



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6SR-30K

Luminaire:

Report No:

Voltage(V): 120.04

Test No:

Current(A): 0.1514

LampCAT:

Power (W): 17.9340

Lamp flux(lm): 1203.3

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): 1203.30

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 67.10

Central intensity(cd): 480.143

Maximum intensity(cd): 480.143

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

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	470.053	.000	.000	.000%	.000%
5.0	467.762	11.211	11.211	.932%	.932%
10.0	460.369	33.202	44.413	2.759%	3.691%
15.0	448.626	53.921	98.334	4.481%	8.172%
20.0	432.360	72.606	170.940	6.034%	14.206%
25.0	410.499	88.400	259.340	7.346%	21.552%
30.0	384.317	100.585	359.925	8.359%	29.911%
35.0	354.554	108.804	468.729	9.042%	38.954%
40.0	322.052	112.887	581.616	9.381%	48.335%
45.0	286.955	112.763	694.378	9.371%	57.706%
50.0	250.060	108.512	802.890	9.018%	66.724%
55.0	211.962	100.459	903.349	8.349%	75.073%
60.0	172.950	88.971	992.320	7.394%	82.467%
65.0	133.924	74.602	1066.921	6.200%	88.666%
70.0	95.550	58.104	1125.026	4.829%	93.495%
75.0	59.612	40.557	1165.583	3.370%	96.866%
80.0	26.863	23.138	1188.721	1.923%	98.788%
85.0	7.640	9.375	1198.096	.779%	99.568%
90.0	.363	2.191	1200.287	.182%	99.750%
95.0	.232	.163	1200.450	.014%	99.763%
100.0	.218	.122	1200.572	.010%	99.773%
105.0	.276	.132	1200.704	.011%	99.784%
110.0	.319	.155	1200.859	.013%	99.797%
115.0	.377	.176	1201.036	.015%	99.812%
120.0	.377	.183	1201.219	.015%	99.827%
125.0	.420	.184	1201.403	.015%	99.842%
130.0	.623	.227	1201.630	.019%	99.861%
135.0	.624	.252	1201.882	.021%	99.882%
140.0	.696	.244	1202.127	.020%	99.902%
145.0	.725	.237	1202.364	.020%	99.922%
150.0	.827	.228	1202.592	.019%	99.941%
155.0	.826	.209	1202.802	.017%	99.959%
160.0	.870	.178	1202.979	.015%	99.973%
165.0	.870	.143	1203.123	.012%	99.985%
170.0	.812	.100	1203.223	.008%	99.994%
175.0	.870	.060	1203.283	.005%	99.999%
180.0	.899	.021	1203.304	.002%	100.000%

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

Date:
Humidity(%): 58%

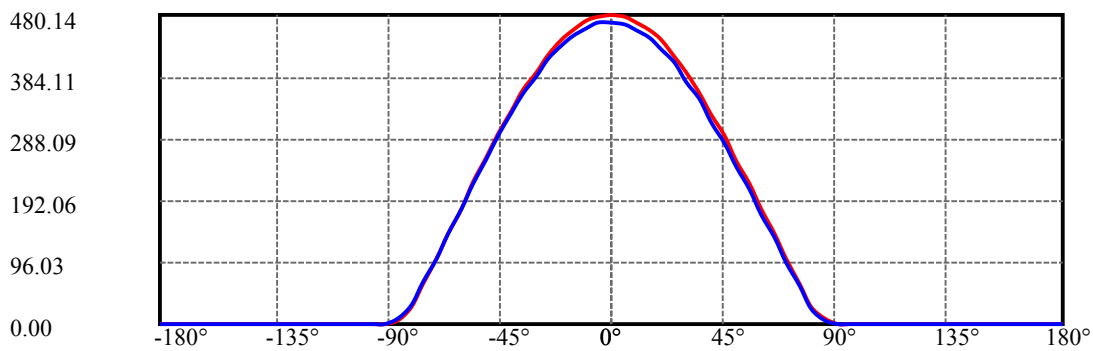
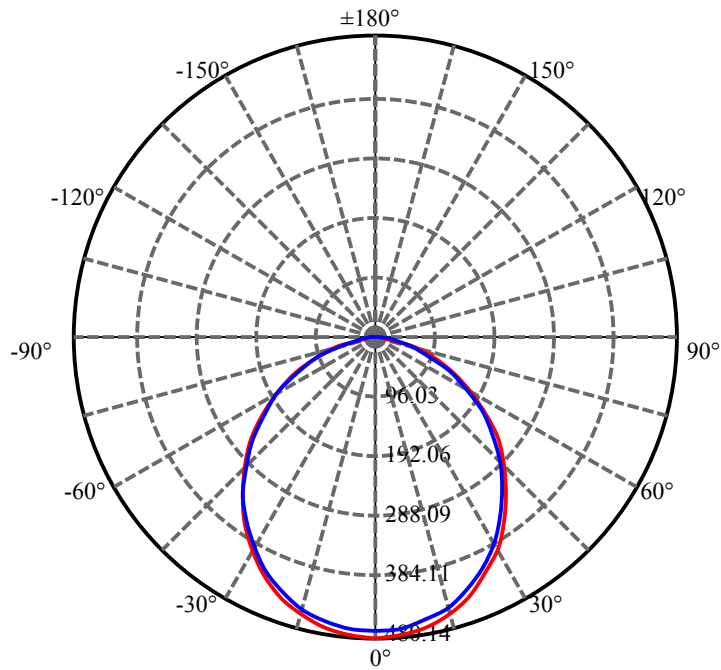
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	359.93	29.91%	29.91%
0-40	581.62	48.34%	48.33%
0-60	992.32	82.47%	82.47%
0-90	1200.29	99.75%	99.75%
0-120	1201.22	99.83%	99.83%
0-180	1203.30	100.00%	100.00%
60-90	296.94	24.68%	24.68%
90-120	3.12	0.26%	0.26%
90-130	3.53	0.29%	0.29%
90-150	4.50	0.37%	0.37%
90-180	5.19	0.43%	0.43%
0-58.33	962.64	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	44.41
10-20	126.53
20-30	188.99
30-40	221.69
40-50	221.27
50-60	189.43
60-70	132.71
70-80	63.70
80-90	11.57
90-100	0.28
100-110	0.29
110-120	0.36
120-130	0.41
130-140	0.50
140-150	0.47
150-160	0.39
160-170	0.24
170-180	0.06

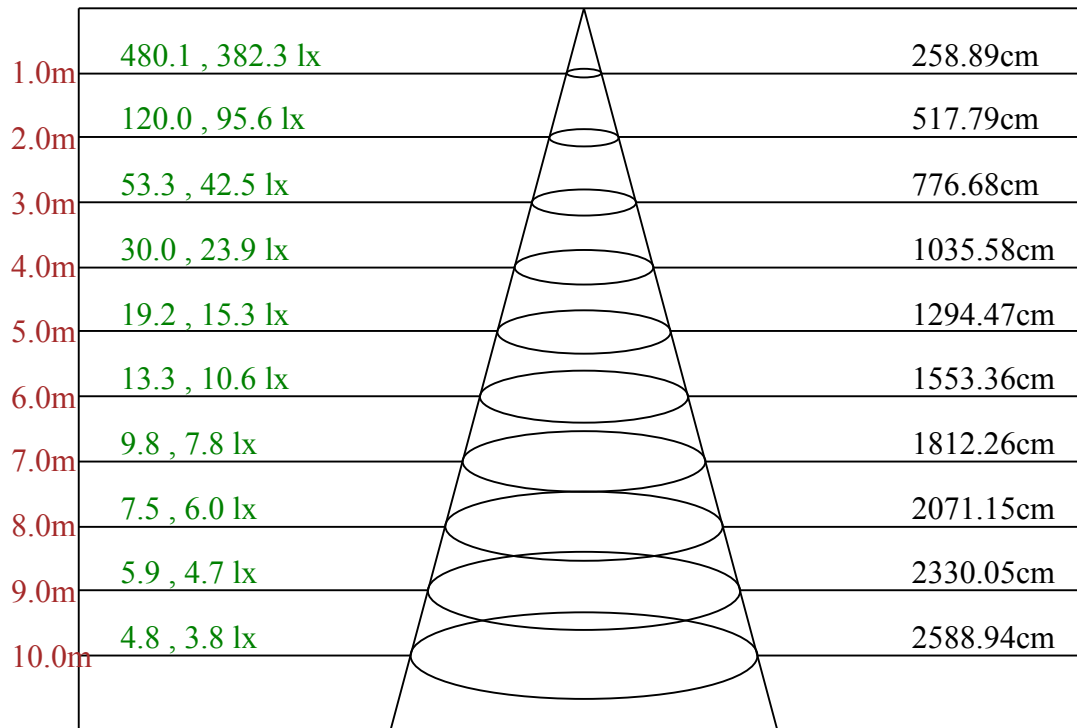


C0/C180: —

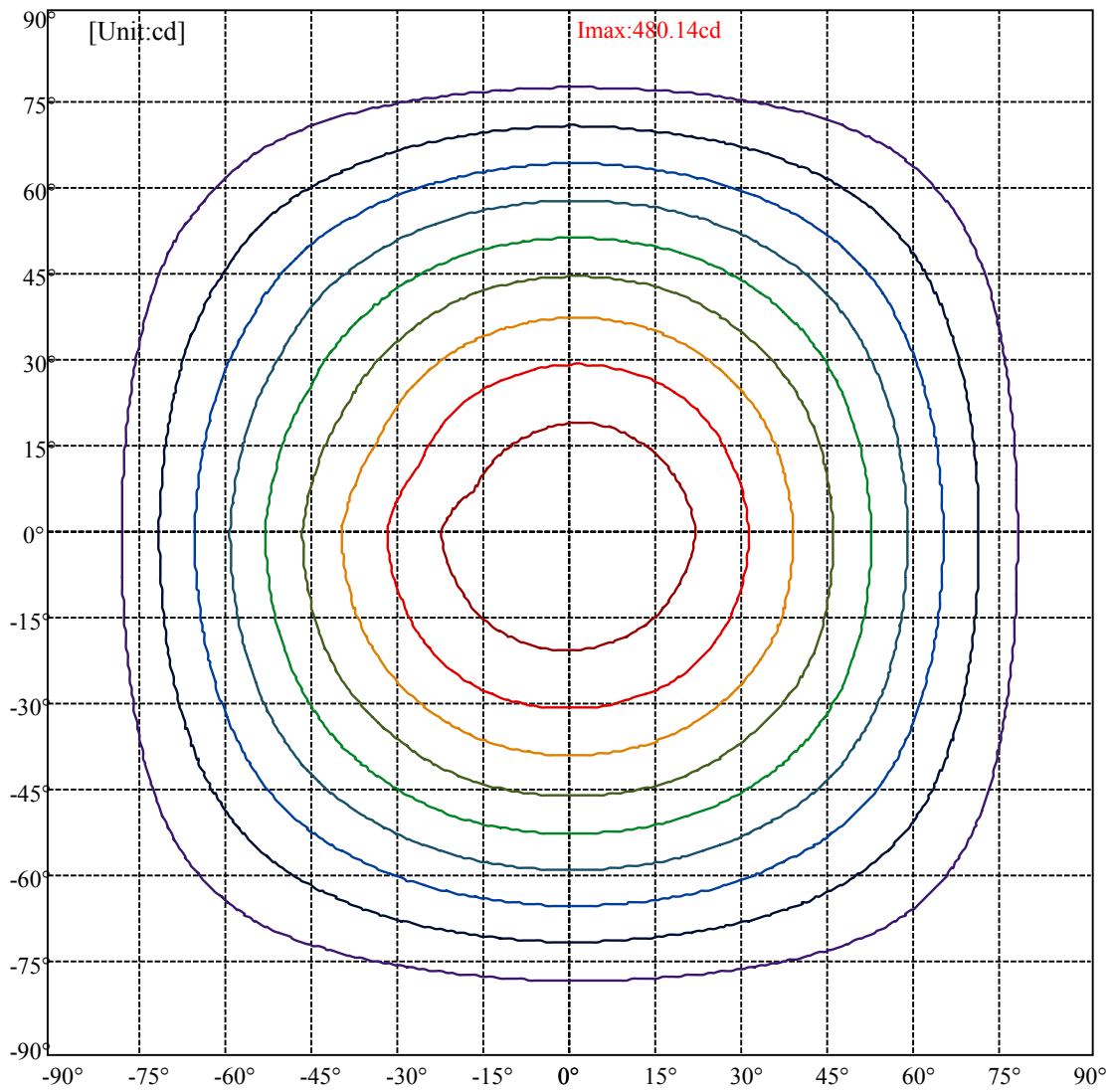
C90/C270: —










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) 47.9586	
(20%Imax) 95.9172	
(30%Imax) 143.876	
(40%Imax) 191.834	
(50%Imax) 239.793	
(60%Imax) 287.752	
(70%Imax) 335.71	
(80%Imax) 383.669	
(90%Imax) 431.628	

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	480.14	476.90	468.55	456.95	440.02	415.66	389.22	359.30	325.89
22.5	473.65	470.86	463.44	451.15	434.68	412.18	384.81	354.89	322.88
45.0	470.63	467.62	459.96	447.67	430.51	410.33	383.42	351.87	318.24
67.5	469.24	466.46	458.80	446.28	429.11	405.92	379.94	350.25	317.31
90.0	468.08	465.99	457.18	444.89	427.03	404.53	376.92	348.39	314.53
112.5	466.23	463.21	455.09	441.87	424.71	401.28	375.53	345.15	312.67
135.0	466.46	462.05	453.47	440.94	423.78	402.21	374.14	343.75	309.66
157.5	465.99	462.98	454.40	441.17	424.01	400.35	373.21	342.83	310.59
180.0	480.14	477.36	469.94	457.41	441.17	417.28	392.00	362.54	330.53
202.5	473.65	471.79	464.60	452.54	437.23	415.20	389.22	360.22	328.68
225.0	470.63	468.78	462.05	450.92	435.14	414.73	389.68	358.14	324.97
247.5	469.24	467.39	460.89	450.45	434.22	413.11	387.83	358.37	325.66
270.0	468.08	466.92	459.96	448.60	433.52	412.18	385.74	358.14	326.59
292.5	466.23	465.53	459.04	448.60	433.29	412.64	387.36	358.14	327.75
315.0	466.46	464.60	458.57	448.60	433.98	414.73	390.38	359.76	326.82
337.5	465.99	465.76	459.96	449.99	435.38	415.66	389.68	361.15	330.07
360.0	480.14	476.90	468.55	456.95	440.02	415.66	389.22	359.30	325.89
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	291.10	254.45	217.34	178.14	139.40	99.97	63.79	27.83	7.65
22.5	287.39	250.05	211.77	173.27	133.84	95.57	57.99	27.37	8.12
45.0	281.59	245.64	207.13	168.17	130.36	92.32	57.06	26.21	7.89
67.5	282.75	245.41	208.29	169.56	130.36	92.55	57.76	25.52	7.42
90.0	280.66	244.48	207.37	169.79	133.14	95.57	58.68	24.36	6.73
112.5	277.88	241.46	203.66	165.15	126.88	90.23	54.74	23.20	6.50
135.0	273.94	236.36	199.71	161.44	122.94	85.82	52.42	22.73	6.50
157.5	275.56	238.22	200.41	162.60	124.56	87.21	51.73	21.57	6.26
180.0	294.81	258.16	219.20	179.53	140.56	100.90	62.86	28.07	7.42
202.5	292.96	254.68	216.64	176.05	135.23	95.80	61.24	26.91	7.42
225.0	288.55	250.97	213.17	172.34	132.45	93.71	58.22	26.68	7.42
247.5	291.33	254.92	215.48	176.28	136.16	97.42	60.31	27.14	8.12
270.0	291.57	255.84	217.11	179.53	139.87	101.60	65.64	29.92	8.12
292.5	293.19	255.84	216.64	177.68	139.17	99.04	63.32	29.92	8.35
315.0	292.03	255.61	216.64	176.75	136.85	99.28	63.09	30.62	9.05
337.5	295.97	258.86	220.82	180.92	141.03	101.83	64.95	31.78	9.28
360.0	291.10	254.45	217.34	178.14	139.40	99.97	63.79	27.83	7.65
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.46	0.23	0.46	0.23	0.23	0.46	0.23	0.23	0.46
22.5	0.46	0.23	0.46	0.70	0.46	0.46	0.70	0.70	0.93
45.0	0.46	0.70	0.46	0.46	0.46	0.46	0.46	0.70	0.93
67.5	0.46	0.46	0.46	0.46	0.46	0.93	0.70	0.46	0.70
90.0	0.46	0.46	0.23	0.46	0.70	0.23	0.70	0.46	0.70
112.5	0.46	0.70	0.46	0.46	0.70	0.70	0.70	0.70	0.93
135.0	0.23	0.23	0.46	0.23	0.46	0.70	0.46	0.93	0.70
157.5	0.46	0.70	0.46	0.70	0.46	0.70	0.46	0.70	0.93
180.0	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.46	0.46
202.5	0.00	0.00	0.00	0.00	0.23	0.00	0.46	0.23	0.70
225.0	0.00	0.00	0.00	0.23	0.23	0.23	0.23	0.23	0.46
247.5	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.46
270.0	0.23	0.00	0.00	0.46	0.23	0.46	0.23	0.23	0.46
292.5	0.23	0.00	0.00	0.00	0.23	0.23	0.23	0.23	0.46
315.0	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
337.5	0.93	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.23
360.0	0.46	0.23	0.46	0.23	0.23	0.46	0.23	0.23	0.46

Equipment: GMS-3000
Temperature(°C): 25Date:
Humidity(%): 58%

Operator: Zac

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	0.46	0.70	0.70	0.70	0.46	0.70	0.46	0.70	0.70
22.5	0.93	0.70	0.93	0.93	0.93	0.93	0.93	0.93	0.93
45.0	0.70	0.93	0.70	0.70	0.93	1.16	0.93	0.70	0.93
67.5	0.93	1.16	0.70	0.93	0.93	0.93	0.93	0.93	0.70
90.0	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
112.5	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.70	0.70
135.0	0.70	0.70	0.70	0.93	0.93	1.16	0.93	0.93	0.93
157.5	0.70	0.70	0.93	1.16	0.93	0.70	0.93	0.93	0.93
180.0	0.23	0.23	0.46	0.70	0.93	0.70	0.93	0.93	0.70
202.5	0.70	0.46	0.46	0.93	0.93	1.16	0.93	0.70	0.93
225.0	0.46	0.46	0.70	0.70	0.70	0.70	0.93	0.70	0.93
247.5	0.46	0.70	0.70	0.70	0.70	0.93	0.70	0.93	1.16
270.0	0.46	0.70	0.70	0.70	0.93	0.70	0.93	0.93	0.93
292.5	0.70	0.93	0.70	0.70	0.46	0.70	0.93	0.70	0.70
315.0	0.46	0.46	0.70	0.93	0.70	0.70	0.93	0.70	0.93
337.5	0.23	0.46	0.70	0.70	0.93	0.93	0.70	0.70	0.93
360.0	0.46	0.70	0.70	0.70	0.46	0.70	0.46	0.70	0.70
C/γ(°)	180.0								
0.0	0.70								
22.5	0.93								
45.0	0.93								
67.5	0.93								
90.0	0.93								
112.5	0.70								
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