



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

LumCAT: LL4RR-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.16

LampCAT:

Current(A): 0.1150

Lamp flux(lm): -1.0

Power (W): 13.62

Number of Lamps: 1

PF: 0.9851

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 912.42, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 67.01

Central intensity(cd): 352.155, Maximum intensity(cd): 352.155

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=105.7

[C90/270]Total=105.6

Field angle(10%Imax): [C0/180]Total=151.3

[C90/270]Total=151.0

Maximum s/h(1/2): C0_180=1.26 C90_270=1.25

Maximum s/h(1/4): C0_180=1.36 C90_270=1.36

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.58%

Down flux rate of LUM(%): 99.42%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 83.114%

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

Date:
Humidity(%): 58%

Operator: Sam

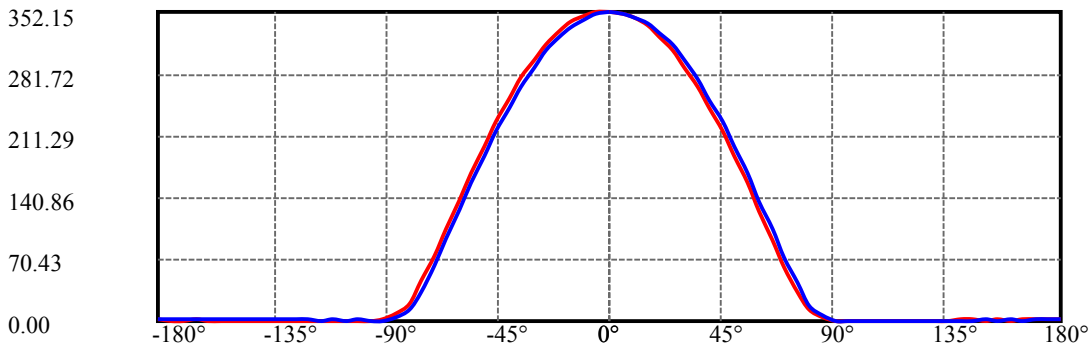
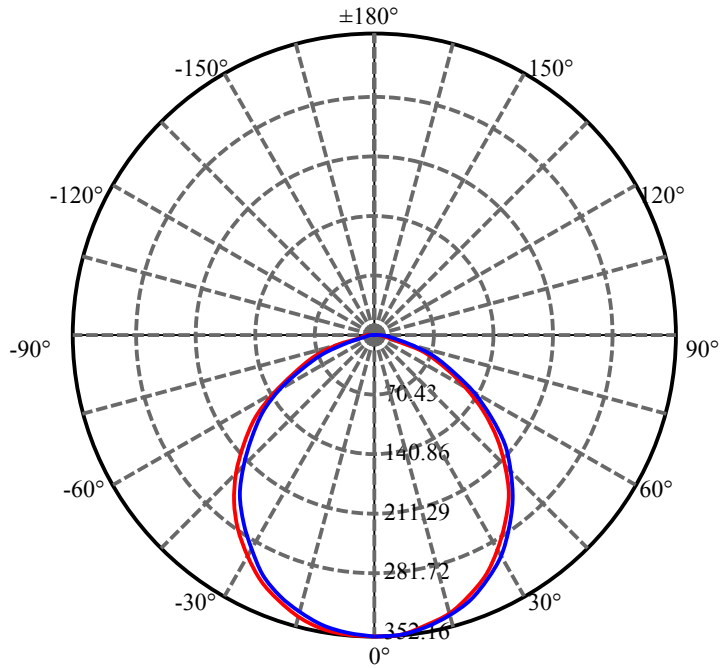
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	352.155	0.000	0	0.00%	0.00%
5.0	350.447	8.399	8.399	0.00%	0.92%
10.0	345.869	24.909	33.309	0.00%	3.65%
15.0	338.009	40.567	73.876	0.00%	8.10%
20.0	326.922	54.800	128.676	0.00%	14.10%
25.0	311.970	67.008	195.684	0.00%	21.45%
30.0	293.367	76.606	272.289	0.00%	29.84%
35.0	272.011	83.256	355.545	0.00%	38.97%
40.0	247.824	86.731	442.276	0.00%	48.47%
45.0	221.520	86.903	529.179	0.00%	58.00%
50.0	193.126	83.785	612.964	0.00%	67.18%
55.0	162.931	77.419	690.383	0.00%	75.66%
60.0	131.097	67.964	758.347	0.00%	83.11%
65.0	99.103	55.962	814.309	0.00%	89.25%
70.0	67.745	42.247	856.556	0.00%	93.88%
75.0	38.318	27.723	884.279	0.00%	96.92%
80.0	16.036	14.544	898.823	0.00%	98.51%
85.0	6.722	6.184	905.006	0.00%	99.19%
90.0	1.032	2.123	907.13	0.00%	99.42%
95.0	0.450	0.406	907.535	0.00%	99.46%
100.0	0.556	0.273	907.809	0.00%	99.49%
105.0	0.556	0.297	908.106	0.00%	99.53%
110.0	0.688	0.325	908.431	0.00%	99.56%
115.0	0.609	0.328	908.76	0.00%	99.60%
120.0	0.820	0.347	909.107	0.00%	99.64%
125.0	0.794	0.373	909.48	0.00%	99.68%
130.0	0.953	0.380	909.86	0.00%	99.72%
135.0	1.006	0.396	910.256	0.00%	99.76%
140.0	1.032	0.377	910.633	0.00%	99.80%
145.0	1.244	0.380	911.013	0.00%	99.85%
150.0	1.191	0.359	911.371	0.00%	99.88%
155.0	1.191	0.301	911.673	0.00%	99.92%
160.0	1.270	0.258	911.931	0.00%	99.95%
165.0	1.270	0.209	912.14	0.00%	99.97%
170.0	1.323	0.154	912.294	0.00%	99.99%
175.0	1.350	0.096	912.39	0.00%	100.00%
180.0	1.411	0.033	912.423	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	272.29	N.A.	29.84%
0-40	442.28	N.A.	48.47%
0-60	758.35	N.A.	83.11%
0-90	907.13	N.A.	99.42%
0-120	909.11	N.A.	99.64%
0-180	912.42	N.A.	100.00%
60-90	148.78	N.A.	16.31%
90-120	1.98	N.A.	0.22%
90-130	2.73	N.A.	0.30%
90-150	4.24	N.A.	0.46%
90-180	5.26	N.A.	0.58%
0-57.91	729.94	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	33.31
10-20	95.37
20-30	143.61
30-40	169.99
40-50	170.69
50-60	145.38
60-70	98.21
70-80	42.27
80-90	8.31
90-100	0.68
100-110	0.62
110-120	0.68
120-130	0.75
130-140	0.77
140-150	0.74
150-160	0.56
160-170	0.36
170-180	0.10

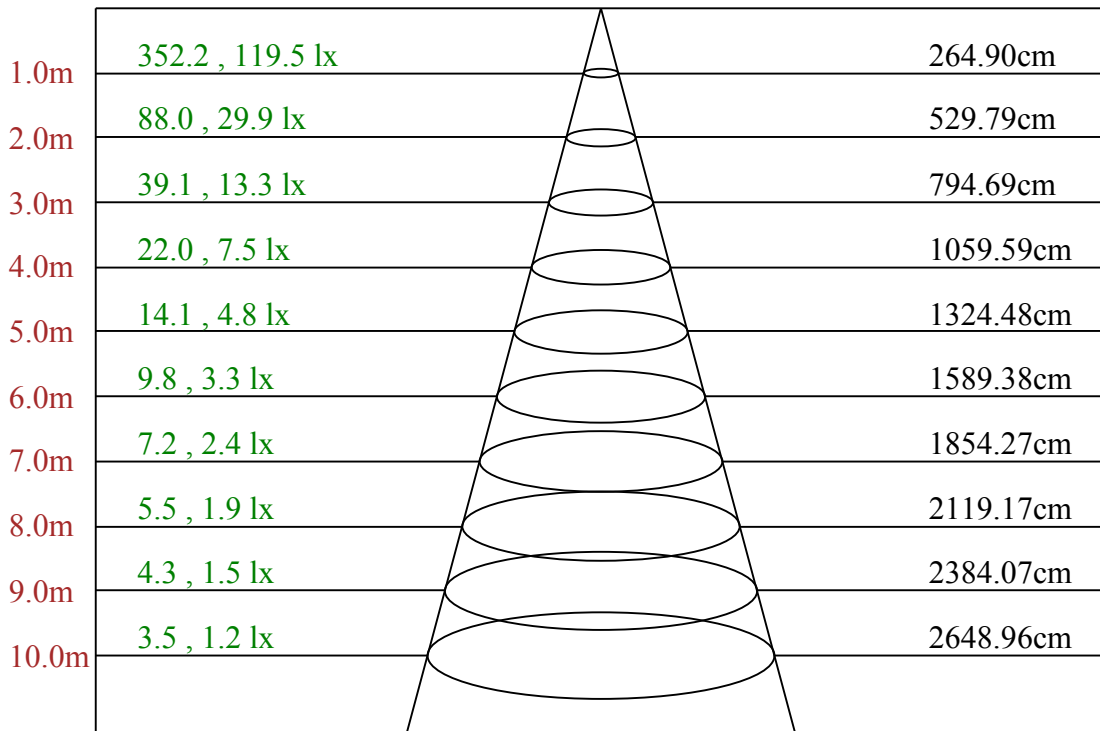


C0/C180: —

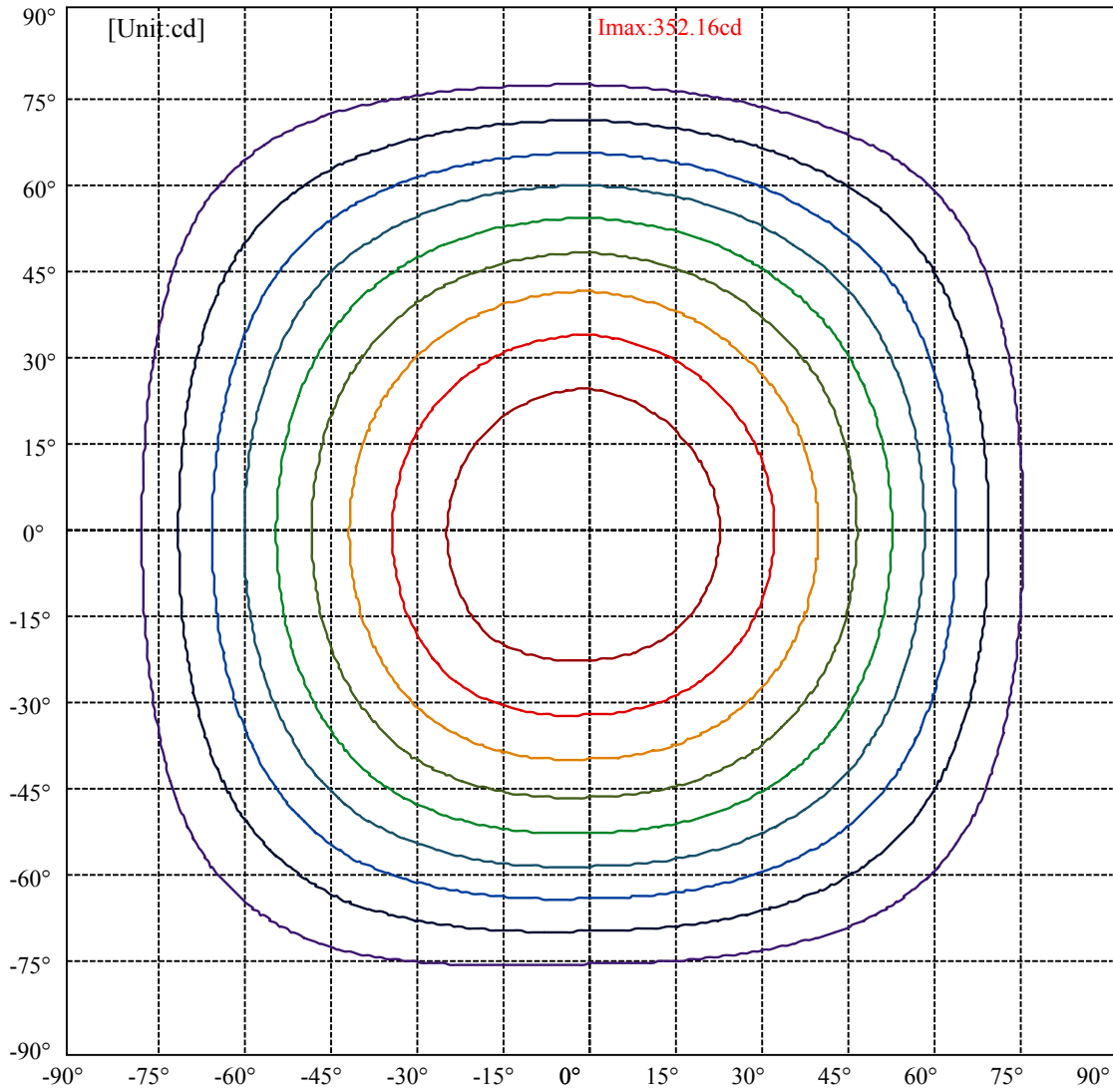
C90/C270: —

Field angle(10%Imax):C0/180Left:76.9 Right:74.4
 :C90/270Left:74.5 Right:76.5

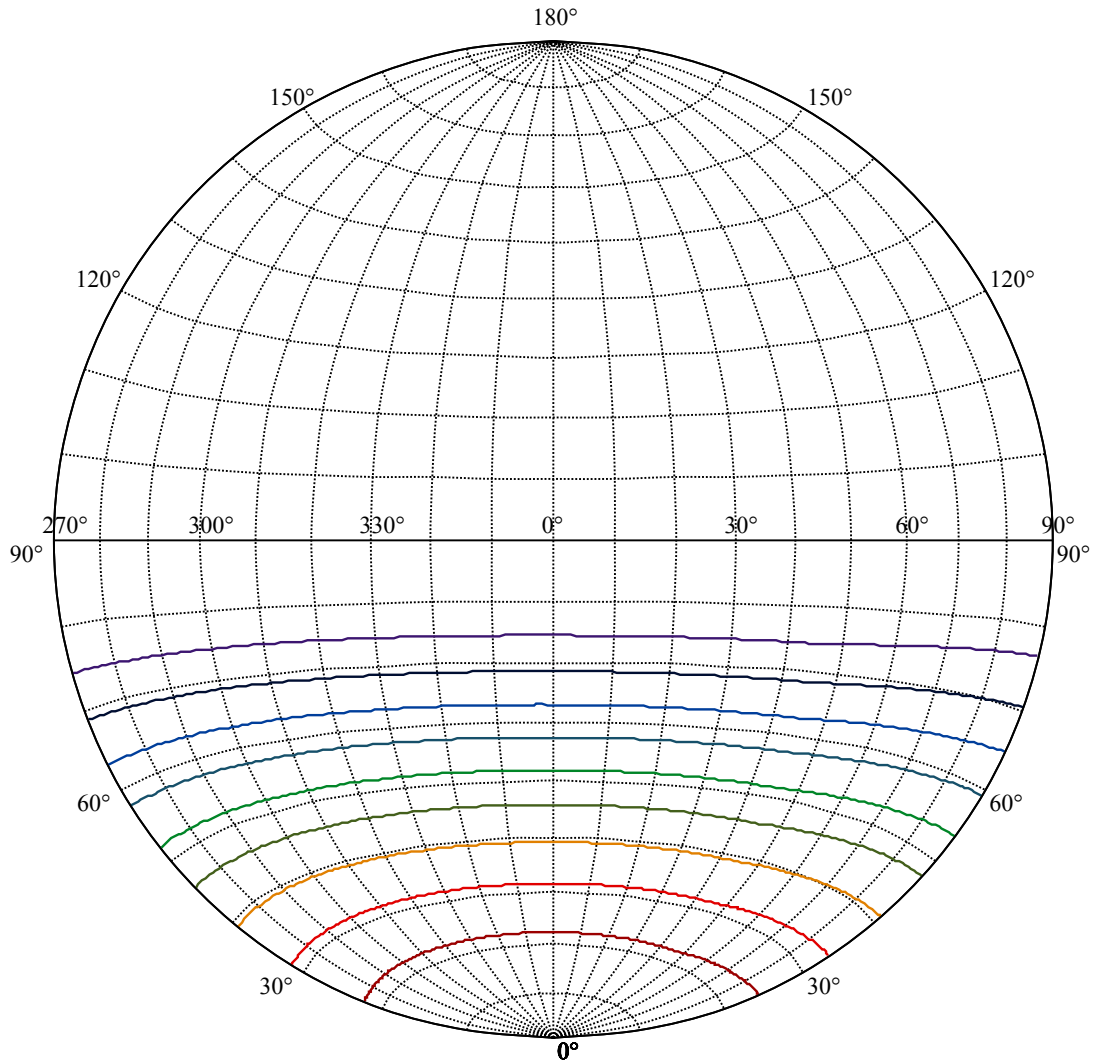
Beam Angle(50%Imax):C0/180Left:53.8 Right:51.9
 :C90/270Left:52.0 Right:53.6



Max , Ave Beam angle of C0 plane 105.89



(10%Imax)	35.2155	—
(20%Imax)	70.431	—
(30%Imax)	105.646	—
(40%Imax)	140.862	—
(50%Imax)	176.077	—
(60%Imax)	211.293	—
(70%Imax)	246.508	—
(80%Imax)	281.724	—
(90%Imax)	316.94	—



House

[Unit:cd]

Road

I_{max}:352.16

(10%I_{max}) 35.2155

(20%I_{max}) 70.431

(30%I_{max}) 105.646

(40%I_{max}) 140.862

(50%I_{max}) 176.077

(60%I_{max}) 211.293

(70%I_{max}) 246.508

(80%I_{max}) 281.724

(90%I_{max}) 316.94



LL4RR-5CCT-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	352.16	350.37	344.86	336.61	324.33	308.87	288.97	267.38	242.82
45.0	352.16	350.37	344.86	336.40	324.12	307.82	289.19	266.75	241.98
90.0	352.16	350.37	346.56	339.36	328.99	315.01	296.81	275.43	251.71
135.0	352.16	350.79	346.77	339.15	329.20	314.80	296.60	275.43	252.14
180.0	352.16	351.21	347.62	340.63	329.83	315.65	297.87	277.33	253.41
225.0	352.16	351.85	348.04	341.05	330.47	316.50	299.35	279.02	254.47
270.0	352.16	349.31	344.02	335.34	323.91	308.24	288.55	267.80	242.82
315.0	352.16	349.31	344.23	335.55	324.54	308.87	289.61	266.96	243.25
360.0	352.16	350.37	344.86	336.61	324.33	308.87	288.97	267.38	242.82

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	216.57	187.78	157.08	124.48	92.94	61.18	31.97	12.70	4.87
45.0	215.30	186.30	156.45	124.27	91.67	60.55	31.54	12.70	4.23
90.0	226.52	198.15	167.88	135.91	104.58	73.04	42.98	17.78	7.62
135.0	225.89	197.73	167.03	135.91	103.95	72.61	44.67	19.48	8.68
180.0	226.95	198.79	169.15	136.97	104.58	74.10	44.88	19.69	8.89
225.0	228.00	200.48	170.21	138.24	106.91	74.94	45.52	20.32	9.32
270.0	216.15	187.57	158.35	126.60	94.42	63.30	32.18	12.49	4.87
315.0	216.78	188.20	157.30	126.39	93.78	62.24	32.81	13.13	5.29
360.0	216.57	187.78	157.08	124.48	92.94	61.18	31.97	12.70	4.87

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.85	0.64	0.64	0.64	0.64	0.64	1.06	1.06	1.06
45.0	0.64	0.64	1.06	0.85	1.06	0.85	0.85	0.64	0.85
90.0	1.06	0.21	0.21	0.21	0.64	0.42	0.64	0.85	0.85
135.0	1.06	0.21	0.21	0.21	0.21	0.42	0.42	0.64	0.64
180.0	1.27	0.21	0.21	0.21	0.42	0.21	0.64	0.42	0.64
225.0	1.69	0.21	0.21	0.42	0.42	0.42	0.42	0.42	0.85
270.0	1.06	0.85	1.27	1.06	1.27	1.06	1.48	1.48	1.48
315.0	0.64	0.64	0.64	0.85	0.85	0.85	1.06	0.85	1.27
360.0	0.85	0.64	0.64	0.64	0.64	0.64	1.06	1.06	1.06

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.06	1.27	1.48	1.06	1.27	1.06	1.27	1.27	1.27
45.0	1.06	1.27	1.27	1.27	1.06	1.27	1.27	1.27	1.27
90.0	0.85	0.85	1.06	1.27	1.06	1.27	1.06	1.27	1.27
135.0	0.85	0.64	1.06	1.06	1.06	1.27	1.27	1.27	1.27
180.0	0.64	0.85	1.06	1.06	1.06	1.06	1.27	1.06	1.06
225.0	0.85	0.85	1.06	0.85	1.06	1.27	1.27	1.27	1.27
270.0	1.48	1.48	1.69	1.69	1.69	1.91	1.69	1.91	1.91
315.0	1.27	1.06	1.27	1.27	1.27	1.06	1.06	1.27	1.48
360.0	1.06	1.27	1.48	1.06	1.27	1.06	1.27	1.27	1.27

C/γ(°)	180.0
0.0	1.41
45.0	1.41
90.0	1.41
135.0	1.41
180.0	1.41
225.0	1.41
270.0	1.41
315.0	1.41
360.0	1.41