



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:

LumCAT: LRG3-HO-5CCT-4RSL-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.0900

Lamp flux(lm): -1.0

Power (W): 10.54

Number of Lamps: 0

PF: 0.9741

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1117.51, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 106.05

Central intensity(cd): 391.015, Maximum intensity(cd): 1901.300

Angle of maximum intensity: C=0.0 γ =30.0

Beam Angle(50%Imax): [C0/180]Total=60.9

[C90/270]Total=34.7

Field angle(10%Imax): [C0/180]Total=70.0

[C90/270]Total=104.8

Maximum s/h(1/2): C0_180=0.15 C90_270=0.60

Maximum s/h(1/4): C0_180=0.22 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.06%

Down flux rate of LUM(%): 99.94%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.156%

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

Date:
Humidity(%): 59%

Operator: Tester

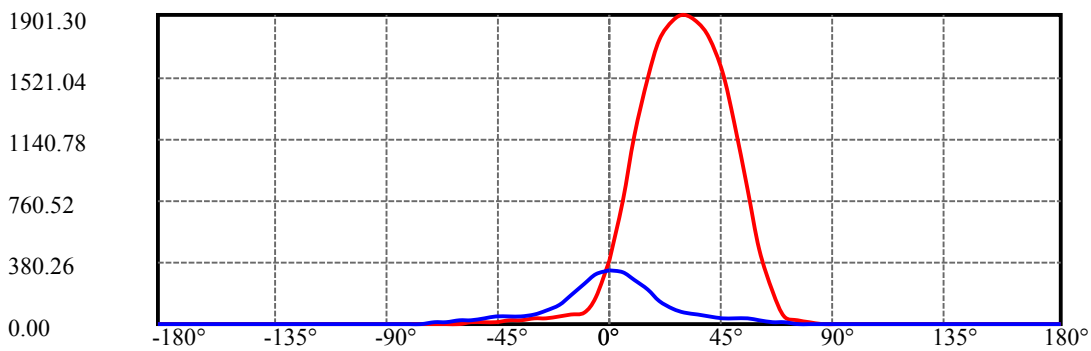
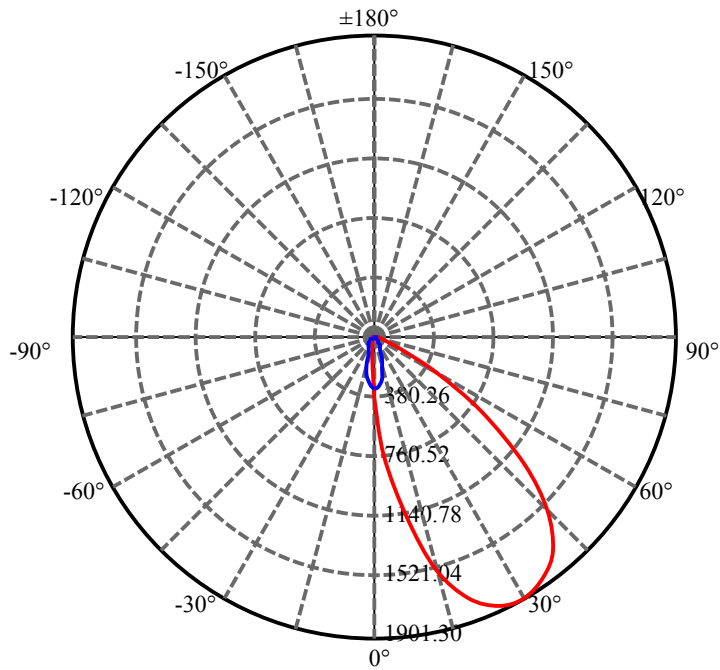
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	363.387	0.000	0	0.00%	0.00%
5.0	386.913	8.970	8.97	0.00%	0.80%
10.0	439.150	29.551	38.52	0.00%	3.45%
15.0	493.743	55.339	93.859	0.00%	8.40%
20.0	523.805	83.860	177.719	0.00%	15.90%
25.0	522.588	109.747	287.467	0.00%	25.72%
30.0	499.300	129.321	416.787	0.00%	37.30%
35.0	450.318	139.838	556.625	0.00%	49.81%
40.0	385.960	139.527	696.152	0.00%	62.29%
45.0	307.577	128.414	824.566	0.00%	73.79%
50.0	224.167	107.447	932.013	0.00%	83.40%
55.0	142.105	79.640	1011.652	0.00%	90.53%
60.0	81.664	51.724	1063.376	0.00%	95.16%
65.0	40.012	29.580	1092.956	0.00%	97.80%
70.0	15.984	14.178	1107.134	0.00%	99.07%
75.0	7.145	6.045	1113.18	0.00%	99.61%
80.0	2.937	2.698	1115.877	0.00%	99.85%
85.0	0.318	0.884	1116.762	0.00%	99.93%
90.0	0.000	0.087	1116.849	0.00%	99.94%
95.0	0.000	0.000	1116.849	0.00%	99.94%
100.0	0.000	0.000	1116.849	0.00%	99.94%
105.0	0.027	0.007	1116.856	0.00%	99.94%
110.0	0.000	0.007	1116.863	0.00%	99.94%
115.0	0.000	0.000	1116.863	0.00%	99.94%
120.0	0.027	0.006	1116.869	0.00%	99.94%
125.0	0.053	0.018	1116.888	0.00%	99.94%
130.0	0.106	0.035	1116.922	0.00%	99.95%
135.0	0.132	0.048	1116.97	0.00%	99.95%
140.0	0.185	0.059	1117.029	0.00%	99.96%
145.0	0.344	0.088	1117.117	0.00%	99.96%
150.0	0.370	0.105	1117.223	0.00%	99.97%
155.0	0.371	0.094	1117.316	0.00%	99.98%
160.0	0.371	0.078	1117.394	0.00%	99.99%
165.0	0.291	0.055	1117.449	0.00%	99.99%
170.0	0.238	0.031	1117.48	0.00%	100.00%
175.0	0.291	0.019	1117.499	0.00%	100.00%
180.0	0.529	0.010	1117.509	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	416.79	N.A.	37.30%
0-40	696.15	N.A.	62.29%
0-60	1063.38	N.A.	95.16%
0-90	1116.85	N.A.	99.94%
0-120	1116.87	N.A.	99.94%
0-180	1117.51	N.A.	100.00%
60-90	53.47	N.A.	4.78%
90-120	0.02	N.A.	0.00%
90-130	0.07	N.A.	0.01%
90-150	0.37	N.A.	0.03%
90-180	0.65	N.A.	0.06%
0-48.23	894.01	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	38.52
10-20	139.20
20-30	239.07
30-40	279.36
40-50	235.86
50-60	131.36
60-70	43.76
70-80	8.74
80-90	0.97
90-100	0.00
100-110	0.01
110-120	0.01
120-130	0.05
130-140	0.11
140-150	0.19
150-160	0.17
160-170	0.09
170-180	0.02

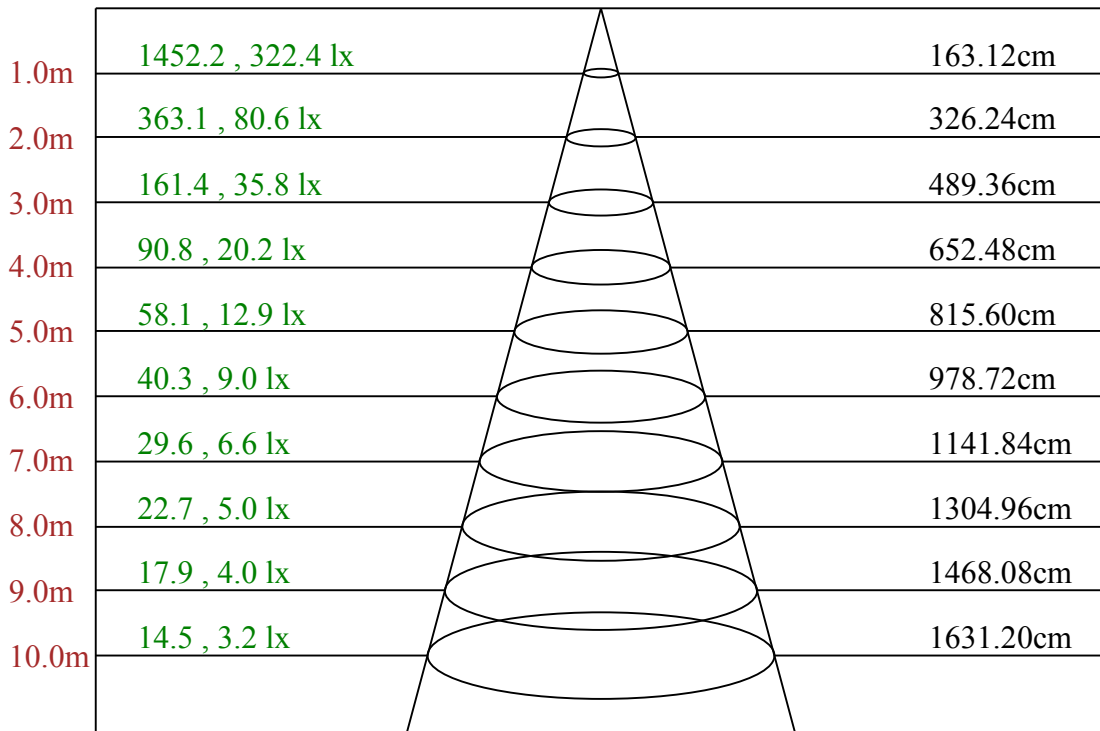


C0/C180: —

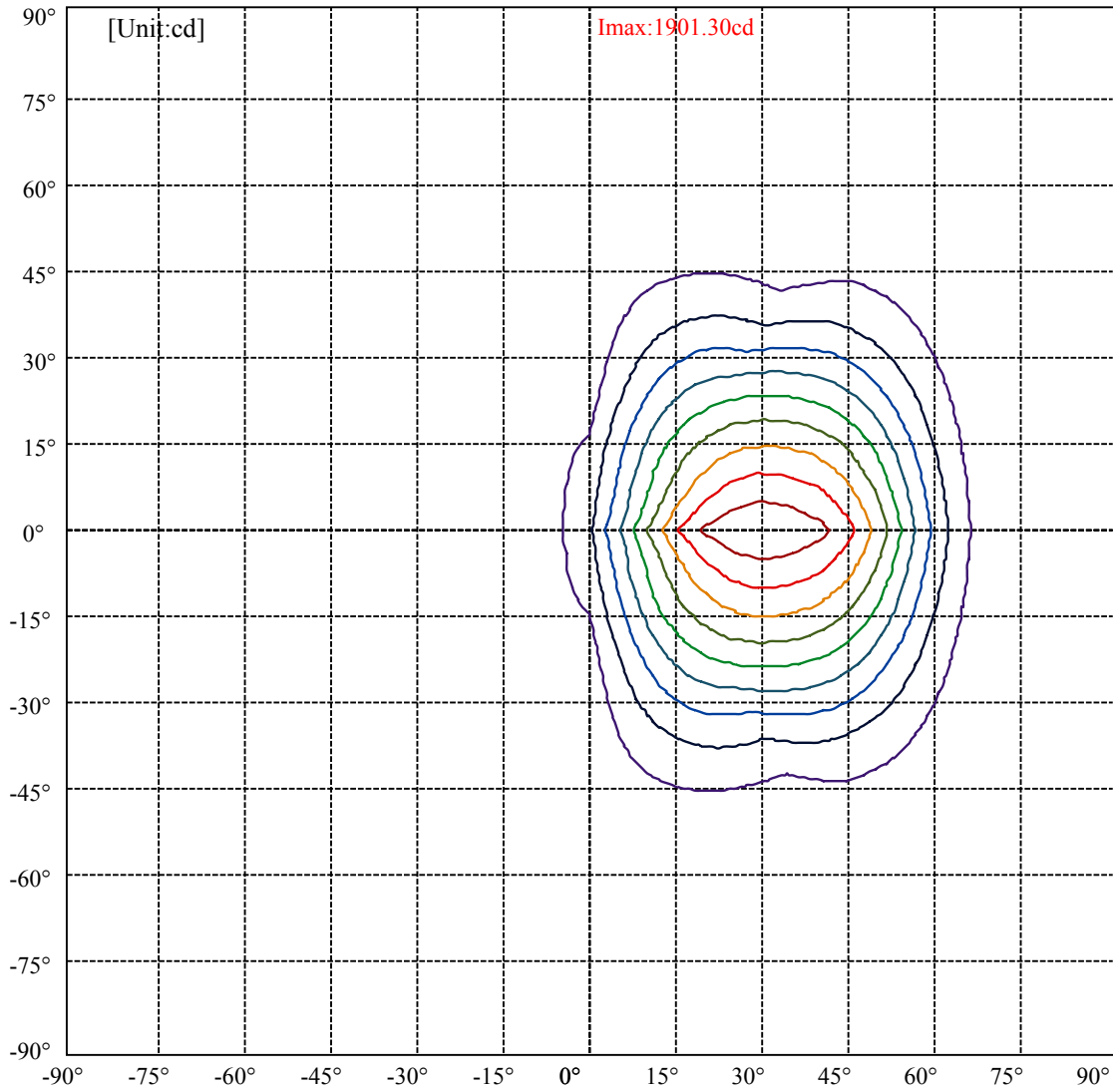
C90/C270: —

Field angle(10%Imax):C0/180Left:4.6 Right:65.4
:C90/270Left:51.9 Right:52.9

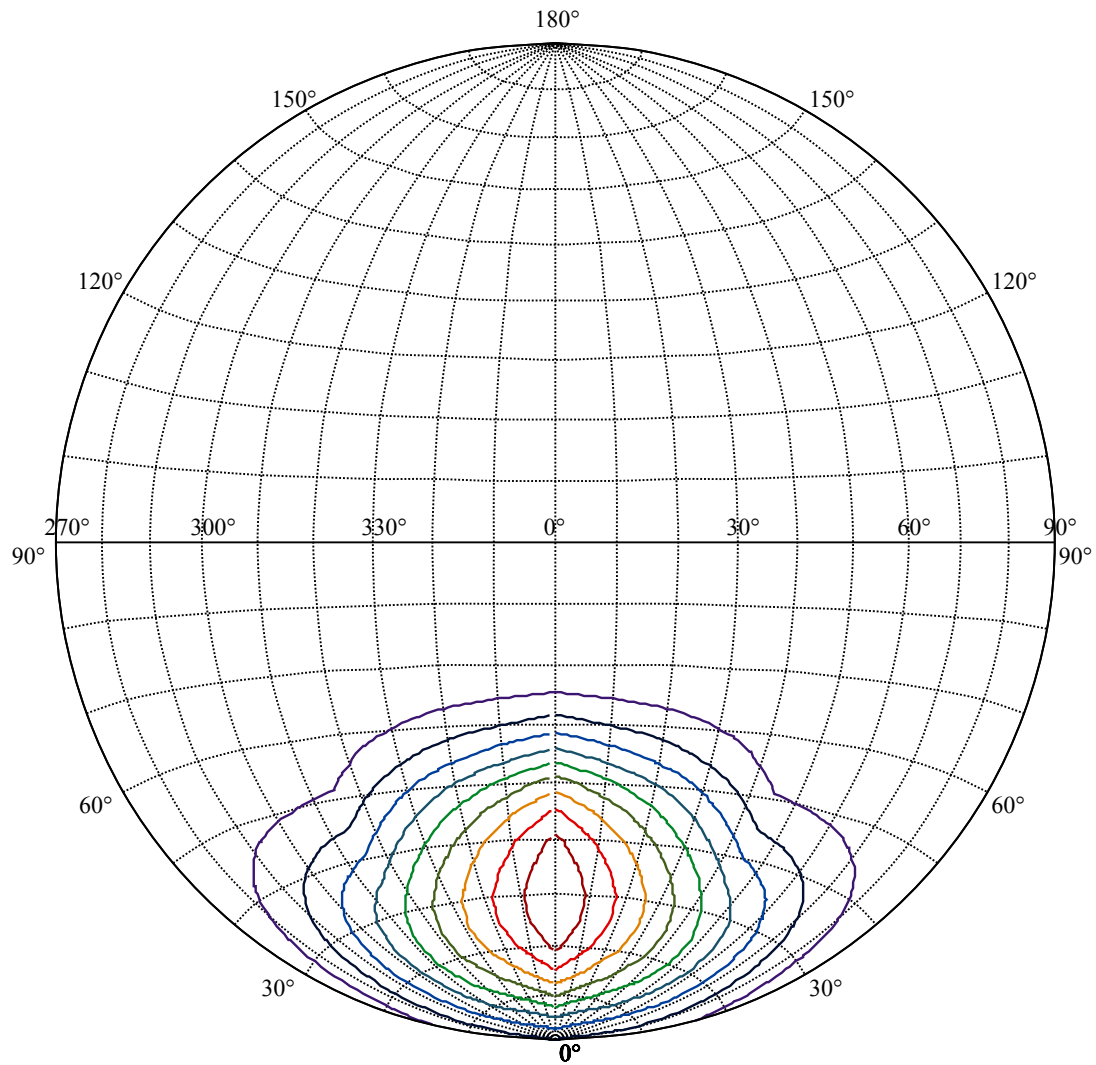
Beam Angle(50%Imax):C0/180Left:7.4 Right:53.5
:C90/270Left:16.3 Right:18.4



Max , Ave Beam angle of C0 plane 78.40



(10%Imax) 190.13	—
(20%Imax) 380.26	—
(30%Imax) 570.39	—
(40%Imax) 760.52	—
(50%Imax) 950.65	—
(60%Imax) 1140.78	—
(70%Imax) 1330.91	—
(80%Imax) 1521.04	—
(90%Imax) 1711.17	—



House

[Unit:cd]

Road

Imax:1901.30

(10%Imax) 190.13	—
(20%Imax) 380.26	—
(30%Imax) 570.39	—
(40%Imax) 760.52	—
(50%Imax) 950.65	—
(60%Imax) 1140.78	—
(70%Imax) 1330.91	—
(80%Imax) 1521.04	—
(90%Imax) 1711.17	—

LRG3-HO-5CCT-4RSL-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	391.02	751.54	1160.77	1516.00	1750.15	1865.10	1901.30	1848.16	1755.44
45.0	359.89	558.90	762.55	915.19	993.52	990.98	913.07	765.52	569.27
90.0	330.68	316.50	266.75	206.83	145.65	95.90	66.05	54.20	47.00
135.0	371.96	210.01	106.70	62.45	51.23	43.61	37.68	32.39	27.31
180.0	391.02	170.63	76.00	55.25	45.73	38.53	32.60	26.89	21.59
225.0	359.89	201.75	101.83	62.88	51.44	44.46	38.74	32.60	27.10
270.0	330.68	305.49	249.81	181.01	122.15	80.24	61.39	52.93	47.42
315.0	371.96	580.49	788.80	950.33	1030.57	1021.89	943.56	789.86	592.56
360.0	391.02	751.54	1160.77	1516.00	1750.15	1865.10	1901.30	1848.16	1755.44

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1549.24	1236.55	826.28	462.36	201.54	52.29	20.96	9.32	1.69
45.0	370.90	208.74	101.62	61.39	38.74	25.19	13.13	5.50	0.21
90.0	41.28	35.99	30.91	24.98	16.72	9.53	4.02	1.27	0.21
135.0	22.23	17.78	13.55	8.89	4.66	3.18	1.69	0.64	0.00
180.0	17.15	12.91	9.10	5.50	4.23	2.75	1.27	0.42	0.00
225.0	22.02	17.57	12.70	7.83	4.02	2.54	1.48	0.42	0.00
270.0	41.71	35.78	28.58	20.75	12.91	6.77	2.33	0.85	0.21
315.0	396.10	228.00	114.11	61.61	37.26	25.62	12.28	5.08	0.21
360.0	1549.24	1236.55	826.28	462.36	201.54	52.29	20.96	9.32	1.69

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	0.21	0.21	0.42
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
270.0	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.21	0.21
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	0.00	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	0.21	0.42
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	0.21	0.00	0.21	0.42	0.21	0.21	0.21
180.0	0.64	0.85	1.06	1.27	1.27	1.06	0.85	0.42	0.42
225.0	0.42	0.64	1.06	1.27	1.06	1.06	1.06	0.85	0.64
270.0	0.00	0.00	0.42	0.42	0.42	0.42	0.21	0.21	0.42
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	180.0
0.0	0.42
45.0	0.85
90.0	0.64
135.0	0.21
180.0	0.42
225.0	0.85
270.0	0.64
315.0	0.21
360.0	0.42