



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:

LumCAT:LL3G-5CCT(5000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.05

LampCAT:

Current(A): 0.0630

Lamp flux(lm): -1.0

Power (W): 7.23

Number of Lamps: 1

PF: 0.9584

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 717.87, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 99.26

Central intensity(cd): 1102.757, Maximum intensity(cd): 1177.842

Angle of maximum intensity: C=270.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=47.5

[C90/270]Total=45.3

Field angle(10%Imax): [C0/180]Total=70.7

[C90/270]Total=69.1

Maximum s/h(1/2): C0_180=0.86 C90_270=0.71

Maximum s/h(1/4): C0_180=0.80 C90_270=0.68

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.267%

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	1121.244	0.000	0	0.00%	0.00%
5.0	1103.895	26.601	26.601	0.00%	3.71%
10.0	1047.139	76.949	103.55	0.00%	14.42%
15.0	921.398	116.772	220.322	0.00%	30.69%
20.0	711.360	134.562	354.885	0.00%	49.44%
25.0	470.511	123.956	478.841	0.00%	66.70%
30.0	261.674	92.659	571.5	0.00%	79.61%
35.0	118.584	55.996	627.495	0.00%	87.41%
40.0	52.505	28.545	656.04	0.00%	91.39%
45.0	30.353	15.342	671.382	0.00%	93.52%
50.0	22.231	10.625	682.007	0.00%	95.00%
55.0	18.029	8.754	690.761	0.00%	96.22%
60.0	14.379	7.491	698.252	0.00%	97.27%
65.0	10.950	6.157	704.409	0.00%	98.12%
70.0	8.153	4.837	709.246	0.00%	98.80%
75.0	5.657	3.610	712.856	0.00%	99.30%
80.0	3.413	2.427	715.283	0.00%	99.64%
85.0	1.533	1.344	716.627	0.00%	99.83%
90.0	0.363	0.519	717.146	0.00%	99.90%
95.0	0.016	0.104	717.25	0.00%	99.91%
100.0	0.016	0.009	717.258	0.00%	99.91%
105.0	0.016	0.008	717.267	0.00%	99.92%
110.0	0.016	0.008	717.275	0.00%	99.92%
115.0	0.032	0.012	717.287	0.00%	99.92%
120.0	0.047	0.019	717.306	0.00%	99.92%
125.0	0.032	0.018	717.325	0.00%	99.92%
130.0	0.047	0.017	717.342	0.00%	99.93%
135.0	0.063	0.022	717.364	0.00%	99.93%
140.0	0.095	0.029	717.393	0.00%	99.93%
145.0	0.142	0.040	717.433	0.00%	99.94%
150.0	0.269	0.061	717.493	0.00%	99.95%
155.0	0.316	0.074	717.567	0.00%	99.96%
160.0	0.459	0.081	717.649	0.00%	99.97%
165.0	0.537	0.082	717.731	0.00%	99.98%
170.0	0.664	0.071	717.802	0.00%	99.99%
175.0	0.806	0.053	717.855	0.00%	100.00%
180.0	0.821	0.019	717.874	0.00%	100.00%

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

Date:
Humidity(%): 58%

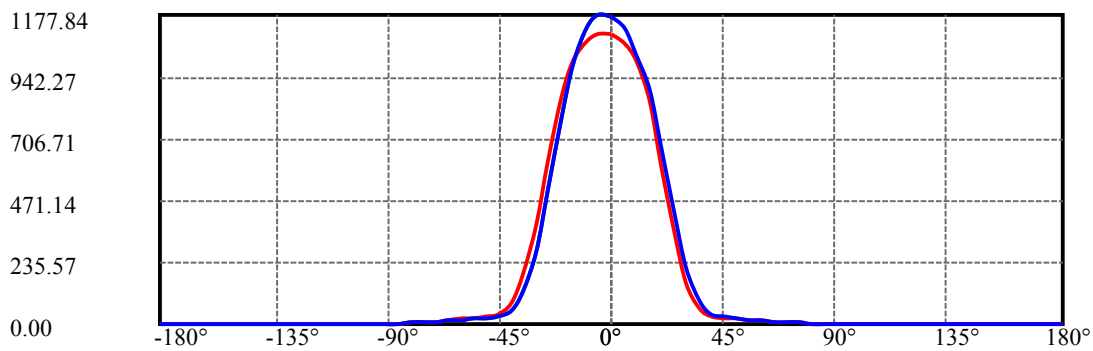
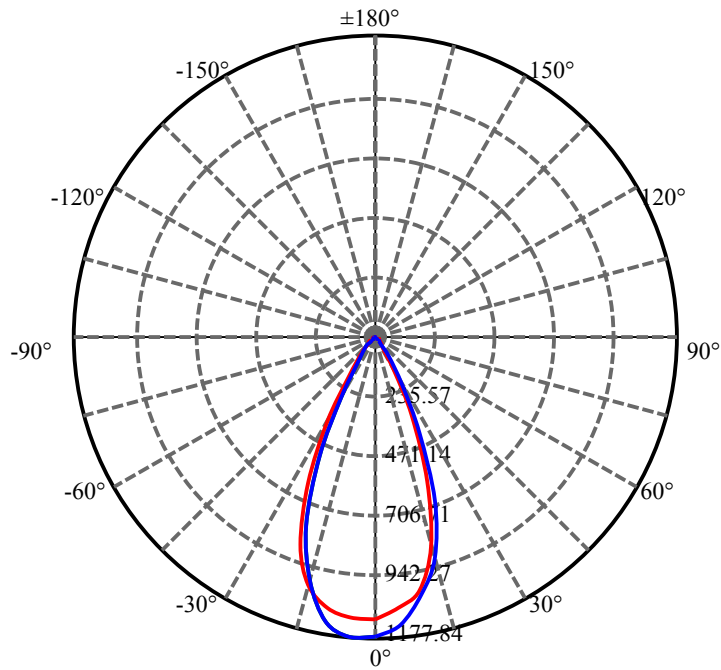
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	571.50	N.A.	79.61%
0-40	656.04	N.A.	91.39%
0-60	698.25	N.A.	97.27%
0-90	717.15	N.A.	99.90%
0-120	717.31	N.A.	99.92%
0-180	717.87	N.A.	100.00%
60-90	18.89	N.A.	2.63%
90-120	0.16	N.A.	0.02%
90-130	0.20	N.A.	0.03%
90-150	0.35	N.A.	0.05%
90-180	0.71	N.A.	0.10%
0-30.25	574.30	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	103.55
10-20	251.33
20-30	216.62
30-40	84.54
40-50	25.97
50-60	16.24
60-70	10.99
70-80	6.04
80-90	1.86
90-100	0.11
100-110	0.02
110-120	0.03
120-130	0.04
130-140	0.05
140-150	0.10
150-160	0.16
160-170	0.15
170-180	0.05



C270(Max): ———

C0/C180: ———

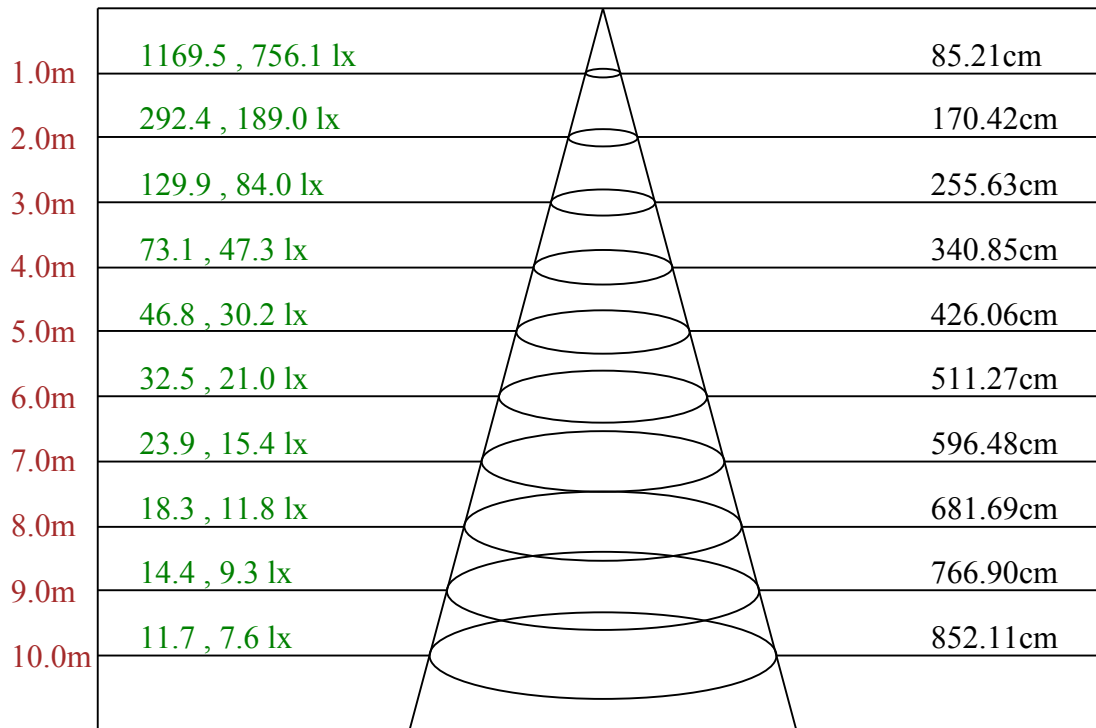
C90/C270: ———

Field angle(10%Imax):C0/180Left:38.5 Right:32.2

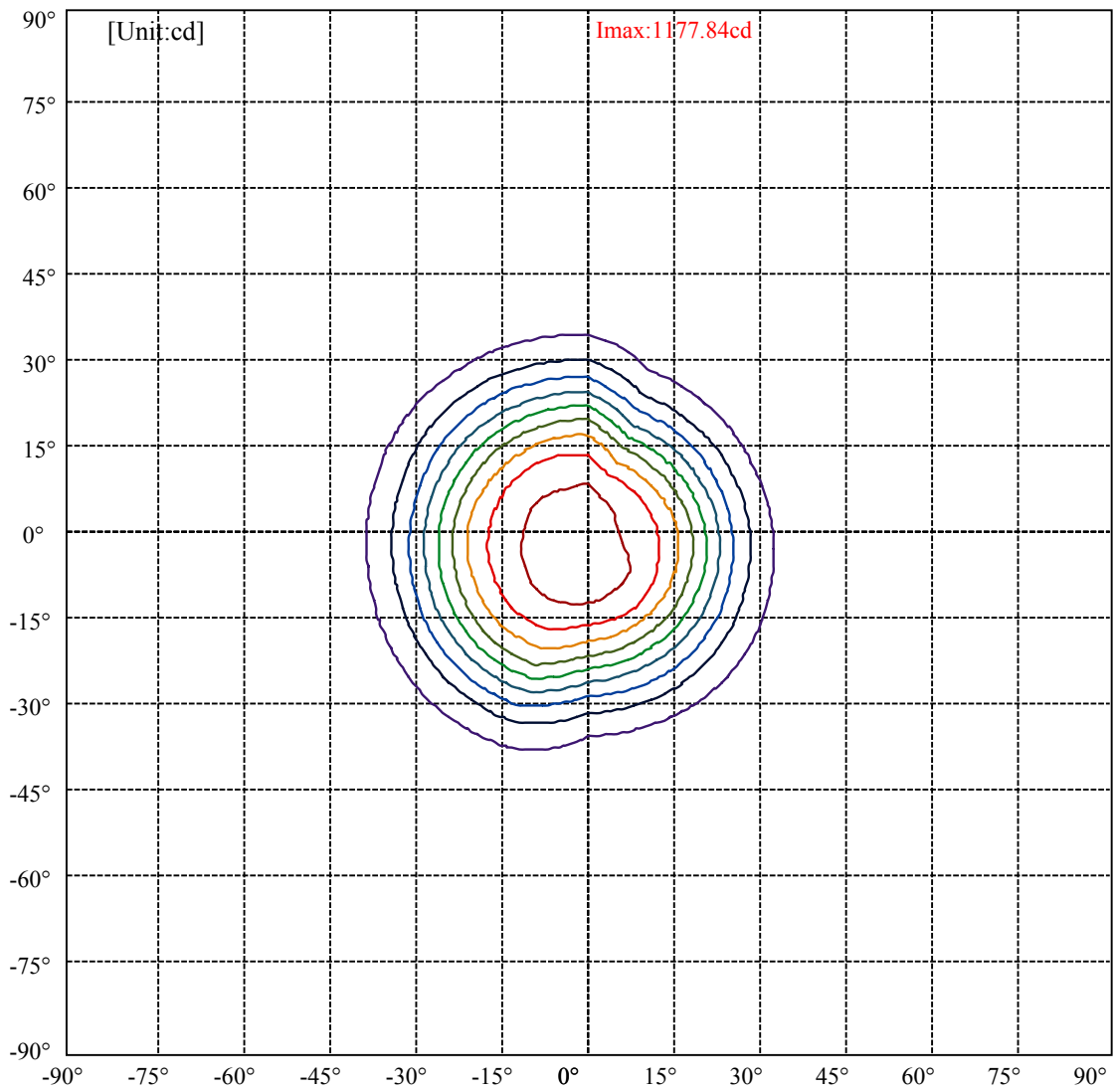
:C90/270Left:35.3 Right:33.8

Beam Angle(50%Imax):C0/180Left:26.5 Right:21.0

:C90/270Left:23.6 Right:21.7



Max , Ave Beam angle of C270 plane 46.15



(10%Imax) 117.784	—
(20%Imax) 235.568	—
(30%Imax) 353.353	—
(40%Imax) 471.137	—
(50%Imax) 588.921	—
(60%Imax) 706.705	—
(70%Imax) 824.489	—
(80%Imax) 942.274	—
(90%Imax) 1060.06	—

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	1102.76	1065.09	1003.91	846.66	601.18	341.55	152.95	55.37	29.58
22.5	1095.93	1059.78	981.91	788.01	532.67	284.41	120.09	45.00	26.80
45.0	1107.81	1075.96	960.68	743.51	478.06	247.75	103.65	40.45	26.29
67.5	1133.09	1088.09	955.88	735.17	459.61	240.93	103.65	41.97	26.29
90.0	1169.50	1129.81	1023.12	893.94	676.27	416.63	214.38	87.22	38.68
112.5	1140.93	1105.03	1035.00	919.47	692.45	447.22	240.17	103.40	45.76
135.0	1116.92	1098.21	1053.46	948.80	738.46	492.47	279.10	122.36	55.11
157.5	1103.01	1097.20	1070.40	979.39	800.90	560.23	330.93	150.68	63.46
180.0	1102.76	1102.25	1077.22	1001.38	864.86	625.45	382.00	188.34	77.87
202.5	1095.93	1104.53	1086.58	1027.42	885.59	665.65	421.43	208.82	87.22
225.0	1107.81	1106.80	1099.72	1040.82	898.23	694.72	439.64	224.50	96.57
247.5	1133.09	1115.65	1102.76	1037.79	888.37	689.67	438.88	229.80	99.35
270.0	1169.50	1177.84	1124.75	984.19	779.16	511.94	277.08	122.61	53.60
292.5	1140.93	1150.03	1088.85	971.30	736.18	480.34	259.13	110.23	43.99
315.0	1116.92	1111.10	1062.56	934.39	696.49	436.10	232.33	92.53	36.91
337.5	1103.01	1074.95	1027.42	890.14	653.26	393.12	191.38	74.07	32.61
360.0	1102.76	1065.09	1003.91	846.66	601.18	341.55	152.95	55.37	29.58
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	22.75	18.71	14.92	11.63	8.09	5.82	3.79	1.77	0.00
22.5	21.49	17.95	13.91	10.37	7.33	5.56	3.54	1.26	0.00
45.0	20.98	17.19	13.40	10.11	7.33	5.31	3.03	1.26	0.00
67.5	21.24	17.44	13.65	10.37	7.84	5.31	3.29	1.26	0.00
90.0	26.04	20.98	16.69	13.40	9.35	7.08	5.31	3.03	0.51
112.5	27.56	21.99	18.46	14.41	10.62	8.09	5.31	3.29	1.52
135.0	29.33	22.75	19.72	15.67	11.63	9.10	6.07	3.79	1.77
157.5	35.14	24.52	20.48	16.69	13.15	9.86	6.57	4.30	2.28
180.0	39.69	26.04	21.99	18.46	14.41	10.37	7.58	4.80	2.78
202.5	40.96	27.05	21.74	17.70	14.41	10.87	7.84	5.31	3.03
225.0	45.76	27.30	21.99	17.95	14.92	10.87	8.34	5.06	3.03
247.5	46.01	27.56	21.99	18.46	14.92	11.12	7.84	5.31	3.54
270.0	31.60	23.51	18.71	15.17	11.12	9.10	6.57	4.80	2.53
292.5	27.81	21.99	17.70	14.16	11.12	8.34	6.07	3.79	2.02
315.0	25.03	20.73	17.19	13.40	9.86	7.08	5.06	3.29	1.26
337.5	24.27	19.97	15.93	12.14	9.10	6.57	4.30	2.28	0.25
360.0	22.75	18.71	14.92	11.63	8.09	5.82	3.79	1.77	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	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.25	0.25	0.25	0.25	0.25	0.51	0.76	0.51	0.51
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
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	0.00	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)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.25	0.00	0.51	0.51	0.51	0.76	0.76	0.76
22.5	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51	0.76
45.0	0.00	0.00	0.25	0.25	0.51	0.51	0.51	0.76	0.76
67.5	0.00	0.25	0.25	0.76	0.51	0.51	0.76	0.51	0.76
90.0	0.00	0.00	0.25	0.25	0.25	0.51	0.76	0.76	1.01
112.5	0.00	0.00	0.00	0.00	0.25	0.25	0.51	0.51	0.76
135.0	0.00	0.00	0.00	0.25	0.25	0.51	0.25	0.76	0.76
157.5	0.00	0.00	0.00	0.25	0.00	0.51	0.51	0.25	0.76
180.0	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.76
202.5	0.00	0.00	0.00	0.00	0.00	0.25	0.51	0.51	0.51
225.0	0.00	0.00	0.00	0.00	0.00	0.51	0.25	0.51	0.51
247.5	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.51	0.76
270.0	0.51	0.76	0.76	0.76	1.01	1.01	1.26	1.52	1.52
292.5	0.51	0.25	0.25	0.25	0.76	0.25	0.51	0.76	0.76
315.0	0.00	0.00	0.25	0.25	0.25	0.51	0.51	0.76	1.01
337.5	0.00	0.00	0.25	0.25	0.25	0.51	0.76	1.01	0.76
360.0	0.00	0.25	0.00	0.51	0.51	0.51	0.76	0.76	0.76

C/γ(°)	180.0
0.0	1.01
22.5	0.51
45.0	0.76
67.5	0.76
90.0	1.26
112.5	0.76
135.0	0.76
157.5	0.76
180.0	1.01
202.5	0.51
225.0	0.76
247.5	0.76
270.0	1.26
292.5	0.76
315.0	0.76
337.5	0.76
360.0	1.01