



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

Tel:0755-21038430

Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

Client:

LumCAT: LL4RR-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.17

LampCAT:

Current(A): 0.1130

Lamp flux(lm): -1.0

Power (W): 13.33

Number of Lamps: 1

PF: 0.9844

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 959.34, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 71.95

Central intensity(cd): 370.550, Maximum intensity(cd): 370.550

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=105.6

[C90/270]Total=105.6

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

[C90/270]Total=150.9

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

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

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.52%

Down flux rate of LUM(%): 99.48%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 83.201%

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

Date:
Humidity(%): 58%

Operator: Sam

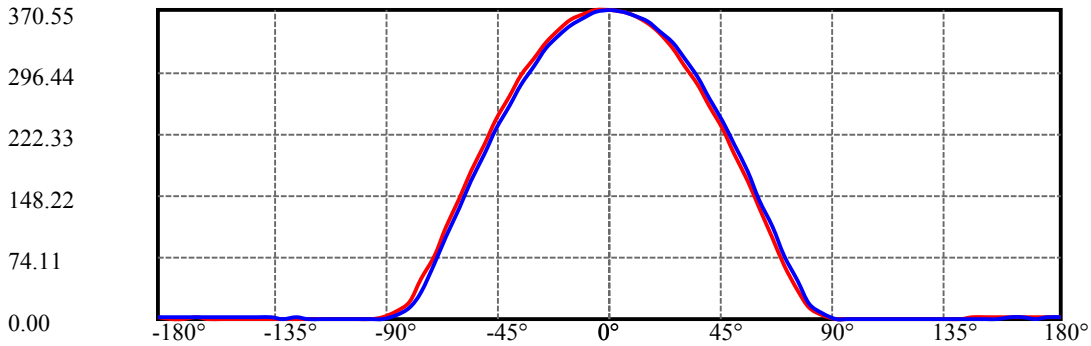
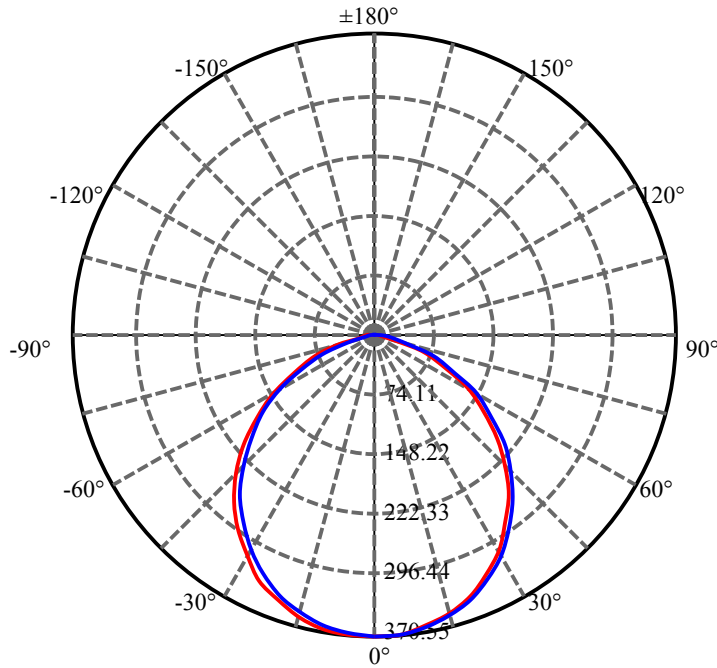
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	370.550	0.000	0	0.00%	0.00%
5.0	368.865	8.839	8.839	0.00%	0.92%
10.0	363.970	26.216	35.055	0.00%	3.65%
15.0	355.740	42.693	77.748	0.00%	8.10%
20.0	343.964	57.665	135.413	0.00%	14.12%
25.0	328.324	70.511	205.924	0.00%	21.47%
30.0	308.795	80.628	286.552	0.00%	29.87%
35.0	286.354	87.640	374.192	0.00%	39.01%
40.0	260.738	91.278	465.47	0.00%	48.52%
45.0	233.058	91.430	556.9	0.00%	58.05%
50.0	203.446	88.202	645.102	0.00%	67.24%
55.0	171.400	81.504	726.606	0.00%	75.74%
60.0	138.268	71.579	798.185	0.00%	83.20%
65.0	104.078	58.915	857.1	0.00%	89.34%
70.0	71.132	44.364	901.464	0.00%	93.97%
75.0	40.171	29.093	930.557	0.00%	97.00%
80.0	16.645	15.202	945.759	0.00%	98.58%
85.0	6.960	6.414	952.173	0.00%	99.25%
90.0	1.006	2.181	954.354	0.00%	99.48%
95.0	0.476	0.406	954.76	0.00%	99.52%
100.0	0.477	0.259	955.019	0.00%	99.55%
105.0	0.529	0.269	955.288	0.00%	99.58%
110.0	0.582	0.291	955.578	0.00%	99.61%
115.0	0.662	0.315	955.893	0.00%	99.64%
120.0	0.767	0.347	956.241	0.00%	99.68%
125.0	0.794	0.361	956.602	0.00%	99.71%
130.0	0.900	0.368	956.97	0.00%	99.75%
135.0	0.873	0.358	957.328	0.00%	99.79%
140.0	0.926	0.333	957.662	0.00%	99.82%
145.0	1.112	0.340	958.002	0.00%	99.86%
150.0	1.165	0.335	958.337	0.00%	99.90%
155.0	1.085	0.285	958.621	0.00%	99.92%
160.0	1.297	0.250	958.871	0.00%	99.95%
165.0	1.217	0.207	959.078	0.00%	99.97%
170.0	1.218	0.144	959.223	0.00%	99.99%
175.0	1.244	0.088	959.311	0.00%	100.00%
180.0	1.364	0.031	959.342	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	286.55	N.A.	29.87%
0-40	465.47	N.A.	48.52%
0-60	798.18	N.A.	83.20%
0-90	954.35	N.A.	99.48%
0-120	956.24	N.A.	99.68%
0-180	959.34	N.A.	100.00%
60-90	156.17	N.A.	16.28%
90-120	1.89	N.A.	0.20%
90-130	2.62	N.A.	0.27%
90-150	3.98	N.A.	0.42%
90-180	4.96	N.A.	0.52%
0-57.85	767.47	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	35.06
10-20	100.36
20-30	151.14
30-40	178.92
40-50	179.63
50-60	153.08
60-70	103.28
70-80	44.30
80-90	8.59
90-100	0.66
100-110	0.56
110-120	0.66
120-130	0.73
130-140	0.69
140-150	0.68
150-160	0.53
160-170	0.35
170-180	0.09

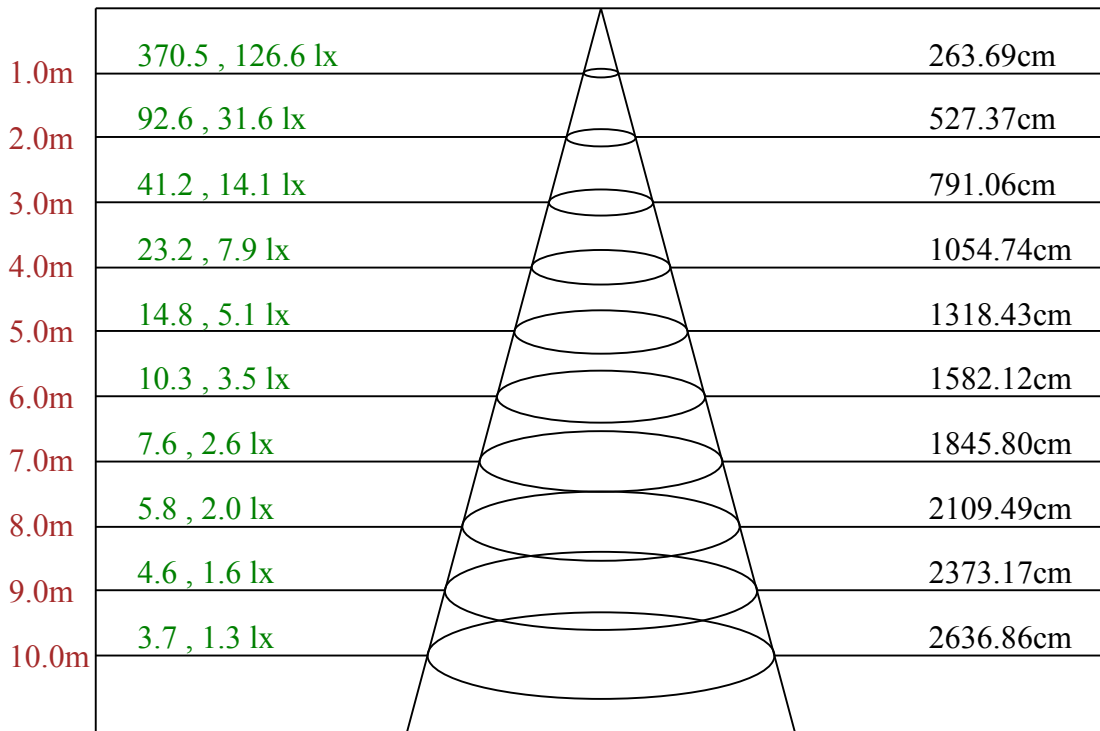


C0/C180: —

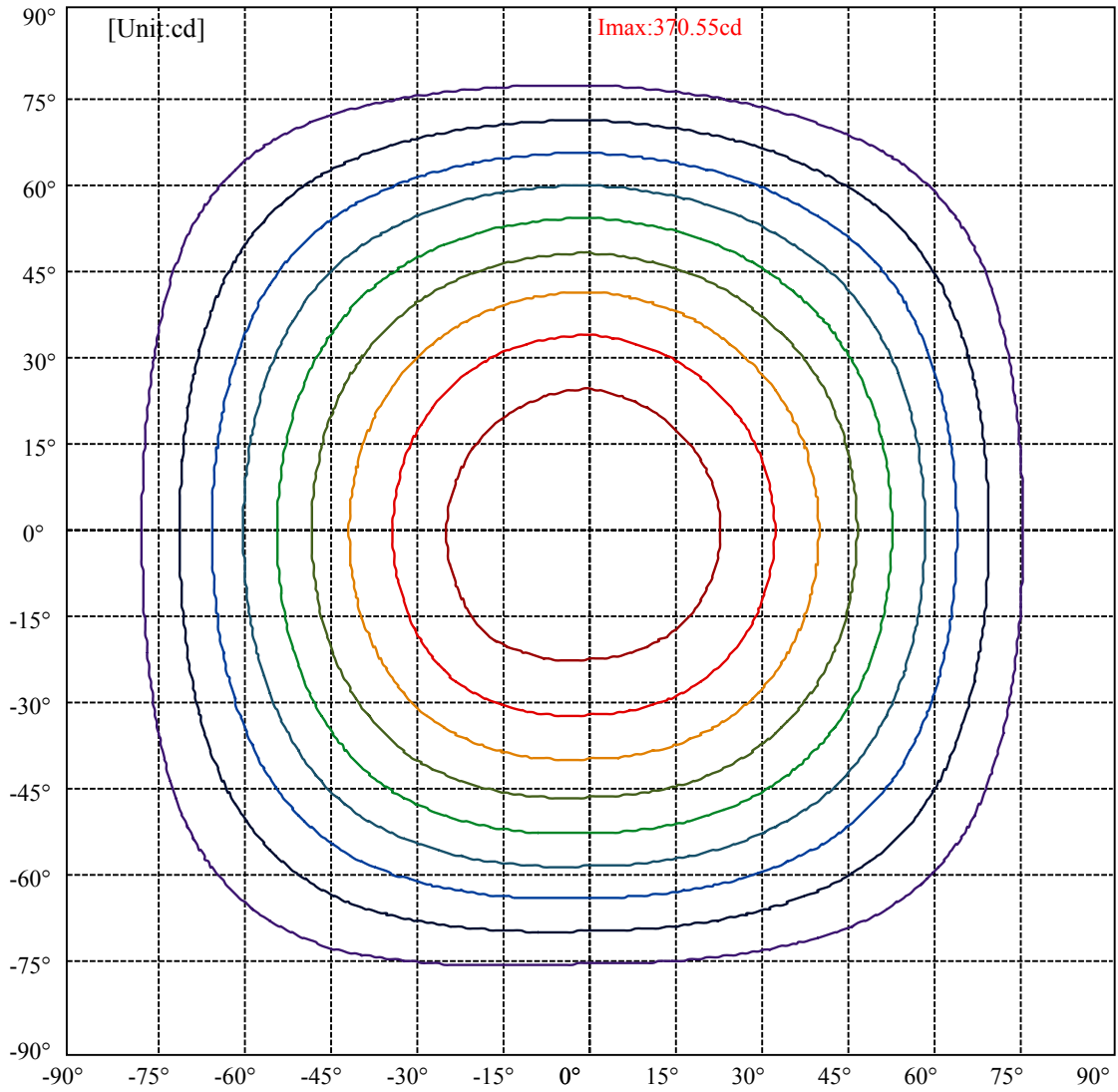
C90/C270: —

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

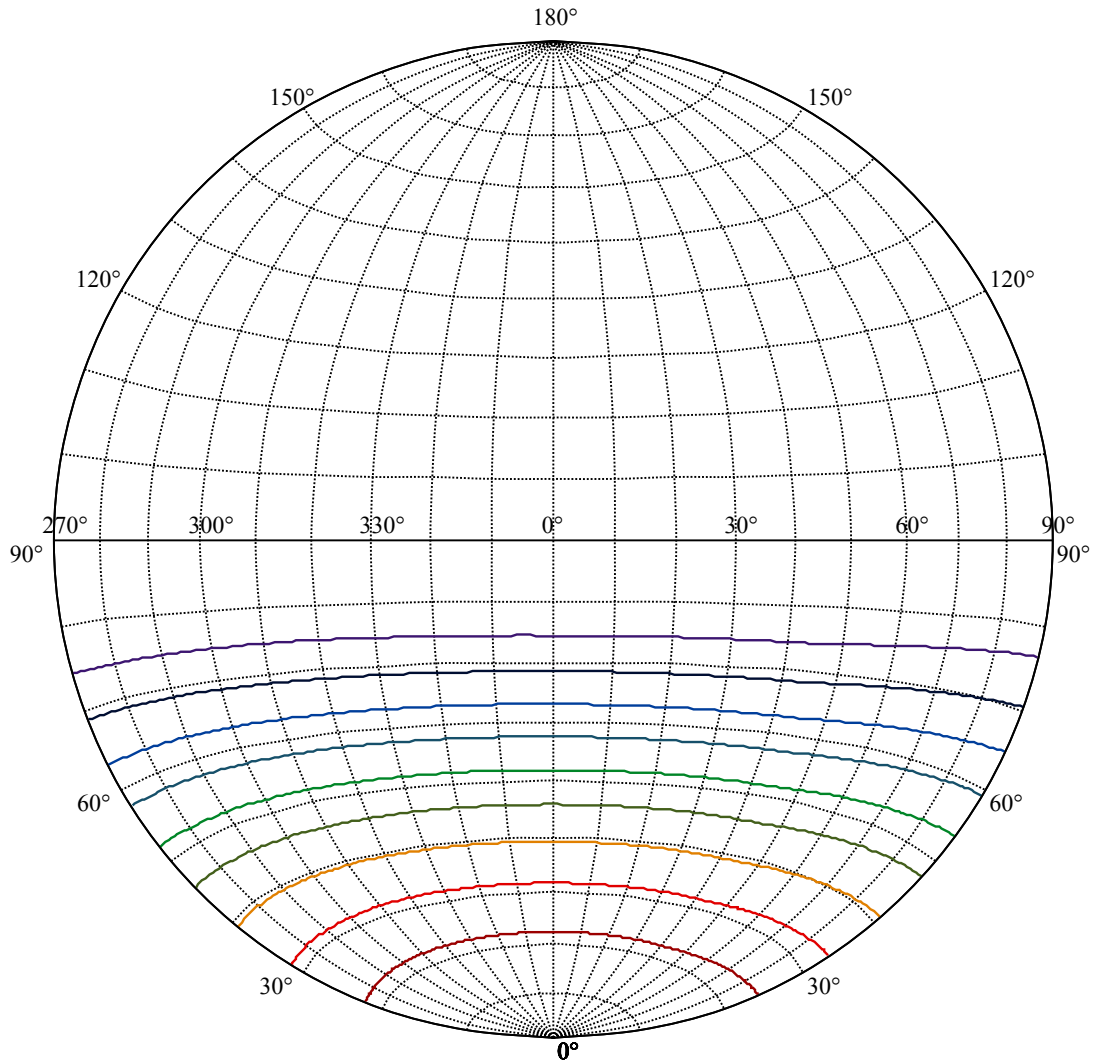
Beam Angle(50%Imax):C0/180Left:53.7 Right:51.9
:C90/270Left:52.0 Right:53.6



Max , Ave Beam angle of C0 plane 105.64



(10%Imax) 37.055	—
(20%Imax) 74.11	—
(30%Imax) 111.165	—
(40%Imax) 148.22	—
(50%Imax) 185.275	—
(60%Imax) 222.33	—
(70%Imax) 259.385	—
(80%Imax) 296.44	—
(90%Imax) 333.495	—



House

[Unit:cd]

Road

I_{max}:370.55

(10%I _{max}) 37.055	—
(20%I _{max}) 74.11	—
(30%I _{max}) 111.165	—
(40%I _{max}) 148.22	—
(50%I _{max}) 185.275	—
(60%I _{max}) 222.33	—
(70%I _{max}) 259.385	—
(80%I _{max}) 296.44	—
(90%I _{max}) 333.495	—

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	370.55	368.57	363.07	354.18	341.90	325.18	304.64	281.56	256.16
45.0	370.55	368.79	363.28	354.18	341.26	324.96	304.22	280.93	254.47
90.0	370.55	368.57	364.34	356.72	345.71	331.31	312.26	289.61	264.42
135.0	370.55	369.00	364.76	357.14	345.71	330.89	312.47	290.88	264.42
180.0	370.55	370.27	366.03	357.99	347.40	332.37	313.53	291.30	266.75
225.0	370.55	370.48	366.46	359.26	348.04	333.22	314.59	293.21	268.02
270.0	370.55	367.30	361.59	352.91	340.42	323.91	304.01	281.35	255.53
315.0	370.55	367.94	362.22	353.54	341.26	324.75	304.64	281.99	256.16
360.0	370.55	368.57	363.07	354.18	341.90	325.18	304.64	281.56	256.16
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	228.00	197.73	165.13	132.53	97.81	64.36	33.45	13.13	5.29
45.0	227.16	196.88	164.92	130.62	96.11	63.30	33.03	12.70	4.66
90.0	237.11	208.53	176.35	143.11	110.09	77.06	44.88	18.21	8.05
135.0	237.95	207.89	175.71	143.53	109.24	76.21	45.94	20.32	9.10
180.0	238.80	209.16	176.77	145.23	110.30	76.85	47.21	20.75	9.32
225.0	240.07	211.49	179.31	145.44	111.57	79.39	48.48	21.59	9.32
270.0	227.37	198.15	166.19	132.95	98.87	66.69	33.24	12.91	4.66
315.0	228.00	197.73	166.82	132.74	98.65	65.20	35.14	13.55	5.29
360.0	228.00	197.73	165.13	132.53	97.81	64.36	33.45	13.13	5.29
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	1.06	0.85	1.06	0.85	1.06
45.0	0.64	0.64	0.64	0.64	0.85	0.85	1.06	1.06	1.06
90.0	0.85	0.21	0.21	0.42	0.21	0.21	0.42	0.64	0.64
135.0	1.27	0.21	0.21	0.00	0.42	0.42	0.42	0.64	0.85
180.0	1.27	0.21	0.21	0.21	0.42	0.42	0.42	0.42	0.64
225.0	1.48	0.42	0.21	0.42	0.21	0.64	0.42	0.42	0.85
270.0	0.85	0.85	1.06	1.06	0.85	1.06	1.06	1.27	1.06
315.0	0.85	0.64	0.64	0.85	0.64	0.85	1.27	1.06	1.06
360.0	0.85	0.64	0.64	0.64	1.06	0.85	1.06	0.85	1.06
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	1.06	1.27	1.27	1.27	1.27	1.27	1.27	1.27
45.0	1.06	1.06	1.27	1.27	1.06	1.27	1.06	1.48	1.06
90.0	0.85	0.85	1.06	1.06	0.85	1.27	1.27	1.06	1.27
135.0	0.64	0.64	0.85	0.85	1.06	1.27	1.06	1.06	1.27
180.0	0.64	0.64	0.85	0.85	1.06	1.06	1.27	1.06	0.85
225.0	0.64	0.64	0.85	1.06	1.06	1.27	1.06	1.27	1.27
270.0	1.27	1.48	1.48	1.48	1.27	1.48	1.48	1.48	1.69
315.0	1.06	1.06	1.27	1.48	1.06	1.48	1.48	1.06	1.27
360.0	0.85	1.06	1.27	1.27	1.27	1.27	1.27	1.27	1.27
C/ γ (°)	180.0								
0.0	1.36								
45.0	1.36								
90.0	1.36								
135.0	1.36								
180.0	1.36								
225.0	1.36								
270.0	1.36								
315.0	1.36								
360.0	1.36								