



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
www.bellingeel.com

Tel:0755-21038430

Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

Client:

LumCAT: LRG3-HO-4CCT-DTW-2200K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.11

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.85

Number of Lamps: 1

PF: 0.9784

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 931.55, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 85.89

Central intensity(cd): 1490.194, Maximum intensity(cd): 1490.194

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=45.2

[C90/270]Total=43.8

Field angle(10%Imax): [C0/180]Total=73.0

[C90/270]Total=72.3

Maximum s/h(1/2): C0_180=0.72 C90_270=0.73

Maximum s/h(1/4): C0_180=0.72 C90_270=0.73

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.530%

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

Date:
Humidity(%): 58%

Operator: Sam

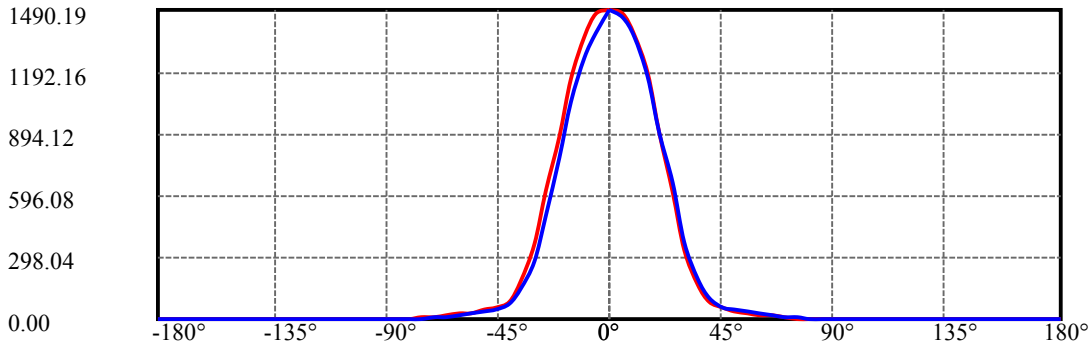
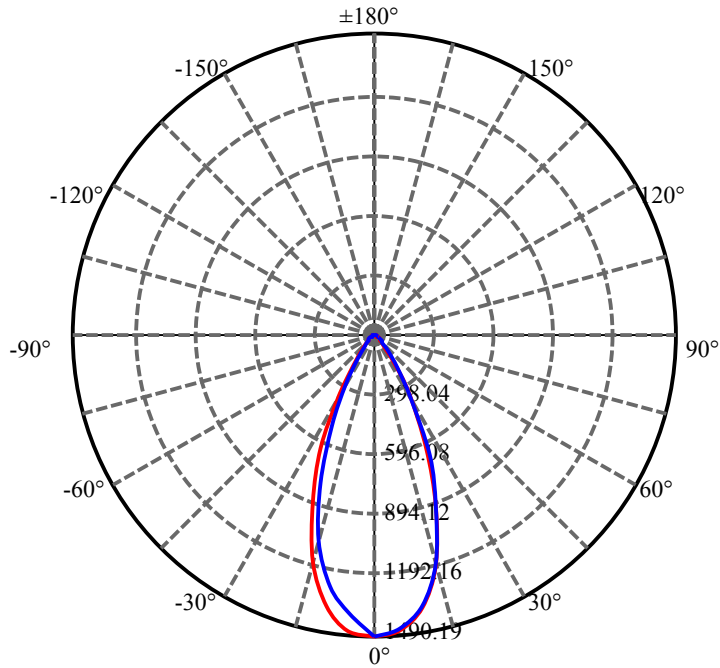
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1490.194	0.000	0	0.00%	0.00%
5.0	1452.157	35.175	35.175	0.00%	3.78%
10.0	1343.681	100.016	135.191	0.00%	14.51%
15.0	1150.462	147.951	283.142	0.00%	30.39%
20.0	871.588	166.645	449.787	0.00%	48.28%
25.0	587.976	153.081	602.868	0.00%	64.72%
30.0	332.427	116.478	719.346	0.00%	77.22%
35.0	170.133	74.006	793.352	0.00%	85.17%
40.0	83.227	42.271	835.623	0.00%	89.70%
45.0	52.736	25.175	860.797	0.00%	92.41%
50.0	40.952	18.931	879.728	0.00%	94.44%
55.0	31.959	15.853	895.582	0.00%	96.14%
60.0	24.071	12.951	908.533	0.00%	97.53%
65.0	15.631	9.652	918.184	0.00%	98.57%
70.0	9.451	6.351	924.535	0.00%	99.25%
75.0	4.593	3.671	928.206	0.00%	99.64%
80.0	2.092	1.789	929.994	0.00%	99.83%
85.0	0.529	0.712	930.707	0.00%	99.91%
90.0	0.000	0.145	930.852	0.00%	99.93%
95.0	0.000	0.000	930.852	0.00%	99.93%
100.0	0.000	0.000	930.852	0.00%	99.93%
105.0	0.000	0.000	930.852	0.00%	99.93%
110.0	0.000	0.000	930.852	0.00%	99.93%
115.0	0.000	0.000	930.852	0.00%	99.93%
120.0	0.000	0.000	930.852	0.00%	99.93%
125.0	0.000	0.000	930.852	0.00%	99.93%
130.0	0.024	0.005	930.857	0.00%	99.93%
135.0	0.048	0.015	930.871	0.00%	99.93%
140.0	0.024	0.013	930.885	0.00%	99.93%
145.0	0.168	0.032	930.917	0.00%	99.93%
150.0	0.264	0.064	930.981	0.00%	99.94%
155.0	0.505	0.097	931.078	0.00%	99.95%
160.0	0.746	0.131	931.209	0.00%	99.96%
165.0	0.890	0.135	931.344	0.00%	99.98%
170.0	0.938	0.108	931.452	0.00%	99.99%
175.0	0.986	0.069	931.521	0.00%	100.00%
180.0	1.026	0.024	931.545	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	719.35	N.A.	77.22%
0-40	835.62	N.A.	89.70%
0-60	908.53	N.A.	97.53%
0-90	930.85	N.A.	99.93%
0-120	930.85	N.A.	99.93%
0-180	931.55	N.A.	100.00%
60-90	22.32	N.A.	2.40%
90-120	0.00	N.A.	0.00%
90-130	0.01	N.A.	0.00%
90-150	0.13	N.A.	0.01%
90-180	0.67	N.A.	0.07%
0-31.75	745.24	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	135.19
10-20	314.60
20-30	269.56
30-40	116.28
40-50	44.11
50-60	28.80
60-70	16.00
70-80	5.46
80-90	0.86
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.01
130-140	0.03
140-150	0.10
150-160	0.23
160-170	0.24
170-180	0.07



C0/C180: —

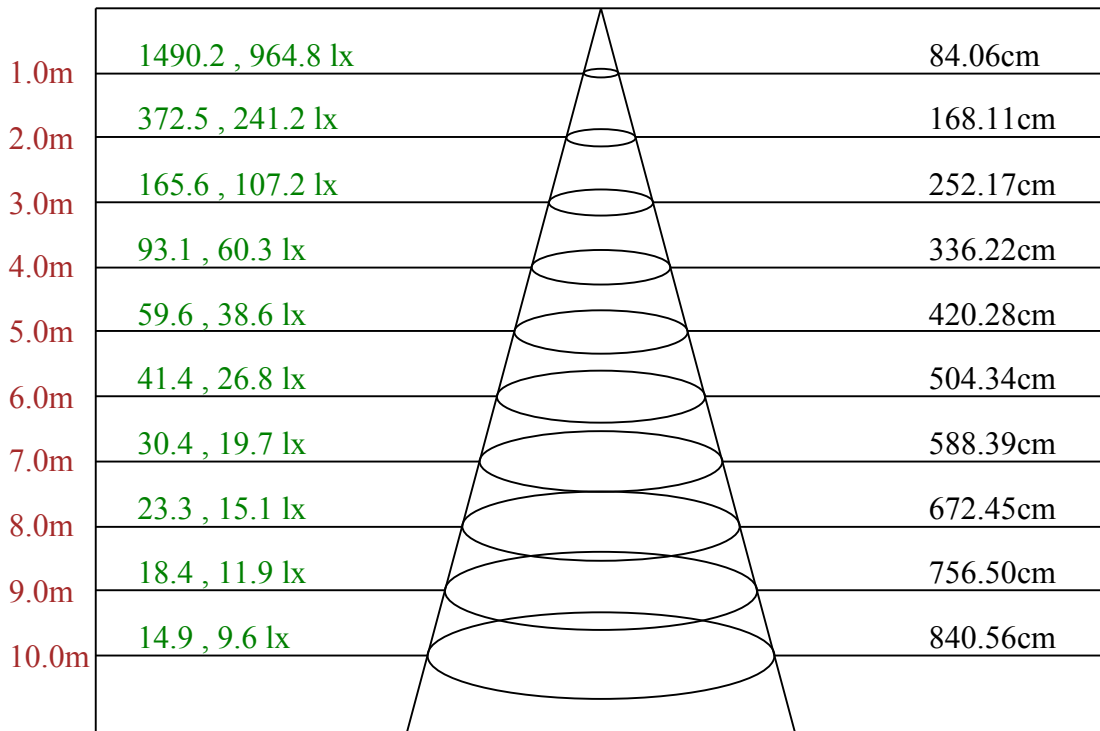
C90/C270: —

Field angle(10%Imax):C0/180Left:36.9 Right:36.1

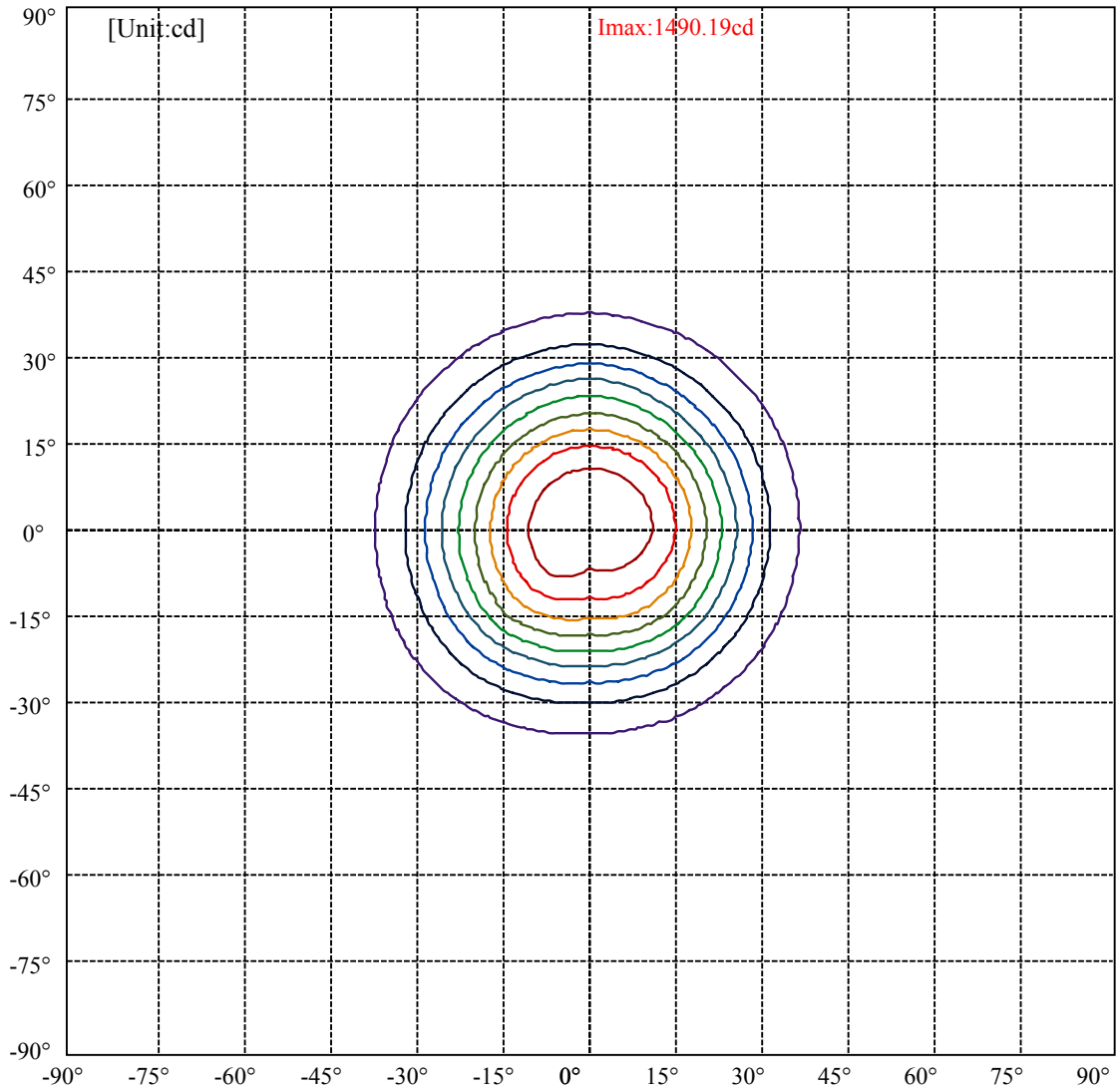
:C90/270Left:34.9 Right:37.4

Beam Angle(50%Imax):C0/180Left:22.5 Right:22.7

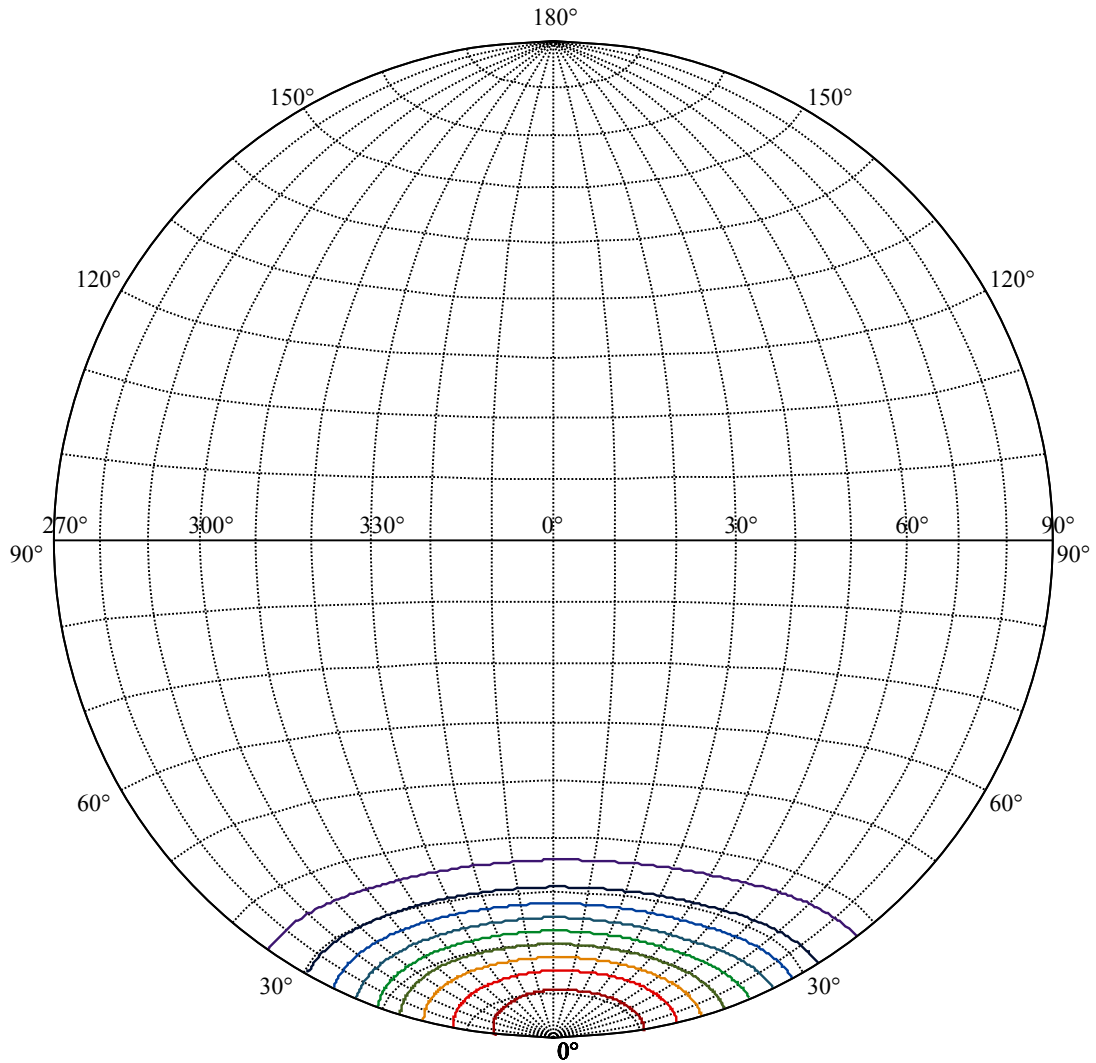
:C90/270Left:20.6 Right:23.2



Max , Ave Beam angle of C0 plane 45.59



(10%Imax) 149.019	—
(20%Imax) 298.039	—
(30%Imax) 447.058	—
(40%Imax) 596.078	—
(50%Imax) 745.097	—
(60%Imax) 894.116	—
(70%Imax) 1043.14	—
(80%Imax) 1192.16	—
(90%Imax) 1341.17	—



House

[Unit:cd]

Road

Imax:1490.19

(10%Imax)	149.019	—
(20%Imax)	298.039	—
(30%Imax)	447.058	—
(40%Imax)	596.078	—
(50%Imax)	745.097	—
(60%Imax)	894.116	—
(70%Imax)	1043.14	—
(80%Imax)	1192.16	—
(90%Imax)	1341.17	—

LRG3-HO-4CCT-DTW-2200K

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	1490.19	1469.76	1370.11	1182.16	898.79	613.11	332.62	167.75	78.68
45.0	1490.19	1476.11	1374.92	1185.04	881.66	567.70	324.93	166.21	79.07
90.0	1490.19	1454.95	1362.80	1167.92	896.48	659.28	366.48	194.49	98.50
135.0	1490.19	1461.10	1359.72	1166.77	868.77	601.56	350.13	176.22	86.95
180.0	1490.19	1470.72	1358.37	1159.84	875.89	618.68	357.82	187.38	86.76
225.0	1490.19	1475.34	1356.26	1160.03	907.83	593.10	345.70	176.22	90.03
270.0	1490.19	1382.81	1258.15	1049.03	781.82	497.10	280.10	145.05	73.30
315.0	1490.19	1426.48	1309.13	1132.91	861.46	553.28	301.65	147.75	72.53
360.0	1490.19	1469.76	1370.11	1182.16	898.79	613.11	332.62	167.75	78.68

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	51.56	40.78	31.55	23.09	14.81	8.66	4.23	1.73	0.39
45.0	51.37	40.98	32.13	23.86	14.81	8.66	4.43	1.92	0.19
90.0	56.94	44.25	34.63	26.93	17.31	10.77	4.81	2.12	0.77
135.0	54.64	42.71	33.86	25.78	17.12	10.77	5.00	2.12	0.39
180.0	53.87	42.52	32.32	24.43	16.54	9.81	4.81	2.31	0.19
225.0	53.87	40.01	31.17	24.62	16.74	10.20	5.19	2.89	1.15
270.0	49.44	37.51	29.24	21.35	13.27	8.08	4.04	1.92	0.77
315.0	50.21	38.86	30.78	22.51	14.43	8.66	4.23	1.73	0.39
360.0	51.56	40.78	31.55	23.09	14.81	8.66	4.23	1.73	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	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	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
180.0	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
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
315.0	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	0.00	0.00	0.00

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.39	0.39	0.77	0.77	0.77	0.96	0.96
45.0	0.00	0.00	0.19	0.19	0.58	0.77	1.15	0.96	1.15
90.0	0.00	0.00	0.00	0.19	0.39	0.58	0.77	0.96	0.96
135.0	0.00	0.00	0.00	0.19	0.19	0.58	0.96	0.96	0.77
180.0	0.00	0.00	0.00	0.19	0.39	0.58	0.77	0.96	0.96
225.0	0.00	0.00	0.00	0.19	0.39	0.77	0.77	0.77	0.77
270.0	0.39	0.19	0.39	0.39	0.77	0.96	1.15	0.96	1.35
315.0	0.00	0.00	0.39	0.39	0.58	0.96	0.77	0.96	0.96
360.0	0.00	0.00	0.39	0.39	0.77	0.77	0.77	0.96	0.96

C/γ(°)	180.0
0.0	1.03
45.0	1.03
90.0	1.03
135.0	1.03
180.0	1.03
225.0	1.03
270.0	1.03
315.0	1.03
360.0	1.03