



Shenzhen Belling Efficiency Testing Lab Co.,Ltd  
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Client:

LumCAT:LRG6-HO-5CCT(3000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.1450

Lamp flux(lm): -1.0

Power (W): 17.23

Number of Lamps: 1

PF: 0.9899

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1479.14, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 85.84

Central intensity(cd): 2374.787, Maximum intensity(cd): 2494.023

Angle of maximum intensity: C=112.5  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=40.3

[C90/270]Total=38.7

Field angle(10%Imax): [C0/180]Total=76.5

[C90/270]Total=75.4

Maximum s/h(1/2): C0\_180=0.70 C90\_270=0.67

Maximum s/h(1/4): C0\_180=0.77 C90\_270=0.74

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.09%

Down flux rate of LUM(%): 99.91%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.890%

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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	2408.111	0.000	0	0.00%	0.00%
5.0	2262.897	55.841	55.841	0.00%	3.78%
10.0	1930.703	150.018	205.859	0.00%	13.92%
15.0	1550.546	206.505	412.364	0.00%	27.88%
20.0	1213.331	227.782	640.146	0.00%	43.28%
25.0	907.920	222.480	862.627	0.00%	58.32%
30.0	601.321	190.996	1053.622	0.00%	71.23%
35.0	354.722	140.784	1194.406	0.00%	80.75%
40.0	205.175	93.415	1287.821	0.00%	87.07%
45.0	111.956	58.719	1346.54	0.00%	91.04%
50.0	72.263	37.224	1383.764	0.00%	93.55%
55.0	54.359	27.532	1411.296	0.00%	95.41%
60.0	40.128	21.841	1433.137	0.00%	96.89%
65.0	29.452	16.915	1450.052	0.00%	98.03%
70.0	17.455	11.877	1461.929	0.00%	98.84%
75.0	11.363	7.533	1469.462	0.00%	99.35%
80.0	7.201	4.967	1474.429	0.00%	99.68%
85.0	2.748	2.704	1477.133	0.00%	99.86%
90.0	0.000	0.753	1477.885	0.00%	99.91%
95.0	0.013	0.004	1477.889	0.00%	99.92%
100.0	0.013	0.007	1477.896	0.00%	99.92%
105.0	0.013	0.007	1477.903	0.00%	99.92%
110.0	0.013	0.007	1477.91	0.00%	99.92%
115.0	0.026	0.010	1477.92	0.00%	99.92%
120.0	0.026	0.013	1477.933	0.00%	99.92%
125.0	0.040	0.015	1477.948	0.00%	99.92%
130.0	0.053	0.020	1477.968	0.00%	99.92%
135.0	0.132	0.037	1478.005	0.00%	99.92%
140.0	0.211	0.064	1478.069	0.00%	99.93%
145.0	0.357	0.095	1478.164	0.00%	99.93%
150.0	0.595	0.140	1478.304	0.00%	99.94%
155.0	0.819	0.179	1478.483	0.00%	99.96%
160.0	1.044	0.195	1478.678	0.00%	99.97%
165.0	1.163	0.182	1478.86	0.00%	99.98%
170.0	1.348	0.149	1479.009	0.00%	99.99%
175.0	1.453	0.100	1479.109	0.00%	100.00%
180.0	1.506	0.035	1479.144	0.00%	100.00%

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

Date:  
Humidity(%): 58%

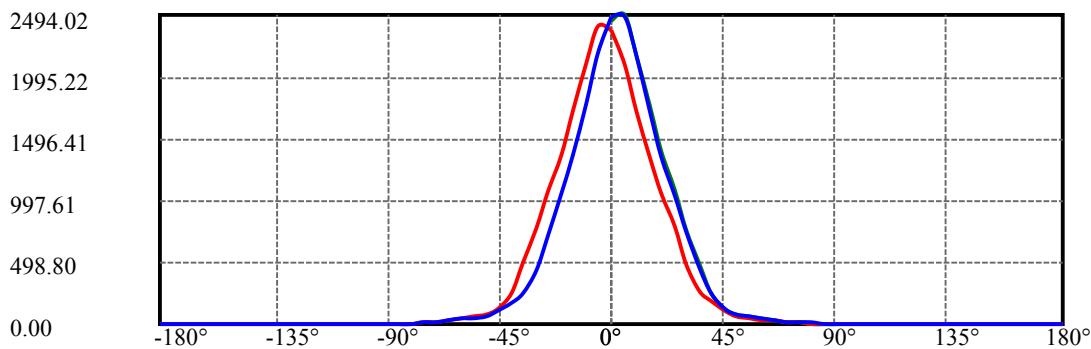
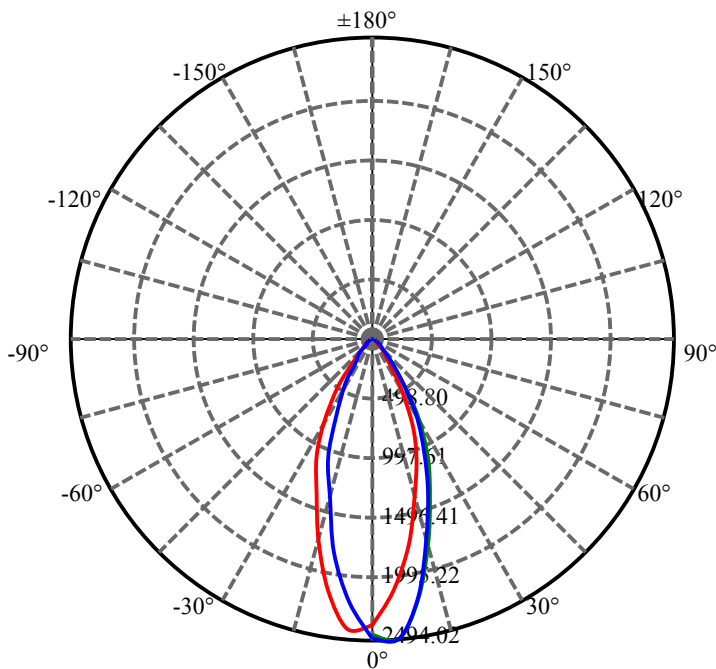
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1053.62	N.A.	71.23%
0-40	1287.82	N.A.	87.07%
0-60	1433.14	N.A.	96.89%
0-90	1477.89	N.A.	99.91%
0-120	1477.93	N.A.	99.92%
0-180	1479.14	N.A.	100.00%
60-90	44.75	N.A.	3.03%
90-120	0.05	N.A.	0.00%
90-130	0.08	N.A.	0.01%
90-150	0.42	N.A.	0.03%
90-180	1.22	N.A.	0.08%
0-34.61	1183.32	N.A.	80.00%

ZONAL LUMEN SUMMARY

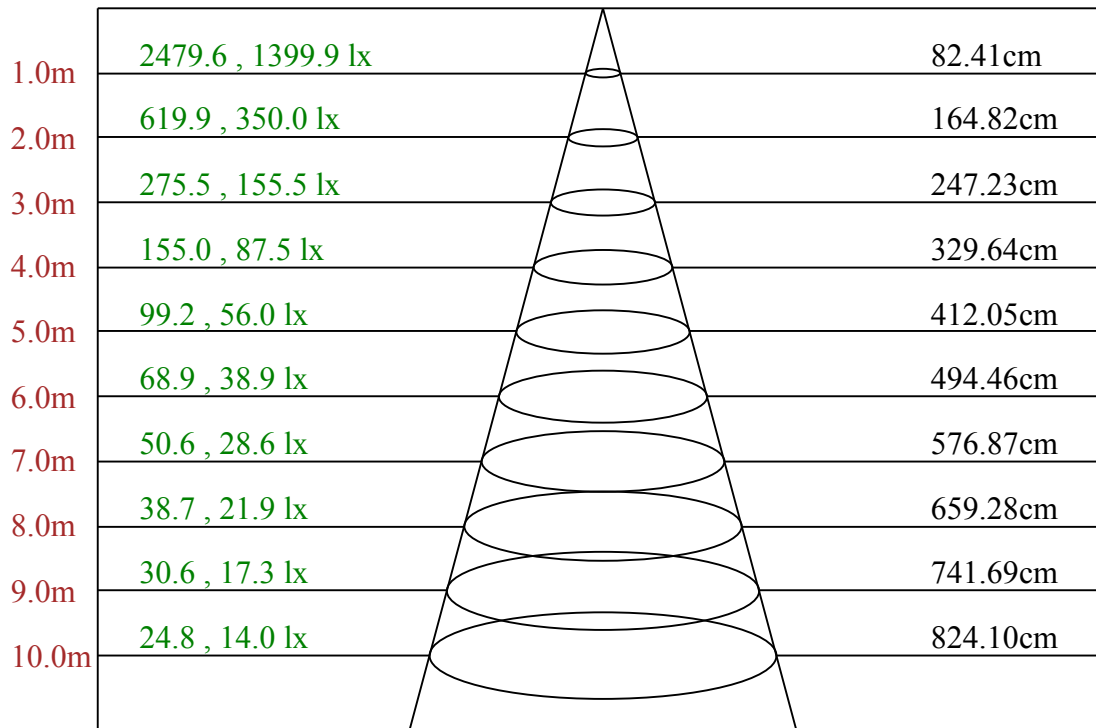
0-10	205.86
10-20	434.29
20-30	413.48
30-40	234.20
40-50	95.94
50-60	49.37
60-70	28.79
70-80	12.50
80-90	3.46
90-100	0.01
100-110	0.01
110-120	0.02
120-130	0.04
130-140	0.10
140-150	0.23
150-160	0.37
160-170	0.33
170-180	0.10



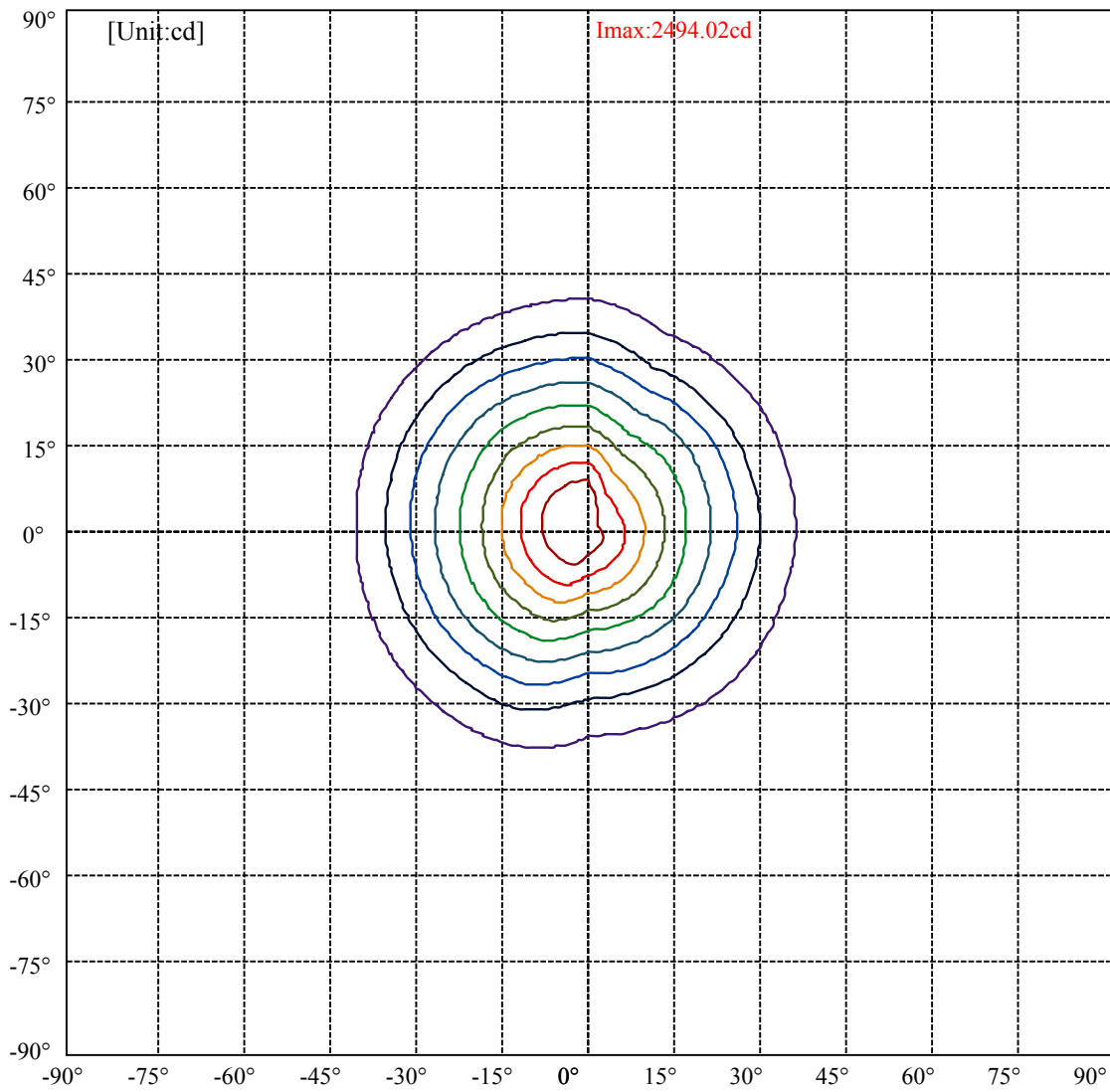
C112.5(Max): ———  
 C0/C180: ———  
 C90/C270: ———

Field angle(10%Imax):C0/180Left:40.2 Right:36.3  
 :C90/270Left:35.2 Right:40.2

Beam Angle(50%Imax):C0/180Left:22.8 Right:17.5  
 :C90/270Left:17.0 Right:21.7



Max , Ave      Beam angle of C112.5 plane 44.79



(10%Imax) 248.58	—
(20%Imax) 497.16	—
(30%Imax) 745.74	—
(40%Imax) 994.319	—
(50%Imax) 1242.9	—
(60%Imax) 1491.48	—
(70%Imax) 1740.06	—
(80%Imax) 1988.64	—
(90%Imax) 2237.22	—

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2374.79	2087.48	1722.16	1350.50	1053.89	784.97	475.68	261.73	178.85
22.5	2356.82	2064.22	1726.81	1387.28	1088.77	808.86	475.89	264.27	173.36
45.0	2350.90	2076.91	1747.95	1420.05	1131.69	837.82	493.65	269.55	165.32
67.5	2394.03	2155.13	1813.49	1460.01	1127.67	835.92	508.66	283.71	156.23
90.0	2479.65	2485.78	2161.68	1723.22	1349.44	1033.59	736.77	454.32	253.27
112.5	2450.90	2494.02	2169.72	1764.44	1397.01	1080.53	753.68	475.47	245.45
135.0	2447.09	2464.43	2170.77	1783.26	1425.76	1097.86	812.24	489.84	250.52
157.5	2410.73	2429.54	2147.52	1772.48	1388.13	1097.65	819.01	503.58	257.50
180.0	2374.79	2402.90	2112.21	1725.33	1365.72	1075.45	780.95	490.48	246.08
202.5	2356.82	2373.94	2090.65	1695.10	1350.92	1050.93	740.15	435.30	227.90
225.0	2350.90	2336.94	2032.93	1647.11	1306.74	1003.36	680.96	381.39	213.31
247.5	2394.03	2319.19	1998.47	1610.53	1254.31	937.82	636.77	370.39	214.79
270.0	2479.65	2180.08	1784.95	1370.58	1046.07	712.03	430.43	251.37	175.47
292.5	2450.90	2128.07	1756.83	1363.61	1033.38	720.91	411.83	247.35	173.99
315.0	2447.09	2100.16	1741.61	1379.88	1041.20	716.90	415.42	247.99	175.47
337.5	2410.73	2107.56	1713.49	1355.36	1052.62	732.12	449.04	248.83	175.26
360.0	2374.79	2087.48	1722.16	1350.50	1053.89	784.97	475.68	261.73	178.85
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	102.32	67.23	52.22	38.69	28.33	16.07	11.63	6.98	2.11
22.5	100.42	66.17	51.16	37.63	27.70	15.22	11.21	6.55	2.11
45.0	98.94	64.27	49.26	36.15	26.22	14.38	10.36	5.92	2.11
67.5	95.56	62.37	47.57	35.09	24.95	13.32	9.73	5.29	1.48
90.0	124.52	78.43	57.93	43.13	31.92	20.51	11.84	8.03	3.59
112.5	120.29	73.99	56.45	41.65	30.87	19.45	11.21	7.61	3.17
135.0	117.76	73.57	55.81	40.59	30.44	18.60	10.78	7.40	3.38
157.5	118.39	73.78	56.02	40.80	30.02	19.03	10.99	7.40	2.75
180.0	118.39	74.42	56.87	41.01	29.81	19.03	10.99	7.40	2.75
202.5	120.51	79.07	57.29	41.65	31.08	19.45	11.21	7.40	3.17
225.0	127.06	84.14	58.56	43.34	32.14	20.30	12.05	8.03	3.59
247.5	134.25	87.10	60.04	44.40	33.19	21.14	12.69	8.67	4.02
270.0	101.90	67.86	52.01	39.32	28.12	15.43	11.42	7.19	2.54
292.5	103.17	67.44	52.43	39.53	28.75	15.64	11.84	6.98	2.33
315.0	103.59	68.29	53.28	39.75	28.96	15.64	11.84	7.19	2.11
337.5	104.23	68.08	52.85	39.32	28.75	16.07	12.05	7.19	2.75
360.0	102.32	67.23	52.22	38.69	28.33	16.07	11.63	6.98	2.11
C/ $\gamma$ (°)	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	0.21	0.21
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	0.00	0.21	0.21	0.21	0.21	0.42	0.42	0.21	0.42
292.5	0.00	0.00	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	0.21	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
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	0.21	0.21	0.42	0.63	0.85	1.06	1.27	1.48	1.48
22.5	0.21	0.21	0.63	0.85	0.85	1.06	1.48	1.27	1.48
45.0	0.21	0.21	0.63	0.85	0.85	1.06	1.06	1.27	1.48
67.5	0.21	0.63	0.42	0.63	0.85	1.06	1.06	1.27	1.69
90.0	0.00	0.00	0.21	0.63	0.63	1.06	1.27	1.48	1.48
112.5	0.00	0.00	0.21	0.42	0.63	1.06	0.85	1.48	1.27
135.0	0.00	0.00	0.42	0.21	0.42	0.85	0.85	1.06	1.48
157.5	0.00	0.00	0.00	0.21	0.63	0.85	1.06	1.27	1.27
180.0	0.00	0.00	0.00	0.42	0.63	0.85	1.06	1.06	1.27
202.5	0.00	0.00	0.21	0.42	0.63	0.63	0.85	1.06	1.27
225.0	0.00	0.00	0.21	0.42	0.42	1.06	1.06	1.27	1.27
247.5	0.00	0.00	0.00	0.21	0.63	0.85	1.06	1.27	1.27
270.0	0.63	0.85	1.06	1.27	1.69	1.69	1.90	1.90	2.11
292.5	0.21	0.42	0.42	0.63	1.06	1.27	1.27	1.48	1.48
315.0	0.21	0.42	0.42	0.85	1.27	1.27	1.27	1.48	1.48
337.5	0.21	0.42	0.42	0.85	1.06	1.06	1.27	1.48	1.48
360.0	0.21	0.21	0.42	0.63	0.85	1.06	1.27	1.48	1.48

C/γ(°)	180.0
0.0	1.48
22.5	1.69
45.0	1.48
67.5	1.27
90.0	2.11
112.5	1.27
135.0	1.27
157.5	1.48
180.0	1.48
202.5	1.69
225.0	1.48
247.5	1.27
270.0	2.11
292.5	1.27
315.0	1.27
337.5	1.48
360.0	1.48