



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

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Client:

LumCAT: LRG3-HO-4CCT-DTW-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.14

LampCAT:

Current(A): 0.0890

Lamp flux(lm): -1.0

Power (W): 10.46

Number of Lamps: 1

PF: 0.9739

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 951.31, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 90.91

Central intensity(cd): 1524.773, Maximum intensity(cd): 1524.773

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=45.0

[C90/270]Total=43.3

Field angle(10%Imax): [C0/180]Total=72.9

[C90/270]Total=72.3

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

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(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.525%

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

Date:
Humidity(%): 58%

Operator: Sam

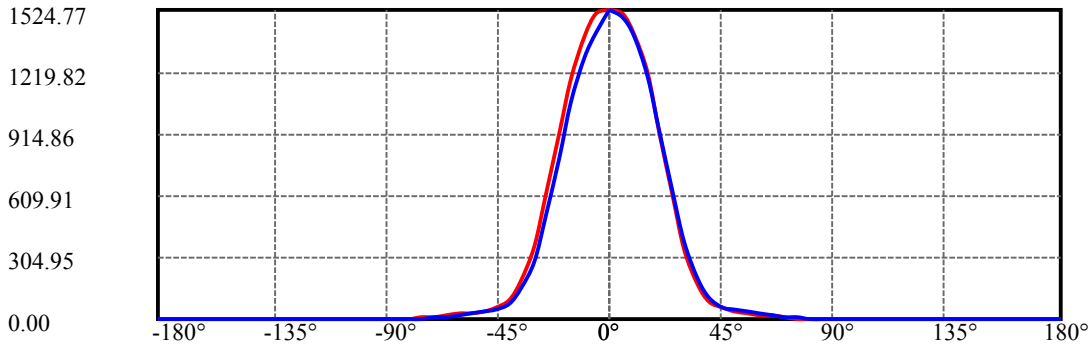
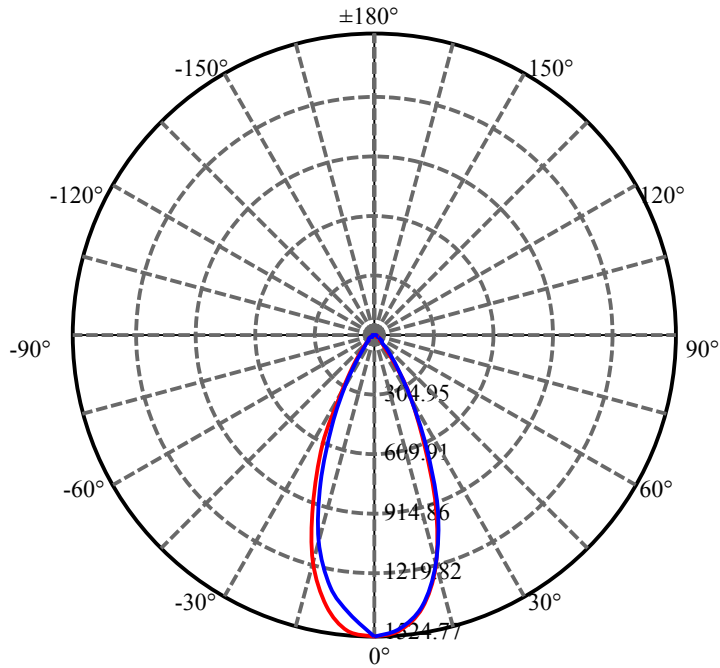
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1524.773	0.000	0	0.00%	0.00%
5.0	1485.854	35.991	35.991	0.00%	3.78%
10.0	1374.860	102.337	138.328	0.00%	14.54%
15.0	1177.158	151.384	289.712	0.00%	30.45%
20.0	897.964	171.019	460.731	0.00%	48.43%
25.0	590.547	156.117	616.848	0.00%	64.84%
30.0	339.157	117.655	734.503	0.00%	77.21%
35.0	173.589	75.505	810.009	0.00%	85.15%
40.0	85.405	43.211	853.22	0.00%	89.69%
45.0	53.959	25.804	879.024	0.00%	92.40%
50.0	41.656	19.320	898.344	0.00%	94.43%
55.0	32.700	16.168	914.512	0.00%	96.13%
60.0	24.630	13.252	927.764	0.00%	97.52%
65.0	15.993	9.876	937.639	0.00%	98.56%
70.0	9.670	6.498	944.137	0.00%	99.25%
75.0	4.700	3.756	947.893	0.00%	99.64%
80.0	2.141	1.830	949.723	0.00%	99.83%
85.0	0.541	0.729	950.452	0.00%	99.91%
90.0	0.000	0.148	950.6	0.00%	99.93%
95.0	0.000	0.000	950.6	0.00%	99.93%
100.0	0.000	0.000	950.6	0.00%	99.93%
105.0	0.000	0.000	950.6	0.00%	99.93%
110.0	0.000	0.000	950.6	0.00%	99.93%
115.0	0.000	0.000	950.6	0.00%	99.93%
120.0	0.000	0.000	950.6	0.00%	99.93%
125.0	0.000	0.000	950.6	0.00%	99.93%
130.0	0.025	0.005	950.606	0.00%	99.93%
135.0	0.049	0.015	950.621	0.00%	99.93%
140.0	0.025	0.014	950.634	0.00%	99.93%
145.0	0.172	0.033	950.667	0.00%	99.93%
150.0	0.271	0.065	950.733	0.00%	99.94%
155.0	0.517	0.100	950.832	0.00%	99.95%
160.0	0.763	0.134	950.966	0.00%	99.96%
165.0	0.910	0.138	951.104	0.00%	99.98%
170.0	0.959	0.111	951.215	0.00%	99.99%
175.0	1.009	0.070	951.286	0.00%	100.00%
180.0	1.050	0.025	951.31	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	734.50	N.A.	77.21%
0-40	853.22	N.A.	89.69%
0-60	927.76	N.A.	97.52%
0-90	950.60	N.A.	99.93%
0-120	950.60	N.A.	99.93%
0-180	951.31	N.A.	100.00%
60-90	22.84	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	0.69	N.A.	0.07%
0-31.76	761.05	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	138.33
10-20	322.40
20-30	273.77
30-40	118.72
40-50	45.12
50-60	29.42
60-70	16.37
70-80	5.59
80-90	0.88
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	0.25
170-180	0.07

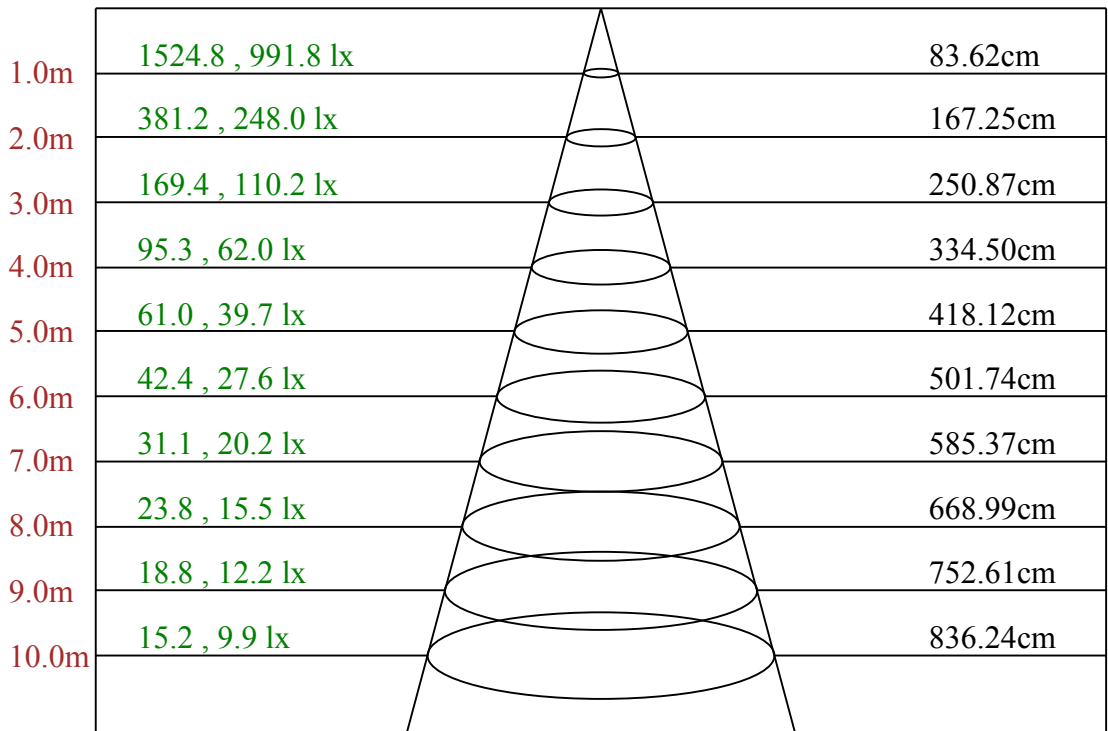


C0/C180: —

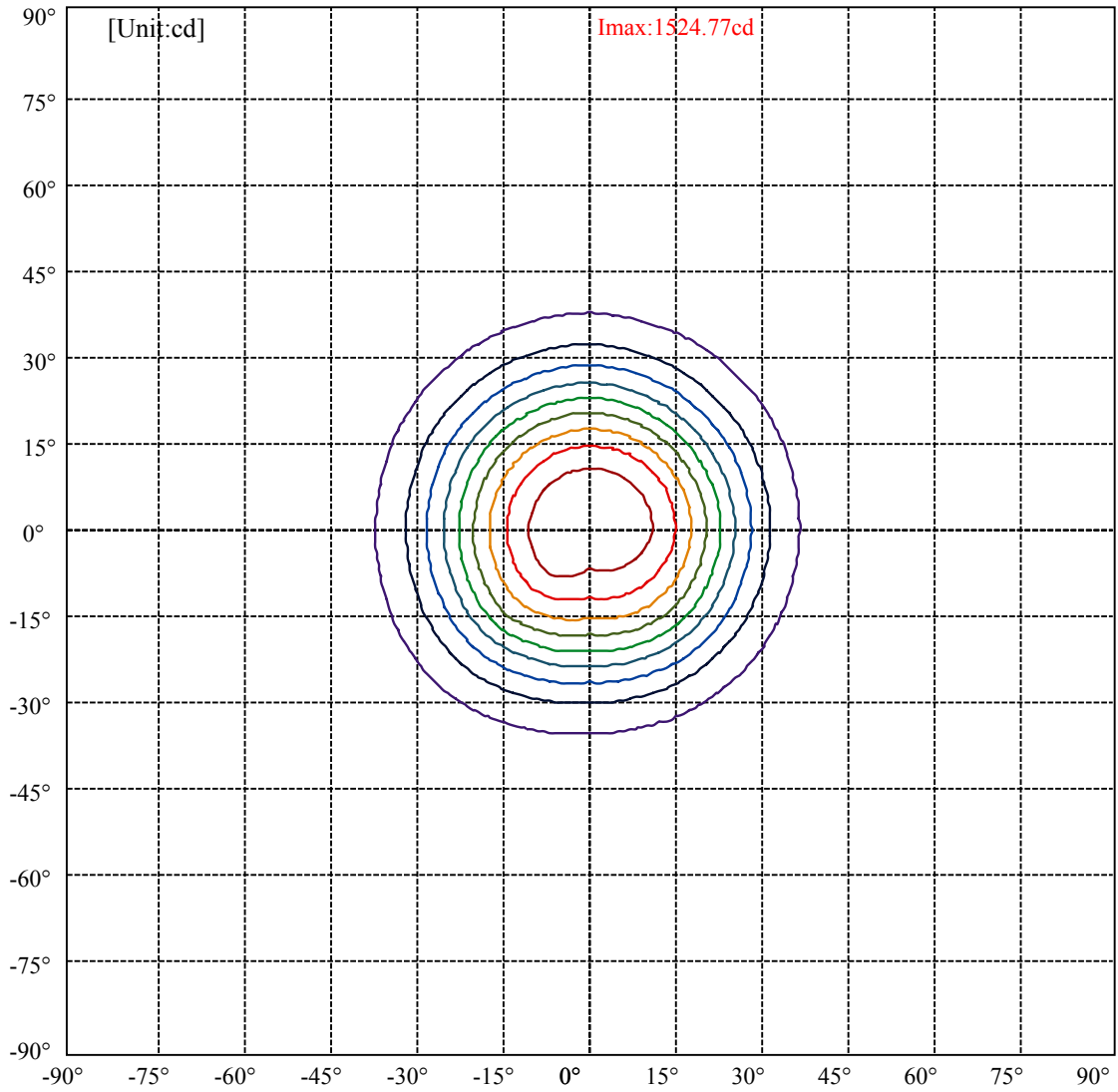
C90/C270: —

Field angle(10%Imax):C0/180Left:36.8 Right:36.1
:C90/270Left:34.9 Right:37.4

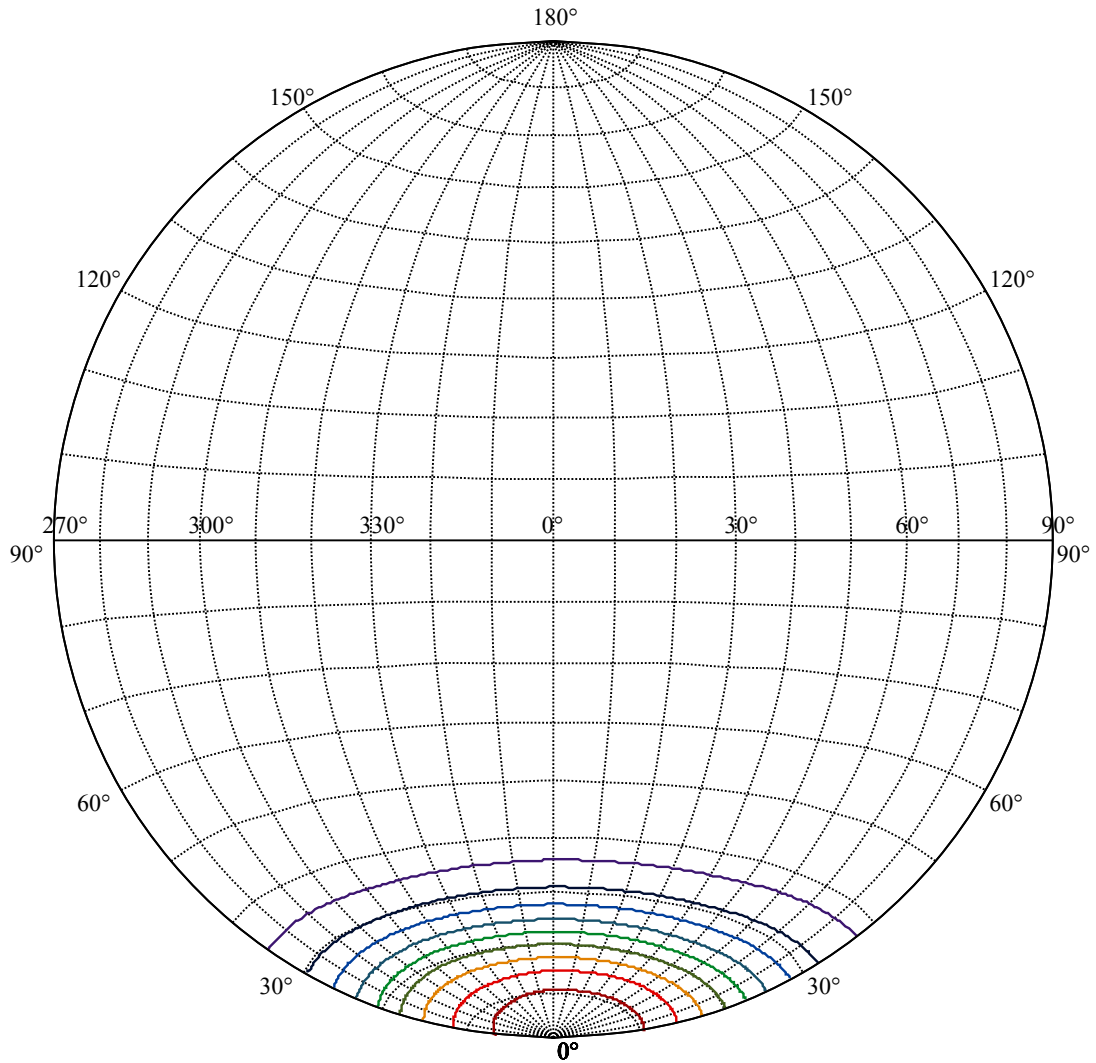
Beam Angle(50%Imax):C0/180Left:22.5 Right:22.5
:C90/270Left:20.6 Right:22.7



Max , Ave Beam angle of C0 plane 45.38



(10%Imax) 152.477	—
(20%Imax) 304.955	—
(30%Imax) 457.432	—
(40%Imax) 609.909	—
(50%Imax) 762.386	—
(60%Imax) 914.864	—
(70%Imax) 1067.34	—
(80%Imax) 1219.82	—
(90%Imax) 1372.3	—



House

[Unit:cd]

Road

Imax:1524.77

(10%Imax) 152.477	—
(20%Imax) 304.955	—
(30%Imax) 457.432	—
(40%Imax) 609.909	—
(50%Imax) 762.386	—
(60%Imax) 914.864	—
(70%Imax) 1067.34	—
(80%Imax) 1219.82	—
(90%Imax) 1372.3	—

LRG3-HO-4CCT-DTW-3000K

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	1524.77	1503.86	1401.90	1209.59	919.64	607.65	340.34	171.65	80.51
45.0	1524.77	1510.36	1406.82	1212.54	902.12	580.88	332.46	170.07	80.90
90.0	1524.77	1488.71	1394.42	1195.02	927.12	625.36	374.98	199.01	100.78
135.0	1524.77	1495.01	1391.27	1193.84	908.62	615.52	358.25	180.31	88.97
180.0	1524.77	1504.85	1389.89	1186.75	915.90	613.36	358.25	187.79	90.74
225.0	1524.77	1509.57	1387.73	1186.95	928.89	606.86	353.72	180.31	92.12
270.0	1524.77	1414.89	1287.34	1073.37	799.96	508.64	286.60	148.42	75.00
315.0	1524.77	1459.58	1339.50	1159.20	881.45	566.11	308.65	151.17	74.21
360.0	1524.77	1503.86	1401.90	1209.59	919.64	607.65	340.34	171.65	80.51

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	52.75	41.73	32.28	23.62	15.16	8.86	4.33	1.77	0.39
45.0	52.56	41.93	32.87	24.41	15.16	8.86	4.53	1.97	0.20
90.0	58.27	45.27	35.43	27.56	17.72	11.02	4.92	2.17	0.79
135.0	55.90	43.70	34.64	26.38	17.52	11.02	5.12	2.17	0.39
180.0	55.12	41.53	33.07	25.00	16.93	10.04	4.92	2.36	0.20
225.0	55.12	40.94	31.89	25.20	17.13	10.43	5.32	2.95	1.18
270.0	50.59	38.38	29.92	21.85	13.58	8.27	4.13	1.97	0.79
315.0	51.38	39.76	31.50	23.03	14.76	8.86	4.33	1.77	0.39
360.0	52.75	41.73	32.28	23.62	15.16	8.86	4.33	1.77	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	0.20
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	0.79	0.79	0.79	0.98	0.98
45.0	0.00	0.00	0.20	0.20	0.59	0.79	1.18	0.98	1.18
90.0	0.00	0.00	0.00	0.20	0.39	0.59	0.79	0.98	0.98
135.0	0.00	0.00	0.00	0.20	0.20	0.59	0.98	0.98	0.79
180.0	0.00	0.00	0.00	0.20	0.39	0.59	0.79	0.98	0.98
225.0	0.00	0.00	0.00	0.20	0.39	0.79	0.79	0.79	0.79
270.0	0.39	0.20	0.39	0.39	0.79	0.98	1.18	0.98	1.38
315.0	0.00	0.00	0.39	0.39	0.59	0.98	0.79	0.98	0.98
360.0	0.00	0.00	0.39	0.39	0.79	0.79	0.79	0.98	0.98

C/γ(°)	180.0
0.0	1.05
45.0	1.05
90.0	1.05
135.0	1.05
180.0	1.05
225.0	1.05
270.0	1.05
315.0	1.05
360.0	1.05