



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL4SR-30K

Luminaire:

Report No:

Voltage(V): 120.02

Test No:

Current(A): 0.1216

LampCAT:

Power (W): 14.4160

Lamp flux(lm): 900.1

PF: 0.9878

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 900.07

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 62.44

Central intensity(cd): 387.523

Maximum intensity(cd): 387.523

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=99.7

[C90/270]Total=99.3

Field angle(10%Imax): [C0/180]Total=147.6

[C90/270]Total=148.0

Maximum s/h(1/2): C0_180=1.24 C90_270=1.18

Maximum s/h(1/4): C0_180=1.77 C90_270=1.29

Up flux rate of lamp(%): 0.33%

Down flux rate of lamp(%): 99.67%

Up flux rate of LUM(%): 0.33%

Down flux rate of LUM(%): 99.67%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 85.070%

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	377.613	.000	.000	.000%	.000%
5.0	375.616	9.005	9.005	1.000%	1.000%
10.0	369.475	26.654	35.659	2.961%	3.962%
15.0	359.579	43.247	78.906	4.805%	8.767%
20.0	345.630	58.119	137.025	6.457%	15.224%
25.0	326.140	70.456	207.481	7.828%	23.052%
30.0	302.956	79.613	287.094	8.845%	31.897%
35.0	276.903	85.388	372.482	9.487%	41.383%
40.0	248.464	87.654	460.136	9.738%	51.122%
45.0	218.072	86.383	546.518	9.597%	60.719%
50.0	186.164	81.682	628.200	9.075%	69.794%
55.0	153.820	73.924	702.124	8.213%	78.007%
60.0	121.206	63.572	765.696	7.063%	85.070%
65.0	89.493	51.221	816.917	5.691%	90.761%
70.0	59.042	37.610	854.527	4.179%	94.940%
75.0	31.773	23.738	878.265	2.637%	97.577%
80.0	13.184	12.029	890.294	1.336%	98.913%
85.0	5.661	5.121	895.415	.569%	99.482%
90.0	.526	1.694	897.109	.188%	99.670%
95.0	.240	.210	897.318	.023%	99.694%
100.0	.240	.131	897.449	.015%	99.708%
105.0	.270	.137	897.586	.015%	99.723%
110.0	.345	.161	897.747	.018%	99.741%
115.0	.346	.175	897.922	.019%	99.761%
120.0	.451	.194	898.115	.022%	99.782%
125.0	.496	.219	898.334	.024%	99.807%
130.0	.496	.216	898.550	.024%	99.831%
135.0	.556	.212	898.762	.024%	99.854%
140.0	.616	.217	898.979	.024%	99.878%
145.0	.631	.208	899.187	.023%	99.901%
150.0	.766	.206	899.393	.023%	99.924%
155.0	.796	.198	899.590	.022%	99.946%
160.0	.781	.165	899.756	.018%	99.965%
165.0	.871	.136	899.892	.015%	99.980%
170.0	.826	.101	899.993	.011%	99.991%
175.0	.886	.061	900.054	.007%	99.998%
180.0	.841	.021	900.075	.002%	100.000%

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

Date:
Humidity(%): 58%

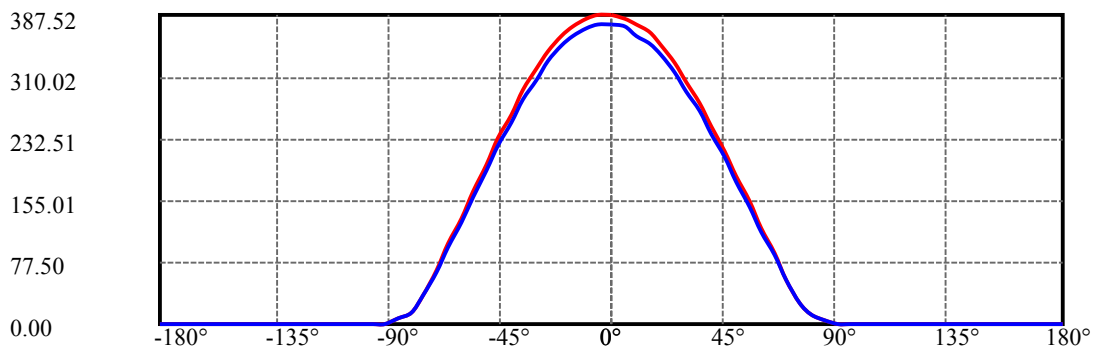
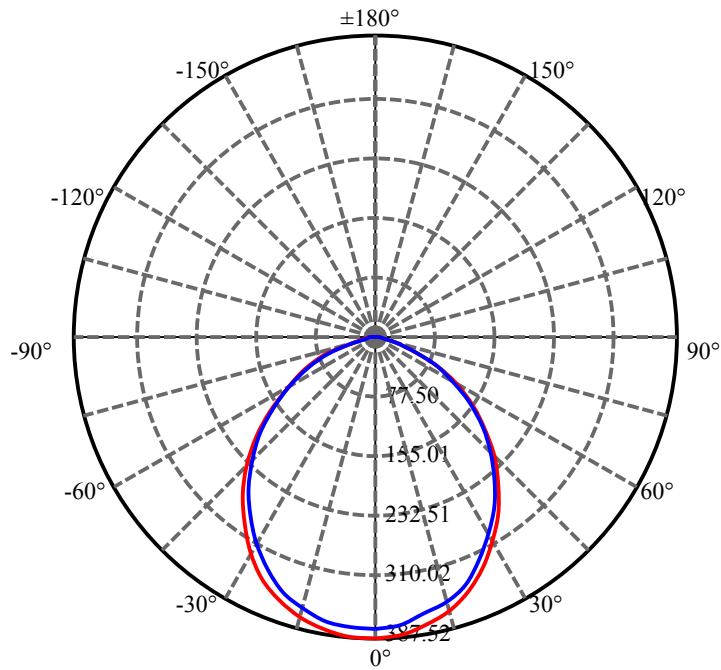
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	287.09	31.90%	31.90%
0-40	460.14	51.12%	51.12%
0-60	765.70	85.07%	85.07%
0-90	897.11	99.67%	99.67%
0-120	898.12	99.78%	99.78%
0-180	900.07	100.00%	100.00%
60-90	194.98	21.66%	21.66%
90-120	2.70	0.30%	0.30%
90-130	3.13	0.35%	0.35%
90-150	3.98	0.44%	0.44%
90-180	4.64	0.52%	0.52%
0-56.41	720.06	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	35.66
10-20	101.37
20-30	150.07
30-40	173.04
40-50	168.06
50-60	137.50
60-70	88.83
70-80	35.77
80-90	6.81
90-100	0.34
100-110	0.30
110-120	0.37
120-130	0.43
130-140	0.43
140-150	0.41
150-160	0.36
160-170	0.24
170-180	0.06

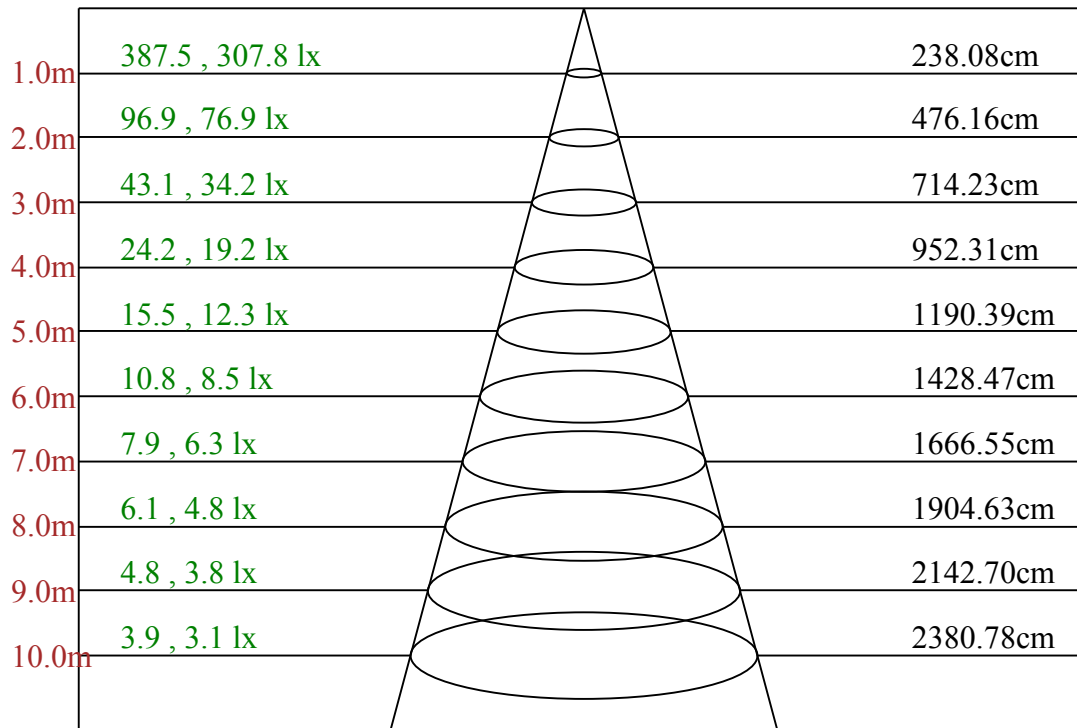


C0/C180: —

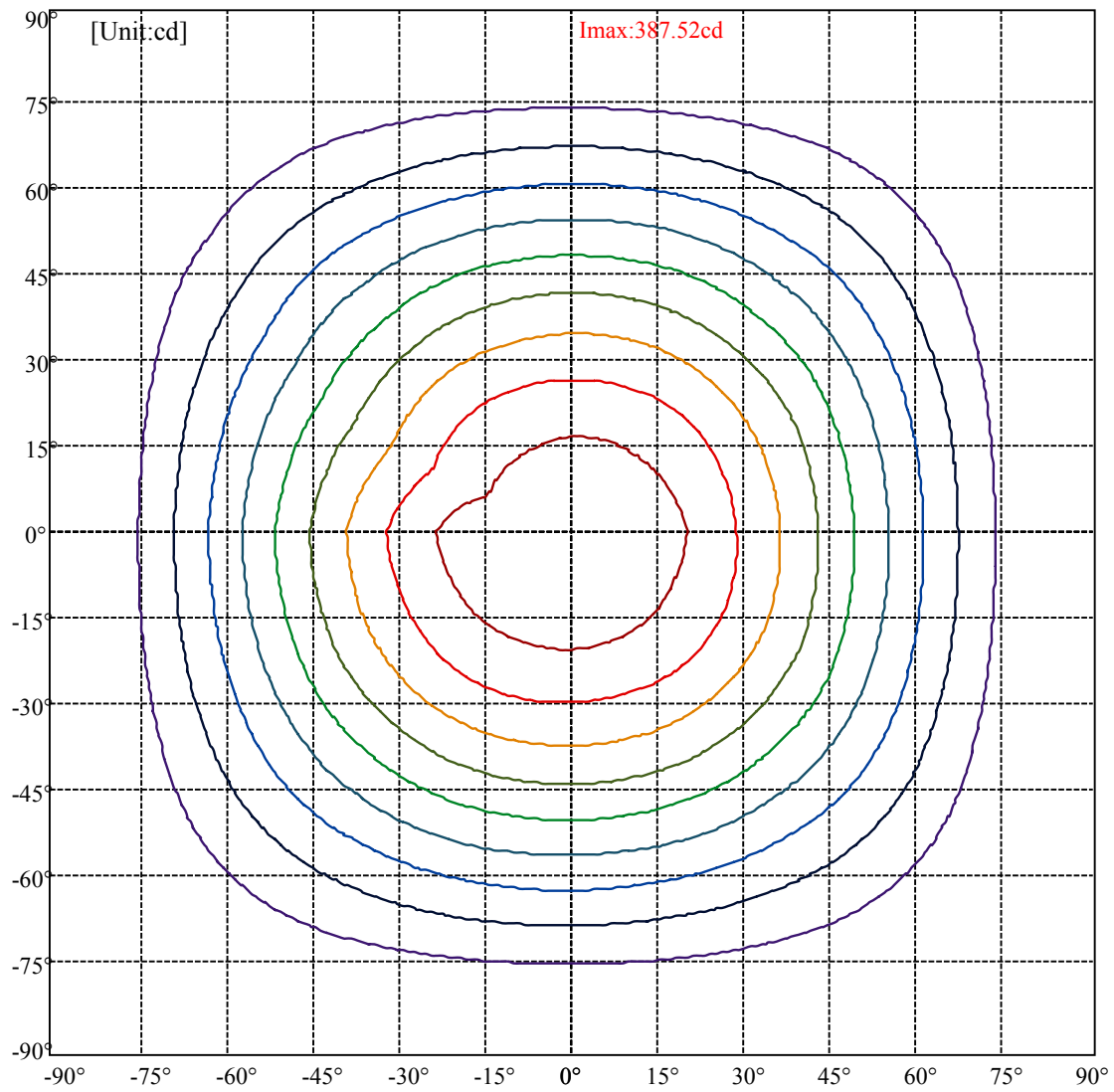
C90/C270: —

Field angle(10%Imax):C0/180Left:74.6 Right:73.0
 :C90/270Left:74.7 Right:73.3

Beam Angle(50%Imax):C0/180Left:51.0 Right:48.7
 :C90/270Left:50.7 Right:48.6



Max , Ave Beam angle of C0plane99.88



(10%Imax) 38.7283	—
(20%Imax) 77.4566	—
(30%Imax) 116.185	—
(40%Imax) 154.913	—
(50%Imax) 193.641	—
(60%Imax) 232.37	—
(70%Imax) 271.098	—
(80%Imax) 309.826	—
(90%Imax) 348.555	—

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	387.52	383.44	375.51	364.70	348.36	326.50	302.24	276.53	247.46
22.5	381.76	377.91	370.23	358.69	343.32	322.90	299.11	272.68	244.82
45.0	379.36	375.51	367.34	356.05	339.71	321.46	296.95	269.80	240.01
67.5	376.71	373.11	365.18	354.13	338.51	316.89	294.07	268.36	239.29
90.0	375.03	371.91	362.06	352.45	337.55	314.97	291.90	266.44	239.29
112.5	374.07	369.99	362.54	350.53	335.63	315.69	291.90	265.96	238.09
135.0	373.59	369.75	362.78	351.01	335.63	316.65	293.59	266.44	237.61
157.5	372.87	369.51	362.78	350.04	335.87	314.97	291.66	265.72	239.05
180.0	387.52	386.32	382.00	373.83	360.62	342.12	319.05	292.87	263.31
202.5	381.76	381.28	377.67	368.54	356.77	337.55	314.73	289.02	261.39
225.0	379.36	379.12	374.31	365.66	353.41	336.35	313.05	287.10	257.55
247.5	376.71	376.47	372.39	364.70	350.77	332.75	310.40	283.74	255.63
270.0	375.03	374.31	371.19	361.58	349.56	329.86	306.32	281.09	253.22
292.5	374.07	373.59	369.26	361.10	348.84	330.10	307.04	281.33	253.22
315.0	373.59	374.31	368.30	360.14	348.12	330.34	308.24	282.05	252.74
337.5	372.87	373.35	368.06	360.14	347.40	329.14	307.04	281.33	252.74
360.0	387.52	383.44	375.51	364.70	348.36	326.50	302.24	276.53	247.46
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	216.95	185.23	153.04	120.61	87.93	55.98	27.39	11.77	4.81
22.5	214.06	181.39	148.48	116.76	84.33	54.06	27.63	12.01	5.05
45.0	209.74	178.27	145.83	113.64	82.89	53.58	28.83	11.77	5.05
67.5	209.98	179.71	147.75	115.08	84.09	55.02	27.39	11.53	4.57
90.0	209.50	178.99	147.27	116.04	86.01	55.98	27.63	11.53	4.33
112.5	209.26	178.03	146.07	113.40	84.09	54.78	28.83	11.77	4.57
135.0	207.34	175.62	144.63	113.16	81.93	53.34	29.55	12.49	5.05
157.5	209.74	178.51	147.51	115.56	84.33	54.54	27.87	12.25	5.53
180.0	232.80	200.85	166.73	132.38	100.43	67.27	36.28	14.18	6.97
202.5	229.44	196.28	161.93	129.26	95.86	64.15	36.52	14.90	6.97
225.0	225.11	192.44	160.01	126.13	93.46	63.67	36.28	16.10	6.73
247.5	224.39	192.20	160.97	126.85	95.14	63.91	35.56	14.18	6.25
270.0	223.43	191.96	159.29	128.29	95.86	64.63	36.04	13.69	6.25
292.5	222.47	190.04	158.33	124.93	92.74	61.74	35.08	14.42	5.77
315.0	222.23	188.36	155.92	122.53	90.57	61.02	34.36	15.14	6.25
337.5	222.71	190.76	157.36	124.69	92.26	61.02	33.16	13.21	6.49
360.0	216.95	185.23	153.04	120.61	87.93	55.98	27.39	11.77	4.81
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.48	0.24	0.48	0.24	0.24	0.24	0.48	0.48	0.24
22.5	0.24	0.48	0.24	0.48	0.48	0.72	0.72	0.72	0.72
45.0	0.72	0.24	0.48	0.72	0.48	0.48	0.48	0.72	0.72
67.5	0.48	0.48	0.48	0.48	0.48	0.48	0.72	0.72	0.72
90.0	0.48	0.72	0.48	0.48	0.72	0.72	0.72	0.72	0.72
112.5	0.72	0.24	0.48	0.48	0.48	0.48	0.72	0.72	0.72
135.0	0.48	0.72	0.48	0.48	0.72	0.72	0.72	0.48	0.72
157.5	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.72	0.72
180.0	0.48	0.00	0.00	0.00	0.24	0.00	0.48	0.24	0.24
202.5	0.48	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.24
225.0	0.72	0.00	0.00	0.00	0.24	0.00	0.24	0.48	0.48
247.5	0.72	0.24	0.00	0.00	0.24	0.00	0.24	0.24	0.48
270.0	0.48	0.00	0.00	0.00	0.00	0.48	0.24	0.48	0.24
292.5	0.48	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.24
315.0	0.48	0.00	0.24	0.24	0.24	0.24	0.24	0.48	0.48
337.5	0.48	0.00	0.00	0.24	0.24	0.24	0.48	0.48	0.24
360.0	0.48	0.24	0.48	0.24	0.24	0.24	0.48	0.48	0.24

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	0.48	0.72	0.48	0.72	0.72	0.72	0.72	0.72	0.72
22.5	0.72	0.72	0.72	0.72	0.96	0.96	0.96	0.72	0.72
45.0	0.72	0.48	0.72	0.96	0.96	0.72	0.96	0.72	0.96
67.5	0.96	0.96	0.72	0.96	0.96	0.96	0.72	0.96	0.96
90.0	0.48	0.72	0.48	0.96	0.72	0.96	1.20	0.72	0.72
112.5	0.72	0.96	0.96	0.96	0.96	0.96	0.96	0.72	1.20
135.0	0.72	0.72	0.72	0.96	0.72	0.72	0.96	0.72	0.96
157.5	0.96	0.96	0.72	0.96	0.96	0.72	0.96	0.72	0.96
180.0	0.24	0.48	0.48	0.48	0.72	0.72	0.72	0.72	0.72
202.5	0.48	0.48	0.48	0.72	0.72	0.72	0.72	0.96	1.20
225.0	0.48	0.48	0.48	0.24	0.72	0.72	0.96	0.72	0.96
247.5	0.48	0.24	0.72	0.72	0.72	0.72	0.96	1.20	0.72
270.0	0.48	0.48	0.48	0.96	0.72	0.72	0.72	0.96	0.96
292.5	0.24	0.48	0.72	0.48	0.72	0.72	0.96	0.96	0.96
315.0	0.24	0.48	0.48	0.72	0.72	0.96	0.72	0.72	0.48
337.5	0.48	0.48	0.72	0.72	0.72	0.48	0.72	0.96	0.96
360.0	0.48	0.72	0.48	0.72	0.72	0.72	0.72	0.72	0.72

C/γ(°)	180.0
0.0	0.72
22.5	1.20
45.0	0.96
67.5	0.72
90.0	0.72
112.5	0.96
135.0	0.72
157.5	0.72
180.0	0.72
202.5	1.20
225.0	0.96
247.5	0.72
270.0	0.72
292.5	0.96
315.0	0.72
337.5	0.72
360.0	0.72