



Shenzhen Belling Efficiency Testing Lab Co.,Ltd  
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Client:

LumCAT:LRG6-HO-5CCT(2700K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.1460

Lamp flux(lm): -1.0

Power (W): 17.38

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): 1440.72, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 82.90

Central intensity(cd): 2343.677, Maximum intensity(cd): 2429.268

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=0.69

Maximum s/h(1/4): C0\_180=0.76 C90\_270=0.75

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	2343.677	0.000	0	0.00%	0.00%
5.0	2204.143	54.368	54.368	0.00%	3.77%
10.0	1880.575	146.123	200.491	0.00%	13.92%
15.0	1510.287	201.144	401.635	0.00%	27.88%
20.0	1181.828	221.868	623.503	0.00%	43.28%
25.0	884.347	216.704	840.206	0.00%	58.32%
30.0	585.708	186.037	1026.243	0.00%	71.23%
35.0	345.512	137.129	1163.372	0.00%	80.75%
40.0	199.848	90.989	1254.361	0.00%	87.07%
45.0	109.049	57.195	1311.556	0.00%	91.03%
50.0	70.387	36.258	1347.813	0.00%	93.55%
55.0	52.948	26.817	1374.63	0.00%	95.41%
60.0	39.087	21.274	1395.904	0.00%	96.89%
65.0	28.688	16.476	1412.38	0.00%	98.03%
70.0	17.001	11.569	1423.949	0.00%	98.84%
75.0	11.068	7.337	1431.286	0.00%	99.35%
80.0	7.014	4.838	1436.124	0.00%	99.68%
85.0	2.677	2.633	1438.757	0.00%	99.86%
90.0	0.000	0.733	1439.49	0.00%	99.91%
95.0	0.013	0.004	1439.494	0.00%	99.92%
100.0	0.013	0.007	1439.501	0.00%	99.92%
105.0	0.013	0.007	1439.508	0.00%	99.92%
110.0	0.013	0.007	1439.515	0.00%	99.92%
115.0	0.026	0.010	1439.524	0.00%	99.92%
120.0	0.026	0.013	1439.537	0.00%	99.92%
125.0	0.039	0.015	1439.552	0.00%	99.92%
130.0	0.052	0.020	1439.571	0.00%	99.92%
135.0	0.129	0.036	1439.608	0.00%	99.92%
140.0	0.206	0.062	1439.67	0.00%	99.93%
145.0	0.348	0.092	1439.762	0.00%	99.93%
150.0	0.579	0.137	1439.899	0.00%	99.94%
155.0	0.798	0.174	1440.073	0.00%	99.96%
160.0	1.017	0.190	1440.263	0.00%	99.97%
165.0	1.133	0.177	1440.44	0.00%	99.98%
170.0	1.313	0.145	1440.586	0.00%	99.99%
175.0	1.416	0.098	1440.683	0.00%	100.00%
180.0	1.466	0.034	1440.718	0.00%	100.00%

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

Date:  
Humidity(%): 58%

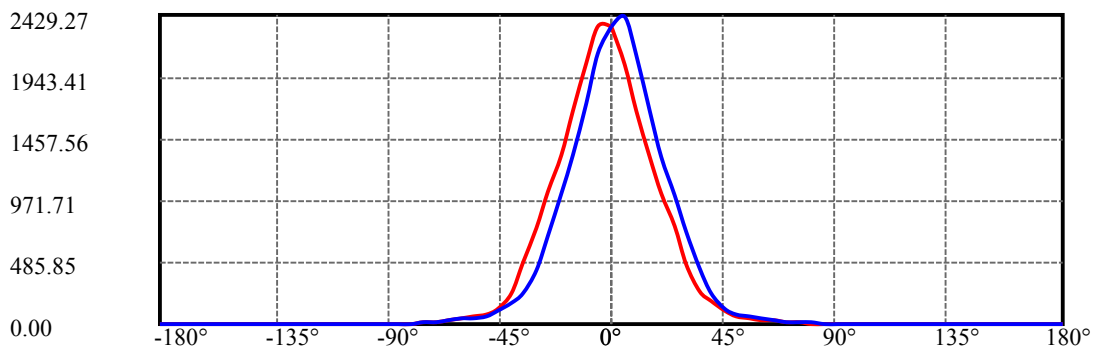
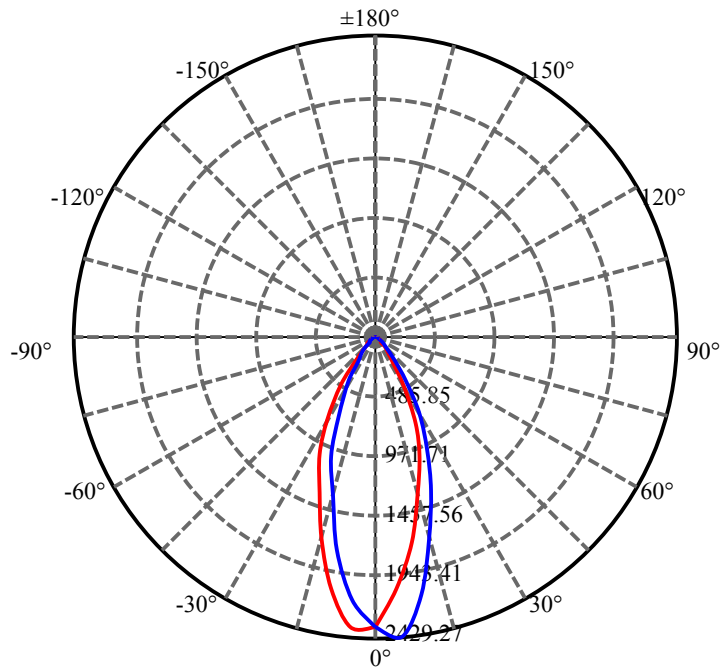
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1026.24	N.A.	71.23%
0-40	1254.36	N.A.	87.07%
0-60	1395.90	N.A.	96.89%
0-90	1439.49	N.A.	99.91%
0-120	1439.54	N.A.	99.92%
0-180	1440.72	N.A.	100.00%
60-90	43.59	N.A.	3.03%
90-120	0.05	N.A.	0.00%
90-130	0.08	N.A.	0.01%
90-150	0.41	N.A.	0.03%
90-180	1.19	N.A.	0.08%
0-34.61	1152.57	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	200.49
10-20	423.01
20-30	402.74
30-40	228.12
40-50	93.45
50-60	48.09
60-70	28.04
70-80	12.18
80-90	3.37
90-100	0.01
100-110	0.01
110-120	0.02
120-130	0.03
130-140	0.10
140-150	0.23
150-160	0.36
160-170	0.32
170-180	0.10

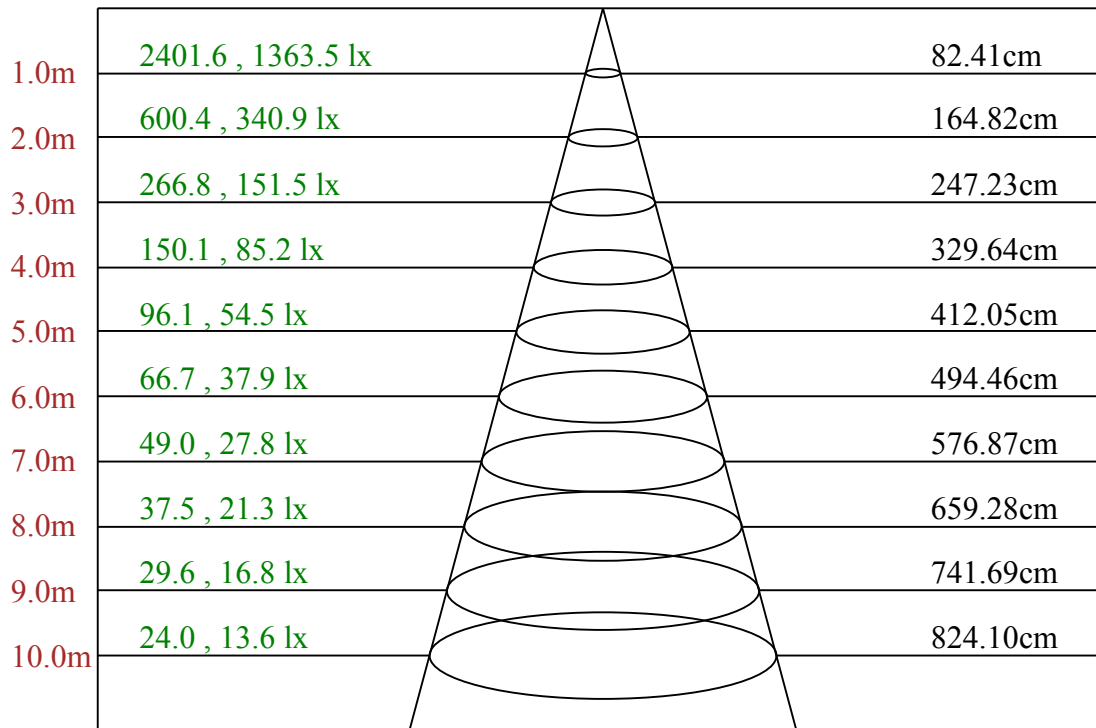


C0/C180: —

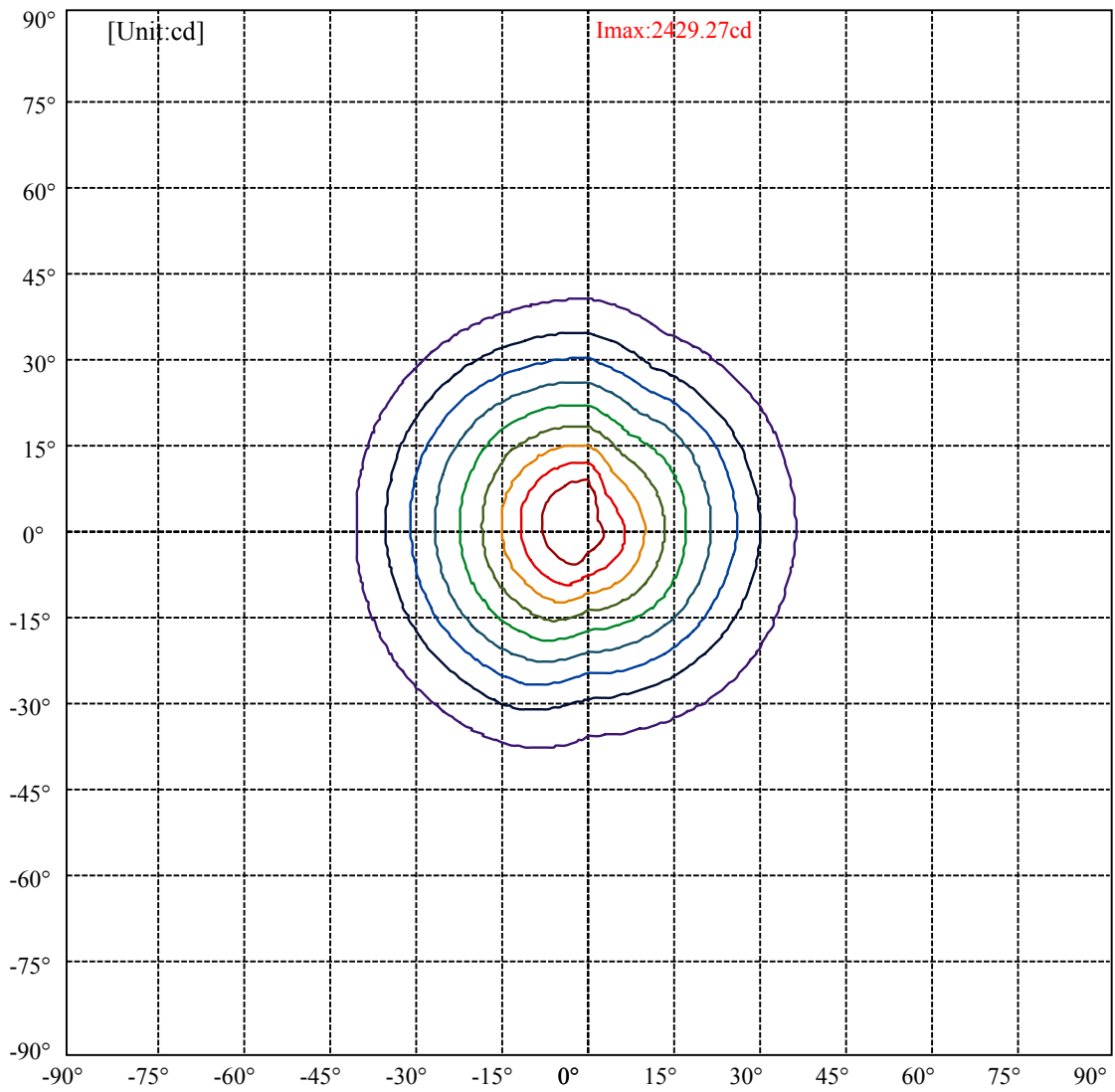
C90/C270: —

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) 242.124	—
(20%Imax) 484.247	—
(30%Imax) 726.371	—
(40%Imax) 968.495	—
(50%Imax) 1210.62	—
(60%Imax) 1452.74	—
(70%Imax) 1694.87	—
(80%Imax) 1936.99	—
(90%Imax) 2179.11	—

## 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	2343.68	2033.28	1677.45	1315.43	1026.52	764.59	463.33	254.93	174.21
22.5	2343.68	2010.63	1681.98	1351.26	1060.50	787.86	463.53	257.40	168.86
45.0	2343.68	2022.98	1702.57	1383.18	1102.30	816.07	480.83	262.55	161.03
67.5	2343.68	2099.17	1766.40	1422.10	1098.39	814.22	495.45	276.35	152.18
90.0	2343.68	2421.24	2105.56	1678.47	1314.40	1006.76	717.64	442.53	246.70
112.5	2343.68	2429.27	2113.38	1718.63	1360.74	1052.47	734.11	463.12	239.08
135.0	2343.68	2400.44	2114.41	1736.96	1388.74	1069.36	791.15	477.12	244.02
157.5	2343.68	2366.46	2091.76	1726.45	1352.09	1069.15	797.74	490.51	250.81
180.0	2343.68	2340.52	2057.37	1680.53	1330.26	1047.53	760.68	477.74	239.69
202.5	2343.68	2312.30	2036.37	1651.09	1315.85	1023.64	720.94	423.99	221.98
225.0	2343.68	2276.27	1980.15	1604.34	1272.81	977.31	663.28	371.48	207.78
247.5	2343.68	2258.97	1946.59	1568.72	1221.74	913.47	620.24	360.78	209.22
270.0	2343.68	2123.47	1738.60	1335.00	1018.91	693.55	419.26	244.84	170.92
292.5	2343.68	2072.82	1711.22	1328.20	1006.55	702.20	401.14	240.93	169.47
315.0	2343.68	2045.63	1696.39	1344.06	1014.17	698.28	404.64	241.55	170.92
337.5	2343.68	2052.84	1669.00	1320.17	1025.29	713.11	437.38	242.37	170.71
360.0	2343.68	2033.28	1677.45	1315.43	1026.52	764.59	463.33	254.93	174.21
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	99.67	65.48	50.86	37.68	27.59	15.65	11.33	6.80	2.06
22.5	97.81	64.45	49.83	36.65	26.98	14.83	10.91	6.38	2.06
45.0	96.37	62.60	47.98	35.21	25.53	14.00	10.09	5.77	2.06
67.5	93.08	60.75	46.33	34.18	24.30	12.97	9.47	5.15	1.44
90.0	121.29	76.40	56.42	42.01	31.09	19.97	11.53	7.83	3.50
112.5	117.17	72.07	54.98	40.57	30.07	18.95	10.91	7.41	3.09
135.0	114.70	71.66	54.36	39.54	29.65	18.12	10.50	7.21	3.30
157.5	115.32	71.87	54.57	39.74	29.24	18.53	10.71	7.21	2.68
180.0	115.32	72.49	55.39	39.95	29.04	18.53	10.71	7.21	2.68
202.5	117.38	77.02	55.81	40.57	30.27	18.95	10.91	7.21	3.09
225.0	123.76	81.96	57.04	42.21	31.30	19.77	11.74	7.83	3.50
247.5	130.76	84.84	58.48	43.24	32.33	20.59	12.36	8.44	3.91
270.0	99.26	66.10	50.66	38.30	27.39	15.03	11.12	7.00	2.47
292.5	100.49	65.69	51.07	38.51	28.01	15.24	11.53	6.80	2.27
315.0	100.90	66.51	51.89	38.71	28.21	15.24	11.53	7.00	2.06
337.5	101.52	66.31	51.48	38.30	28.01	15.65	11.74	7.00	2.68
360.0	99.67	65.48	50.86	37.68	27.59	15.65	11.33	6.80	2.06
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	0.41	0.41	0.21	0.41
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	0.41	0.62	0.82	1.03	1.24	1.44	1.44
22.5	0.21	0.21	0.62	0.82	0.82	1.03	1.44	1.24	1.44
45.0	0.21	0.21	0.62	0.82	0.82	1.03	1.03	1.24	1.44
67.5	0.21	0.62	0.41	0.62	0.82	1.03	1.03	1.24	1.65
90.0	0.00	0.00	0.21	0.62	0.62	1.03	1.24	1.44	1.44
112.5	0.00	0.00	0.21	0.41	0.62	1.03	0.82	1.44	1.24
135.0	0.00	0.00	0.41	0.21	0.41	0.82	0.82	1.03	1.44
157.5	0.00	0.00	0.00	0.21	0.62	0.82	1.03	1.24	1.24
180.0	0.00	0.00	0.00	0.41	0.62	0.82	1.03	1.03	1.24
202.5	0.00	0.00	0.21	0.41	0.62	0.62	0.82	1.03	1.24
225.0	0.00	0.00	0.21	0.41	0.41	1.03	1.03	1.24	1.24
247.5	0.00	0.00	0.00	0.21	0.62	0.82	1.03	1.24	1.24
270.0	0.62	0.82	1.03	1.24	1.65	1.65	1.85	1.85	2.06
292.5	0.21	0.41	0.41	0.62	1.03	1.24	1.24	1.44	1.44
315.0	0.21	0.41	0.41	0.82	1.24	1.24	1.24	1.44	1.44
337.5	0.21	0.41	0.41	0.82	1.03	1.03	1.24	1.44	1.44
360.0	0.21	0.21	0.41	0.62	0.82	1.03	1.24	1.44	1.44
C/γ(°)	180.0								
0.0	1.47								
22.5	1.47								
45.0	1.47								
67.5	1.47								
90.0	1.47								
112.5	1.47								
135.0	1.47								
157.5	1.47								
180.0	1.47								
202.5	1.47								
225.0	1.47								
247.5	1.47								
270.0	1.47								
292.5	1.47								
315.0	1.47								
337.5	1.47								
360.0	1.47								