



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:LRG6-5CCT(2700K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.02

LampCAT:

Current(A): 0.1230

Lamp flux(lm): -1.0

Power (W): 14.58

Number of Lamps: 1

PF: 0.9853

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1389.37, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 95.28

Central intensity(cd): 2290.970, Maximum intensity(cd): 2315.042

Angle of maximum intensity: C=202.5 γ =5.0

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

[C90/270]Total=40.0

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

[C90/270]Total=73.2

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

Maximum s/h(1/4): C0_180=0.79 C90_270=0.69

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	2290.970	0.000	0	0.00%	0.00%
5.0	2169.700	53.326	53.326	0.00%	3.84%
10.0	1850.070	143.800	197.126	0.00%	14.19%
15.0	1490.313	198.149	395.275	0.00%	28.45%
20.0	1161.011	218.506	613.782	0.00%	44.18%
25.0	844.738	210.366	824.148	0.00%	59.32%
30.0	546.470	176.059	1000.206	0.00%	71.99%
35.0	318.495	127.372	1127.578	0.00%	81.16%
40.0	183.393	83.736	1211.314	0.00%	87.18%
45.0	113.728	55.014	1266.329	0.00%	91.14%
50.0	68.783	36.879	1303.208	0.00%	93.80%
55.0	48.435	25.487	1328.695	0.00%	95.63%
60.0	36.782	19.698	1348.393	0.00%	97.05%
65.0	26.035	15.271	1363.664	0.00%	98.15%
70.0	15.783	10.589	1374.252	0.00%	98.91%
75.0	9.323	6.562	1380.814	0.00%	99.38%
80.0	6.014	4.104	1384.918	0.00%	99.68%
85.0	2.500	2.313	1387.231	0.00%	99.85%
90.0	0.326	0.774	1388.005	0.00%	99.90%
95.0	0.012	0.093	1388.097	0.00%	99.91%
100.0	0.000	0.003	1388.101	0.00%	99.91%
105.0	0.024	0.006	1388.107	0.00%	99.91%
110.0	0.024	0.013	1388.12	0.00%	99.91%
115.0	0.024	0.012	1388.132	0.00%	99.91%
120.0	0.048	0.018	1388.149	0.00%	99.91%
125.0	0.048	0.022	1388.172	0.00%	99.91%
130.0	0.072	0.026	1388.198	0.00%	99.92%
135.0	0.121	0.039	1388.237	0.00%	99.92%
140.0	0.229	0.065	1388.302	0.00%	99.92%
145.0	0.350	0.097	1388.398	0.00%	99.93%
150.0	0.568	0.135	1388.534	0.00%	99.94%
155.0	0.797	0.173	1388.706	0.00%	99.95%
160.0	1.063	0.195	1388.901	0.00%	99.97%
165.0	1.219	0.188	1389.089	0.00%	99.98%
170.0	1.328	0.151	1389.241	0.00%	99.99%
175.0	1.401	0.098	1389.338	0.00%	100.00%
180.0	1.386	0.033	1389.371	0.00%	100.00%

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

Date:
Humidity(%): 58%

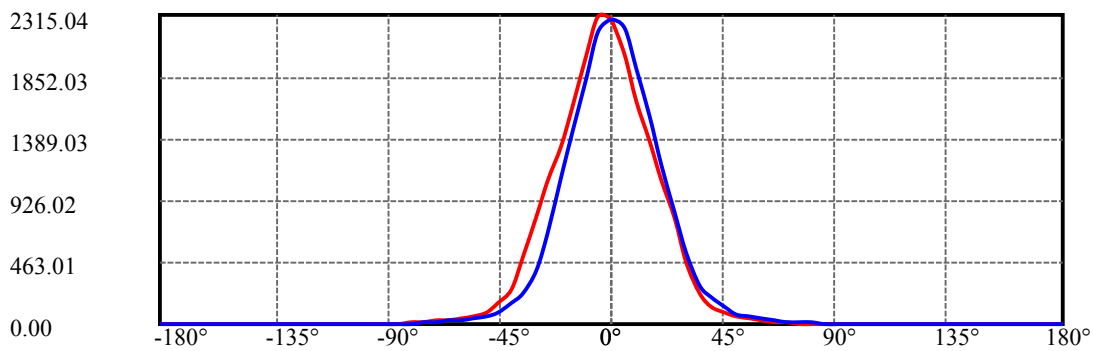
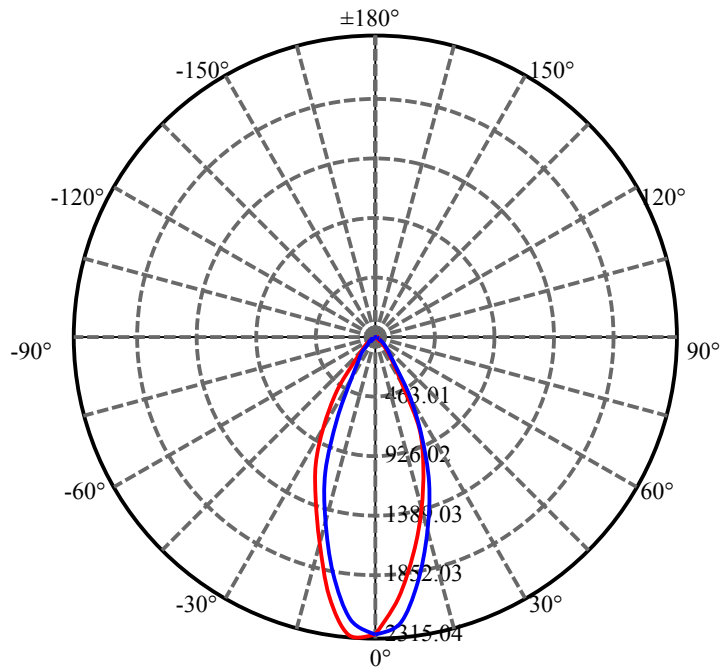
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1000.21	N.A.	71.99%
0-40	1211.31	N.A.	87.18%
0-60	1348.39	N.A.	97.05%
0-90	1388.00	N.A.	99.90%
0-120	1388.15	N.A.	99.91%
0-180	1389.37	N.A.	100.00%
60-90	39.61	N.A.	2.85%
90-120	0.14	N.A.	0.01%
90-130	0.19	N.A.	0.01%
90-150	0.53	N.A.	0.04%
90-180	1.33	N.A.	0.10%
0-34.37	1111.50	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	197.13
10-20	416.66
20-30	386.42
30-40	211.11
40-50	91.89
50-60	45.18
60-70	25.86
70-80	10.67
80-90	3.09
90-100	0.10
100-110	0.02
110-120	0.03
120-130	0.05
130-140	0.10
140-150	0.23
150-160	0.37
160-170	0.34
170-180	0.10



C0/C180: —

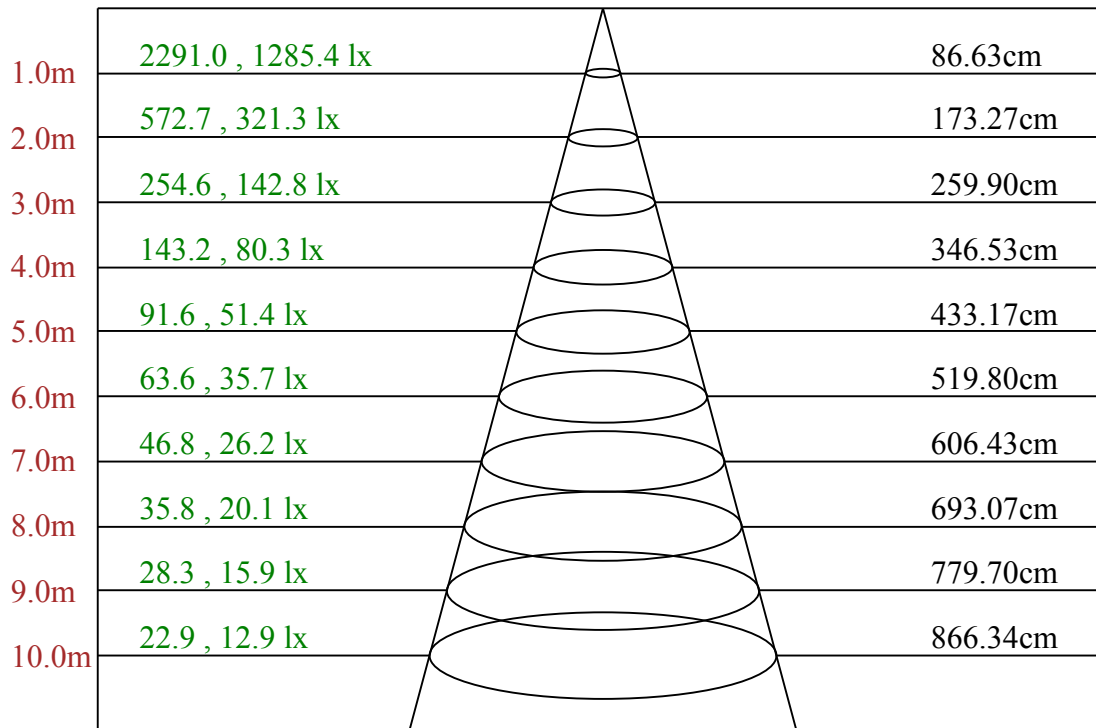
C90/C270: —

Field angle(10%Imax):C0/180Left:41.3 Right:35.3

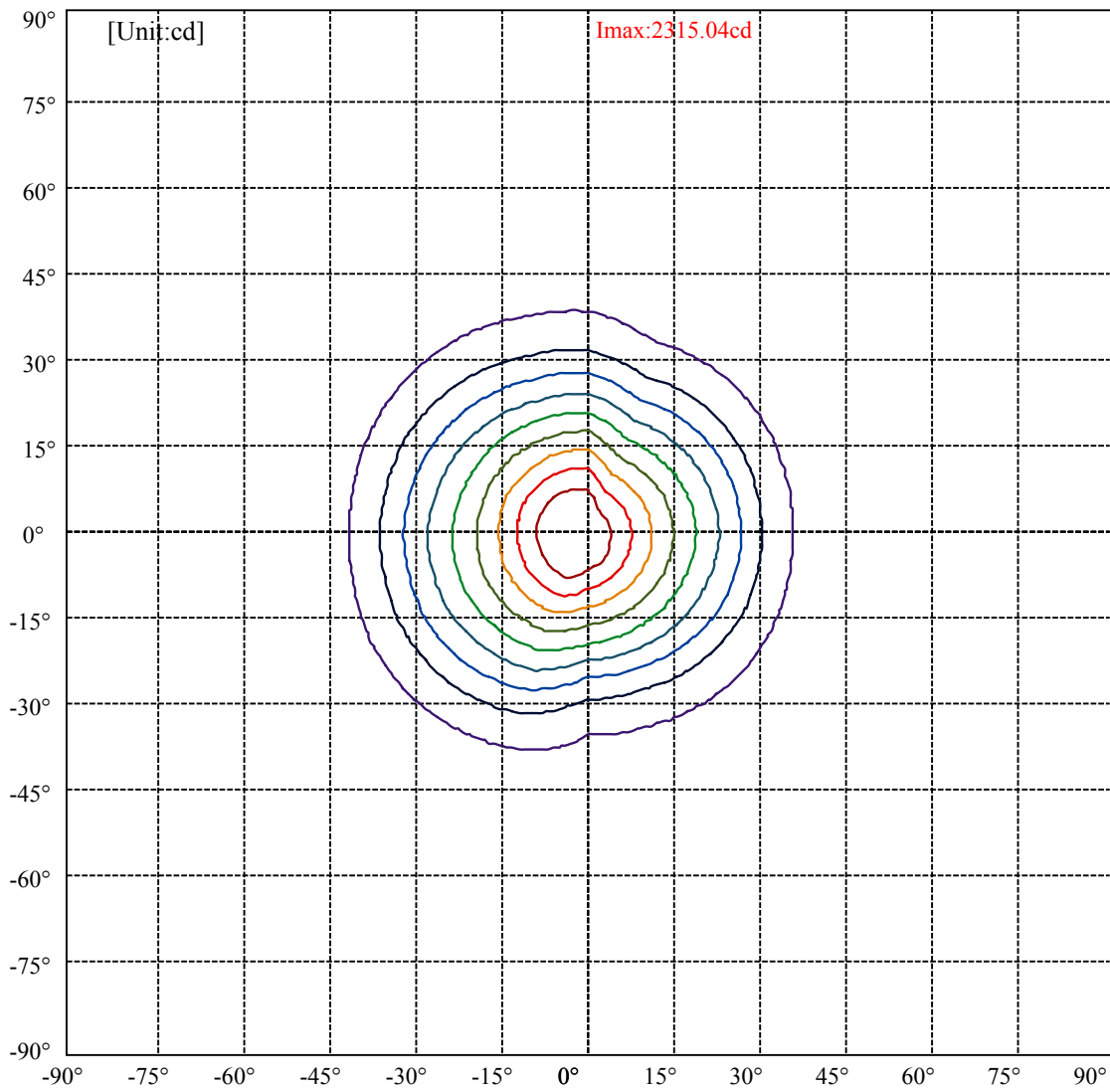
:C90/270Left:35.1 Right:38.1

Beam Angle(50%Imax):C0/180Left:23.6 Right:18.7

:C90/270Left:19.4 Right:20.6



Max , Ave Beam angle of C202.5 plane 46.84



(10%Imax) 230.987	—
(20%Imax) 461.974	—
(30%Imax) 692.961	—
(40%Imax) 923.948	—
(50%Imax) 1154.94	—
(60%Imax) 1385.92	—
(70%Imax) 1616.91	—
(80%Imax) 1847.9	—
(90%Imax) 2078.88	—

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	2290.97	2013.44	1669.53	1367.35	1072.90	787.91	453.85	237.07	132.16
22.5	2290.97	2006.49	1667.60	1347.06	1043.33	752.94	444.96	233.59	132.93
45.0	2290.97	2009.96	1658.90	1312.86	993.29	696.52	413.08	227.22	138.53
67.5	2290.97	2041.46	1669.33	1298.95	965.66	650.35	366.91	216.01	145.68
90.0	2290.97	2208.97	1910.46	1549.54	1190.56	837.57	526.11	284.02	194.37
112.5	2290.97	2234.28	1954.32	1575.82	1213.36	866.55	562.05	309.14	201.52
135.0	2290.97	2276.59	1986.39	1592.63	1259.54	934.94	645.13	376.76	218.71
157.5	2290.97	2299.01	2004.55	1635.72	1303.20	1007.01	729.17	462.93	243.64
180.0	2290.97	2298.43	2016.73	1639.39	1336.05	1073.48	799.12	506.40	255.04
202.5	2290.97	2315.04	2012.48	1647.31	1345.90	1069.61	781.34	495.00	259.48
225.0	2290.97	2298.62	2012.09	1644.99	1310.35	1013.97	729.17	446.90	239.97
247.5	2290.97	2291.86	2005.13	1617.55	1286.39	965.28	630.83	370.96	211.37
270.0	2290.97	2181.15	1837.43	1456.42	1104.78	694.98	397.43	231.27	153.80
292.5	2290.97	2131.30	1772.12	1406.57	1059.56	681.07	390.86	227.02	139.88
315.0	2290.97	2079.52	1728.65	1378.17	1041.21	715.84	417.72	233.01	136.41
337.5	2290.97	2029.09	1695.42	1374.69	1050.10	767.82	455.78	238.61	130.80
360.0	2290.97	2013.44	1669.53	1367.35	1072.90	787.91	453.85	237.07	132.16
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	84.05	53.91	39.80	29.75	19.32	10.05	7.15	3.67	0.39
22.5	83.85	53.91	40.38	29.75	19.90	10.24	7.34	3.86	0.39
45.0	82.89	53.71	41.15	30.14	20.29	10.43	7.54	4.06	0.39
67.5	83.85	54.10	41.35	31.49	21.45	10.82	8.12	4.44	1.16
90.0	127.71	77.09	51.97	39.80	29.18	19.13	10.82	7.73	3.86
112.5	137.95	80.38	52.94	41.54	30.53	20.48	11.01	7.73	4.06
135.0	147.23	83.66	55.84	43.28	32.07	21.45	11.59	8.12	4.44
157.5	151.28	86.37	58.74	44.83	32.65	22.61	11.59	8.50	4.83
180.0	155.73	88.30	58.74	45.60	33.43	22.80	11.59	8.50	5.02
202.5	151.28	86.37	58.16	44.63	32.27	22.41	11.59	8.12	4.64
225.0	141.62	83.66	55.64	42.89	31.11	21.25	10.63	7.73	4.44
247.5	131.77	80.18	53.33	40.38	29.95	19.51	9.85	7.15	3.67
270.0	89.07	56.42	43.67	32.65	23.19	11.40	8.69	4.83	1.55
292.5	84.63	54.10	41.93	31.11	21.25	10.24	7.54	4.25	0.77
315.0	82.89	54.10	40.96	30.72	20.09	10.05	7.15	3.86	0.39
337.5	83.85	54.29	40.38	29.95	19.90	9.66	6.96	3.67	0.00
360.0	84.05	53.91	39.80	29.75	19.32	10.05	7.15	3.67	0.39
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	0.19	0.00	0.19
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.58	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	0.19	0.19	0.00	0.39	0.39	0.19	0.19	0.58	0.39
292.5	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.19	0.19
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.19	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	0.19	0.00	0.19

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	0.39	0.39	0.39	0.77	0.97	1.16	1.35	1.35	1.35
22.5	0.19	0.39	0.39	0.77	0.97	1.35	1.35	1.55	1.35
45.0	0.19	0.39	0.58	0.58	0.97	1.16	1.35	1.16	1.35
67.5	0.19	0.39	0.58	0.58	0.97	1.16	1.35	1.35	1.55
90.0	0.19	0.19	0.39	0.58	0.58	1.16	1.35	1.35	1.35
112.5	0.00	0.00	0.19	0.39	0.58	0.97	1.16	1.35	1.35
135.0	0.00	0.00	0.00	0.39	0.58	0.77	0.97	1.16	1.16
157.5	0.00	0.00	0.19	0.00	0.58	0.97	0.77	1.16	1.16
180.0	0.00	0.00	0.00	0.39	0.58	0.97	0.97	1.35	1.16
202.5	0.00	0.00	0.19	0.39	0.58	0.77	1.16	0.97	1.16
225.0	0.00	0.00	0.19	0.39	0.58	0.58	0.97	1.16	1.35
247.5	0.00	0.00	0.00	0.39	0.58	0.77	0.97	1.35	1.55
270.0	0.58	0.77	0.58	1.16	1.35	1.55	1.74	1.93	1.93
292.5	0.19	0.39	0.58	0.77	0.97	1.35	1.35	1.55	1.74
315.0	0.00	0.39	0.58	0.77	0.97	1.16	1.35	1.35	1.55
337.5	0.00	0.39	0.77	0.77	0.97	1.16	1.35	1.16	1.35
360.0	0.39	0.39	0.39	0.77	0.97	1.16	1.35	1.35	1.35

C/γ(°)	180.0
0.0	1.39
22.5	1.39
45.0	1.39
67.5	1.39
90.0	1.39
112.5	1.39
135.0	1.39
157.5	1.39
180.0	1.39
202.5	1.39
225.0	1.39
247.5	1.39
270.0	1.39
292.5	1.39
315.0	1.39
337.5	1.39
360.0	1.39