



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:

LumCAT:LSG3-5CCT(3500K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.04

LampCAT:

Current(A): 0.0620

Lamp flux(lm): -1.0

Power (W): 7.07

Number of Lamps: 1

PF: 0.9584

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 649.22, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 91.83

Central intensity(cd): 1007.950, Maximum intensity(cd): 1035.614

Angle of maximum intensity: C=0.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=46.0

[C90/270]Total=46.7

Field angle(10%Imax): [C0/180]Total=69.7

[C90/270]Total=69.7

Maximum s/h(1/2): C0_180=0.82 C90_270=0.72

Maximum s/h(1/4): C0_180=0.77 C90_270=0.67

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.08%

Down flux rate of LUM(%): 99.92%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.059%

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

Date:
Humidity(%): 58%

Operator: Jasper

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	1007.950	0.000	0	0.00%	0.00%
5.0	1000.779	24.014	24.014	0.00%	3.70%
10.0	961.788	70.207	94.221	0.00%	14.51%
15.0	842.227	107.013	201.234	0.00%	31.00%
20.0	654.106	123.319	324.553	0.00%	49.99%
25.0	427.990	113.492	438.045	0.00%	67.47%
30.0	234.075	83.785	521.829	0.00%	80.38%
35.0	106.218	50.111	571.94	0.00%	88.10%
40.0	47.710	25.682	597.622	0.00%	92.05%
45.0	29.012	14.206	611.828	0.00%	94.24%
50.0	21.112	10.128	621.956	0.00%	95.80%
55.0	16.284	8.131	630.087	0.00%	97.05%
60.0	11.968	6.530	636.618	0.00%	98.06%
65.0	8.149	4.891	641.508	0.00%	98.81%
70.0	4.901	3.304	644.813	0.00%	99.32%
75.0	2.751	2.000	646.813	0.00%	99.63%
80.0	1.580	1.159	647.971	0.00%	99.81%
85.0	0.512	0.568	648.54	0.00%	99.90%
90.0	0.015	0.144	648.684	0.00%	99.92%
95.0	0.015	0.008	648.692	0.00%	99.92%
100.0	0.015	0.008	648.7	0.00%	99.92%
105.0	0.015	0.008	648.708	0.00%	99.92%
110.0	0.015	0.008	648.716	0.00%	99.92%
115.0	0.044	0.015	648.73	0.00%	99.92%
120.0	0.015	0.014	648.745	0.00%	99.93%
125.0	0.015	0.007	648.751	0.00%	99.93%
130.0	0.015	0.006	648.758	0.00%	99.93%
135.0	0.059	0.015	648.772	0.00%	99.93%
140.0	0.102	0.030	648.802	0.00%	99.94%
145.0	0.132	0.039	648.841	0.00%	99.94%
150.0	0.190	0.047	648.889	0.00%	99.95%
155.0	0.278	0.059	648.948	0.00%	99.96%
160.0	0.395	0.071	649.018	0.00%	99.97%
165.0	0.512	0.075	649.093	0.00%	99.98%
170.0	0.570	0.064	649.157	0.00%	99.99%
175.0	0.717	0.046	649.203	0.00%	100.00%
180.0	0.702	0.017	649.22	0.00%	100.00%

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

Date:
Humidity(%): 58%

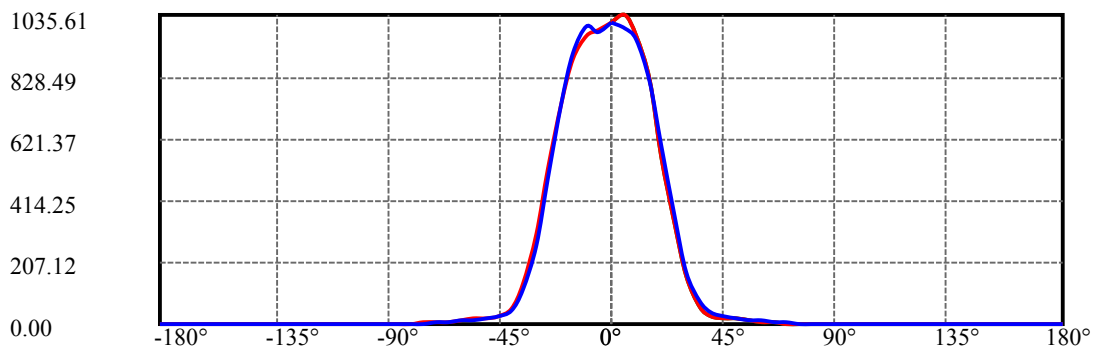
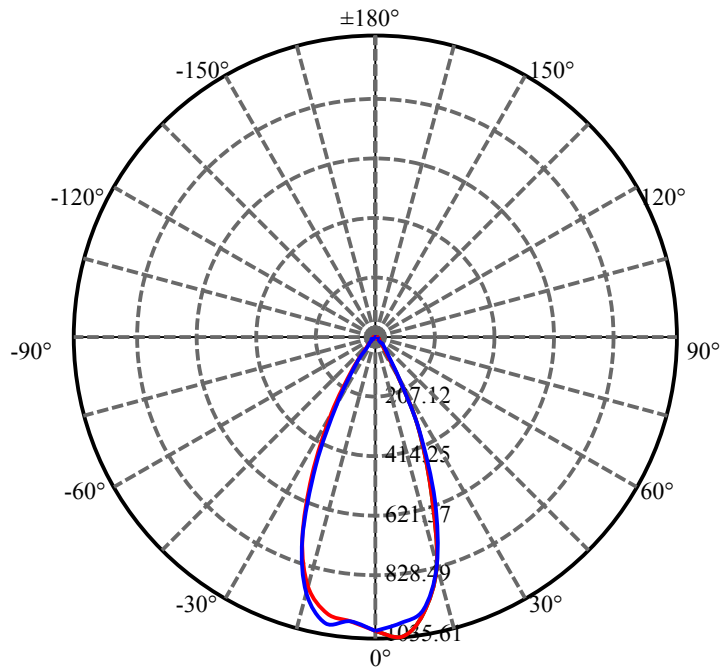
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	521.83	N.A.	80.38%
0-40	597.62	N.A.	92.05%
0-60	636.62	N.A.	98.06%
0-90	648.68	N.A.	99.92%
0-120	648.74	N.A.	99.93%
0-180	649.22	N.A.	100.00%
60-90	12.07	N.A.	1.86%
90-120	0.06	N.A.	0.01%
90-130	0.07	N.A.	0.01%
90-150	0.20	N.A.	0.03%
90-180	0.52	N.A.	0.08%
0-29.85	519.38	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	94.22
10-20	230.33
20-30	197.28
30-40	75.79
40-50	24.33
50-60	14.66
60-70	8.20
70-80	3.16
80-90	0.71
90-100	0.02
100-110	0.02
110-120	0.03
120-130	0.01
130-140	0.04
140-150	0.09
150-160	0.13
160-170	0.14
170-180	0.05



C0(Max): —————

C0/C180: —————

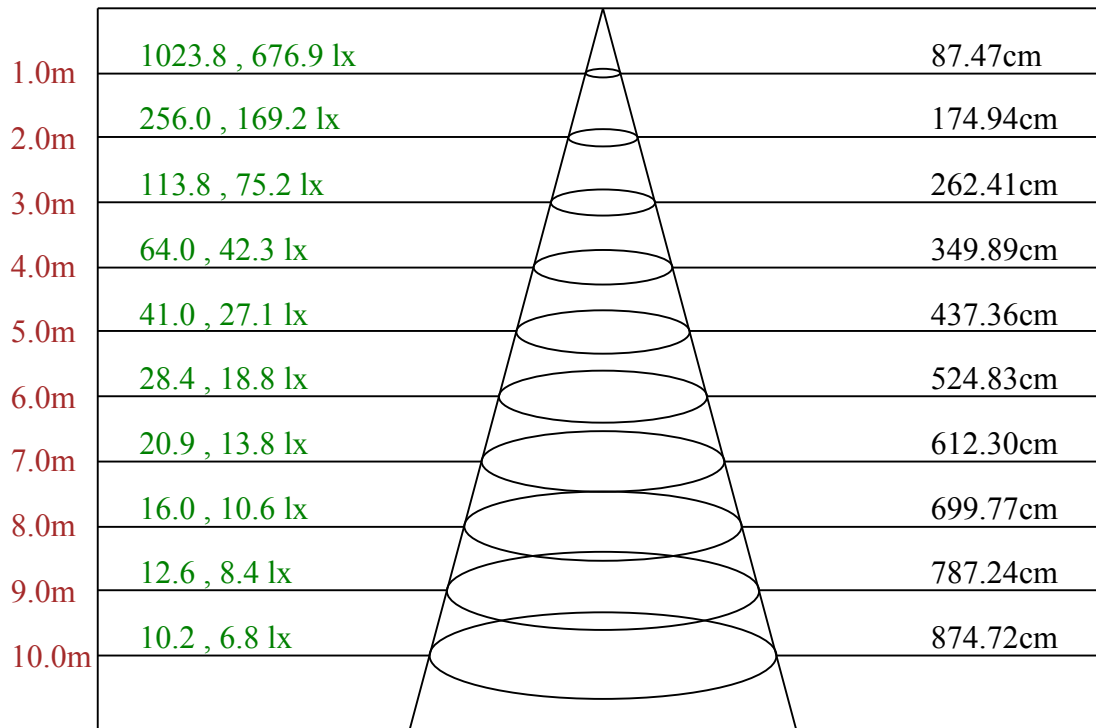
C90/C270: —————

Field angle(10%Imax):C0/180Left:36.9 Right:32.8

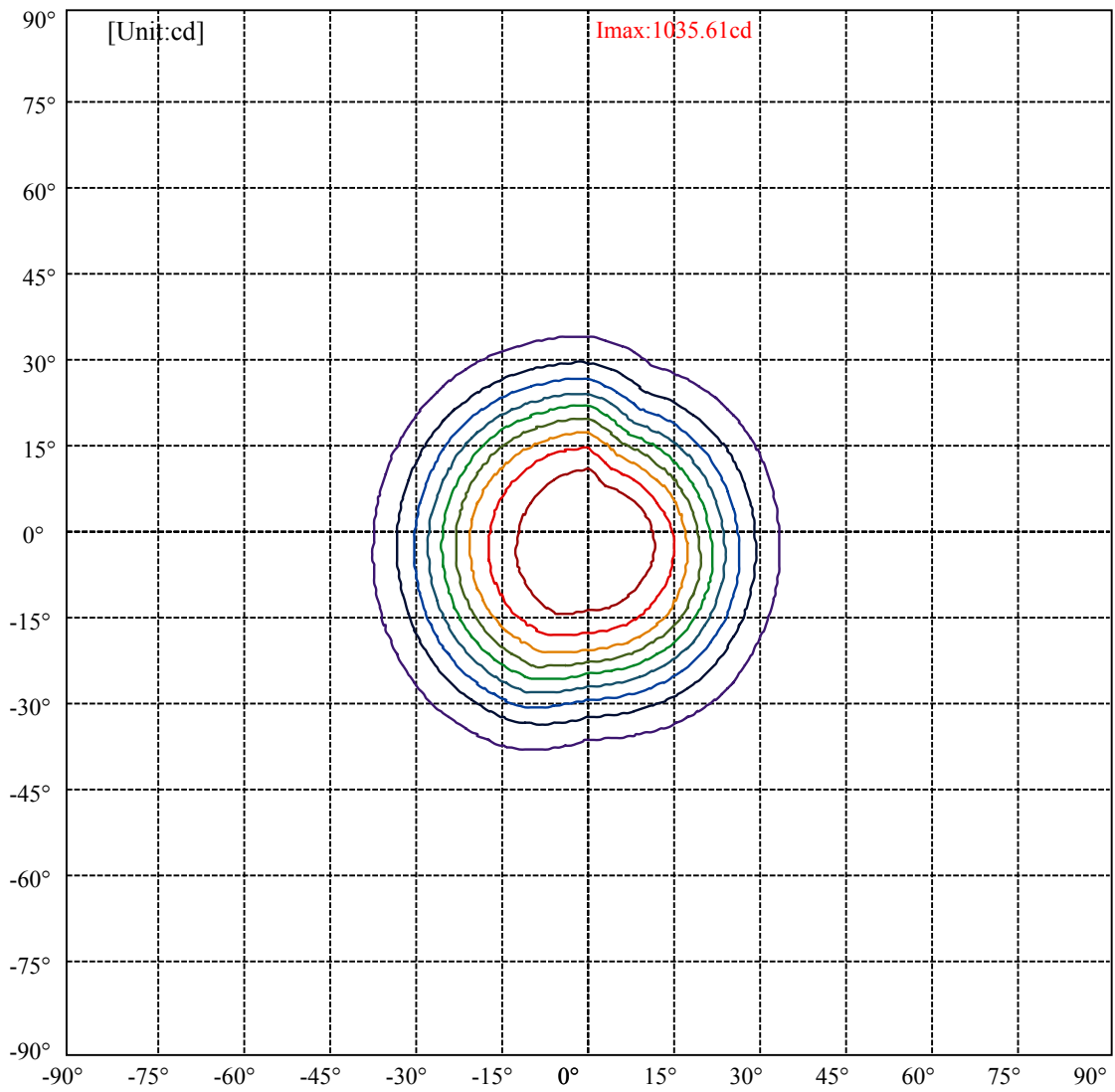
:C90/270Left:35.9 Right:33.8

Beam Angle(50%Imax):C0/180Left:25.1 Right:20.9

:C90/270Left:24.7 Right:22.0



Max , Ave Beam angle of C0 plane 47.25



(10%Imax) 103.561	—
(20%Imax) 207.123	—
(30%Imax) 310.684	—
(40%Imax) 414.246	—
(50%Imax) 517.807	—
(60%Imax) 621.368	—
(70%Imax) 724.93	—
(80%Imax) 828.491	—
(90%Imax) 932.053	—

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	1007.95	1035.61	965.86	814.40	560.41	335.92	161.52	58.52	27.15
22.5	1007.95	1032.81	935.66	752.83	503.53	293.08	138.58	55.25	29.96
45.0	1007.95	1022.97	910.14	698.29	458.58	253.52	121.03	54.08	34.41
67.5	1007.95	1023.21	892.12	680.73	424.41	230.58	108.15	48.69	30.67
90.0	1007.95	988.56	952.04	810.65	599.74	357.46	174.87	77.25	37.69
112.5	1007.95	975.92	949.24	818.15	613.32	374.54	189.61	81.46	40.97
135.0	1007.95	976.39	948.07	834.53	649.83	418.79	216.53	96.45	45.41
157.5	1007.95	979.67	955.79	857.47	700.63	463.50	253.29	111.19	47.99
180.0	1007.95	981.54	962.34	886.27	737.62	521.08	302.68	134.37	52.67
202.5	1007.95	999.10	974.52	909.91	775.07	566.03	343.64	165.74	68.35
225.0	1007.95	1011.74	981.31	923.72	799.18	597.40	379.23	194.06	86.85
247.5	1007.95	1021.80	1000.97	936.13	806.91	618.00	390.23	202.72	88.49
270.0	1007.95	980.14	996.29	905.69	740.43	486.67	262.88	114.00	42.37
292.5	1007.95	970.77	986.69	908.27	734.34	477.54	261.48	116.81	47.05
315.0	1007.95	990.67	989.26	882.29	709.06	453.20	239.24	110.26	51.27
337.5	1007.95	1021.57	988.33	856.30	652.64	400.53	202.25	78.65	32.07
360.0	1007.95	1035.61	965.86	814.40	560.41	335.92	161.52	58.52	27.15
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	20.83	16.62	12.17	7.49	5.15	2.34	1.64	0.94	0.00
22.5	22.47	17.79	13.58	8.90	6.09	2.58	2.11	0.94	0.00
45.0	26.22	19.20	14.75	10.77	6.56	3.51	1.87	0.94	0.00
67.5	21.54	17.56	13.34	9.13	6.09	3.28	2.11	1.17	0.00
90.0	23.88	18.73	15.45	11.47	7.49	4.92	2.81	1.87	0.70
112.5	26.69	21.07	17.09	13.11	8.66	5.62	3.04	2.34	0.70
135.0	32.07	25.75	19.20	14.51	10.77	6.32	3.75	2.34	0.47
157.5	31.37	22.47	17.79	14.51	10.07	6.32	3.98	2.11	1.17
180.0	28.56	20.60	17.09	13.58	9.36	6.09	3.28	2.34	1.41
202.5	37.22	23.64	18.96	15.22	11.24	6.79	3.98	2.34	0.94
225.0	46.58	32.54	23.41	16.39	12.41	8.19	4.45	1.87	0.70
247.5	37.92	23.64	18.26	14.51	10.30	6.56	3.75	1.17	0.94
270.0	24.58	18.49	14.28	10.30	6.79	4.45	2.11	1.64	0.47
292.5	25.98	20.37	15.68	11.00	6.56	4.21	1.87	1.17	0.47
315.0	34.41	20.83	15.68	11.47	7.02	3.98	1.64	1.17	0.23
337.5	23.88	18.49	13.81	9.13	5.85	3.28	1.64	0.94	0.00
360.0	20.83	16.62	12.17	7.49	5.15	2.34	1.64	0.94	0.00
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.23	0.00	0.23	0.23	0.23	0.47	0.23	0.23	0.23
292.5	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	0.00	0.00	0.23	0.23	0.23	0.47	0.47	0.70	0.94
22.5	0.00	0.00	0.23	0.23	0.47	0.23	0.47	0.47	0.70
45.0	0.23	0.23	0.47	0.47	0.70	0.70	0.47	0.70	0.70
67.5	0.00	0.23	0.23	0.23	0.23	0.47	0.70	0.47	0.70
90.0	0.00	0.23	0.00	0.23	0.23	0.47	0.70	0.47	0.70
112.5	0.00	0.00	0.00	0.23	0.00	0.47	0.47	0.47	0.70
135.0	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.70
157.5	0.00	0.00	0.00	0.23	0.23	0.47	0.47	0.70	0.70
180.0	0.00	0.00	0.00	0.00	0.23	0.23	0.47	0.23	0.47
202.5	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.47	0.47
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.47	0.47
247.5	0.00	0.00	0.00	0.00	0.23	0.00	0.23	0.47	0.47
270.0	0.47	0.47	0.47	0.47	0.70	0.70	1.17	0.94	1.41
292.5	0.23	0.23	0.23	0.23	0.23	0.47	0.70	0.70	0.94
315.0	0.00	0.23	0.00	0.23	0.47	0.47	0.47	0.70	0.70
337.5	0.00	0.00	0.23	0.23	0.47	0.47	0.47	0.70	0.70
360.0	0.00	0.00	0.23	0.23	0.23	0.47	0.47	0.70	0.94

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