



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:

LumCAT:LRG6-5CCT(5000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.02

LampCAT:

Current(A): 0.1270

Lamp flux(lm): -1.0

Power (W): 14.97

Number of Lamps: 1

PF: 0.9863

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1596.48, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 106.63

Central intensity(cd): 2620.162, Maximum intensity(cd): 2660.124

Angle of maximum intensity: C=202.5 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=42.3

[C90/270]Total=39.8

Field angle(10%Imax): [C0/180]Total=76.6

[C90/270]Total=72.9

Maximum s/h(1/2): C0_180=0.71 C90_270=0.65

Maximum s/h(1/4): C0_180=0.79 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 : 97.051%

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

Date:
Humidity(%): 58%

Operator: Jasper

Zonal flux distribution table

Appendix Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2633.233	0.000	0	0.00%	0.00%
5.0	2493.117	61.284	61.284	0.00%	3.84%
10.0	2125.843	165.235	226.519	0.00%	14.19%
15.0	1712.460	227.686	454.204	0.00%	28.45%
20.0	1334.072	251.077	705.281	0.00%	44.18%
25.0	970.655	241.723	947.005	0.00%	59.32%
30.0	627.928	202.302	1149.307	0.00%	71.99%
35.0	365.970	146.358	1295.665	0.00%	81.16%
40.0	210.729	96.218	1391.883	0.00%	87.18%
45.0	130.681	63.215	1455.098	0.00%	91.14%
50.0	79.036	42.376	1497.474	0.00%	93.80%
55.0	55.655	29.286	1526.76	0.00%	95.63%
60.0	42.265	22.634	1549.394	0.00%	97.05%
65.0	29.916	17.547	1566.941	0.00%	98.15%
70.0	18.136	12.167	1579.108	0.00%	98.91%
75.0	10.712	7.540	1586.649	0.00%	99.38%
80.0	6.910	4.715	1591.364	0.00%	99.68%
85.0	2.872	2.658	1594.022	0.00%	99.85%
90.0	0.375	0.889	1594.911	0.00%	99.90%
95.0	0.014	0.106	1595.017	0.00%	99.91%
100.0	0.000	0.004	1595.021	0.00%	99.91%
105.0	0.028	0.007	1595.028	0.00%	99.91%
110.0	0.028	0.015	1595.043	0.00%	99.91%
115.0	0.028	0.014	1595.057	0.00%	99.91%
120.0	0.056	0.020	1595.077	0.00%	99.91%
125.0	0.056	0.026	1595.103	0.00%	99.91%
130.0	0.083	0.030	1595.133	0.00%	99.92%
135.0	0.139	0.045	1595.178	0.00%	99.92%
140.0	0.264	0.075	1595.252	0.00%	99.92%
145.0	0.402	0.111	1595.363	0.00%	99.93%
150.0	0.652	0.155	1595.519	0.00%	99.94%
155.0	0.916	0.198	1595.717	0.00%	99.95%
160.0	1.221	0.224	1595.941	0.00%	99.97%
165.0	1.401	0.216	1596.157	0.00%	99.98%
170.0	1.526	0.174	1596.331	0.00%	99.99%
175.0	1.610	0.112	1596.443	0.00%	100.00%
180.0	1.610	0.038	1596.482	0.00%	100.00%

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

Date:
Humidity(%): 58%

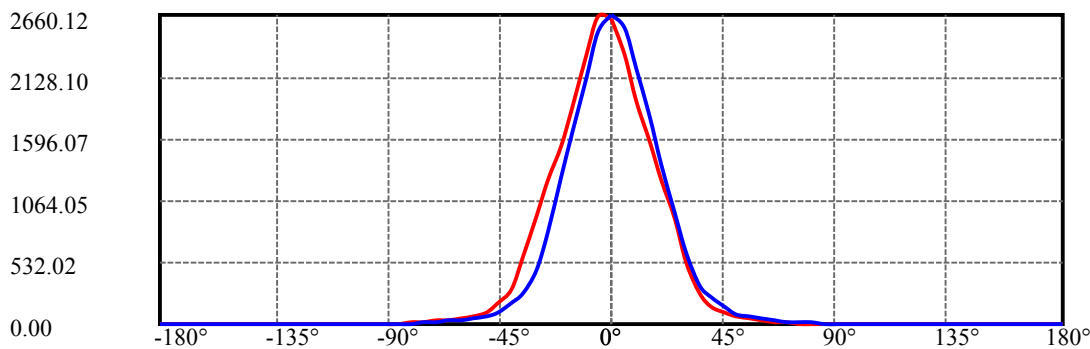
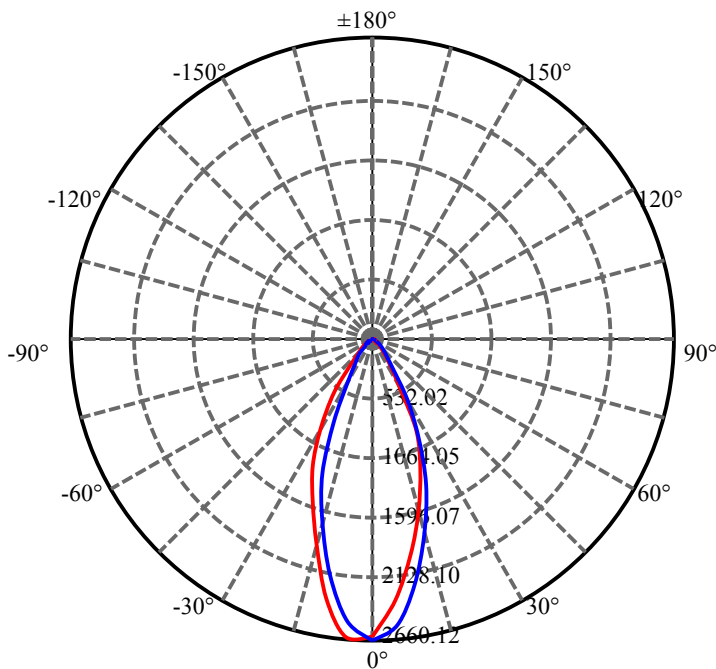
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1149.31	N.A.	71.99%
0-40	1391.88	N.A.	87.18%
0-60	1549.39	N.A.	97.05%
0-90	1594.91	N.A.	99.90%
0-120	1595.08	N.A.	99.91%
0-180	1596.48	N.A.	100.00%
60-90	45.52	N.A.	2.85%
90-120	0.17	N.A.	0.01%
90-130	0.22	N.A.	0.01%
90-150	0.61	N.A.	0.04%
90-180	1.53	N.A.	0.10%
0-34.37	1277.19	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	226.52
10-20	478.76
20-30	444.03
30-40	242.58
40-50	105.59
50-60	51.92
60-70	29.71
70-80	12.26
80-90	3.55
90-100	0.11
100-110	0.02
110-120	0.03
120-130	0.06
130-140	0.12
140-150	0.27
150-160	0.42
160-170	0.39
170-180	0.11

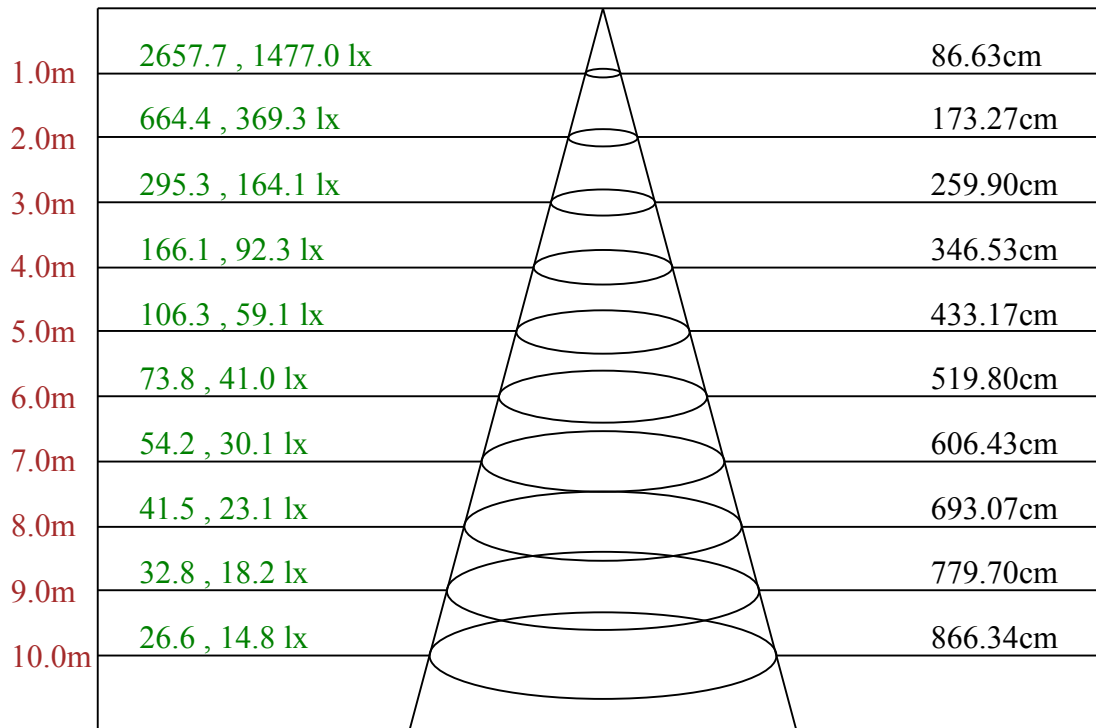


C0/C180: —

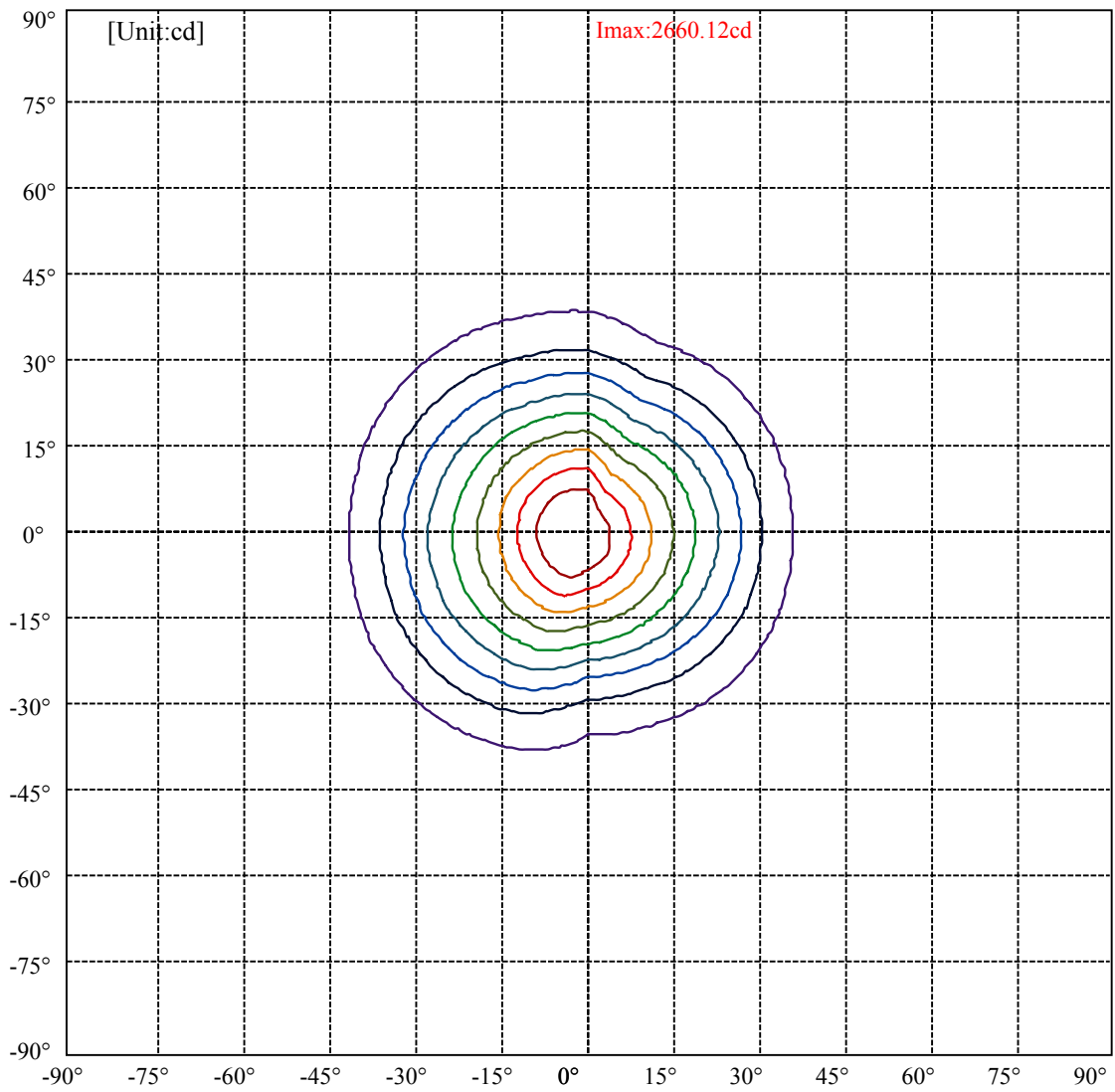
C90/C270: —

Field angle(10%Imax):C0/180Left:41.3 Right:35.3
 :C90/270Left:35.0 Right:37.9

Beam Angle(50%Imax):C0/180Left:23.6 Right:18.7
 :C90/270Left:19.3 Right:20.5



Max , Ave Beam angle of C202.5 plane 46.84



(10%Imax) 265.768	—
(20%Imax) 531.536	—
(30%Imax) 797.305	—
(40%Imax) 1063.07	—
(50%Imax) 1328.84	—
(60%Imax) 1594.61	—
(70%Imax) 1860.38	—
(80%Imax) 2126.15	—
(90%Imax) 2391.91	—

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	2620.16	2313.57	1918.39	1571.17	1232.82	905.36	521.50	272.41	151.86
22.5	2611.73	2305.57	1916.17	1547.85	1198.85	865.17	511.29	268.41	152.74
45.0	2617.05	2309.57	1906.18	1508.56	1141.35	800.35	474.66	261.08	159.18
67.5	2633.93	2345.76	1918.17	1492.57	1109.61	747.29	421.60	248.21	167.40
90.0	2657.68	2538.24	2195.24	1780.52	1368.03	962.41	604.53	326.36	223.34
112.5	2653.02	2567.32	2245.63	1810.71	1394.22	995.72	645.83	355.22	231.56
135.0	2643.47	2615.94	2282.49	1830.03	1447.28	1074.31	741.29	432.92	251.32
157.5	2628.82	2641.70	2303.35	1879.54	1497.46	1157.12	837.87	531.94	279.96
180.0	2620.16	2641.03	2317.34	1883.76	1535.20	1233.49	918.23	581.89	293.05
202.5	2611.73	2660.12	2312.46	1892.86	1546.52	1229.05	897.81	568.79	298.16
225.0	2617.05	2641.25	2312.01	1890.19	1505.67	1165.11	837.87	513.51	275.74
247.5	2633.93	2633.48	2304.02	1858.67	1478.14	1109.16	724.86	426.26	242.88
270.0	2657.68	2506.27	2111.32	1673.51	1269.45	798.57	456.68	265.75	176.72
292.5	2653.02	2448.99	2036.28	1616.23	1217.50	782.59	449.13	260.86	160.74
315.0	2643.47	2389.49	1986.32	1583.60	1196.41	822.55	479.99	267.74	156.74
337.5	2628.82	2331.55	1948.14	1579.60	1206.62	882.27	523.72	274.18	150.30
360.0	2620.16	2313.57	1918.39	1571.17	1232.82	905.36	521.50	272.41	151.86
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	96.57	61.94	45.73	34.19	22.20	11.55	8.21	4.22	0.44
22.5	96.35	61.94	46.40	34.19	22.87	11.77	8.44	4.44	0.44
45.0	95.24	61.72	47.29	34.63	23.31	11.99	8.66	4.66	0.44
67.5	96.35	62.16	47.51	36.19	24.64	12.43	9.32	5.11	1.33
90.0	146.75	88.58	59.72	45.73	33.52	21.98	12.43	8.88	4.44
112.5	158.52	92.36	60.83	47.73	35.08	23.53	12.66	8.88	4.66
135.0	169.17	96.13	64.16	49.73	36.85	24.64	13.32	9.32	5.11
157.5	173.83	99.24	67.49	51.51	37.52	25.98	13.32	9.77	5.55
180.0	178.94	101.46	67.49	52.39	38.41	26.20	13.32	9.77	5.77
202.5	173.83	99.24	66.83	51.28	37.08	25.75	13.32	9.32	5.33
225.0	162.73	96.13	63.94	49.29	35.74	24.42	12.21	8.88	5.11
247.5	151.41	92.13	61.28	46.40	34.41	22.42	11.32	8.21	4.22
270.0	102.35	64.83	50.17	37.52	26.64	13.10	9.99	5.55	1.78
292.5	97.24	62.16	48.18	35.74	24.42	11.77	8.66	4.88	0.89
315.0	95.24	62.16	47.07	35.30	23.09	11.55	8.21	4.44	0.44
337.5	96.35	62.39	46.40	34.41	22.87	11.10	7.99	4.22	0.00
360.0	96.57	61.94	45.73	34.19	22.20	11.55	8.21	4.22	0.44
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	0.22	0.00	0.22
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.67	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	0.22	0.00	0.44	0.44	0.22	0.22	0.67	0.44
292.5	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	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	0.22	0.00	0.22

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	0.44	0.44	0.44	0.89	1.11	1.33	1.55	1.55	1.55
22.5	0.22	0.44	0.44	0.89	1.11	1.55	1.55	1.78	1.55
45.0	0.22	0.44	0.67	0.67	1.11	1.33	1.55	1.33	1.55
67.5	0.22	0.44	0.67	0.67	1.11	1.33	1.55	1.55	1.78
90.0	0.22	0.22	0.44	0.67	0.67	1.33	1.55	1.55	1.55
112.5	0.00	0.00	0.22	0.44	0.67	1.11	1.33	1.55	1.55
135.0	0.00	0.00	0.00	0.44	0.67	0.89	1.11	1.33	1.33
157.5	0.00	0.00	0.22	0.00	0.67	1.11	0.89	1.33	1.33
180.0	0.00	0.00	0.00	0.44	0.67	1.11	1.11	1.55	1.33
202.5	0.00	0.00	0.22	0.44	0.67	0.89	1.33	1.11	1.33
225.0	0.00	0.00	0.22	0.44	0.67	0.67	1.11	1.33	1.55
247.5	0.00	0.00	0.00	0.44	0.67	0.89	1.11	1.55	1.78
270.0	0.67	0.89	0.67	1.33	1.55	1.78	2.00	2.22	2.22
292.5	0.22	0.44	0.67	0.89	1.11	1.55	1.55	1.78	2.00
315.0	0.00	0.44	0.67	0.89	1.11	1.33	1.55	1.55	1.78
337.5	0.00	0.44	0.89	0.89	1.11	1.33	1.55	1.33	1.55
360.0	0.44	0.44	0.44	0.89	1.11	1.33	1.55	1.55	1.55

C/γ(°)	180.0
0.0	1.33
22.5	1.55
45.0	1.55
67.5	1.33
90.0	2.00
112.5	1.55
135.0	1.78
157.5	1.78
180.0	1.33
202.5	1.55
225.0	1.55
247.5	1.33
270.0	2.00
292.5	1.55
315.0	1.78
337.5	1.78
360.0	1.33