



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6SRG-30K

Luminaire:

Report No:

Voltage(V): 119.98

Test No:

Current(A): 0.1497

LampCAT:

Power (W): 17.7140

Lamp flux(lm): 1033.7

PF: 0.9862

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1033.67

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 58.35

Central intensity(cd): 418.361

Maximum intensity(cd): 418.361

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=103.1

[C90/270]Total=102.8

Field angle(10%Imax): [C0/180]Total=152.5

[C90/270]Total=152.8

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

Maximum s/h(1/4): C0_180=1.77 C90_270=1.32

Up flux rate of lamp(%): 0.65%

Down flux rate of lamp(%): 99.35%

Up flux rate of LUM(%): 0.65%

Down flux rate of LUM(%): 99.35%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 82.750%

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

Date:
Humidity(%): 58%

Operator: Zac

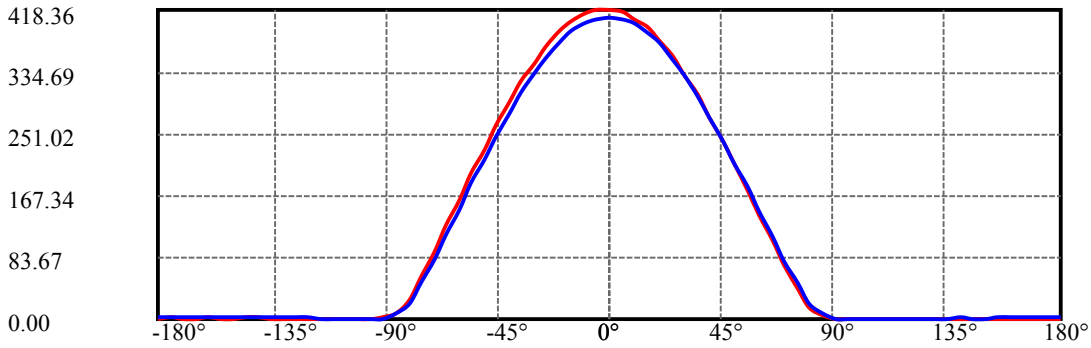
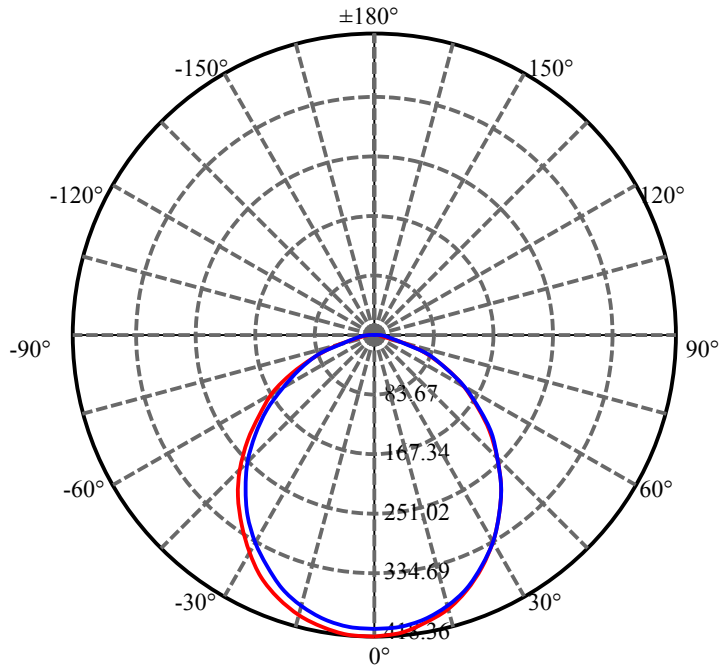
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	409.962	.000	.000	.000%	.000%
5.0	407.757	9.776	9.776	.946%	.946%
10.0	401.281	28.942	38.717	2.800%	3.746%
15.0	390.513	46.969	85.686	4.544%	8.290%
20.0	375.673	63.144	148.831	6.109%	14.398%
25.0	355.743	76.712	225.543	7.421%	21.820%
30.0	332.528	87.101	312.644	8.426%	30.246%
35.0	306.052	94.035	406.679	9.097%	39.343%
40.0	277.418	97.348	504.027	9.418%	48.761%
45.0	246.460	97.000	601.027	9.384%	58.145%
50.0	214.002	93.043	694.070	9.001%	67.146%
55.0	180.511	85.780	779.850	8.299%	75.445%
60.0	146.175	75.513	855.363	7.305%	82.750%
65.0	112.098	62.787	918.150	6.074%	88.825%
70.0	78.220	48.190	966.339	4.662%	93.487%
75.0	47.204	32.784	999.123	3.172%	96.658%
80.0	20.599	18.142	1017.265	1.755%	98.413%
85.0	6.980	7.494	1024.759	.725%	99.138%
90.0	1.020	2.191	1026.950	.212%	99.350%
95.0	.868	.517	1027.467	.050%	99.400%
100.0	.903	.481	1027.948	.047%	99.447%
105.0	.903	.483	1028.431	.047%	99.494%
110.0	.915	.475	1028.906	.046%	99.540%
115.0	.985	.481	1029.387	.047%	99.586%
120.0	1.067	.499	1029.886	.048%	99.634%
125.0	1.079	.496	1030.383	.048%	99.682%
130.0	1.185	.492	1030.875	.048%	99.730%
135.0	1.150	.472	1031.346	.046%	99.776%
140.0	1.232	.441	1031.787	.043%	99.818%
145.0	1.255	.415	1032.202	.040%	99.858%
150.0	1.291	.375	1032.577	.036%	99.895%
155.0	1.279	.325	1032.902	.031%	99.926%
160.0	1.302	.271	1033.173	.026%	99.952%
165.0	1.326	.217	1033.390	.021%	99.973%
170.0	1.279	.155	1033.544	.015%	99.988%
175.0	1.267	.091	1033.635	.009%	99.997%
180.0	1.291	.031	1033.666	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	312.64	30.25%	30.25%
0-40	504.03	48.76%	48.76%
0-60	855.36	82.75%	82.75%
0-90	1026.95	99.35%	99.35%
0-120	1029.89	99.63%	99.63%
0-180	1033.67	100.00%	100.00%
60-90	247.10	23.91%	23.91%
90-120	5.13	0.50%	0.50%
90-130	6.12	0.59%	0.59%
90-150	7.82	0.76%	0.76%
90-180	8.88	0.86%	0.86%
0-58.12	826.93	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	38.72
10-20	110.11
20-30	163.81
30-40	191.38
40-50	190.04
50-60	161.29
60-70	110.98
70-80	50.93
80-90	9.68
90-100	1.00
100-110	0.96
110-120	0.98
120-130	0.99
130-140	0.91
140-150	0.79
150-160	0.60
160-170	0.37
170-180	0.09

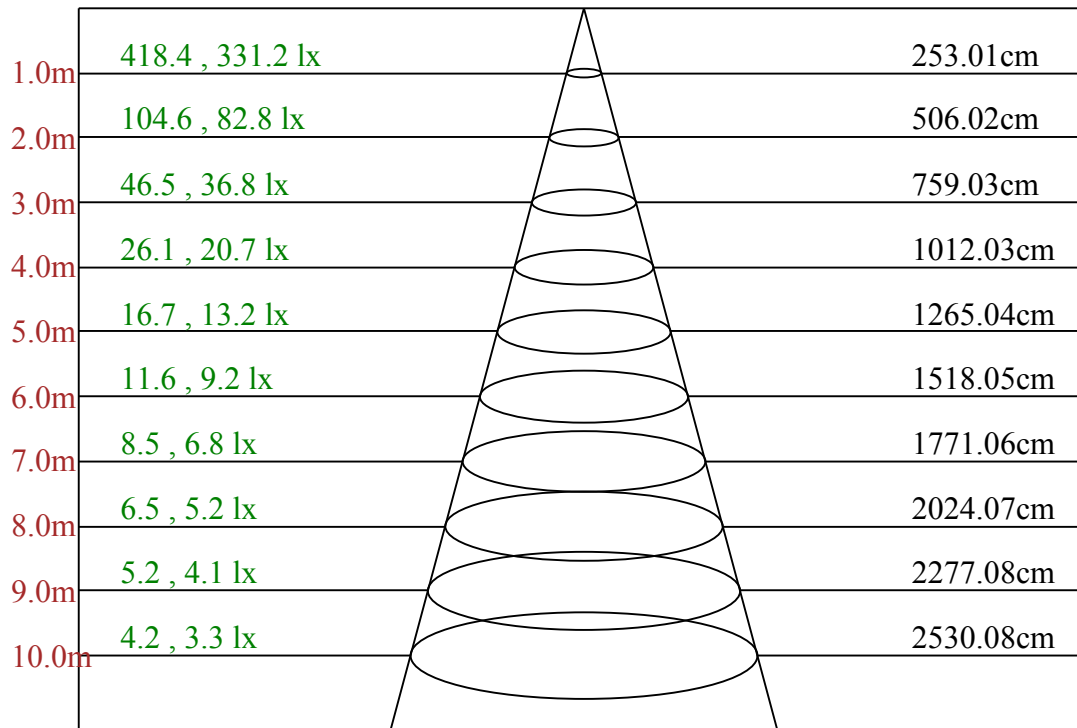


C0/C180: —

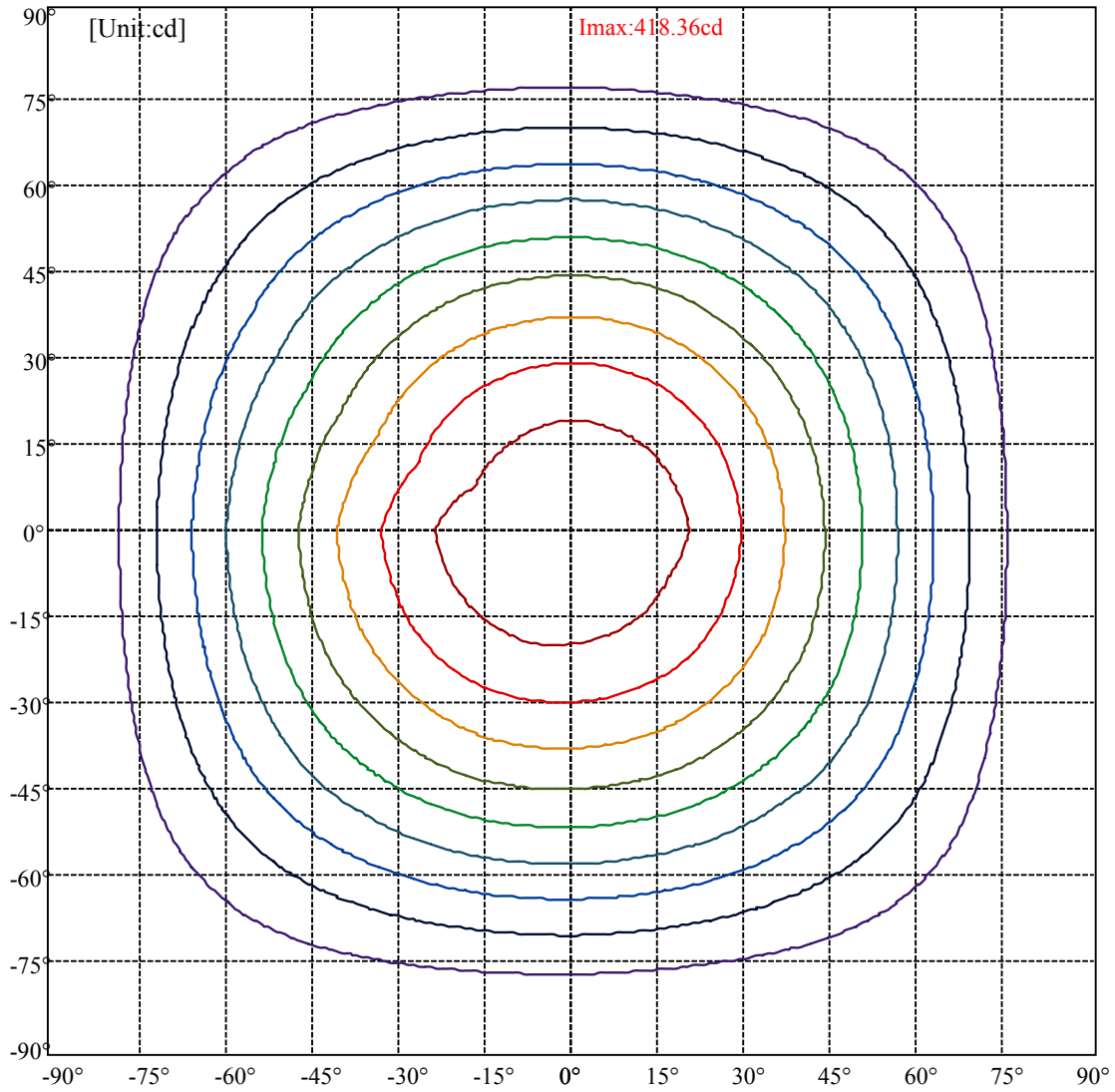
C90/C270: —

Field angle(10%Imax):C0/180Left:77.6 Right:74.9
:C90/270Left:76.5 Right:76.3

Beam Angle(50%Imax):C0/180Left:53.1 Right:50.0
:C90/270Left:51.8 Right:51.1



Max , Ave Beam angle of C0plane103.25



(10%Imax) 41.8136	—
(20%Imax) 83.6272	—
(30%Imax) 125.441	—
(40%Imax) 167.254	—
(50%Imax) 209.068	—
(60%Imax) 250.881	—
(70%Imax) 292.695	—
(80%Imax) 334.509	—
(90%Imax) 376.322	—

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	418.36	414.80	406.35	394.34	377.63	356.05	330.71	302.74	273.09
22.5	413.48	410.48	402.78	390.77	374.44	352.67	329.77	301.81	272.15
45.0	411.60	408.41	401.09	389.08	373.69	353.05	328.65	300.68	271.59
67.5	410.10	407.29	400.34	388.52	372.75	353.05	328.65	302.18	273.84
90.0	408.41	406.35	399.40	388.14	372.94	351.73	328.83	302.18	273.84
112.5	406.72	403.53	397.34	386.64	371.25	350.98	327.71	300.87	273.84
135.0	405.79	403.16	396.21	385.33	370.50	351.92	327.71	300.87	271.59
157.5	405.22	402.97	395.84	385.52	370.69	350.23	327.14	300.87	272.90
180.0	418.36	417.24	411.98	403.91	389.83	369.56	346.85	322.26	293.55
202.5	413.48	412.36	407.85	397.53	384.58	365.06	342.91	317.38	288.86
225.0	411.60	410.29	404.85	394.90	380.07	362.62	340.09	312.88	282.85
247.5	410.10	408.60	402.78	392.46	378.57	359.05	335.59	309.88	282.10
270.0	408.41	406.54	399.78	389.27	374.82	354.17	332.40	307.25	278.16
292.5	406.72	404.85	398.84	388.33	373.69	354.17	331.09	305.75	276.84
315.0	405.79	403.72	397.72	386.83	372.94	354.36	331.65	304.62	276.28
337.5	405.22	403.53	397.34	386.64	372.38	353.23	330.71	304.62	277.22
360.0	418.36	414.80	406.35	394.34	377.63	356.05	330.71	302.74	273.09
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	242.31	209.27	174.93	140.39	107.55	73.20	41.10	14.45	5.26
22.5	240.43	207.02	173.99	139.27	105.11	71.32	41.67	16.70	5.82
45.0	239.49	206.65	172.49	139.08	104.73	71.89	42.79	18.39	6.01
67.5	242.87	209.65	176.43	142.08	109.05	75.45	44.30	18.96	6.57
90.0	242.68	210.96	179.43	145.65	111.30	78.83	48.24	19.90	6.76
112.5	243.25	210.78	177.37	144.90	110.55	76.95	46.36	20.65	7.13
135.0	241.37	209.09	175.68	141.52	108.86	75.64	45.42	20.27	6.95
157.5	242.31	209.84	177.56	143.96	110.17	76.77	46.55	20.27	6.76
180.0	262.39	229.55	196.32	161.60	126.13	91.59	57.81	27.22	8.45
202.5	257.70	225.79	191.07	155.60	121.25	85.77	53.49	24.96	8.26
225.0	253.01	220.72	185.63	150.34	115.99	81.65	50.68	23.84	7.88
247.5	251.13	218.47	185.25	149.78	114.87	80.14	49.18	22.90	7.51
270.0	247.38	215.47	183.37	149.21	114.49	81.27	49.36	20.46	7.32
292.5	246.06	214.72	180.56	145.65	113.18	77.52	46.17	20.46	7.13
315.0	245.12	212.28	177.93	144.33	109.61	75.83	45.80	20.27	6.95
337.5	245.87	213.78	180.18	145.46	110.74	77.70	46.36	19.90	6.95
360.0	242.31	209.27	174.93	140.39	107.55	73.20	41.10	14.45	5.26
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.19	0.38	0.38	0.19	0.38	0.19	0.38	0.38	0.56
22.5	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.94	0.94
45.0	0.75	0.75	0.75	0.94	0.75	0.75	1.13	0.94	1.13
67.5	0.56	0.56	0.75	0.75	0.94	0.94	0.94	1.13	1.13
90.0	0.75	0.75	0.75	0.75	0.75	0.94	0.94	0.94	1.13
112.5	0.94	0.94	0.94	0.94	0.94	0.94	0.94	1.13	1.31
135.0	0.94	0.75	0.94	0.75	0.94	0.75	0.94	1.13	1.13
157.5	0.94	0.75	0.94	0.94	0.75	0.94	0.94	0.94	1.31
180.0	2.44	0.94	0.75	0.94	0.75	0.94	0.94	1.13	0.94
202.5	1.88	1.13	1.13	1.13	0.94	1.13	1.31	1.13	1.31
225.0	1.31	1.13	0.94	0.94	0.94	1.31	1.13	1.31	1.31
247.5	1.13	0.94	0.94	0.94	1.31	1.31	1.31	1.13	1.31
270.0	0.94	0.94	1.13	1.13	0.94	1.13	1.31	1.31	1.50
292.5	0.94	1.13	1.31	1.13	1.13	1.13	1.13	1.13	1.31
315.0	0.94	0.94	1.13	1.13	1.13	1.50	1.50	1.31	1.31
337.5	0.94	1.13	0.94	1.13	1.31	1.13	1.50	1.31	1.31
360.0	0.19	0.38	0.38	0.19	0.38	0.19	0.38	0.38	0.56

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	0.75	0.56	0.56	0.38	0.56	0.56	0.75	0.56	0.56
22.5	0.94	1.13	1.13	1.13	1.13	1.13	1.31	1.13	1.31
45.0	0.94	1.13	1.31	1.13	1.31	1.31	1.31	1.31	1.31
67.5	0.94	1.13	1.31	1.31	1.31	1.13	1.31	1.50	1.13
90.0	0.94	1.31	1.13	1.13	1.31	1.31	1.31	1.31	1.31
112.5	1.31	1.13	1.31	1.50	1.13	1.31	1.31	1.31	1.50
135.0	1.13	1.31	1.31	1.31	1.31	1.50	1.31	1.31	1.31
157.5	1.13	1.13	1.13	1.31	1.31	1.31	1.50	1.31	1.31
180.0	1.13	1.31	1.31	1.13	1.13	1.31	1.13	1.13	1.31
202.5	1.31	1.31	1.31	1.50	1.31	1.50	1.31	1.31	1.13
225.0	1.13	1.50	1.31	1.50	1.50	1.31	1.31	1.31	1.31
247.5	1.31	1.31	1.31	1.50	1.50	1.31	1.50	1.50	1.13
270.0	1.31	1.31	1.50	1.50	1.31	1.31	1.50	1.31	1.31
292.5	1.31	1.50	1.50	1.50	1.31	1.50	1.50	1.31	1.50
315.0	1.50	1.31	1.31	1.50	1.50	1.50	1.31	1.31	1.31
337.5	1.31	1.31	1.31	1.31	1.50	1.50	1.50	1.50	1.50
360.0	0.75	0.56	0.56	0.38	0.56	0.56	0.75	0.56	0.56
C/γ(°)	180.0								
0.0	0.75								
22.5	1.31								
45.0	1.31								
67.5	1.50								
90.0	1.31								
112.5	1.31								
135.0	1.31								
157.5	1.50								
180.0	0.75								
202.5	1.31								
225.0	1.31								
247.5	1.50								
270.0	1.31								
292.5	1.31								
315.0	1.31								
337.5	1.50								
360.0	0.75								