



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:LRG6-HO-5CCT(4000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.07

LampCAT:

Current(A): 0.1450

Lamp flux(lm): -1.0

Power (W): 17.21

Number of Lamps: 1

PF: 0.9893

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1601.62, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 93.05

Central intensity(cd): 2571.423, Maximum intensity(cd): 2700.533

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 : 96.889%

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	2607.507	0.000	0	0.00%	0.00%
5.0	2450.269	60.464	60.464	0.00%	3.78%
10.0	2090.569	162.440	222.904	0.00%	13.92%
15.0	1678.934	223.604	446.509	0.00%	27.88%
20.0	1313.797	246.643	693.152	0.00%	43.28%
25.0	983.098	240.902	934.054	0.00%	58.32%
30.0	651.111	206.811	1140.864	0.00%	71.23%
35.0	384.094	152.441	1293.305	0.00%	80.75%
40.0	222.164	101.150	1394.455	0.00%	87.07%
45.0	121.226	63.581	1458.036	0.00%	91.04%
50.0	78.247	40.306	1498.343	0.00%	93.55%
55.0	58.860	29.812	1528.154	0.00%	95.41%
60.0	43.451	23.649	1551.803	0.00%	96.89%
65.0	31.891	18.316	1570.119	0.00%	98.03%
70.0	18.900	12.861	1582.98	0.00%	98.84%
75.0	12.304	8.156	1591.136	0.00%	99.35%
80.0	7.797	5.379	1596.515	0.00%	99.68%
85.0	2.976	2.927	1599.442	0.00%	99.86%
90.0	0.000	0.815	1600.257	0.00%	99.91%
95.0	0.014	0.004	1600.261	0.00%	99.92%
100.0	0.014	0.008	1600.269	0.00%	99.92%
105.0	0.014	0.008	1600.276	0.00%	99.92%
110.0	0.014	0.007	1600.284	0.00%	99.92%
115.0	0.029	0.011	1600.295	0.00%	99.92%
120.0	0.029	0.014	1600.309	0.00%	99.92%
125.0	0.043	0.017	1600.325	0.00%	99.92%
130.0	0.057	0.022	1600.347	0.00%	99.92%
135.0	0.143	0.040	1600.387	0.00%	99.92%
140.0	0.229	0.069	1600.456	0.00%	99.93%
145.0	0.386	0.103	1600.559	0.00%	99.93%
150.0	0.644	0.152	1600.711	0.00%	99.94%
155.0	0.887	0.194	1600.905	0.00%	99.96%
160.0	1.131	0.212	1601.116	0.00%	99.97%
165.0	1.259	0.197	1601.313	0.00%	99.98%
170.0	1.459	0.161	1601.474	0.00%	99.99%
175.0	1.574	0.109	1601.583	0.00%	100.00%
180.0	1.631	0.038	1601.621	0.00%	100.00%

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

Date:
Humidity(%): 58%

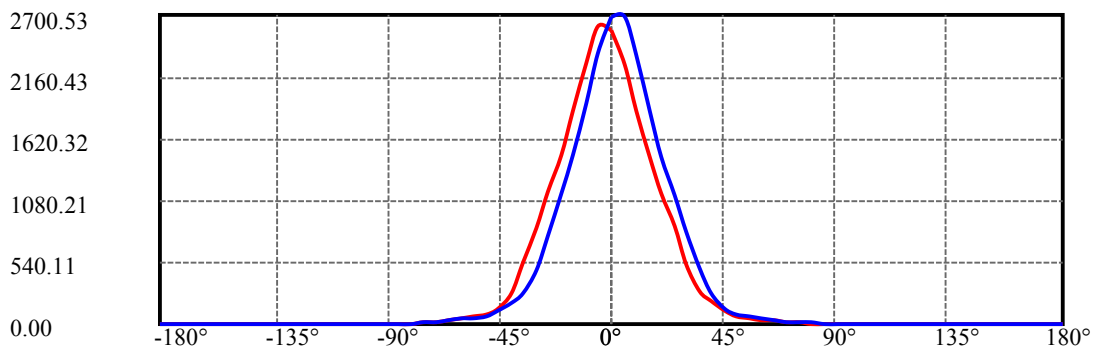
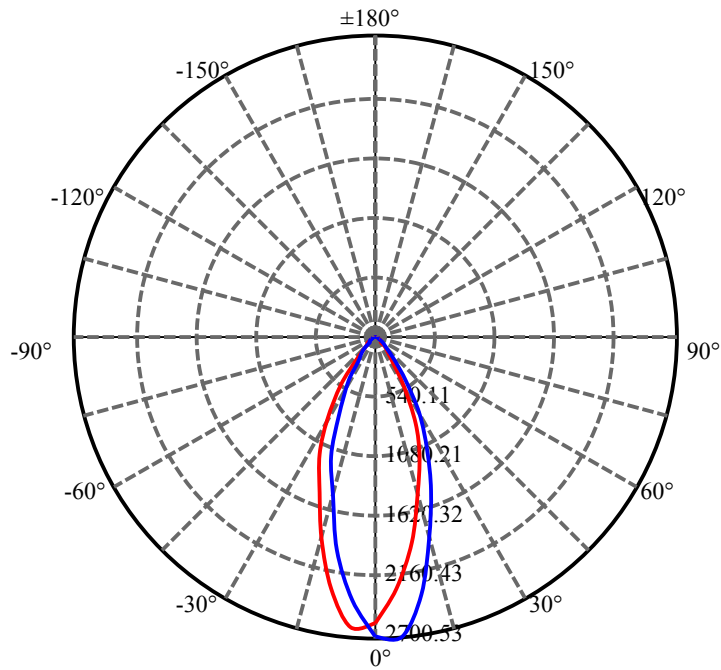
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1140.86	N.A.	71.23%
0-40	1394.45	N.A.	87.07%
0-60	1551.80	N.A.	96.89%
0-90	1600.26	N.A.	99.91%
0-120	1600.31	N.A.	99.92%
0-180	1601.62	N.A.	100.00%
60-90	48.45	N.A.	3.03%
90-120	0.05	N.A.	0.00%
90-130	0.09	N.A.	0.01%
90-150	0.45	N.A.	0.03%
90-180	1.33	N.A.	0.08%
0-34.61	1281.30	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	222.90
10-20	470.25
20-30	447.71
30-40	253.59
40-50	103.89
50-60	53.46
60-70	31.18
70-80	13.53
80-90	3.74
90-100	0.01
100-110	0.02
110-120	0.02
120-130	0.04
130-140	0.11
140-150	0.25
150-160	0.41
160-170	0.36
170-180	0.11



C0/C180: —

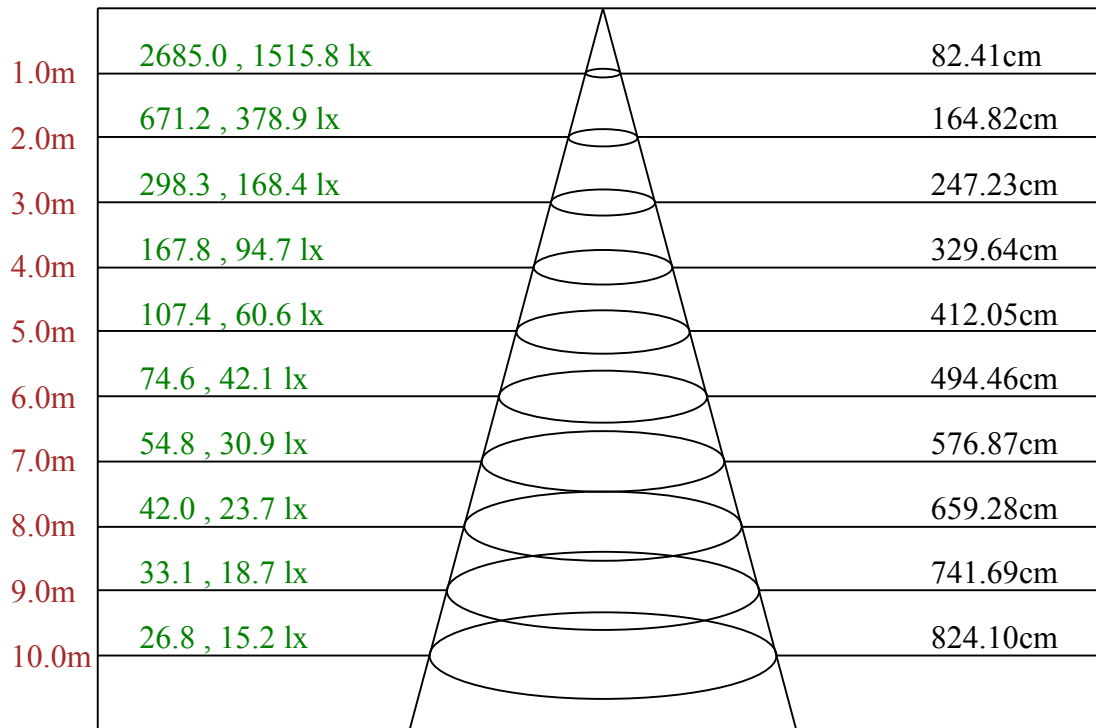
C90/C270: —

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

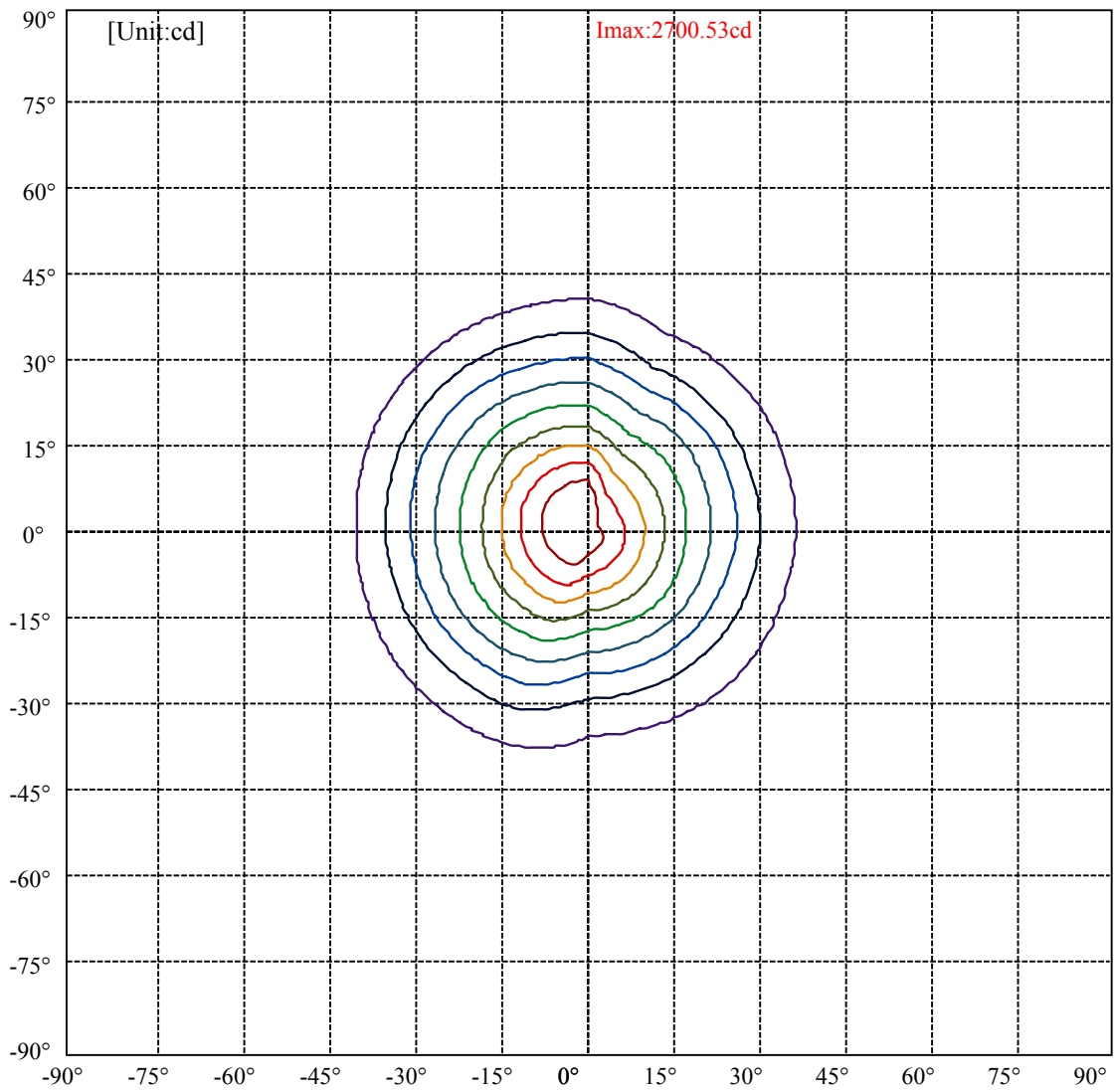
:C90/270Left:35.2 Right:40.2

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}) 269.163	—
(20%I _{max}) 538.325	—
(30%I _{max}) 807.488	—
(40%I _{max}) 1076.65	—
(50%I _{max}) 1345.81	—
(60%I _{max}) 1614.98	—
(70%I _{max}) 1884.14	—
(80%I _{max}) 2153.3	—
(90%I _{max}) 2422.46	—

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	2571.42	2260.33	1864.76	1462.32	1141.15	849.97	515.06	283.40	193.66
22.5	2551.97	2235.15	1869.79	1502.15	1178.92	875.84	515.29	286.15	187.71
45.0	2545.56	2248.88	1892.69	1537.64	1225.39	907.20	534.52	291.87	179.01
67.5	2592.26	2333.58	1963.65	1580.90	1221.04	905.14	550.77	307.21	169.17
90.0	2684.97	2691.61	2340.68	1865.90	1461.18	1119.18	797.78	491.94	274.24
112.5	2653.83	2700.53	2349.37	1910.54	1512.68	1169.99	816.09	514.83	265.77
135.0	2649.71	2668.48	2350.52	1930.91	1543.82	1188.77	879.50	530.40	271.27
157.5	2610.34	2630.71	2325.34	1919.24	1503.07	1188.54	886.82	545.28	278.82
180.0	2571.42	2601.87	2287.11	1868.19	1478.80	1164.50	845.62	531.09	266.46
202.5	2551.97	2570.51	2263.76	1835.46	1462.78	1137.95	801.44	471.34	246.77
225.0	2545.56	2530.45	2201.27	1783.49	1414.94	1086.44	737.34	412.97	230.98
247.5	2592.26	2511.22	2163.95	1743.89	1358.16	1015.48	689.50	401.06	232.58
270.0	2684.97	2360.59	1932.75	1484.07	1132.68	770.99	466.08	272.18	190.00
292.5	2653.83	2304.28	1902.30	1476.51	1118.95	780.61	445.93	267.83	188.40
315.0	2649.71	2274.06	1885.82	1494.14	1127.42	776.26	449.82	268.52	190.00
337.5	2610.34	2282.07	1855.37	1467.59	1139.78	792.74	486.22	269.44	189.77
360.0	2571.42	2260.33	1864.76	1462.32	1141.15	849.97	515.06	283.40	193.66
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	110.80	72.80	56.54	41.89	30.68	17.40	12.59	7.55	2.29
22.5	108.74	71.65	55.40	40.75	29.99	16.48	12.13	7.10	2.29
45.0	107.13	69.59	53.34	39.15	28.39	15.57	11.22	6.41	2.29
67.5	103.47	67.53	51.51	38.00	27.01	14.42	10.53	5.72	1.60
90.0	134.83	84.93	62.72	46.70	34.57	22.21	12.82	8.70	3.89
112.5	130.25	80.12	61.12	45.10	33.42	21.06	12.13	8.24	3.43
135.0	127.51	79.66	60.43	43.95	32.96	20.15	11.68	8.01	3.66
157.5	128.19	79.89	60.66	44.18	32.51	20.60	11.90	8.01	2.98
180.0	128.19	80.58	61.58	44.41	32.28	20.60	11.90	8.01	2.98
202.5	130.48	85.62	62.04	45.10	33.65	21.06	12.13	8.01	3.43
225.0	137.58	91.11	63.41	46.93	34.80	21.98	13.05	8.70	3.89
247.5	145.36	94.31	65.01	48.07	35.94	22.89	13.74	9.39	4.35
270.0	110.34	73.48	56.31	42.58	30.45	16.71	12.36	7.78	2.75
292.5	111.71	73.02	56.77	42.81	31.13	16.94	12.82	7.55	2.52
315.0	112.17	73.94	57.69	43.04	31.36	16.94	12.82	7.78	2.29
337.5	112.86	73.71	57.23	42.58	31.13	17.40	13.05	7.78	2.98
360.0	110.80	72.80	56.54	41.89	30.68	17.40	12.59	7.55	2.29
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)

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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	0.23	0.23	0.46	0.69	0.92	1.15	1.37	1.60	1.60
22.5	0.23	0.23	0.69	0.92	0.92	1.15	1.60	1.37	1.60
45.0	0.23	0.23	0.69	0.92	0.92	1.15	1.15	1.37	1.60
67.5	0.23	0.69	0.46	0.69	0.92	1.15	1.15	1.37	1.83
90.0	0.00	0.00	0.23	0.69	0.69	1.15	1.37	1.60	1.60
112.5	0.00	0.00	0.23	0.46	0.69	1.15	0.92	1.60	1.37
135.0	0.00	0.00	0.46	0.23	0.46	0.92	0.92	1.15	1.60
157.5	0.00	0.00	0.00	0.23	0.69	0.92	1.15	1.37	1.37
180.0	0.00	0.00	0.00	0.46	0.69	0.92	1.15	1.15	1.37
202.5	0.00	0.00	0.23	0.46	0.69	0.69	0.92	1.15	1.37
225.0	0.00	0.00	0.23	0.46	0.46	1.15	1.15	1.37	1.37
247.5	0.00	0.00	0.00	0.23	0.69	0.92	1.15	1.37	1.37
270.0	0.69	0.92	1.15	1.37	1.83	1.83	2.06	2.06	2.29
292.5	0.23	0.46	0.46	0.69	1.15	1.37	1.37	1.60	1.60
315.0	0.23	0.46	0.46	0.92	1.37	1.37	1.37	1.60	1.60
337.5	0.23	0.46	0.46	0.92	1.15	1.15	1.37	1.60	1.60
360.0	0.23	0.23	0.46	0.69	0.92	1.15	1.37	1.60	1.60
C/γ(°)	180.0								
0.0	1.60								
22.5	1.83								
45.0	1.60								
67.5	1.37								
90.0	2.29								
112.5	1.37								
135.0	1.37								
157.5	1.60								
180.0	1.60								
202.5	1.83								
225.0	1.60								
247.5	1.37								
270.0	2.29								
292.5	1.37								
315.0	1.37								
337.5	1.60								
360.0	1.60								