



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:

LumCAT:LRG6-HO-5CCT(5000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.01

LampCAT:

Current(A): 0.1500

Lamp flux(lm): -1.0

Power (W): 17.83

Number of Lamps: 1

PF: 0.9894

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1612.22, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 90.40

Central intensity(cd): 2588.447, Maximum intensity(cd): 2718.411

Angle of maximum intensity: C=112.5 γ =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 π solid angle : 96.890%

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

Date:
Humidity(%): 58%

Operator: Jasper

Zonal flux distribution table

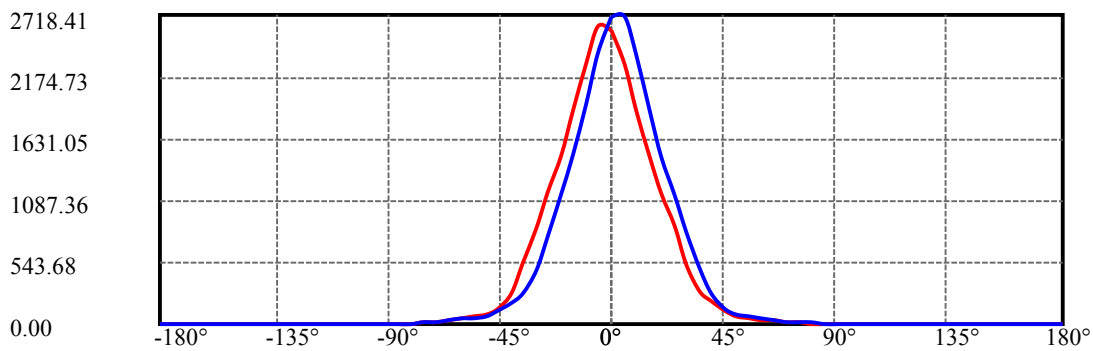
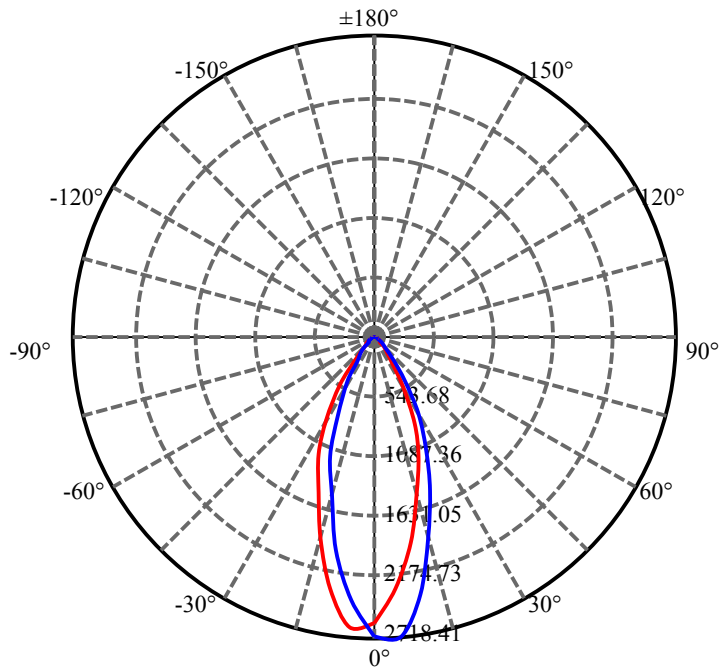
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2624.769	0.000	0	0.00%	0.00%
5.0	2466.491	60.865	60.865	0.00%	3.78%
10.0	2104.410	163.515	224.38	0.00%	13.92%
15.0	1690.049	225.085	449.465	0.00%	27.88%
20.0	1322.495	248.276	697.741	0.00%	43.28%
25.0	989.606	242.497	940.237	0.00%	58.32%
30.0	655.422	208.180	1148.417	0.00%	71.23%
35.0	386.637	153.450	1301.867	0.00%	80.75%
40.0	223.635	101.819	1403.687	0.00%	87.07%
45.0	122.028	64.002	1467.689	0.00%	91.04%
50.0	78.765	40.573	1508.262	0.00%	93.55%
55.0	59.250	30.009	1538.271	0.00%	95.41%
60.0	43.739	23.806	1562.077	0.00%	96.89%
65.0	32.102	18.437	1580.514	0.00%	98.03%
70.0	19.025	12.946	1593.459	0.00%	98.84%
75.0	12.386	8.210	1601.67	0.00%	99.35%
80.0	7.849	5.414	1607.084	0.00%	99.68%
85.0	2.996	2.947	1610.031	0.00%	99.86%
90.0	0.000	0.820	1610.851	0.00%	99.91%
95.0	0.014	0.004	1610.855	0.00%	99.92%
100.0	0.014	0.008	1610.863	0.00%	99.92%
105.0	0.014	0.008	1610.87	0.00%	99.92%
110.0	0.014	0.008	1610.878	0.00%	99.92%
115.0	0.029	0.011	1610.889	0.00%	99.92%
120.0	0.029	0.014	1610.903	0.00%	99.92%
125.0	0.043	0.017	1610.919	0.00%	99.92%
130.0	0.058	0.022	1610.941	0.00%	99.92%
135.0	0.144	0.041	1610.982	0.00%	99.92%
140.0	0.230	0.069	1611.051	0.00%	99.93%
145.0	0.389	0.103	1611.155	0.00%	99.93%
150.0	0.648	0.153	1611.307	0.00%	99.94%
155.0	0.893	0.195	1611.502	0.00%	99.96%
160.0	1.138	0.213	1611.715	0.00%	99.97%
165.0	1.268	0.198	1611.913	0.00%	99.98%
170.0	1.469	0.162	1612.076	0.00%	99.99%
175.0	1.584	0.109	1612.185	0.00%	100.00%
180.0	1.642	0.039	1612.224	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1148.42	N.A.	71.23%
0-40	1403.69	N.A.	87.07%
0-60	1562.08	N.A.	96.89%
0-90	1610.85	N.A.	99.91%
0-120	1610.90	N.A.	99.92%
0-180	1612.22	N.A.	100.00%
60-90	48.77	N.A.	3.03%
90-120	0.05	N.A.	0.00%
90-130	0.09	N.A.	0.01%
90-150	0.46	N.A.	0.03%
90-180	1.33	N.A.	0.08%
0-34.61	1289.78	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	224.38
10-20	473.36
20-30	450.68
30-40	255.27
40-50	104.58
50-60	53.81
60-70	31.38
70-80	13.62
80-90	3.77
90-100	0.01
100-110	0.02
110-120	0.02
120-130	0.04
130-140	0.11
140-150	0.26
150-160	0.41
160-170	0.36
170-180	0.11

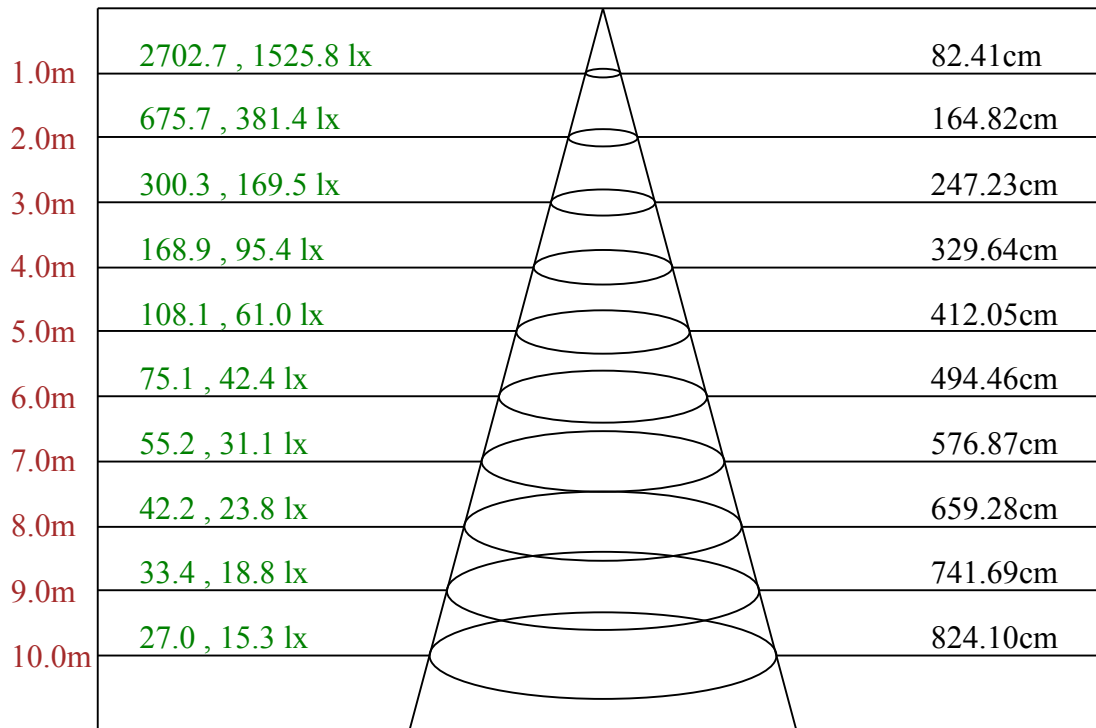


C0/C180: —

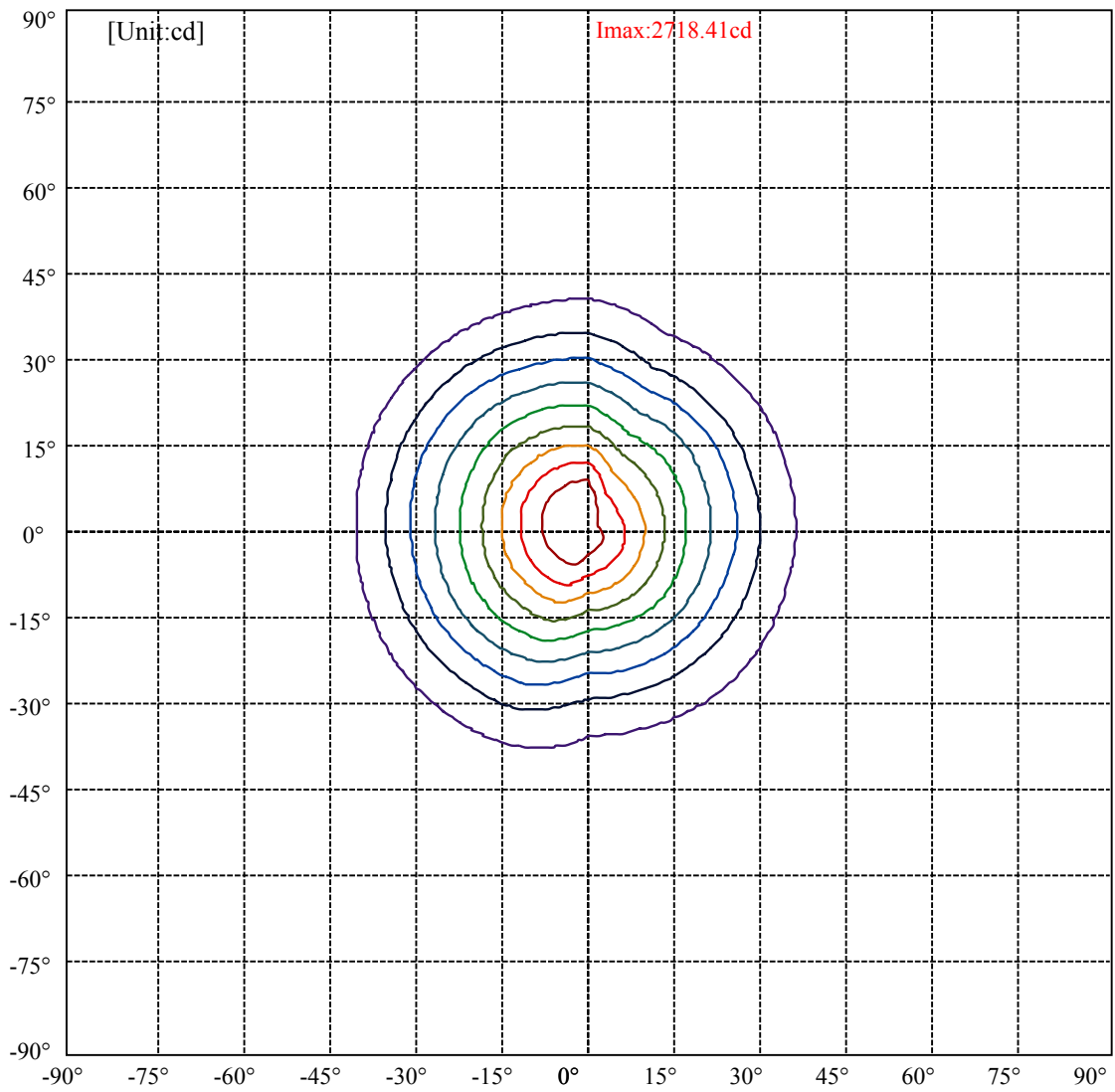
C90/C270: —

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%I _{max}) 270.945	—
(20%I _{max}) 541.889	—
(30%I _{max}) 812.834	—
(40%I _{max}) 1083.78	—
(50%I _{max}) 1354.72	—
(60%I _{max}) 1625.67	—
(70%I _{max}) 1896.61	—
(80%I _{max}) 2167.56	—
(90%I _{max}) 2438.5	—

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	2588.45	2275.29	1877.10	1472.00	1148.71	855.60	518.47	285.28	194.95
22.5	2568.86	2249.94	1882.17	1512.10	1186.73	881.63	518.70	288.04	188.96
45.0	2562.41	2263.77	1905.22	1547.81	1233.51	913.20	538.06	293.80	180.20
67.5	2609.42	2349.03	1976.65	1591.37	1229.13	911.13	554.42	309.24	170.29
90.0	2702.74	2709.42	2356.17	1878.26	1470.85	1126.58	803.06	495.20	276.06
112.5	2671.40	2718.41	2364.93	1923.19	1522.70	1177.74	821.49	518.24	267.53
135.0	2667.26	2686.15	2366.08	1943.70	1554.04	1196.64	885.32	533.91	273.06
157.5	2627.62	2648.13	2340.73	1931.95	1513.02	1196.41	892.70	548.89	280.67
180.0	2588.45	2619.10	2302.25	1880.56	1488.59	1172.21	851.22	534.60	268.22
202.5	2568.86	2587.53	2278.75	1847.61	1472.46	1145.48	806.74	474.46	248.41
225.0	2562.41	2547.20	2215.84	1795.30	1424.30	1093.63	742.22	415.70	232.51
247.5	2609.42	2527.84	2178.28	1755.43	1367.16	1022.20	694.06	403.72	234.12
270.0	2702.74	2376.22	1945.54	1493.89	1140.18	776.10	469.16	273.98	191.26
292.5	2671.40	2319.53	1914.89	1486.29	1126.35	785.78	448.88	269.61	189.65
315.0	2667.26	2289.12	1898.30	1504.03	1134.88	781.40	452.80	270.30	191.26
337.5	2627.62	2297.18	1867.66	1477.30	1147.32	797.99	489.44	271.22	191.03
360.0	2588.45	2275.29	1877.10	1472.00	1148.71	855.60	518.47	285.28	194.95
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	111.53	73.28	56.92	42.17	30.88	17.51	12.67	7.60	2.30
22.5	109.46	72.13	55.77	41.02	30.19	16.59	12.21	7.14	2.30
45.0	107.84	70.05	53.69	39.40	28.57	15.67	11.29	6.45	2.30
67.5	104.16	67.98	51.85	38.25	27.19	14.52	10.60	5.76	1.61
90.0	135.73	85.49	63.14	47.01	34.80	22.35	12.90	8.76	3.92
112.5	131.12	80.65	61.53	45.40	33.64	21.20	12.21	8.30	3.46
135.0	128.35	80.19	60.83	44.24	33.18	20.28	11.75	8.07	3.69
157.5	129.04	80.42	61.07	44.47	32.72	20.74	11.98	8.07	3.00
180.0	129.04	81.11	61.99	44.70	32.49	20.74	11.98	8.07	3.00
202.5	131.35	86.18	62.45	45.40	33.87	21.20	12.21	8.07	3.46
225.0	138.49	91.71	63.83	47.24	35.03	22.12	13.14	8.76	3.92
247.5	146.33	94.94	65.44	48.39	36.18	23.04	13.83	9.45	4.38
270.0	111.07	73.97	56.69	42.86	30.65	16.82	12.44	7.84	2.77
292.5	112.45	73.51	57.15	43.09	31.34	17.05	12.90	7.60	2.54
315.0	112.91	74.43	58.07	43.32	31.57	17.05	12.90	7.84	2.30
337.5	113.60	74.20	57.61	42.86	31.34	17.51	13.14	7.84	3.00
360.0	111.53	73.28	56.92	42.17	30.88	17.51	12.67	7.60	2.30
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	0.23	0.23
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	0.23	0.23	0.23	0.23	0.46	0.46	0.23	0.46
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	0.23	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
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	0.23	0.23	0.46	0.69	0.92	1.15	1.38	1.61	1.61
22.5	0.23	0.23	0.69	0.92	0.92	1.15	1.61	1.38	1.61
45.0	0.23	0.23	0.69	0.92	0.92	1.15	1.15	1.38	1.61
67.5	0.23	0.69	0.46	0.69	0.92	1.15	1.15	1.38	1.84
90.0	0.00	0.00	0.23	0.69	0.69	1.15	1.38	1.61	1.61
112.5	0.00	0.00	0.23	0.46	0.69	1.15	0.92	1.61	1.38
135.0	0.00	0.00	0.46	0.23	0.46	0.92	0.92	1.15	1.61
157.5	0.00	0.00	0.00	0.23	0.69	0.92	1.15	1.38	1.38
180.0	0.00	0.00	0.00	0.46	0.69	0.92	1.15	1.15	1.38
202.5	0.00	0.00	0.23	0.46	0.69	0.69	0.92	1.15	1.38
225.0	0.00	0.00	0.23	0.46	0.46	1.15	1.15	1.38	1.38
247.5	0.00	0.00	0.00	0.23	0.69	0.92	1.15	1.38	1.38
270.0	0.69	0.92	1.15	1.38	1.84	1.84	2.07	2.07	2.30
292.5	0.23	0.46	0.46	0.69	1.15	1.38	1.38	1.61	1.61
315.0	0.23	0.46	0.46	0.92	1.38	1.38	1.38	1.61	1.61
337.5	0.23	0.46	0.46	0.92	1.15	1.15	1.38	1.61	1.61
360.0	0.23	0.23	0.46	0.69	0.92	1.15	1.38	1.61	1.61

C/γ(°)	180.0
0.0	1.61
22.5	1.84
45.0	1.61
67.5	1.38
90.0	2.30
112.5	1.38
135.0	1.38
157.5	1.61
180.0	1.61
202.5	1.84
225.0	1.61
247.5	1.38
270.0	2.30
292.5	1.38
315.0	1.38
337.5	1.61
360.0	1.61