



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
www.bellingeel.com

Tel:0755-21038430

Address:1Floor, No.1 Building,Meibaohe Industrial Park,Dalang Street,Longhua District,Shenzhen,Guangdong Prov.518101 China

Client:

LumCAT:LSG3-5CCT(4000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.07

LampCAT:

Current(A): 0.0620

Lamp flux(lm): -1.0

Power (W): 7.11

Number of Lamps: 1

PF: 0.9584

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 683.61, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.15

Central intensity(cd): 1061.342, Maximum intensity(cd): 1090.472

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	1061.342	0.000	0	0.00%	0.00%
5.0	1053.791	25.286	25.286	0.00%	3.70%
10.0	1012.735	73.926	99.212	0.00%	14.51%
15.0	886.840	112.682	211.893	0.00%	31.00%
20.0	688.755	129.851	341.745	0.00%	49.99%
25.0	450.661	119.504	461.248	0.00%	67.47%
30.0	246.475	88.223	549.471	0.00%	80.38%
35.0	111.845	52.765	602.236	0.00%	88.10%
40.0	50.238	27.042	629.279	0.00%	92.05%
45.0	30.549	14.958	644.237	0.00%	94.24%
50.0	22.230	10.665	654.902	0.00%	95.80%
55.0	17.146	8.562	663.464	0.00%	97.05%
60.0	12.602	6.876	670.34	0.00%	98.06%
65.0	8.581	5.150	675.49	0.00%	98.81%
70.0	5.161	3.480	678.969	0.00%	99.32%
75.0	2.896	2.106	681.075	0.00%	99.63%
80.0	1.664	1.220	682.295	0.00%	99.81%
85.0	0.539	0.599	682.894	0.00%	99.90%
90.0	0.015	0.152	683.045	0.00%	99.92%
95.0	0.015	0.008	683.054	0.00%	99.92%
100.0	0.015	0.008	683.062	0.00%	99.92%
105.0	0.015	0.008	683.07	0.00%	99.92%
110.0	0.015	0.008	683.078	0.00%	99.92%
115.0	0.046	0.016	683.094	0.00%	99.92%
120.0	0.015	0.015	683.109	0.00%	99.93%
125.0	0.015	0.007	683.116	0.00%	99.93%
130.0	0.015	0.007	683.123	0.00%	99.93%
135.0	0.062	0.016	683.138	0.00%	99.93%
140.0	0.108	0.031	683.17	0.00%	99.94%
145.0	0.139	0.041	683.211	0.00%	99.94%
150.0	0.200	0.050	683.261	0.00%	99.95%
155.0	0.292	0.062	683.323	0.00%	99.96%
160.0	0.416	0.074	683.397	0.00%	99.97%
165.0	0.539	0.079	683.476	0.00%	99.98%
170.0	0.601	0.068	683.544	0.00%	99.99%
175.0	0.755	0.048	683.592	0.00%	100.00%
180.0	0.739	0.018	683.61	0.00%	100.00%

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

Date:
Humidity(%): 58%

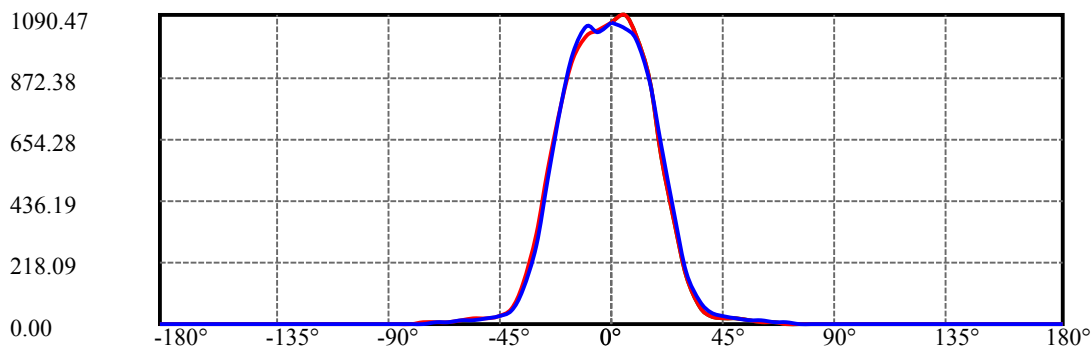
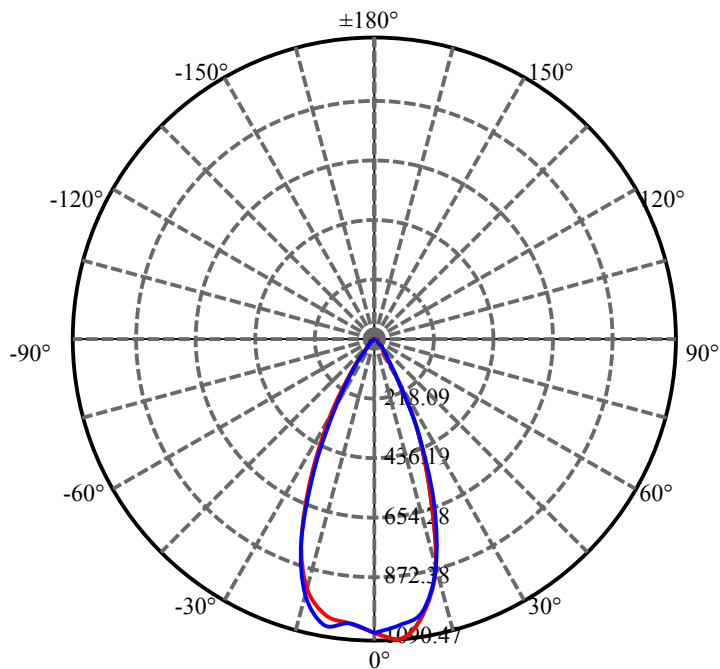
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	549.47	N.A.	80.38%
0-40	629.28	N.A.	92.05%
0-60	670.34	N.A.	98.06%
0-90	683.05	N.A.	99.92%
0-120	683.11	N.A.	99.93%
0-180	683.61	N.A.	100.00%
60-90	12.71	N.A.	1.86%
90-120	0.06	N.A.	0.01%
90-130	0.08	N.A.	0.01%
90-150	0.22	N.A.	0.03%
90-180	0.55	N.A.	0.08%
0-29.85	546.89	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	99.21
10-20	242.53
20-30	207.73
30-40	79.81
40-50	25.62
50-60	15.44
60-70	8.63
70-80	3.33
80-90	0.75
90-100	0.02
100-110	0.02
110-120	0.03
120-130	0.01
130-140	0.05
140-150	0.09
150-160	0.14
160-170	0.15
170-180	0.05



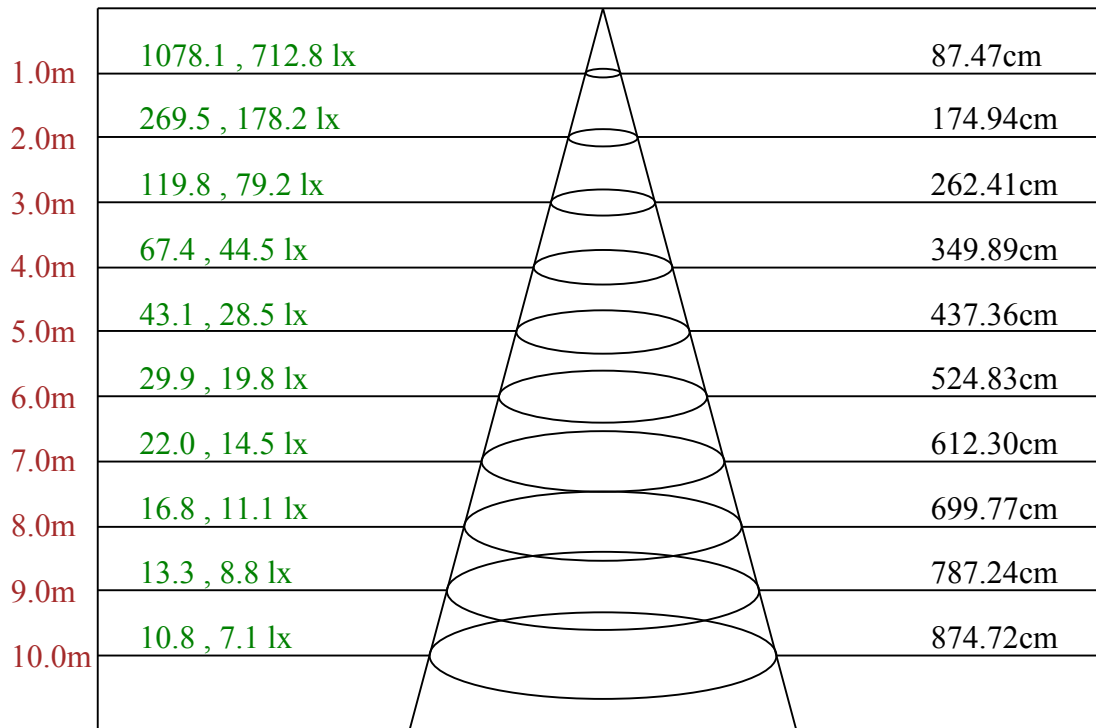
C0(Max): ———

C0/C180: ———

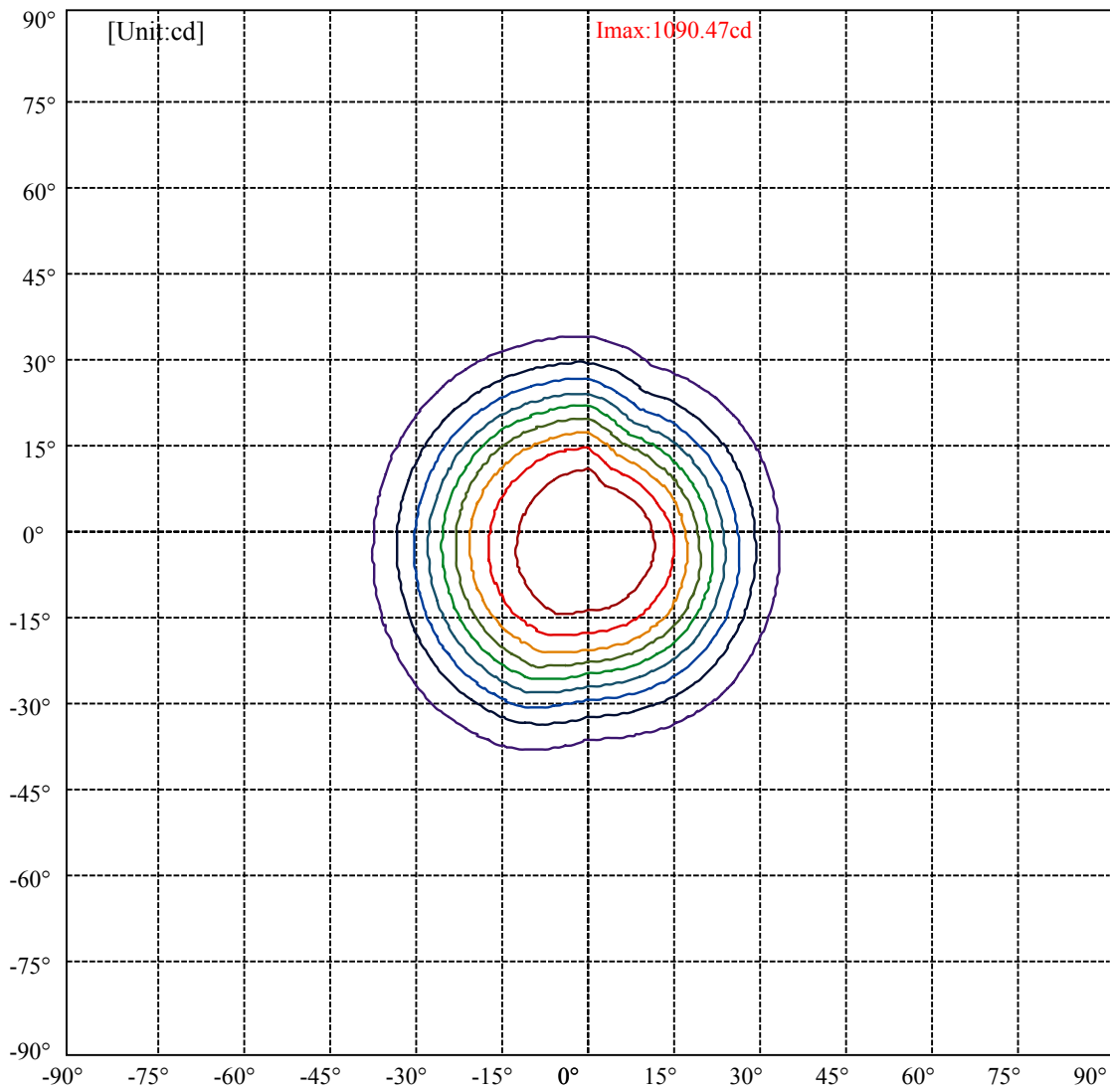
C90/C270: ———

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) 109.047	—
(20%Imax) 218.094	—
(30%Imax) 327.142	—
(40%Imax) 436.189	—
(50%Imax) 545.236	—
(60%Imax) 654.283	—
(70%Imax) 763.33	—
(80%Imax) 872.378	—
(90%Imax) 981.425	—

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	1061.34	1090.47	1017.02	857.54	590.10	353.71	170.08	61.62	28.59
22.5	1061.34	1087.51	985.22	792.71	530.20	308.61	145.92	58.17	31.55
45.0	1061.34	1077.16	958.35	735.28	482.87	266.95	127.44	56.94	36.23
67.5	1061.34	1077.41	939.37	716.79	446.89	242.79	113.88	51.27	32.29
90.0	1061.34	1040.93	1002.48	853.60	631.51	376.39	184.13	81.34	39.69
112.5	1061.34	1027.62	999.52	861.48	645.80	394.38	199.66	85.78	43.14
135.0	1061.34	1028.11	998.29	878.74	684.26	440.97	228.00	101.55	47.82
157.5	1061.34	1031.56	1006.42	902.89	737.75	488.05	266.70	117.08	50.53
180.0	1061.34	1033.53	1013.32	933.21	776.69	548.69	318.71	141.49	55.46
202.5	1061.34	1052.02	1026.14	958.11	816.13	596.01	361.85	174.52	71.98
225.0	1061.34	1065.33	1033.29	972.65	841.52	629.04	399.31	204.34	91.45
247.5	1061.34	1075.93	1053.99	985.71	849.65	650.73	410.90	213.46	93.17
270.0	1061.34	1032.05	1049.06	953.67	779.65	512.45	276.81	120.04	44.62
292.5	1061.34	1022.19	1038.96	956.38	773.24	502.84	275.33	123.00	49.54
315.0	1061.34	1043.15	1041.67	929.02	746.62	477.21	251.91	116.10	53.98
337.5	1061.34	1075.68	1040.68	901.66	687.21	421.74	212.97	82.82	33.77
360.0	1061.34	1090.47	1017.02	857.54	590.10	353.71	170.08	61.62	28.59
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	21.94	17.50	12.82	7.89	5.42	2.47	1.73	0.99	0.00
22.5	23.66	18.73	14.30	9.37	6.41	2.71	2.22	0.99	0.00
45.0	27.61	20.21	15.53	11.34	6.90	3.70	1.97	0.99	0.00
67.5	22.68	18.49	14.05	9.61	6.41	3.45	2.22	1.23	0.00
90.0	25.14	19.72	16.27	12.08	7.89	5.18	2.96	1.97	0.74
112.5	28.10	22.18	17.99	13.80	9.12	5.92	3.20	2.47	0.74
135.0	33.77	27.11	20.21	15.28	11.34	6.66	3.94	2.47	0.49
157.5	33.03	23.66	18.73	15.28	10.60	6.66	4.19	2.22	1.23
180.0	30.07	21.69	17.99	14.30	9.86	6.41	3.45	2.47	1.48
202.5	39.19	24.90	19.97	16.02	11.83	7.15	4.19	2.47	0.99
225.0	49.05	34.26	24.65	17.25	13.06	8.63	4.68	1.97	0.74
247.5	39.93	24.90	19.23	15.28	10.85	6.90	3.94	1.23	0.99
270.0	25.88	19.47	15.04	10.85	7.15	4.68	2.22	1.73	0.49
292.5	27.36	21.45	16.52	11.59	6.90	4.44	1.97	1.23	0.49
315.0	36.23	21.94	16.52	12.08	7.40	4.19	1.73	1.23	0.25
337.5	25.14	19.47	14.54	9.61	6.16	3.45	1.73	0.99	0.00
360.0	21.94	17.50	12.82	7.89	5.42	2.47	1.73	0.99	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	0.25	0.00	0.25	0.25	0.25	0.49	0.25	0.25	0.25
292.5	0.00	0.25	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	0.25	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	0.25	0.25	0.25	0.49	0.49	0.74	0.99
22.5	0.00	0.00	0.25	0.25	0.49	0.25	0.49	0.49	0.74
45.0	0.25	0.25	0.49	0.49	0.74	0.74	0.49	0.74	0.74
67.5	0.00	0.25	0.25	0.25	0.25	0.49	0.74	0.49	0.74
90.0	0.00	0.25	0.00	0.25	0.25	0.49	0.74	0.49	0.74
112.5	0.00	0.00	0.00	0.25	0.00	0.49	0.49	0.49	0.74
135.0	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.74
157.5	0.00	0.00	0.00	0.25	0.25	0.49	0.49	0.74	0.74
180.0	0.00	0.00	0.00	0.00	0.25	0.25	0.49	0.25	0.49
202.5	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.49	0.49
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.49	0.49
247.5	0.00	0.00	0.00	0.00	0.25	0.00	0.25	0.49	0.49
270.0	0.49	0.49	0.49	0.49	0.74	0.74	1.23	0.99	1.48
292.5	0.25	0.25	0.25	0.25	0.25	0.49	0.74	0.74	0.99
315.0	0.00	0.25	0.00	0.25	0.49	0.49	0.49	0.74	0.74
337.5	0.00	0.00	0.25	0.25	0.49	0.49	0.49	0.74	0.74
360.0	0.00	0.00	0.25	0.25	0.25	0.49	0.49	0.74	0.99

C/γ(°)	180.0
0.0	0.74
22.5	0.74
45.0	0.74
67.5	0.74
90.0	0.74
112.5	0.74
135.0	0.74
157.5	0.74
180.0	0.74
202.5	0.74
225.0	0.74
247.5	0.74
270.0	0.74
292.5	0.74
315.0	0.74
337.5	0.74
360.0	0.74