



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

LumCAT: LR3G-HO-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.14

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.86

Number of Lamps: 0

PF: 0.9784

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1051.76, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.83

Central intensity(cd): 1689.386, Maximum intensity(cd): 1704.205

Angle of maximum intensity: C=45.0 $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=44.6

[C90/270]Total=44.2

Field angle(10%Imax): [C0/180]Total=72.7

[C90/270]Total=73.4

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

Maximum s/h(1/4): C0_180=0.73 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 : 97.506%

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

Date:
Humidity(%): 59%

Operator: Tester

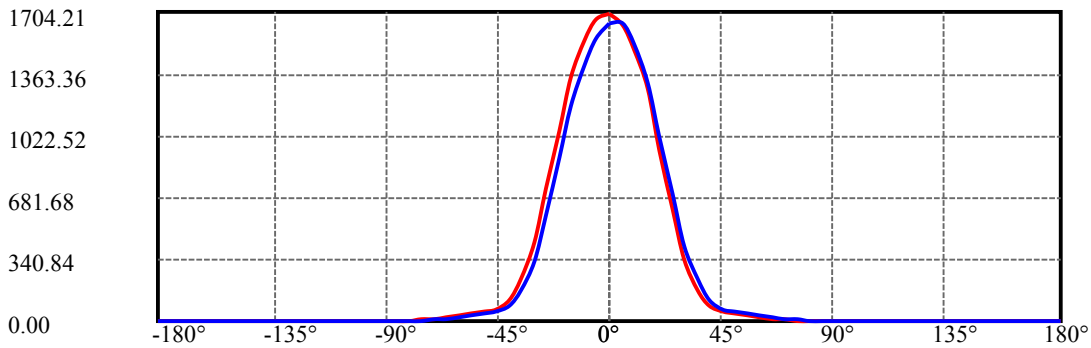
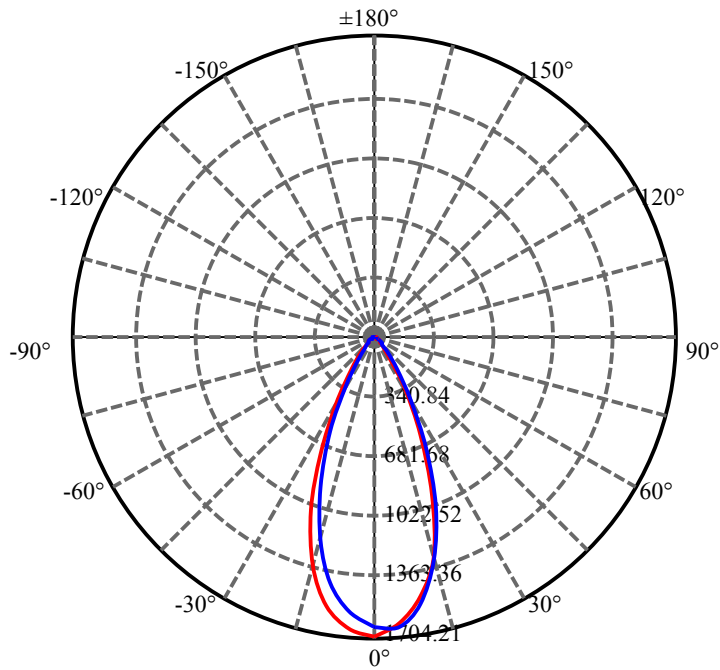
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1672.926	0.000	0	0.00%	0.00%
5.0	1630.559	39.492	39.492	0.00%	3.75%
10.0	1503.829	112.127	151.619	0.00%	14.42%
15.0	1292.497	165.876	317.495	0.00%	30.19%
20.0	989.762	188.090	505.585	0.00%	48.07%
25.0	656.622	172.675	678.261	0.00%	64.49%
30.0	376.936	130.798	809.058	0.00%	76.92%
35.0	194.925	84.211	893.269	0.00%	84.93%
40.0	96.880	48.686	941.955	0.00%	89.56%
45.0	60.706	29.178	971.133	0.00%	92.33%
50.0	46.336	21.629	992.762	0.00%	94.39%
55.0	36.519	18.015	1010.778	0.00%	96.10%
60.0	27.283	14.748	1025.525	0.00%	97.51%
65.0	17.889	10.981	1036.507	0.00%	98.55%
70.0	10.823	7.270	1043.777	0.00%	99.24%
75.0	5.240	4.199	1047.975	0.00%	99.64%
80.0	2.355	2.032	1050.008	0.00%	99.83%
85.0	0.609	0.805	1050.813	0.00%	99.91%
90.0	0.027	0.174	1050.987	0.00%	99.93%
95.0	0.000	0.007	1050.994	0.00%	99.93%
100.0	0.000	0.000	1050.994	0.00%	99.93%
105.0	0.000	0.000	1050.994	0.00%	99.93%
110.0	0.000	0.000	1050.994	0.00%	99.93%
115.0	0.000	0.000	1050.994	0.00%	99.93%
120.0	0.000	0.000	1050.994	0.00%	99.93%
125.0	0.000	0.000	1050.994	0.00%	99.93%
130.0	0.027	0.006	1051	0.00%	99.93%
135.0	0.000	0.005	1051.005	0.00%	99.93%
140.0	0.080	0.015	1051.02	0.00%	99.93%
145.0	0.132	0.035	1051.055	0.00%	99.93%
150.0	0.423	0.082	1051.137	0.00%	99.94%
155.0	0.529	0.121	1051.258	0.00%	99.95%
160.0	0.768	0.136	1051.394	0.00%	99.97%
165.0	0.926	0.140	1051.533	0.00%	99.98%
170.0	1.059	0.118	1051.651	0.00%	99.99%
175.0	1.085	0.077	1051.728	0.00%	100.00%
180.0	1.323	0.029	1051.757	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	809.06	N.A.	76.92%
0-40	941.95	N.A.	89.56%
0-60	1025.53	N.A.	97.51%
0-90	1050.99	N.A.	99.93%
0-120	1050.99	N.A.	99.93%
0-180	1051.76	N.A.	100.00%
60-90	25.46	N.A.	2.42%
90-120	0.01	N.A.	0.00%
90-130	0.01	N.A.	0.00%
90-150	0.15	N.A.	0.01%
90-180	0.74	N.A.	0.07%
0-31.92	841.41	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	151.62
10-20	353.97
20-30	303.47
30-40	132.90
40-50	50.81
50-60	32.76
60-70	18.25
70-80	6.23
80-90	0.98
90-100	0.01
100-110	0.00
110-120	0.00
120-130	0.01
130-140	0.02
140-150	0.12
150-160	0.26
160-170	0.26
170-180	0.08

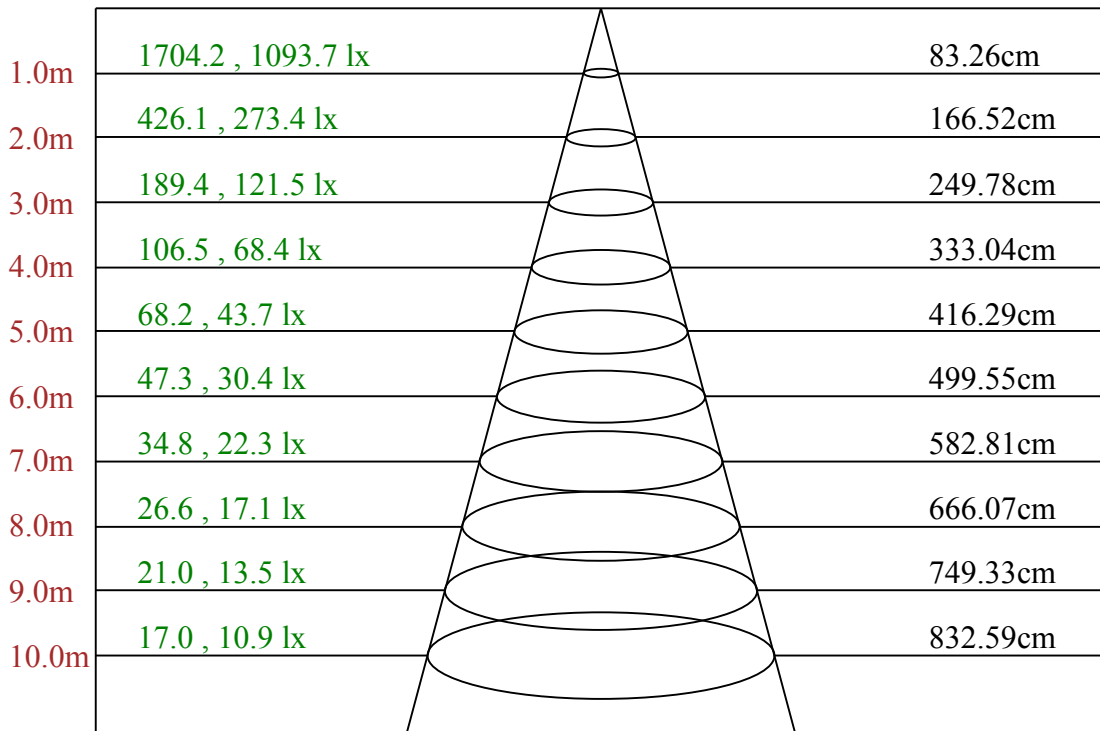


C0/C180: —

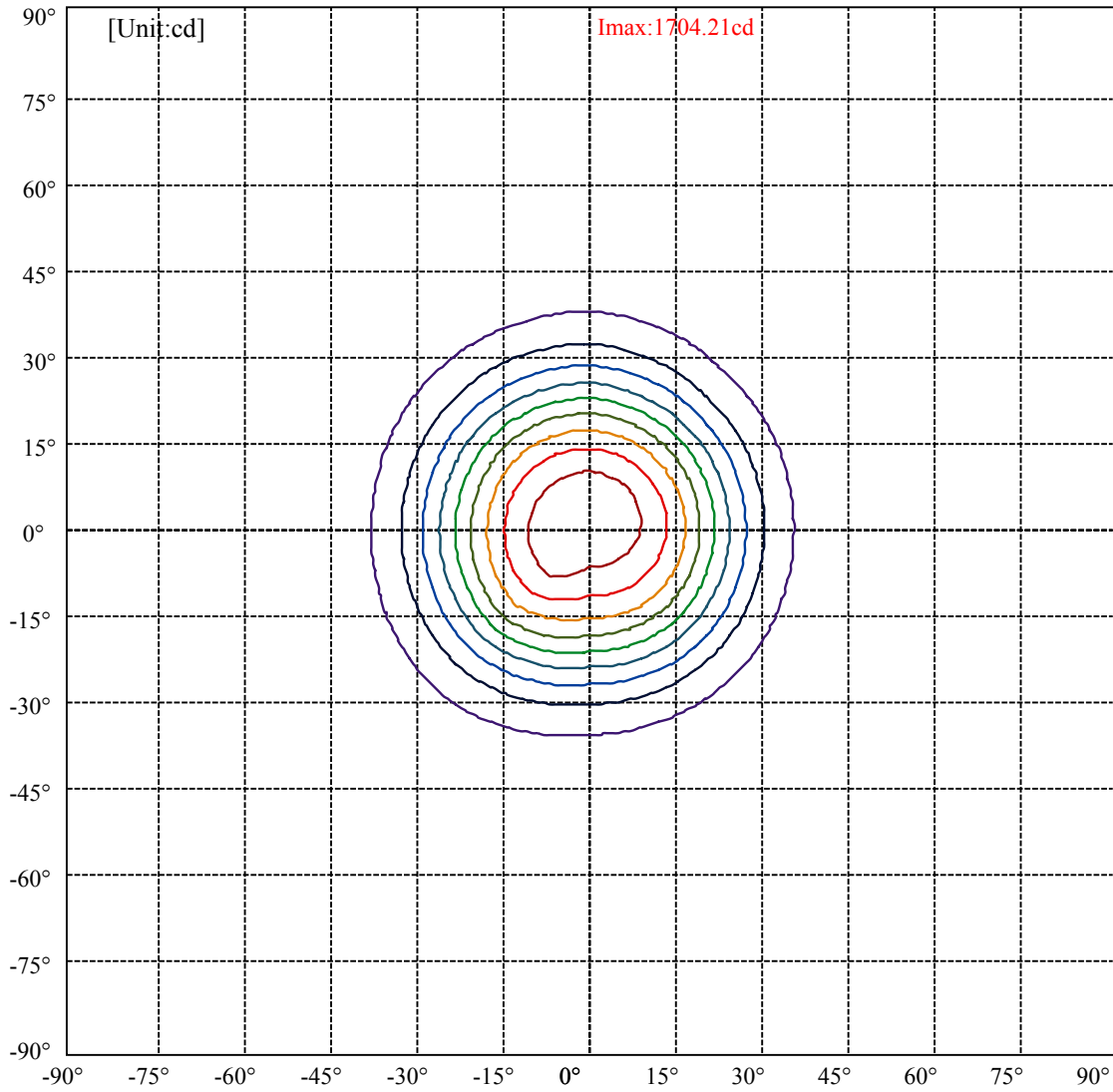
C90/C270: —

Field angle(10%Imax):C0/180Left:37.6 Right:35.1
:C90/270Left:35.5 Right:37.9

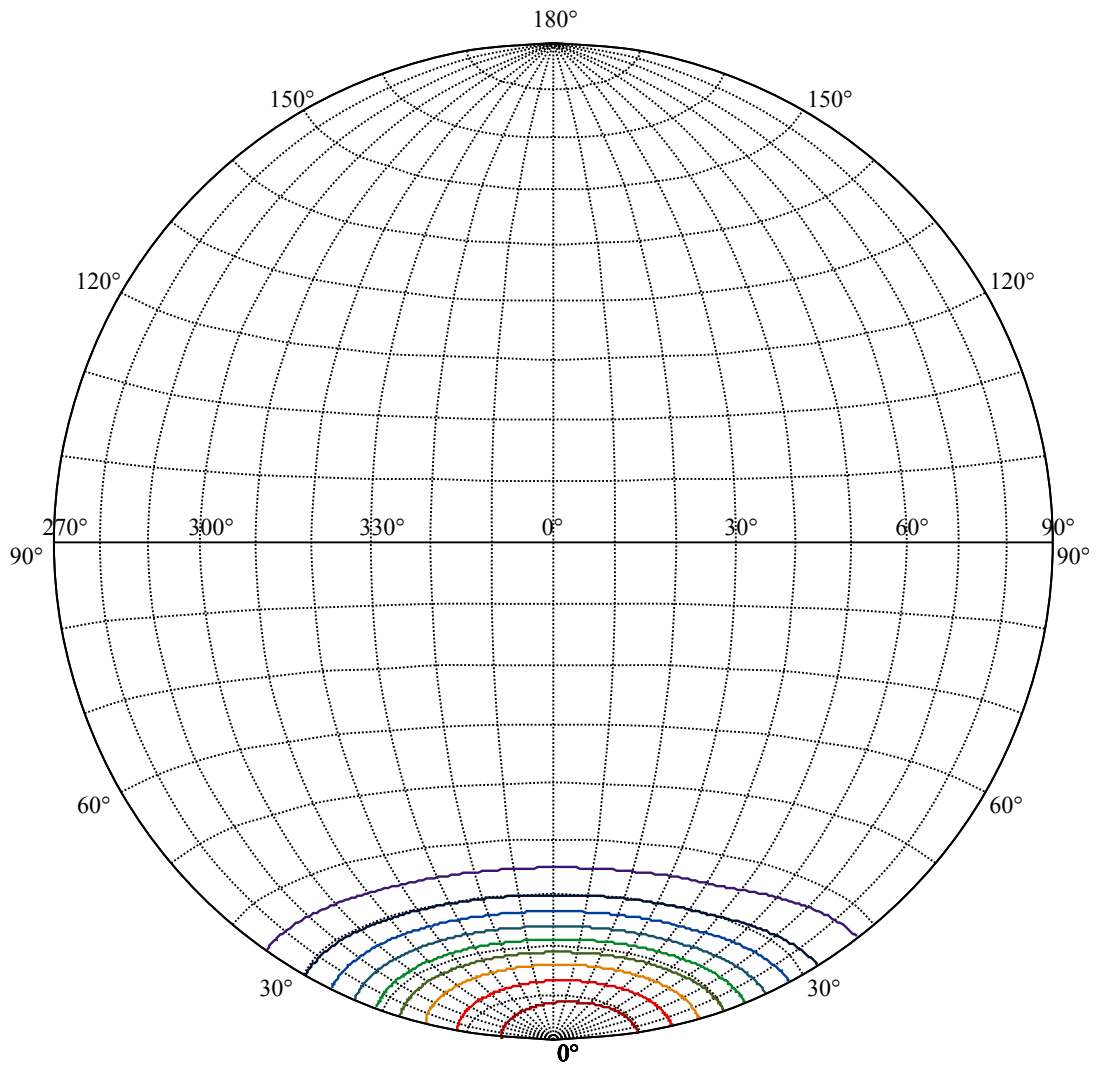
Beam Angle(50%Imax):C0/180Left:23.1 Right:21.5
:C90/270Left:21.2 Right:23.0



Max , Ave Beam angle of C45 plane 45.20



(10%Imax) 169.516	—
(20%Imax) 339.032	—
(30%Imax) 508.549	—
(40%Imax) 678.065	—
(50%Imax) 847.581	—
(60%Imax) 1017.1	—
(70%Imax) 1186.61	—
(80%Imax) 1356.13	—
(90%Imax) 1525.65	—



House

[Unit:cd]

Road

Imax:1704.21

(10%Imax) 170.421	—
(20%Imax) 340.841	—
(30%Imax) 511.261	—
(40%Imax) 681.682	—
(50%Imax) 852.102	—
(60%Imax) 1022.52	—
(70%Imax) 1192.94	—
(80%Imax) 1363.36	—
(90%Imax) 1533.78	—

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	1689.39	1628.63	1489.54	1283.34	942.29	610.76	336.61	170.84	82.14
45.0	1704.21	1654.88	1518.12	1294.98	966.00	608.01	335.34	166.40	83.62
90.0	1640.06	1644.08	1529.34	1307.69	1021.25	694.17	413.88	228.64	116.65
135.0	1658.05	1644.29	1535.27	1337.96	1039.88	708.99	417.90	216.57	105.00
180.0	1689.39	1658.05	1548.18	1341.56	1044.54	726.14	437.59	231.81	111.14
225.0	1704.21	1672.24	1551.78	1349.18	1077.35	721.48	418.75	217.84	111.78
270.0	1640.06	1558.55	1411.84	1186.38	901.64	582.18	331.10	172.54	87.43
315.0	1658.05	1583.75	1446.56	1238.88	925.14	601.24	324.33	154.76	77.27
360.0	1689.39	1628.63	1489.54	1283.34	942.29	610.76	336.61	170.84	82.14
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	55.68	44.03	34.51	24.56	15.45	8.68	4.02	1.69	0.21
45.0	56.74	44.88	34.93	25.19	15.67	9.32	4.45	1.69	0.42
90.0	66.05	50.39	39.80	30.70	19.90	12.07	5.72	2.54	0.42
135.0	64.36	49.33	39.38	30.06	20.32	12.91	5.72	2.75	0.64
180.0	65.63	48.48	38.32	29.64	20.54	12.28	6.35	2.96	0.85
225.0	64.36	47.00	37.05	29.22	20.11	12.49	6.77	3.60	1.48
270.0	57.58	43.19	33.87	24.56	15.67	9.53	4.66	1.91	0.64
315.0	55.25	43.40	34.30	24.35	15.45	9.32	4.23	1.69	0.21
360.0	55.68	44.03	34.51	24.56	15.45	8.68	4.02	1.69	0.21
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	0.21
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	0.21	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	0.00
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	0.21
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	0.21	0.64	0.64	0.85	1.06	1.27	1.27
45.0	0.00	0.21	0.21	0.42	0.64	0.85	1.06	1.48	0.85
90.0	0.00	0.00	0.00	0.42	0.21	0.64	1.06	0.85	1.27
135.0	0.00	0.00	0.00	0.21	0.42	0.64	0.64	1.06	1.06
180.0	0.00	0.00	0.00	0.21	0.42	0.64	0.85	0.85	0.85
225.0	0.00	0.00	0.00	0.21	0.42	0.64	0.85	0.85	0.85
270.0	0.00	0.21	0.42	0.64	0.85	1.06	1.27	1.27	1.27
315.0	0.00	0.21	0.21	0.64	0.64	0.85	0.64	0.85	1.27
360.0	0.00	0.00	0.21	0.64	0.64	0.85	1.06	1.27	1.27
C/ γ (°)	180.0								
0.0	1.27								
45.0	1.27								
90.0	1.48								
135.0	1.27								
180.0	1.27								
225.0	1.27								
270.0	1.48								
315.0	1.27								
360.0	1.27								