



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:

LumCAT:LSG3-5CCT(3000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.11

LampCAT:

Current(A): 0.0630

Lamp flux(lm): -1.0

Power (W): 7.21

Number of Lamps: 1

PF: 0.9594

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 613.24, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 85.05

Central intensity(cd): 952.090, Maximum intensity(cd): 978.221

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	952.090	0.000	0	0.00%	0.00%
5.0	945.316	22.683	22.683	0.00%	3.70%
10.0	908.487	66.316	88.999	0.00%	14.51%
15.0	795.551	101.082	190.082	0.00%	31.00%
20.0	617.856	116.485	306.566	0.00%	49.99%
25.0	404.271	107.202	413.768	0.00%	67.47%
30.0	221.103	79.142	492.91	0.00%	80.38%
35.0	100.332	47.334	540.244	0.00%	88.10%
40.0	45.066	24.259	564.502	0.00%	92.05%
45.0	27.405	13.419	577.921	0.00%	94.24%
50.0	19.942	9.567	587.488	0.00%	95.80%
55.0	15.382	7.681	595.168	0.00%	97.05%
60.0	11.305	6.168	601.337	0.00%	98.06%
65.0	7.698	4.619	605.956	0.00%	98.81%
70.0	4.630	3.121	609.078	0.00%	99.32%
75.0	2.598	1.889	610.967	0.00%	99.63%
80.0	1.493	1.095	612.061	0.00%	99.81%
85.0	0.484	0.537	612.598	0.00%	99.90%
90.0	0.014	0.136	612.734	0.00%	99.92%
95.0	0.014	0.008	612.742	0.00%	99.92%
100.0	0.014	0.008	612.749	0.00%	99.92%
105.0	0.014	0.007	612.757	0.00%	99.92%
110.0	0.014	0.007	612.764	0.00%	99.92%
115.0	0.041	0.014	612.778	0.00%	99.92%
120.0	0.014	0.013	612.792	0.00%	99.93%
125.0	0.014	0.006	612.798	0.00%	99.93%
130.0	0.014	0.006	612.804	0.00%	99.93%
135.0	0.055	0.014	612.818	0.00%	99.93%
140.0	0.097	0.028	612.846	0.00%	99.94%
145.0	0.124	0.037	612.883	0.00%	99.94%
150.0	0.180	0.045	612.928	0.00%	99.95%
155.0	0.262	0.056	612.984	0.00%	99.96%
160.0	0.373	0.067	613.05	0.00%	99.97%
165.0	0.484	0.071	613.121	0.00%	99.98%
170.0	0.539	0.061	613.181	0.00%	99.99%
175.0	0.677	0.043	613.225	0.00%	100.00%
180.0	0.663	0.016	613.241	0.00%	100.00%

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

Date:
Humidity(%): 58%

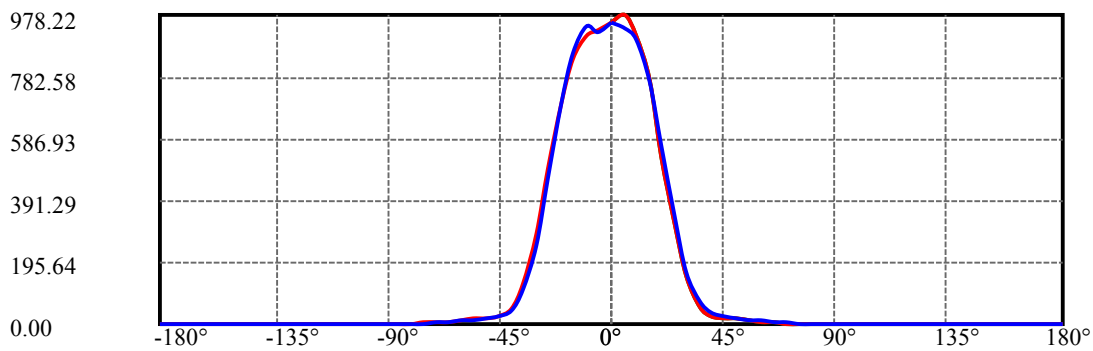
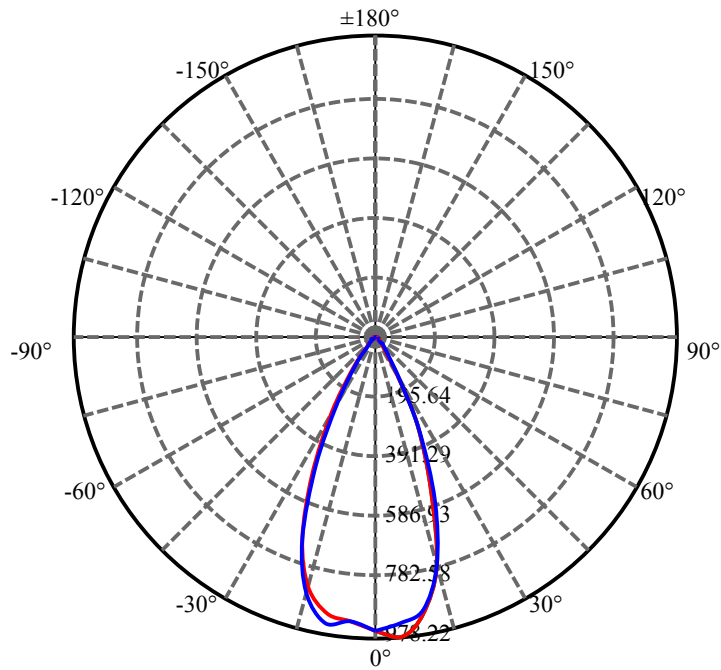
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	492.91	N.A.	80.38%
0-40	564.50	N.A.	92.05%
0-60	601.34	N.A.	98.06%
0-90	612.73	N.A.	99.92%
0-120	612.79	N.A.	99.93%
0-180	613.24	N.A.	100.00%
60-90	11.40	N.A.	1.86%
90-120	0.06	N.A.	0.01%
90-130	0.07	N.A.	0.01%
90-150	0.19	N.A.	0.03%
90-180	0.49	N.A.	0.08%
0-29.85	490.59	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	89.00
10-20	217.57
20-30	186.34
30-40	71.59
40-50	22.99
50-60	13.85
60-70	7.74
70-80	2.98
80-90	0.67
90-100	0.02
100-110	0.01
110-120	0.03
120-130	0.01
130-140	0.04
140-150	0.08
150-160	0.12
160-170	0.13
170-180	0.04



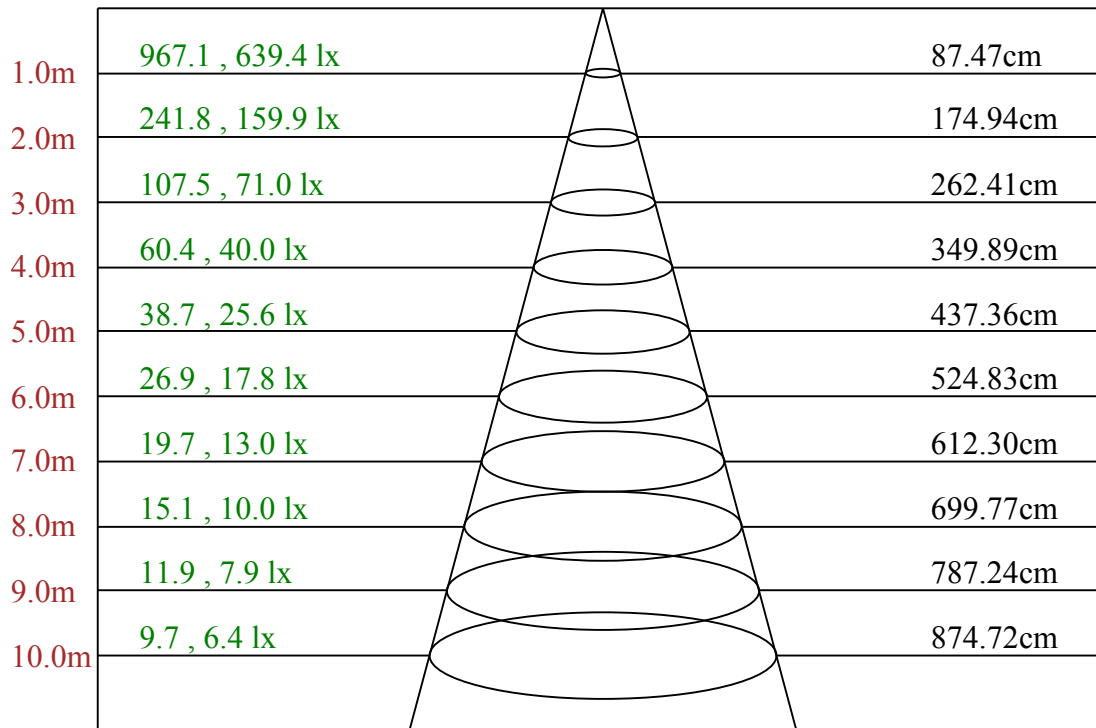
C0(Max): —————

C0/C180: —————

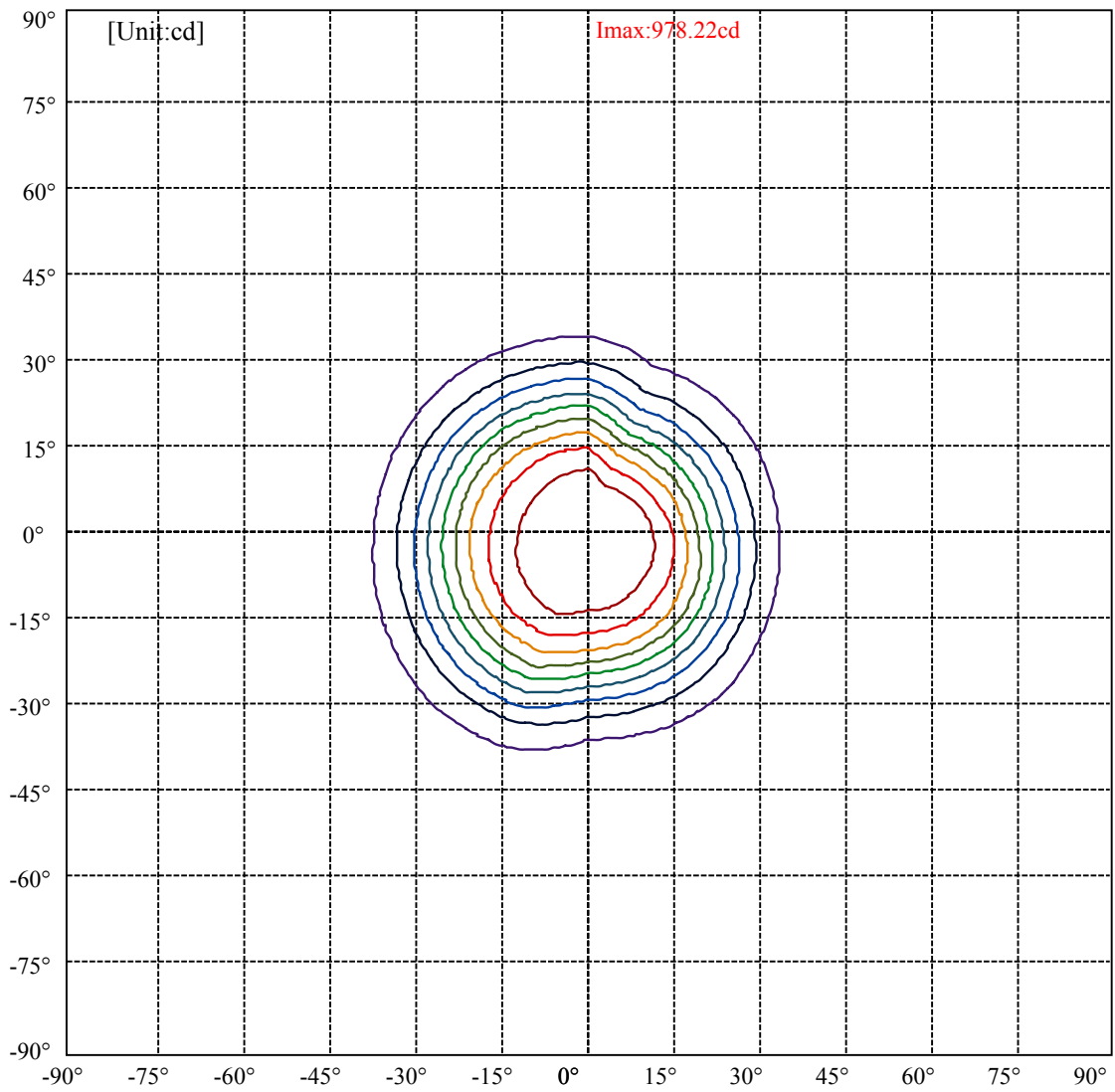
C90/C270: —————

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%I _{max}) 97.8221	—
(20%I _{max}) 195.644	—
(30%I _{max}) 293.466	—
(40%I _{max}) 391.288	—
(50%I _{max}) 489.111	—
(60%I _{max}) 586.933	—
(70%I _{max}) 684.755	—
(80%I _{max}) 782.577	—
(90%I _{max}) 880.399	—

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	952.09	978.22	912.33	769.27	529.35	317.30	152.57	55.28	25.65
22.5	952.09	975.57	883.80	711.11	475.62	276.84	130.90	52.18	28.30
45.0	952.09	966.28	859.70	659.59	433.17	239.47	114.32	51.08	32.50
67.5	952.09	966.50	842.68	643.01	400.89	217.80	102.16	45.99	28.97
90.0	952.09	933.78	899.28	765.73	566.50	337.65	165.17	72.97	35.60
112.5	952.09	921.84	896.63	772.80	579.33	353.79	179.11	76.95	38.70
135.0	952.09	922.28	895.52	788.28	613.82	395.58	204.53	91.10	42.90
157.5	952.09	925.37	902.82	809.95	661.80	437.81	239.25	105.03	45.33
180.0	952.09	927.14	909.01	837.15	696.74	492.21	285.90	126.92	49.75
202.5	952.09	943.73	920.51	859.48	732.12	534.66	324.60	156.55	64.57
225.0	952.09	955.67	926.92	872.53	754.89	564.29	358.21	183.31	82.03
247.5	952.09	965.18	945.50	884.25	762.19	583.75	368.60	191.49	83.58
270.0	952.09	925.82	941.07	855.50	699.39	459.70	248.31	107.68	40.02
292.5	952.09	916.97	932.01	857.93	693.64	451.08	246.99	110.34	44.44
315.0	952.09	935.77	934.44	833.39	669.76	428.08	225.98	104.15	48.43
337.5	952.09	964.95	933.56	808.85	616.47	378.33	191.05	74.30	30.29
360.0	952.09	978.22	912.33	769.27	529.35	317.30	152.57	55.28	25.65
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	19.68	15.70	11.50	7.08	4.87	2.21	1.55	0.88	0.00
22.5	21.23	16.81	12.83	8.40	5.75	2.43	1.99	0.88	0.00
45.0	24.77	18.13	13.93	10.17	6.19	3.32	1.77	0.88	0.00
67.5	20.34	16.58	12.60	8.62	5.75	3.10	1.99	1.11	0.00
90.0	22.55	17.69	14.59	10.84	7.08	4.64	2.65	1.77	0.66
112.5	25.21	19.90	16.14	12.38	8.18	5.31	2.88	2.21	0.66
135.0	30.29	24.32	18.13	13.71	10.17	5.97	3.54	2.21	0.44
157.5	29.63	21.23	16.81	13.71	9.51	5.97	3.76	1.99	1.11
180.0	26.98	19.46	16.14	12.83	8.85	5.75	3.10	2.21	1.33
202.5	35.16	22.33	17.91	14.37	10.61	6.41	3.76	2.21	0.88
225.0	44.00	30.74	22.11	15.48	11.72	7.74	4.20	1.77	0.66
247.5	35.82	22.33	17.25	13.71	9.73	6.19	3.54	1.11	0.88
270.0	23.22	17.47	13.49	9.73	6.41	4.20	1.99	1.55	0.44
292.5	24.54	19.24	14.82	10.39	6.19	3.98	1.77	1.11	0.44
315.0	32.50	19.68	14.82	10.84	6.63	3.76	1.55	1.11	0.22
337.5	22.55	17.47	13.05	8.62	5.53	3.10	1.55	0.88	0.00
360.0	19.68	15.70	11.50	7.08	4.87	2.21	1.55	0.88	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	0.22	0.00	0.22	0.22	0.22	0.44	0.22	0.22	0.22
292.5	0.00	0.22	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	0.22	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	0.22	0.22	0.22	0.44	0.44	0.66	0.88
22.5	0.00	0.00	0.22	0.22	0.44	0.22	0.44	0.44	0.66
45.0	0.22	0.22	0.44	0.44	0.66	0.66	0.44	0.66	0.66
67.5	0.00	0.22	0.22	0.22	0.22	0.44	0.66	0.44	0.66
90.0	0.00	0.22	0.00	0.22	0.22	0.44	0.66	0.44	0.66
112.5	0.00	0.00	0.00	0.22	0.00	0.44	0.44	0.44	0.66
135.0	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.66
157.5	0.00	0.00	0.00	0.22	0.22	0.44	0.44	0.66	0.66
180.0	0.00	0.00	0.00	0.00	0.22	0.22	0.44	0.22	0.44
202.5	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.44	0.44
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.44	0.44
247.5	0.00	0.00	0.00	0.00	0.22	0.00	0.22	0.44	0.44
270.0	0.44	0.44	0.44	0.44	0.66	0.66	1.11	0.88	1.33
292.5	0.22	0.22	0.22	0.22	0.22	0.44	0.66	0.66	0.88
315.0	0.00	0.22	0.00	0.22	0.44	0.44	0.44	0.66	0.66
337.5	0.00	0.00	0.22	0.22	0.44	0.44	0.44	0.66	0.66
360.0	0.00	0.00	0.22	0.22	0.22	0.44	0.44	0.66	0.88

C/γ(°)	180.0
0.0	0.66
22.5	0.66
45.0	0.66
67.5	0.66
90.0	0.66
112.5	0.66
135.0	0.66
157.5	0.66
180.0	0.66
202.5	0.66
225.0	0.66
247.5	0.66
270.0	0.66
292.5	0.66
315.0	0.66
337.5	0.66
360.0	0.66