.677	207.635	7.037%	20.674%
30.0	308.454	80.605	288.240	8.026%	28.699%
35.0	285.553	87.472	375.711	8.709%	37.409%
40.0	260.578	91.118	466.829	9.072%	46.481%
45.0	233.975	91.570	558.400	9.117%	55.599%
50.0	205.930	88.889	647.289	8.850%	64.449%
55.0	177.177	83.300	730.589	8.294%	72.743%
60.0	147.940	75.150	805.739	7.482%	80.226%
65.0	118.379	64.743	870.481	6.446%	86.672%
70.0	88.793	52.457	922.939	5.223%	91.895%
75.0	59.916	38.870	961.809	3.870%	95.765%
80.0	32.617	24.759	986.568	2.465%	98.230%
85.0	10.959	11.841	998.409	1.179%	99.409%
90.0	.311	3.086	1001.495	.307%	99.717%
95.0	.211	.143	1001.638	.014%	99.731%
100.0	.236	.122	1001.760	.012%	99.743%
105.0	.274	.136	1001.896	.014%	99.756%
110.0	.348	.162	1002.058	.016%	99.773%
115.0	.360	.179	1002.238	.018%	99.790%
120.0	.435	.193	1002.431	.019%	99.810%
125.0	.485	.213	1002.643	.021%	99.831%
130.0	.571	.230	1002.873	.023%	99.854%
135.0	.572	.231	1003.104	.023%	99.877%
140.0	.547	.207	1003.311	.021%	99.897%
145.0	.671	.203	1003.514	.020%	99.918%
150.0	.696	.201	1003.715	.020%	99.938%
155.0	.758	.184	1003.899	.018%	99.956%
160.0	.770	.160	1004.060	.016%	99.972%
165.0	.708	.122	1004.181	.012%	99.984%
170.0	.770	.088	1004.269	.009%	99.993%
175.0	.758	.055	1004.324	.005%	99.998%
180.0	.795	.019	1004.342	.002%	100.000%

Equipment: GMS-3000
Temperature($^{\circ}$ C): 25

Date:
Humidity(%): 58%

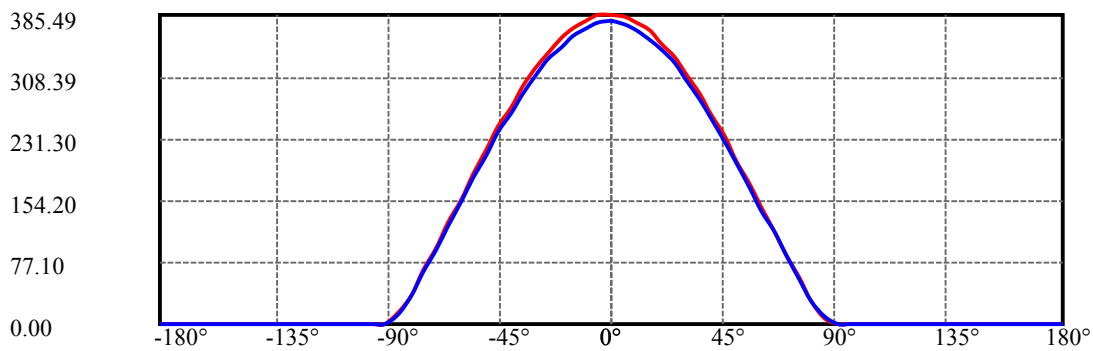
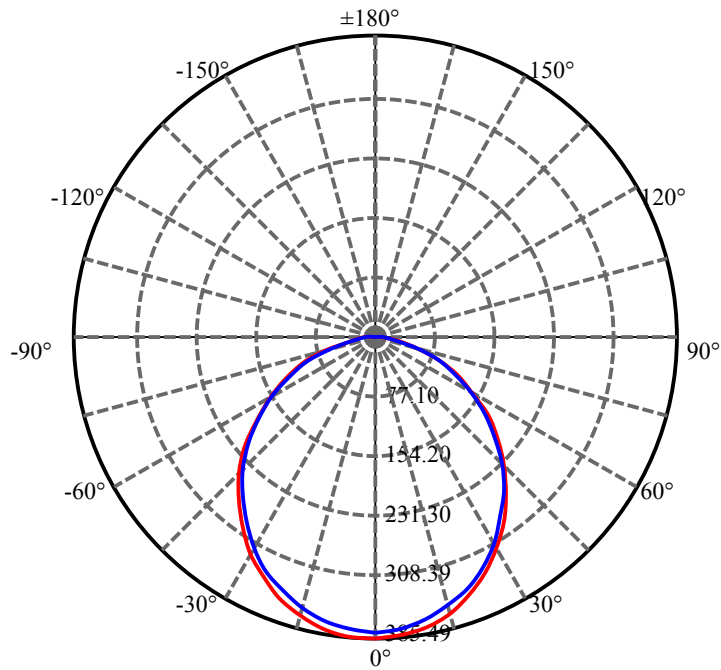
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	288.24	28.70%	28.70%
0-40	466.83	46.48%	46.48%
0-60	805.74	80.23%	80.23%
0-90	1001.50	99.72%	99.72%
0-120	1002.43	99.81%	99.81%
0-180	1004.34	100.00%	100.00%
60-90	270.91	26.97%	26.97%
90-120	4.02	0.40%	0.40%
90-130	4.46	0.44%	0.44%
90-150	5.31	0.53%	0.53%
90-180	5.91	0.59%	0.59%
0-59.85	803.47	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	35.66
10-20	101.29
20-30	151.28
30-40	178.59
40-50	180.46
50-60	158.45
60-70	117.20
70-80	63.63
80-90	14.93
90-100	0.26
100-110	0.30
110-120	0.37
120-130	0.44
130-140	0.44
140-150	0.40
150-160	0.34
160-170	0.21
170-180	0.05

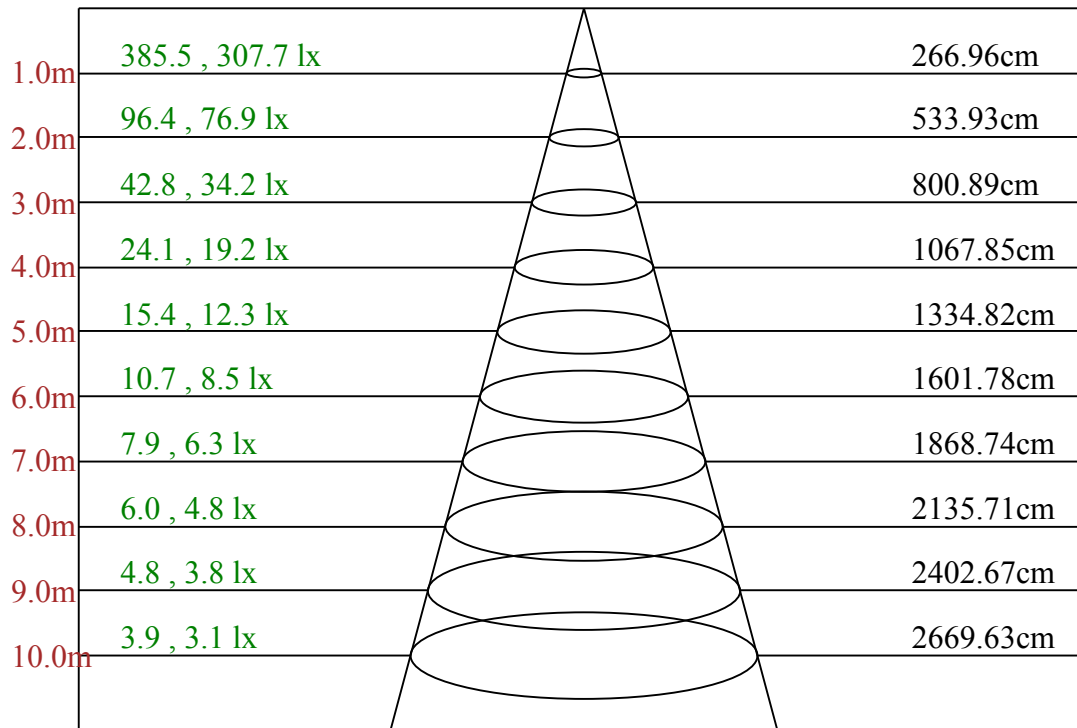


C0/C180: —

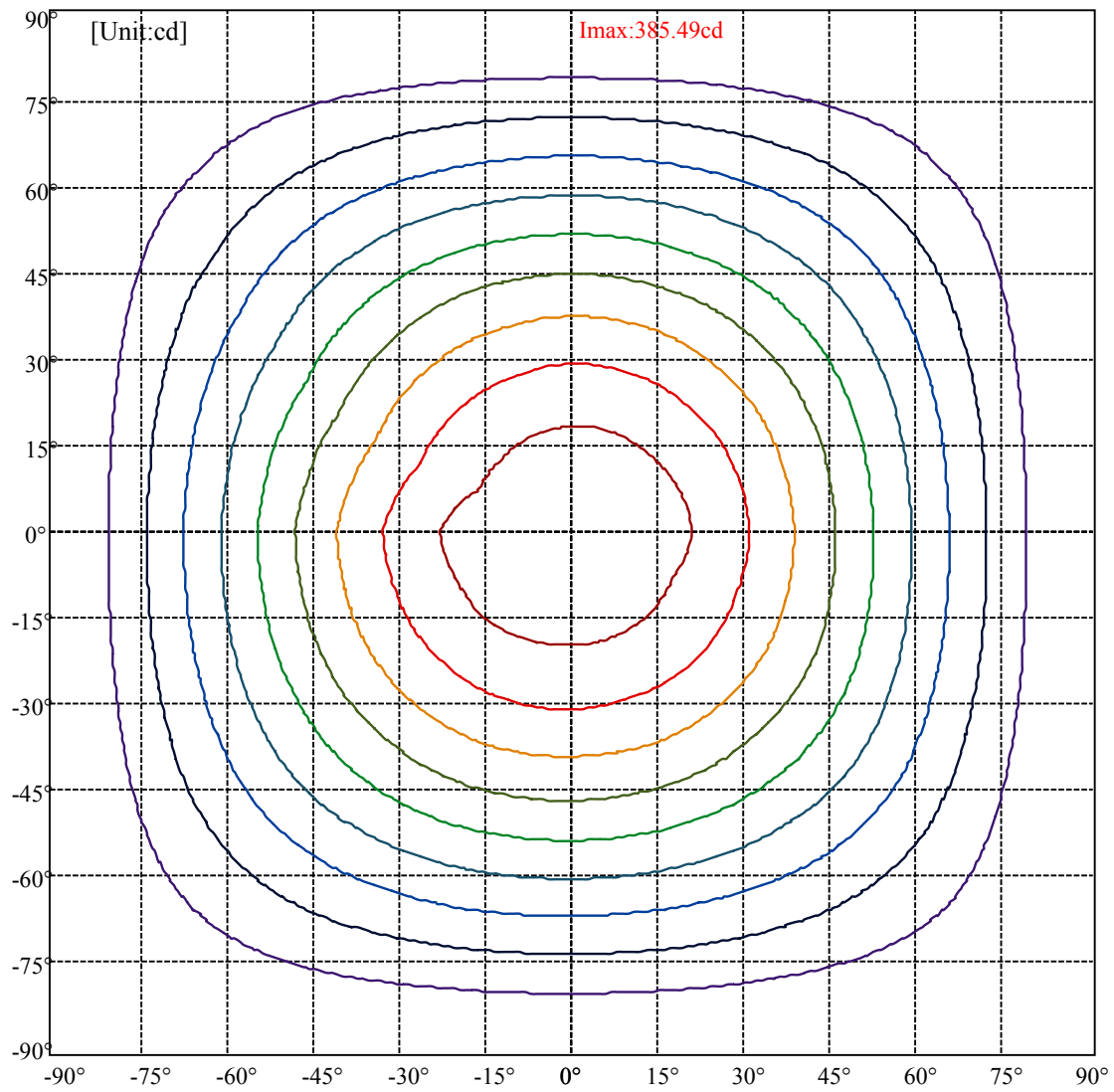
C90/C270: —










Field angle(10%Imax):C0/180Left:79.7 Right:78.4
 :C90/270Left:79.7 Right:78.3

Beam Angle(50%Imax):C0/180Left:54.1 Right:52.0
 :C90/270Left:53.9 Right:52.0



Max , Ave Beam angle of C0plane106.27



(10%Imax)	38.5294	
(20%Imax)	77.0588	
(30%Imax)	115.588	
(40%Imax)	154.118	
(50%Imax)	192.647	
(60%Imax)	231.177	
(70%Imax)	269.706	
(80%Imax)	308.235	
(90%Imax)	346.765	

Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	385.49	383.11	376.75	365.61	349.91	332.21	311.54	287.48	261.24
22.5	381.32	377.94	371.38	360.84	346.13	328.43	307.96	283.70	258.06
45.0	378.73	375.95	368.40	357.86	342.55	325.25	304.58	281.32	254.68
67.5	376.75	374.36	367.00	357.06	342.55	325.05	304.18	280.92	255.27
90.0	377.14	374.16	366.61	355.08	341.95	324.86	303.78	279.73	256.07
112.5	374.56	372.37	364.82	354.48	340.36	321.48	301.60	278.73	253.28
135.0	373.96	370.58	364.22	353.29	338.77	321.48	300.80	278.14	252.89
157.5	373.96	370.58	364.42	353.68	340.16	321.87	301.79	278.53	253.88
180.0	385.49	384.50	377.74	368.20	355.87	338.77	319.69	296.23	271.58
202.5	381.32	380.13	374.56	364.02	351.10	335.19	315.91	292.85	268.59
225.0	378.73	377.34	371.78	362.43	349.51	332.61	312.53	291.85	265.81
247.5	376.75	376.15	370.78	360.84	346.73	331.22	311.93	290.06	265.01
270.0	377.14	375.16	369.79	359.65	345.33	330.42	310.94	288.08	263.23
292.5	374.56	373.37	368.00	358.45	345.53	329.43	309.15	287.08	263.82
315.0	373.96	372.77	367.00	358.06	345.13	328.43	309.55	287.28	262.43
337.5	373.96	372.97	367.60	358.06	344.74	329.03	309.35	286.88	263.42
360.0	385.49	383.11	376.75	365.61	349.91	332.21	311.54	287.48	261.24
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	234.20	204.58	175.55	145.33	115.91	85.69	56.86	29.62	8.35
22.5	230.62	201.79	172.77	143.74	114.12	83.70	55.47	29.42	8.55
45.0	228.63	200.40	170.98	141.95	113.32	83.90	55.07	28.83	8.95
67.5	227.44	199.41	171.37	142.15	113.12	84.49	55.67	29.23	8.95
90.0	228.04	200.00	170.78	141.95	114.32	85.09	56.06	28.43	8.95
112.5	227.04	198.81	170.58	141.75	112.73	84.30	55.87	29.23	9.54
135.0	225.85	198.41	170.18	141.55	112.13	83.30	55.87	29.82	9.34
157.5	226.45	198.41	169.98	142.15	112.73	83.90	55.67	30.02	9.54
180.0	245.53	217.50	187.08	156.27	126.64	96.22	66.01	36.98	13.92
202.5	242.15	213.72	184.10	155.87	125.05	94.63	65.61	36.98	13.52
225.0	239.37	211.73	183.30	153.68	123.06	93.84	64.22	36.18	13.32
247.5	239.37	211.73	182.91	153.08	123.46	93.24	63.62	35.59	13.12
270.0	238.37	211.34	182.31	153.28	122.87	93.04	64.41	36.18	12.53
292.5	237.38	209.15	181.71	151.69	121.67	91.85	63.62	35.39	12.33
315.0	235.99	208.35	180.72	150.90	120.88	91.85	62.43	34.59	12.13
337.5	237.18	209.55	180.52	151.69	122.07	91.65	62.23	35.39	12.33
360.0	234.20	204.58	175.55	145.33	115.91	85.69	56.86	29.62	8.35
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.40	0.20	0.20	0.20	0.40	0.60	0.40	0.80	0.60
22.5	0.20	0.20	0.20	0.40	0.80	0.40	0.60	0.80	0.80
45.0	0.40	0.40	0.60	0.60	0.60	0.40	0.60	0.60	0.60
67.5	0.40	0.40	0.40	0.40	0.60	0.60	0.40	0.80	0.80
90.0	0.60	0.40	0.60	0.40	0.60	0.60	0.60	0.60	0.80
112.5	0.40	0.40	0.40	0.40	0.60	0.80	0.60	0.80	0.60
135.0	0.60	0.40	0.40	0.60	0.40	0.60	0.80	0.60	0.80
157.5	0.60	0.60	0.40	0.40	0.40	0.60	0.60	0.60	0.60
180.0	0.20	0.00	0.00	0.00	0.20	0.20	0.40	0.20	0.20
202.5	0.20	0.00	0.00	0.20	0.00	0.00	0.20	0.20	0.60
225.0	0.40	0.20	0.20	0.00	0.20	0.00	0.40	0.20	0.40
247.5	0.20	0.00	0.20	0.20	0.20	0.20	0.40	0.40	0.40
270.0	0.20	0.00	0.00	0.20	0.00	0.20	0.20	0.20	0.60
292.5	0.20	0.20	0.20	0.00	0.20	0.40	0.40	0.40	0.40
315.0	0.00	0.00	0.00	0.20	0.20	0.20	0.40	0.20	0.40
337.5	0.00	0.00	0.00	0.20	0.20	0.00	0.00	0.40	0.60
360.0	0.40	0.20	0.20	0.20	0.40	0.60	0.40	0.80	0.60

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	0.40	0.60	0.80	0.80	0.60	0.60	0.60	0.60	0.60
22.5	0.60	0.60	0.80	0.60	0.99	0.80	0.80	0.80	0.80
45.0	0.60	0.60	0.80	0.80	0.80	0.80	0.99	0.80	0.80
67.5	0.60	0.80	0.80	0.99	0.80	0.99	0.60	0.80	0.99
90.0	0.80	0.60	0.80	0.99	0.80	0.99	0.80	0.99	0.80
112.5	0.80	0.80	0.80	0.60	0.80	0.80	0.80	0.99	0.99
135.0	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
157.5	0.80	0.80	0.60	0.80	0.80	0.80	0.80	0.80	0.80
180.0	0.80	0.40	0.60	0.60	0.60	0.80	0.80	0.60	0.80
202.5	0.60	0.40	0.80	0.80	0.80	0.60	0.60	0.80	0.80
225.0	0.40	0.40	0.40	0.40	0.80	0.60	0.60	0.80	0.60
247.5	0.40	0.40	0.60	0.60	0.80	0.80	0.60	0.80	0.60
270.0	0.40	0.40	0.60	0.60	0.80	0.60	0.60	0.80	0.60
292.5	0.40	0.40	0.60	0.60	0.80	0.80	0.60	0.80	0.80
315.0	0.40	0.40	0.60	0.60	0.60	0.80	0.60	0.60	0.60
337.5	0.40	0.40	0.40	0.60	0.60	0.80	0.80	0.60	0.80
360.0	0.40	0.60	0.80	0.80	0.60	0.60	0.60	0.60	0.60
C/γ(°)	180.0								
0.0	0.40								
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