



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

LumCAT: LL4RR-5CCT-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.16

LampCAT:

Current(A): 0.1180

Lamp flux(lm): -1.0

Power (W): 13.91

Number of Lamps: 1

PF: 0.9856

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 863.81, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 62.10

Central intensity(cd): 333.079, Maximum intensity(cd): 335.760

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=105.4

[C90/270]Total=105.9

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

[C90/270]Total=151.2

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

Maximum s/h(1/4): C0_180=1.35 C90_270=1.36

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.62%

Down flux rate of LUM(%): 99.38%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 83.063%

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

Date:
Humidity(%): 58%

Operator: Sam

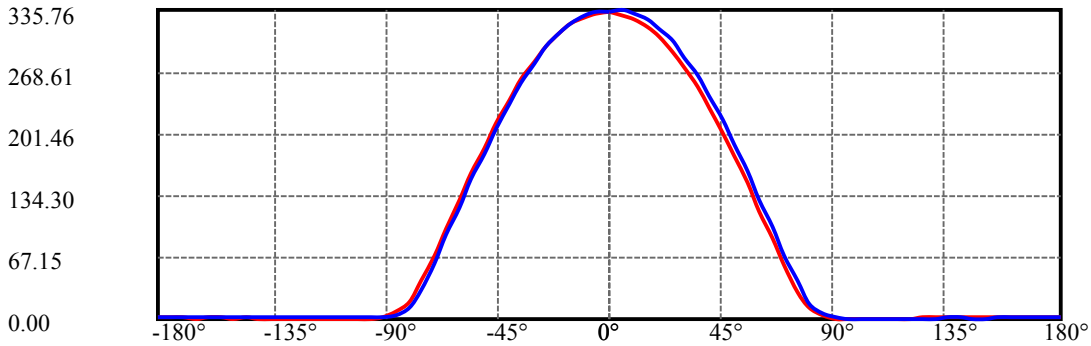
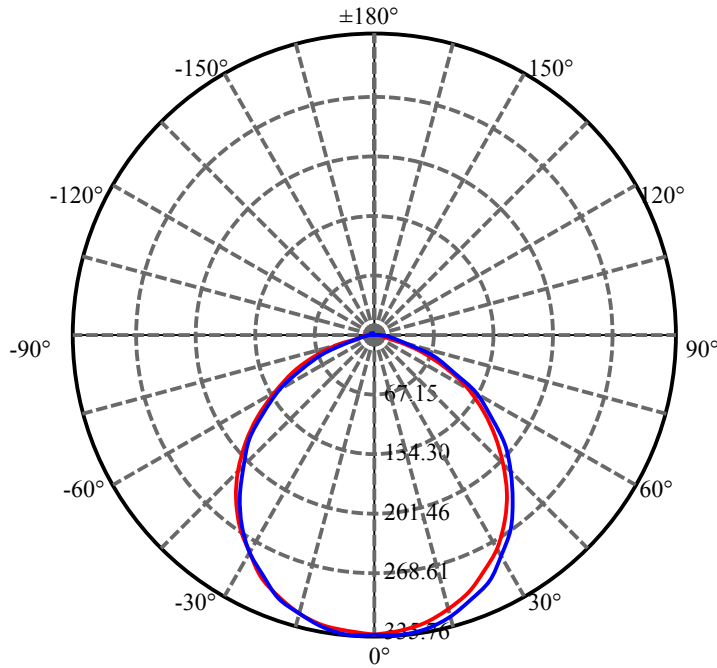
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	333.079	0.000	0	0.00%	0.00%
5.0	331.711	7.947	7.947	0.00%	0.92%
10.0	327.398	23.578	31.526	0.00%	3.65%
15.0	319.936	38.399	69.925	0.00%	8.10%
20.0	309.324	51.860	121.785	0.00%	14.10%
25.0	295.193	63.403	185.188	0.00%	21.44%
30.0	277.860	72.520	257.708	0.00%	29.83%
35.0	257.298	78.806	336.514	0.00%	38.96%
40.0	234.566	82.064	418.577	0.00%	48.46%
45.0	209.295	82.184	500.762	0.00%	57.97%
50.0	182.620	79.192	579.954	0.00%	67.14%
55.0	154.252	73.247	653.201	0.00%	75.62%
60.0	123.952	64.306	717.507	0.00%	83.06%
65.0	93.811	52.938	770.445	0.00%	89.19%
70.0	64.146	39.996	810.441	0.00%	93.82%
75.0	36.413	26.284	836.726	0.00%	96.86%
80.0	15.322	13.843	850.568	0.00%	98.47%
85.0	6.378	5.896	856.465	0.00%	99.15%
90.0	0.926	2.000	858.465	0.00%	99.38%
95.0	0.635	0.428	858.892	0.00%	99.43%
100.0	0.503	0.309	859.201	0.00%	99.47%
105.0	0.635	0.304	859.506	0.00%	99.50%
110.0	0.688	0.346	859.852	0.00%	99.54%
115.0	0.662	0.342	860.193	0.00%	99.58%
120.0	0.794	0.354	860.547	0.00%	99.62%
125.0	0.794	0.367	860.914	0.00%	99.67%
130.0	0.926	0.374	861.288	0.00%	99.71%
135.0	1.032	0.396	861.684	0.00%	99.75%
140.0	1.138	0.402	862.086	0.00%	99.80%
145.0	1.059	0.367	862.452	0.00%	99.84%
150.0	1.112	0.320	862.772	0.00%	99.88%
155.0	1.218	0.295	863.067	0.00%	99.91%
160.0	1.244	0.258	863.325	0.00%	99.94%
165.0	1.297	0.209	863.534	0.00%	99.97%
170.0	1.270	0.152	863.686	0.00%	99.99%
175.0	1.244	0.090	863.776	0.00%	100.00%
180.0	1.294	0.030	863.807	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	257.71	N.A.	29.83%
0-40	418.58	N.A.	48.46%
0-60	717.51	N.A.	83.06%
0-90	858.46	N.A.	99.38%
0-120	860.55	N.A.	99.62%
0-180	863.81	N.A.	100.00%
60-90	140.96	N.A.	16.32%
90-120	2.08	N.A.	0.24%
90-130	2.82	N.A.	0.33%
90-150	4.31	N.A.	0.50%
90-180	5.31	N.A.	0.61%
0-57.94	691.05	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	31.53
10-20	90.26
20-30	135.92
30-40	160.87
40-50	161.38
50-60	137.55
60-70	92.93
70-80	40.13
80-90	7.90
90-100	0.74
100-110	0.65
110-120	0.70
120-130	0.74
130-140	0.80
140-150	0.69
150-160	0.55
160-170	0.36
170-180	0.09

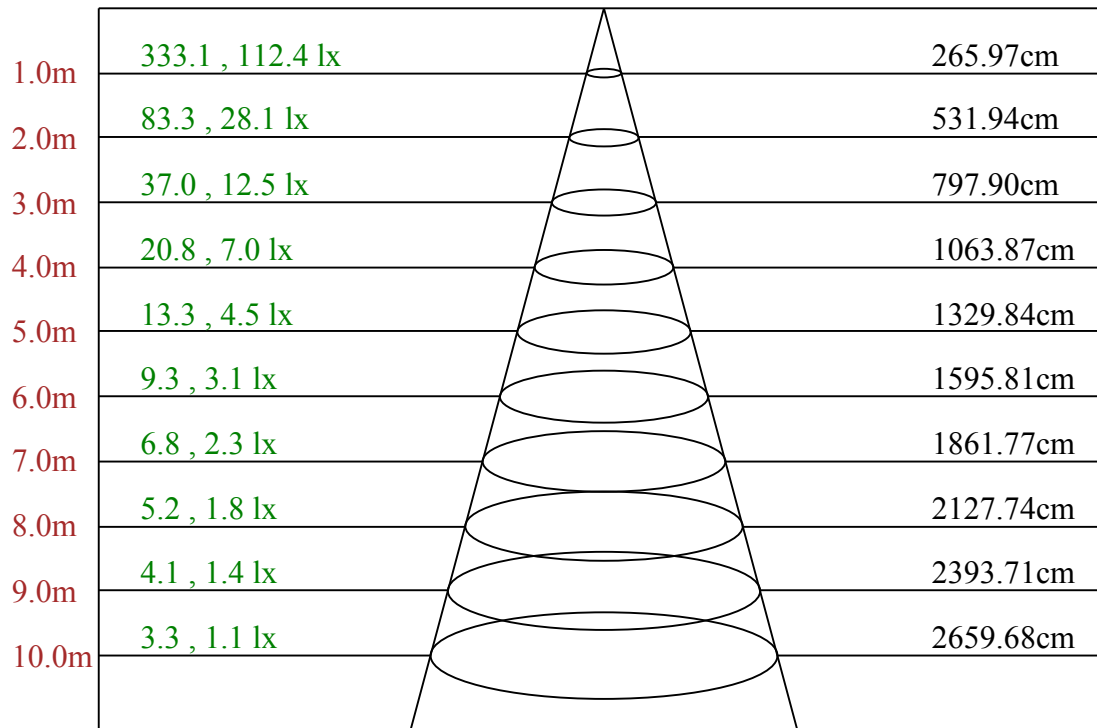


C0/C180: —

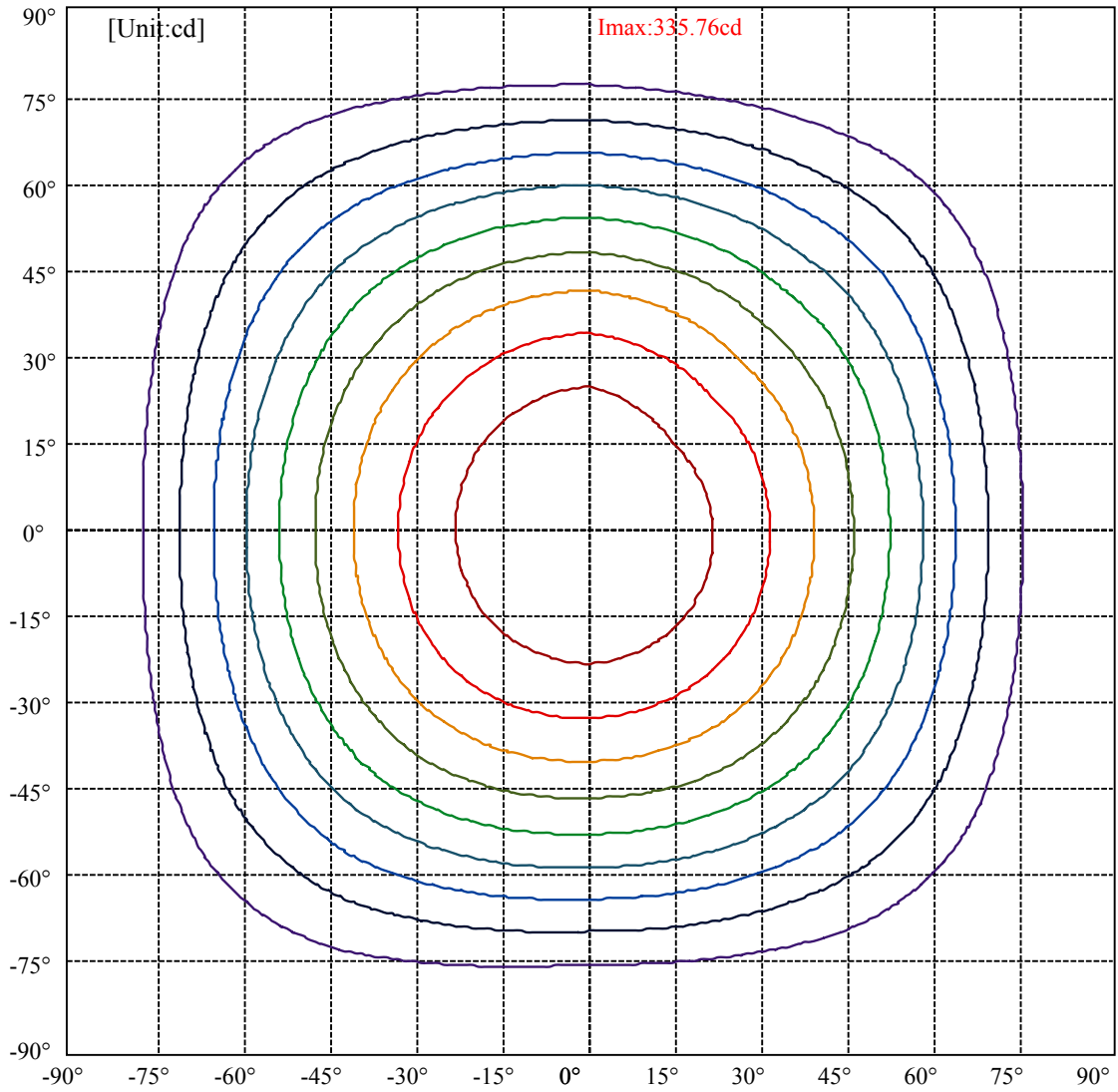
C90/C270: —










Field angle(10%Imax):C0/180Left:76.9 Right:74.4
:C90/270Left:74.7 Right:76.5

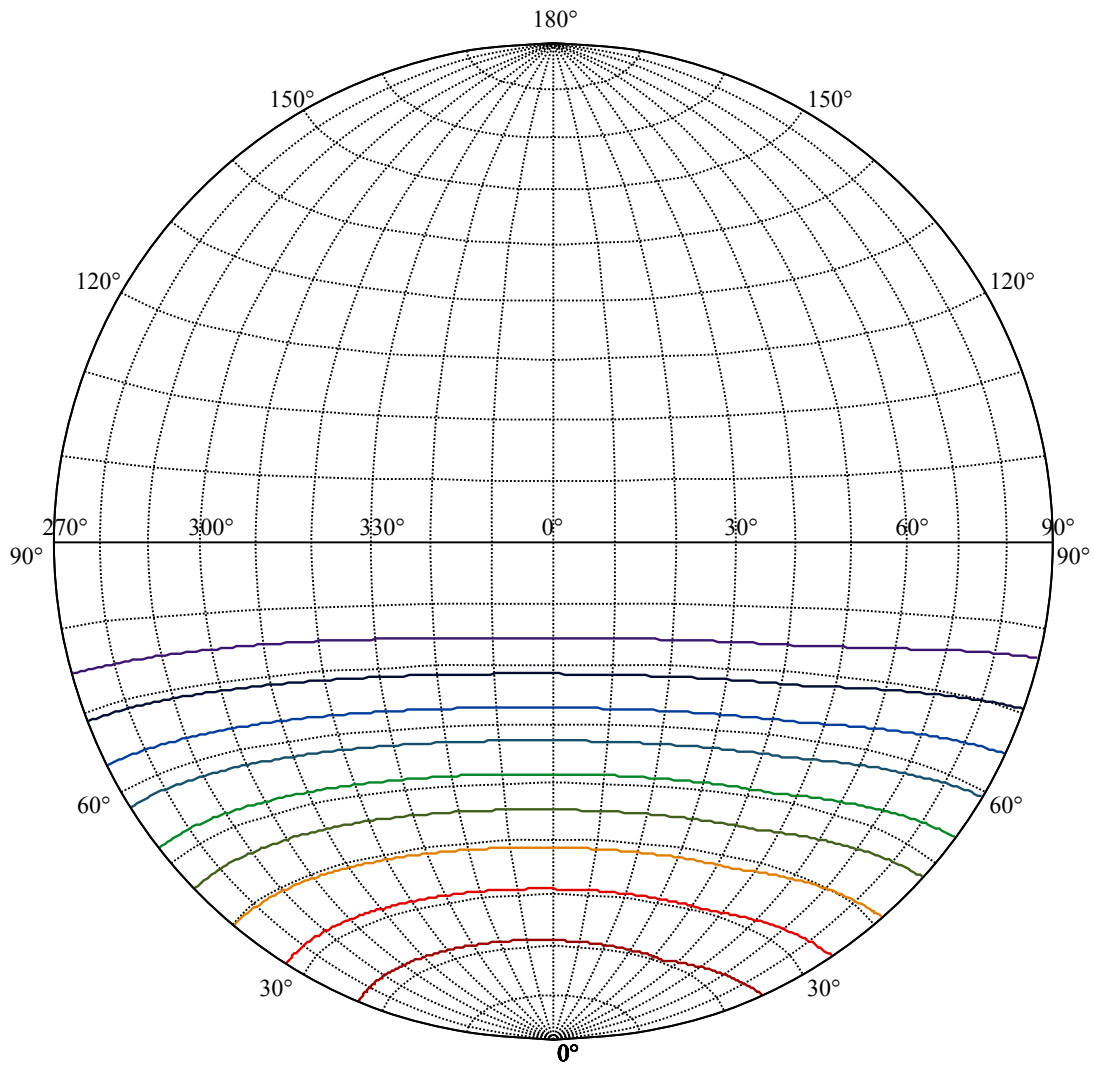
Beam Angle(50%Imax):C0/180Left:53.6 Right:51.8
:C90/270Left:52.2 Right:53.7



Max , Ave Beam angle of C90 plane 106.12



(10%Imax)	33.576	
(20%Imax)	67.152	
(30%Imax)	100.728	
(40%Imax)	134.304	
(50%Imax)	167.88	
(60%Imax)	201.456	
(70%Imax)	235.032	
(80%Imax)	268.608	
(90%Imax)	302.184	



House

[Unit:cd]

Road

I_{max}:335.76

(10%I _{max}) 33.576	—
(20%I _{max}) 67.152	—
(30%I _{max}) 100.728	—
(40%I _{max}) 134.304	—
(50%I _{max}) 167.88	—
(60%I _{max}) 201.456	—
(70%I _{max}) 235.032	—
(80%I _{max}) 268.608	—
(90%I _{max}) 302.184	—

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	333.08	329.83	324.75	316.71	305.70	290.88	272.89	251.93	228.64
45.0	333.08	327.93	323.06	315.44	303.58	288.55	270.98	249.81	226.52
90.0	333.08	335.76	332.16	324.96	314.80	301.46	284.11	263.99	240.92
135.0	333.08	332.80	328.99	322.00	311.63	298.08	281.14	260.82	238.80
180.0	333.08	331.31	327.50	320.31	310.36	297.02	280.08	260.39	238.17
225.0	333.08	329.62	326.02	319.46	309.93	296.38	280.29	260.61	238.38
270.0	333.08	334.70	330.04	322.00	310.78	295.96	278.39	257.22	233.72
315.0	333.08	331.74	326.66	318.61	307.82	293.21	275.00	253.62	231.39
360.0	333.08	329.83	324.75	316.71	305.70	290.88	272.89	251.93	228.64
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	203.23	176.98	148.19	117.50	87.65	57.80	30.06	11.86	4.66
45.0	201.54	174.23	146.08	115.80	85.53	56.31	29.22	11.64	4.23
90.0	215.94	189.47	160.26	129.77	99.92	69.86	40.86	17.15	7.20
135.0	213.82	186.72	158.99	128.72	98.23	68.80	41.92	18.63	8.05
180.0	213.40	186.51	158.78	128.50	98.44	69.65	42.13	18.63	8.26
225.0	213.61	187.57	159.41	129.35	100.14	70.29	42.98	19.48	8.68
270.0	206.62	180.37	152.43	121.73	90.82	60.76	31.54	12.49	4.87
315.0	206.20	179.10	149.89	120.25	89.76	59.70	32.60	12.70	5.08
360.0	203.23	176.98	148.19	117.50	87.65	57.80	30.06	11.86	4.66
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.85	0.64	0.64	0.64	0.64	0.85	1.06	1.06
45.0	0.64	0.85	0.64	0.85	0.85	0.85	1.06	1.06	0.85
90.0	1.06	0.42	0.42	0.21	0.64	0.42	0.64	0.42	0.85
135.0	0.85	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.64
180.0	1.06	0.21	0.21	0.42	0.42	0.21	0.64	0.64	0.64
225.0	1.27	0.42	0.21	0.64	0.42	0.42	0.42	0.42	0.64
270.0	1.06	1.06	1.06	1.27	1.27	1.48	1.48	1.27	1.48
315.0	0.85	0.85	0.64	0.85	0.85	0.85	0.85	1.06	1.27
360.0	0.64	0.85	0.64	0.64	0.64	0.64	0.85	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	1.06	1.06	1.06	1.27	1.27	1.27	1.27	1.27
45.0	1.06	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.06
90.0	1.06	1.06	0.85	0.85	1.06	1.27	1.48	1.27	1.27
135.0	0.64	0.85	0.85	0.85	1.06	1.06	1.06	1.06	1.27
180.0	0.85	0.85	1.06	0.64	1.06	1.06	0.85	1.27	1.06
225.0	0.64	0.85	0.64	1.06	1.06	1.06	1.06	1.06	0.85
270.0	1.48	1.91	1.69	1.91	1.91	1.91	1.91	1.91	1.91
315.0	1.48	1.27	1.06	1.27	1.06	1.06	1.48	1.06	1.27
360.0	1.06	1.06	1.06	1.06	1.27	1.27	1.27	1.27	1.27
C/ γ (°)	180.0								
0.0	1.29								
45.0	1.29								
90.0	1.29								
135.0	1.29								
180.0	1.29								
225.0	1.29								
270.0	1.29								
315.0	1.29								
360.0	1.29								