



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-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.14

LampCAT:

Current(A): 0.0900

Lamp flux(lm): -1.0

Power (W): 10.56

Number of Lamps: 1

PF: 0.9743

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 958.29, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 90.74

Central intensity(cd): 1528.513, Maximum intensity(cd): 1528.513

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.9

[C90/270]Total=44.5

Field angle(10%Imax): [C0/180]Total=72.8

[C90/270]Total=72.4

Maximum s/h(1/2): C0_180=0.73 C90_270=0.75

Maximum s/h(1/4): C0_180=0.71 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.08%

Down flux rate of LUM(%): 99.92%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.527%

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

Date:
Humidity(%): 58%

Operator: Sam

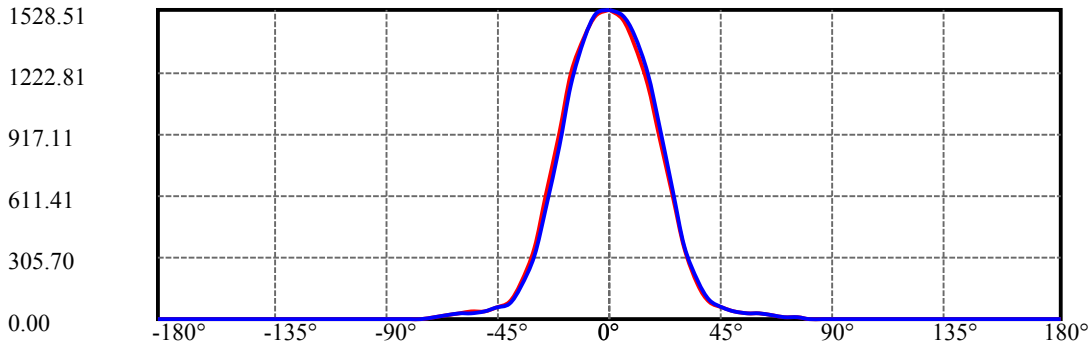
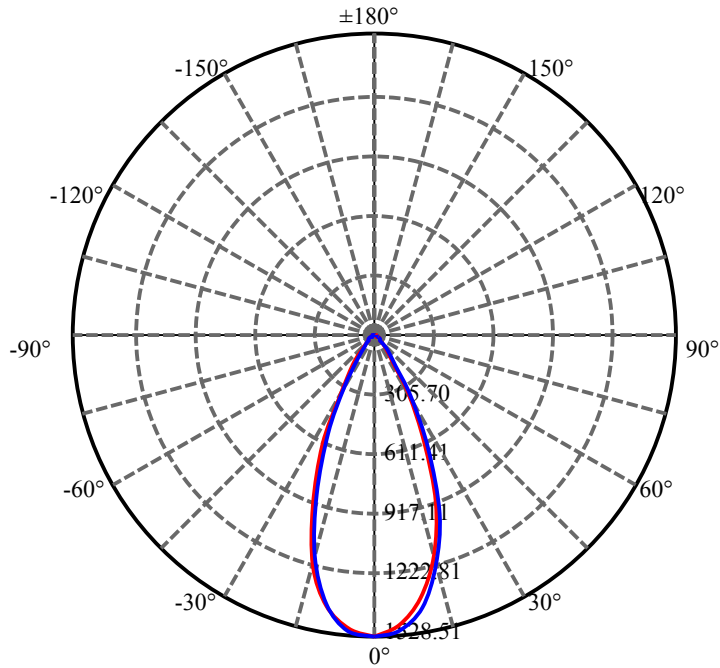
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1528.513	0.000	0	0.00%	0.00%
5.0	1490.556	36.092	36.092	0.00%	3.77%
10.0	1379.077	102.656	138.748	0.00%	14.48%
15.0	1183.407	152.005	290.753	0.00%	30.34%
20.0	907.087	172.286	463.039	0.00%	48.32%
25.0	597.974	157.853	620.892	0.00%	64.79%
30.0	340.816	118.805	739.697	0.00%	77.19%
35.0	173.525	75.740	815.437	0.00%	85.09%
40.0	87.053	43.475	858.912	0.00%	89.63%
45.0	54.842	26.273	885.185	0.00%	92.37%
50.0	42.108	19.590	904.775	0.00%	94.42%
55.0	33.230	16.381	921.156	0.00%	96.12%
60.0	24.911	13.439	934.596	0.00%	97.53%
65.0	15.985	9.942	944.537	0.00%	98.56%
70.0	9.823	6.535	951.072	0.00%	99.25%
75.0	4.730	3.804	954.876	0.00%	99.64%
80.0	2.207	1.856	956.732	0.00%	99.84%
85.0	0.437	0.718	957.45	0.00%	99.91%
90.0	0.000	0.120	957.57	0.00%	99.92%
95.0	0.000	0.000	957.57	0.00%	99.92%
100.0	0.000	0.000	957.57	0.00%	99.92%
105.0	0.000	0.000	957.57	0.00%	99.92%
110.0	0.000	0.000	957.57	0.00%	99.92%
115.0	0.000	0.000	957.57	0.00%	99.92%
120.0	0.000	0.000	957.57	0.00%	99.92%
125.0	0.000	0.000	957.57	0.00%	99.92%
130.0	0.024	0.005	957.575	0.00%	99.93%
135.0	0.024	0.010	957.585	0.00%	99.93%
140.0	0.049	0.013	957.598	0.00%	99.93%
145.0	0.146	0.032	957.631	0.00%	99.93%
150.0	0.412	0.082	957.713	0.00%	99.94%
155.0	0.534	0.120	957.833	0.00%	99.95%
160.0	0.655	0.125	957.957	0.00%	99.96%
165.0	0.897	0.128	958.085	0.00%	99.98%
170.0	0.970	0.111	958.196	0.00%	99.99%
175.0	1.043	0.072	958.268	0.00%	100.00%
180.0	1.078	0.025	958.293	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	739.70	N.A.	77.19%
0-40	858.91	N.A.	89.63%
0-60	934.60	N.A.	97.53%
0-90	957.57	N.A.	99.92%
0-120	957.57	N.A.	99.92%
0-180	958.29	N.A.	100.00%
60-90	22.97	N.A.	2.40%
90-120	0.00	N.A.	0.00%
90-130	0.01	N.A.	0.00%
90-150	0.14	N.A.	0.01%
90-180	0.70	N.A.	0.07%
0-31.78	766.63	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	138.75
10-20	324.29
20-30	276.66
30-40	119.22
40-50	45.86
50-60	29.82
60-70	16.48
70-80	5.66
80-90	0.84
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.01
130-140	0.02
140-150	0.11
150-160	0.24
160-170	0.24
170-180	0.07



C0/C180: —

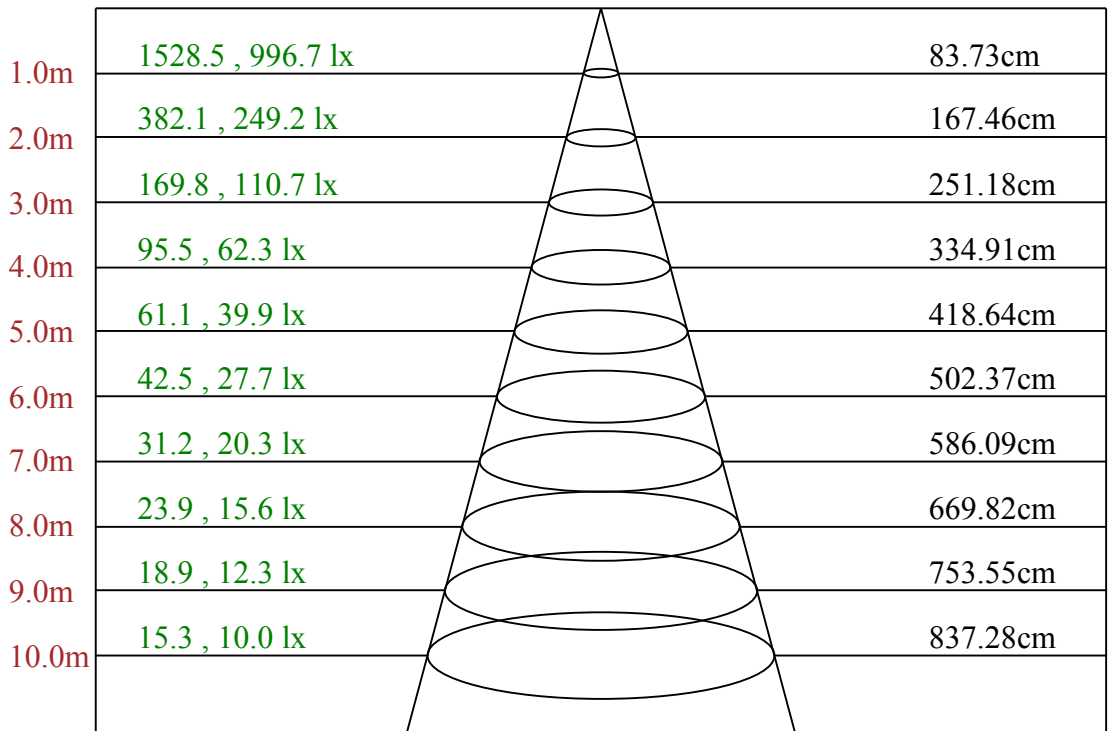
C90/C270: —

Field angle(10%Imax):C0/180Left:36.6 Right:36.2

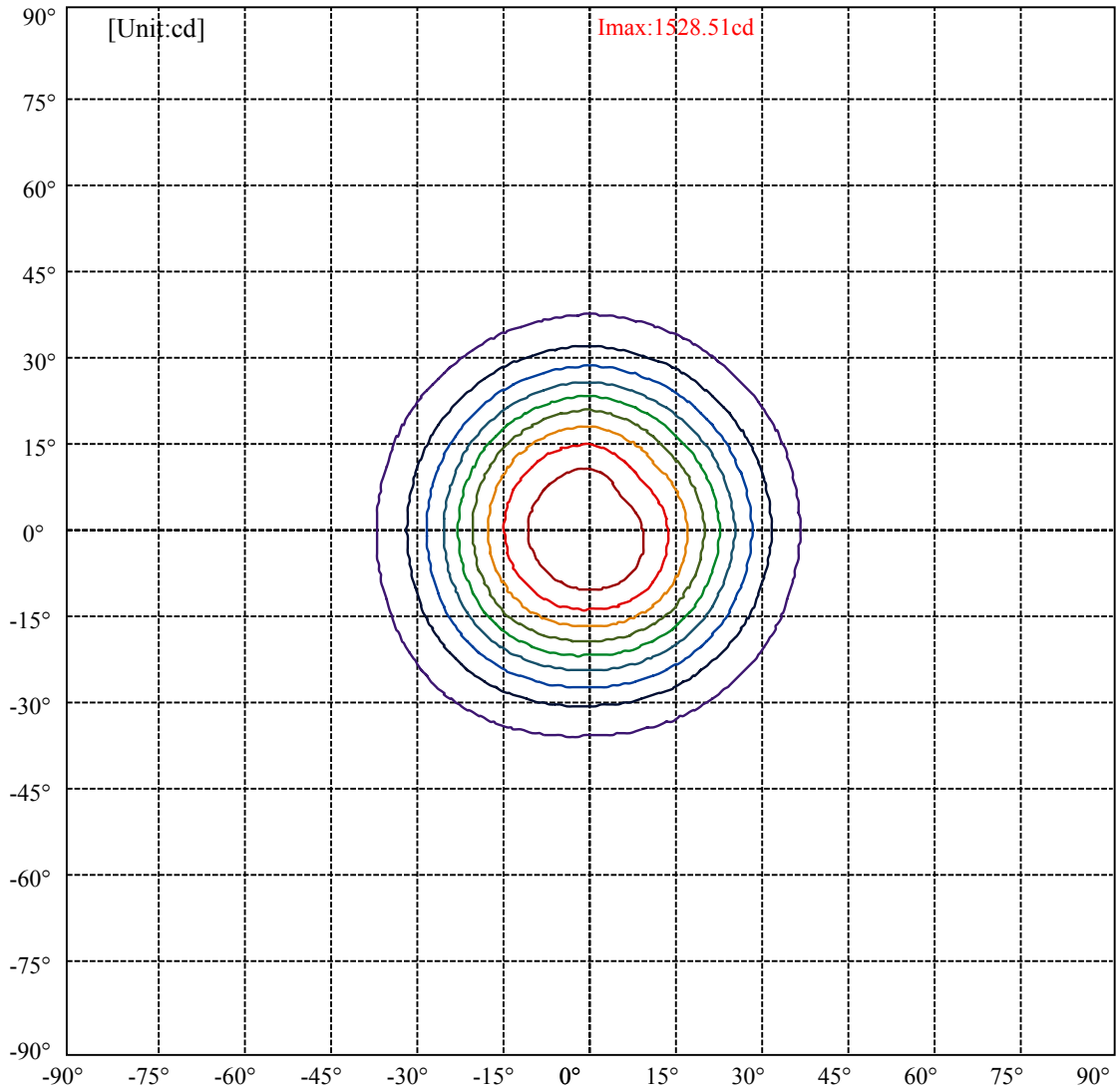
:C90/270Left:35.3 Right:37.1

Beam Angle(50%Imax):C0/180Left:22.6 Right:22.3

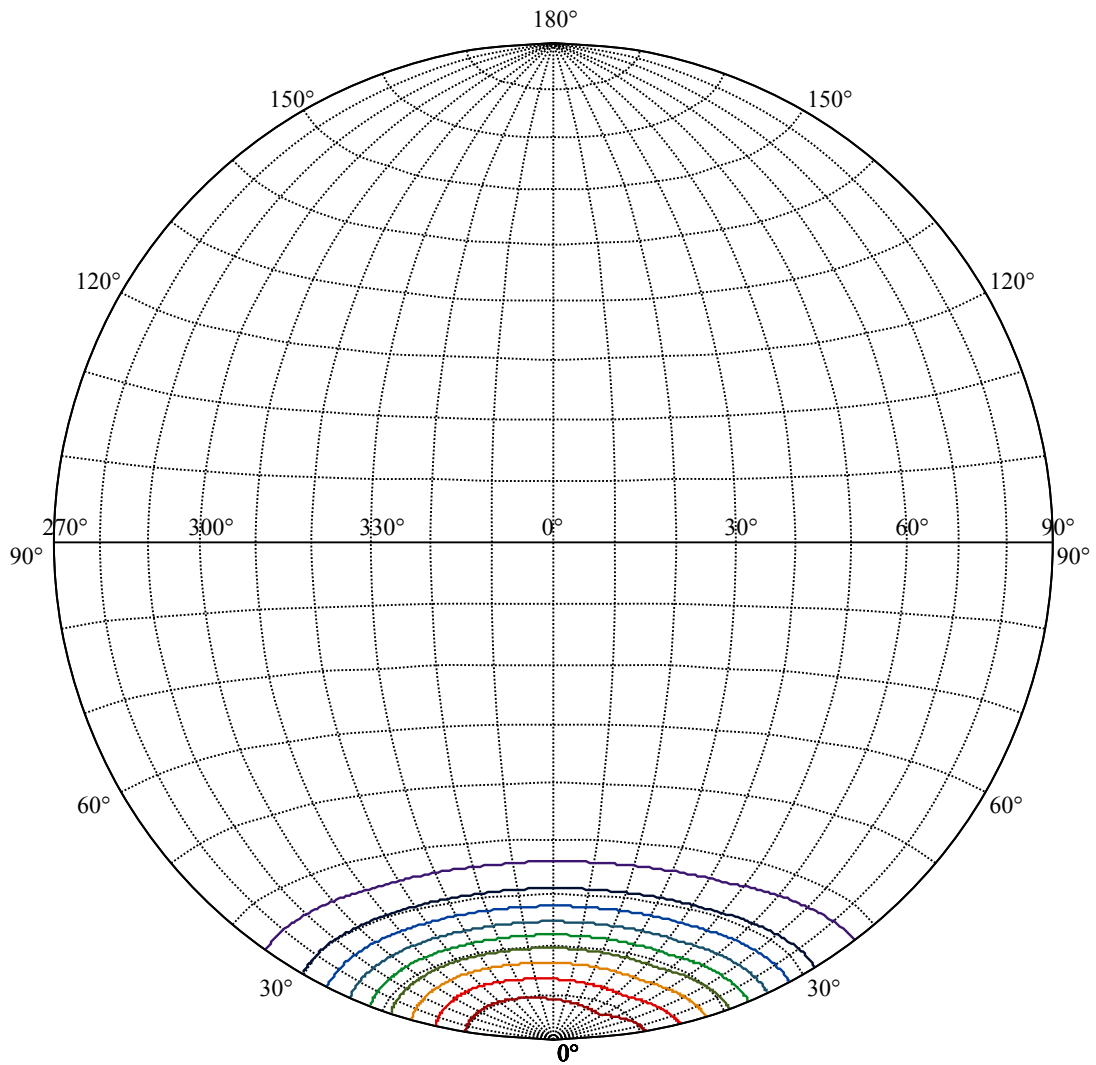
:C90/270Left:21.5 Right:23.0



Max , Ave Beam angle of C0 plane 45.43



(10%Imax) 152.851	—
(20%Imax) 305.703	—
(30%Imax) 458.554	—
(40%Imax) 611.405	—
(50%Imax) 764.256	—
(60%Imax) 917.108	—
(70%Imax) 1069.96	—
(80%Imax) 1222.81	—
(90%Imax) 1375.66	—



House

[Unit:cd]

Road

Imax:1528.51

(10%Imax) 152.851	—
(20%Imax) 305.703	—
(30%Imax) 458.554	—
(40%Imax) 611.405	—
(50%Imax) 764.256	—
(60%Imax) 917.108	—
(70%Imax) 1069.96	—
(80%Imax) 1222.81	—
(90%Imax) 1375.66	—

LRG3-HO-4CCT-DTW-4000K

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	1528.51	1478.43	1353.66	1159.81	901.73	604.84	349.09	172.89	86.35
45.0	1528.51	1444.86	1318.73	1118.09	859.43	571.46	329.49	163.58	84.99
90.0	1528.51	1501.91	1401.20	1213.75	960.33	635.30	361.51	192.10	99.55
135.0	1528.51	1505.40	1391.50	1216.47	939.57	609.50	345.98	172.89	84.02
180.0	1528.51	1497.06	1398.48	1210.84	923.85	616.48	354.91	183.18	89.65
225.0	1528.51	1490.85	1391.50	1197.26	929.48	620.56	356.85	191.13	93.53
270.0	1528.51	1508.51	1383.73	1162.72	855.35	551.86	309.50	156.98	79.56
315.0	1528.51	1497.45	1393.83	1188.33	886.98	573.79	319.20	155.43	78.78
360.0	1528.51	1478.43	1353.66	1159.81	901.73	604.84	349.09	172.89	86.35

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	54.33	41.33	32.41	24.26	15.91	9.51	4.85	2.72	0.39
45.0	54.33	40.17	31.82	24.06	15.14	9.70	5.05	2.91	1.16
90.0	56.66	42.69	33.18	25.61	16.88	10.48	5.24	2.72	0.58
135.0	54.72	41.91	33.18	25.61	16.49	10.09	4.66	2.13	0.19
180.0	54.72	42.69	33.76	25.03	16.49	10.09	4.46	1.94	0.00
225.0	56.27	43.47	34.73	26.00	16.69	10.48	4.66	1.94	0.39
270.0	53.75	42.30	32.99	24.06	14.75	8.93	4.08	1.55	0.39
315.0	53.94	42.30	33.76	24.64	15.52	9.31	4.85	1.75	0.39
360.0	54.33	41.33	32.41	24.26	15.91	9.51	4.85	2.72	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	0.58	0.78	0.97	0.97	1.16
45.0	0.00	0.19	0.19	0.58	0.58	0.58	0.78	0.97	1.16
90.0	0.00	0.00	0.00	0.39	0.39	0.58	0.97	0.97	0.97
135.0	0.00	0.00	0.00	0.19	0.39	0.39	0.78	0.97	0.78
180.0	0.00	0.00	0.00	0.19	0.39	0.58	0.78	0.97	0.97
225.0	0.00	0.00	0.00	0.39	0.58	0.78	0.78	0.78	0.97
270.0	0.19	0.19	0.39	0.58	0.58	0.78	1.16	1.16	1.16
315.0	0.00	0.00	0.19	0.58	0.78	0.78	0.97	0.97	1.16
360.0	0.00	0.00	0.39	0.39	0.58	0.78	0.97	0.97	1.16

C/γ(°)	180.0
0.0	1.08
45.0	1.08
90.0	1.08
135.0	1.08
180.0	1.08
225.0	1.08
270.0	1.08
315.0	1.08
360.0	1.08