



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

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Client:

LumCAT: LL4SR-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.13

LampCAT:

Current(A): 0.1150

Lamp flux(lm): -1.0

Power (W): 13.65

Number of Lamps: 1

PF: 0.9850

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 915.14, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 67.07

Central intensity(cd): 361.847, Maximum intensity(cd): 361.847

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=104.9

[C90/270]Total=104.4

Field angle(10%Imax): [C0/180]Total=148.5

[C90/270]Total=149.2

Maximum s/h(1/2): C0_180=1.24 C90_270=1.24

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

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.53%

Down flux rate of LUM(%): 99.47%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 84.348%

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

Date:
Humidity(%): 58%

Operator: Sam

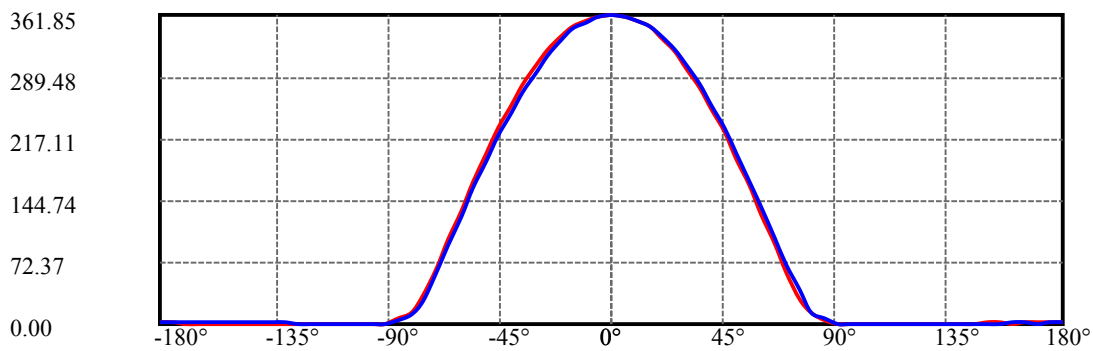
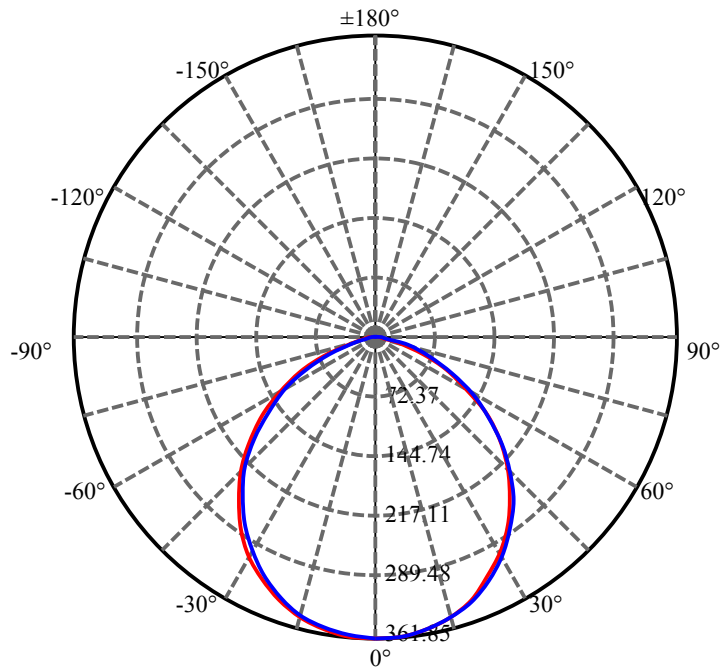
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	361.847	0.000	0	0.00%	0.00%
5.0	360.185	8.632	8.632	0.00%	0.94%
10.0	355.396	25.599	34.23	0.00%	3.74%
15.0	347.536	41.697	75.928	0.00%	8.30%
20.0	336.157	56.346	132.274	0.00%	14.45%
25.0	320.623	68.884	201.158	0.00%	21.98%
30.0	301.279	78.702	279.86	0.00%	30.58%
35.0	278.204	85.333	365.193	0.00%	39.91%
40.0	252.932	88.616	453.809	0.00%	49.59%
45.0	224.987	88.491	542.299	0.00%	59.26%
50.0	194.634	84.791	627.09	0.00%	68.52%
55.0	162.191	77.586	704.675	0.00%	77.00%
60.0	128.636	67.224	771.899	0.00%	84.35%
65.0	94.737	54.302	826.201	0.00%	90.28%
70.0	62.399	39.788	865.989	0.00%	94.63%
75.0	32.841	24.894	890.883	0.00%	97.35%
80.0	13.443	12.384	903.268	0.00%	98.70%
85.0	5.795	5.227	908.495	0.00%	99.27%
90.0	0.688	1.775	910.27	0.00%	99.47%
95.0	0.371	0.290	910.56	0.00%	99.50%
100.0	0.556	0.252	910.812	0.00%	99.53%
105.0	0.503	0.283	911.095	0.00%	99.56%
110.0	0.609	0.291	911.385	0.00%	99.59%
115.0	0.662	0.322	911.707	0.00%	99.63%
120.0	0.662	0.322	912.029	0.00%	99.66%
125.0	0.741	0.324	912.353	0.00%	99.70%
130.0	0.900	0.357	912.71	0.00%	99.73%
135.0	0.953	0.374	913.084	0.00%	99.78%
140.0	1.006	0.363	913.447	0.00%	99.82%
145.0	1.059	0.344	913.791	0.00%	99.85%
150.0	1.138	0.324	914.115	0.00%	99.89%
155.0	1.191	0.295	914.409	0.00%	99.92%
160.0	1.217	0.253	914.662	0.00%	99.95%
165.0	1.270	0.205	914.867	0.00%	99.97%
170.0	1.218	0.148	915.015	0.00%	99.99%
175.0	1.323	0.091	915.105	0.00%	100.00%
180.0	1.247	0.031	915.136	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	279.86	N.A.	30.58%
0-40	453.81	N.A.	49.59%
0-60	771.90	N.A.	84.35%
0-90	910.27	N.A.	99.47%
0-120	912.03	N.A.	99.66%
0-180	915.14	N.A.	100.00%
60-90	138.37	N.A.	15.12%
90-120	1.76	N.A.	0.19%
90-130	2.44	N.A.	0.27%
90-150	3.84	N.A.	0.42%
90-180	4.84	N.A.	0.53%
0-57.04	732.11	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	34.23
10-20	98.04
20-30	147.59
30-40	173.95
40-50	173.28
50-60	144.81
60-70	94.09
70-80	37.28
80-90	7.00
90-100	0.54
100-110	0.57
110-120	0.64
120-130	0.68
130-140	0.74
140-150	0.67
150-160	0.55
160-170	0.35
170-180	0.09

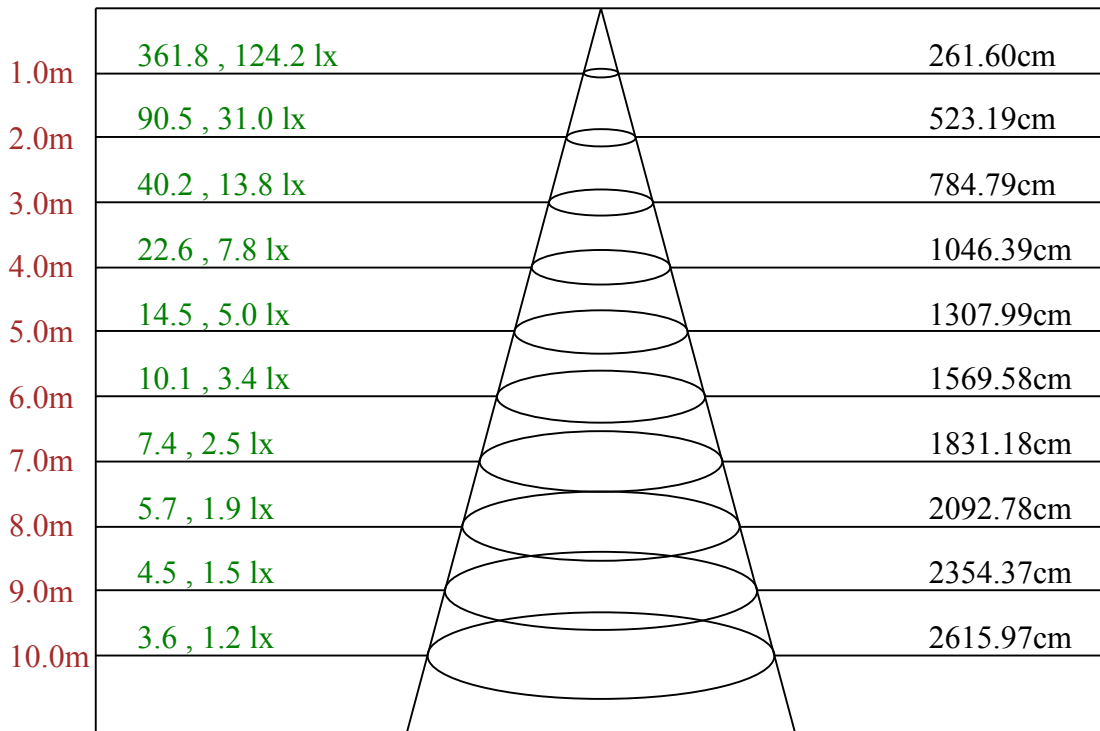


C0/C180: —

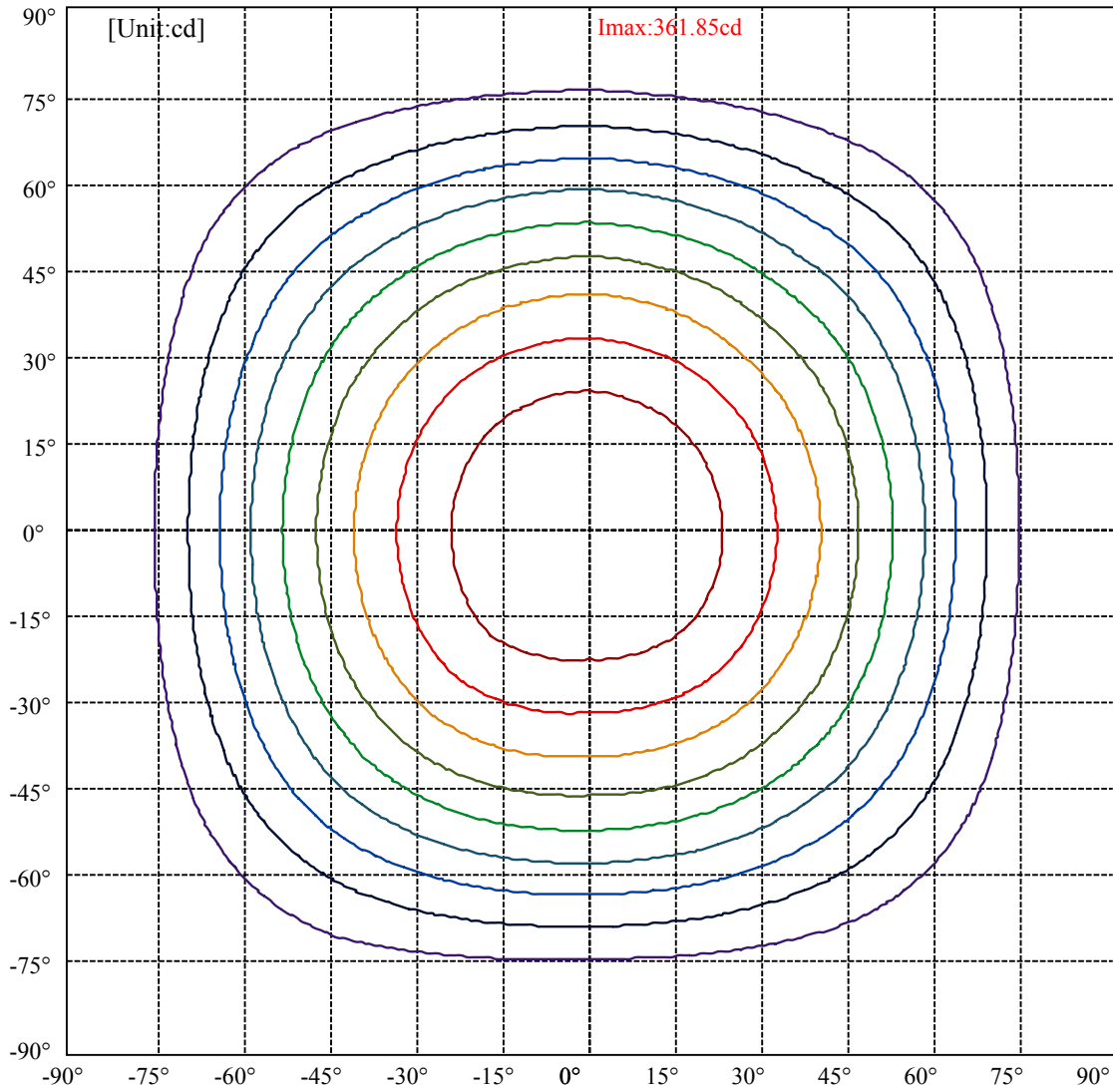
C90/C270: —

Field angle(10%Imax):C0/180Left:74.7 Right:73.8
 :C90/270Left:73.6 Right:75.6

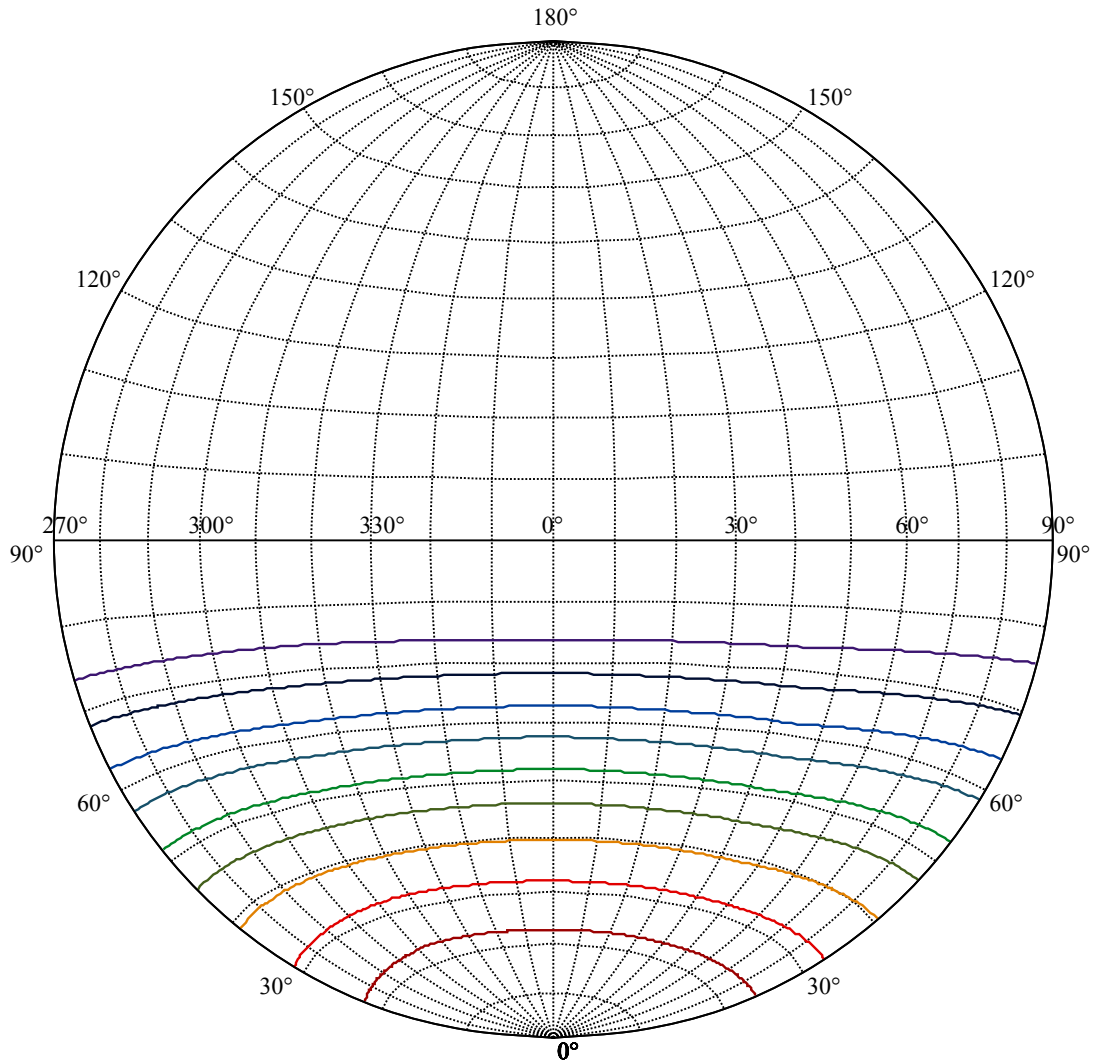
Beam Angle(50%Imax):C0/180Left:52.8 Right:52.1
 :C90/270Left:51.5 Right:52.9



Max , Ave Beam angle of C0 plane 105.20



(10%Imax) 36.1847	—
(20%Imax) 72.3694	—
(30%Imax) 108.554	—
(40%Imax) 144.739	—
(50%Imax) 180.923	—
(60%Imax) 217.108	—
(70%Imax) 253.293	—
(80%Imax) 289.478	—
(90%Imax) 325.662	—



House

[Unit:cd]

Road

I_{max}:361.85

(10%I_{max}) 36.1847

(20%I_{max}) 72.3694

(30%I_{max}) 108.554

(40%I_{max}) 144.739

(50%I_{max}) 180.923

(60%I_{max}) 217.108

(70%I_{max}) 253.293

(80%I_{max}) 289.478

(90%I_{max}) 325.662



LL4SR-5CCT-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	361.85	360.53	355.45	347.62	335.13	318.40	299.35	276.27	251.93
45.0	361.85	360.11	354.60	346.35	334.91	319.25	298.92	274.58	248.54
90.0	361.85	360.11	355.66	348.46	338.09	322.21	302.52	280.29	256.37
135.0	361.85	360.53	355.66	348.25	337.24	322.64	304.01	281.35	255.31
180.0	361.85	360.11	355.87	348.04	337.03	321.58	303.37	280.93	255.74
225.0	361.85	360.95	356.72	349.10	337.88	324.54	305.91	283.05	257.85
270.0	361.85	359.05	353.97	345.29	333.43	315.65	295.33	272.25	247.69
315.0	361.85	360.11	355.24	347.19	335.55	320.73	300.83	276.91	250.02
360.0	361.85	360.53	355.45	347.62	335.13	318.40	299.35	276.27	251.93

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	224.41	194.34	162.59	128.29	93.78	60.76	28.16	12.70	5.50
45.0	219.54	188.63	155.60	121.31	88.07	56.53	29.00	11.43	4.66
90.0	229.27	199.42	167.03	136.34	101.41	69.02	39.38	14.18	5.93
135.0	226.31	195.40	163.22	128.50	94.42	63.09	35.14	14.82	6.77
180.0	228.43	199.42	166.61	132.53	98.87	65.42	34.51	14.18	6.77
225.0	229.27	198.15	165.55	132.10	98.23	65.84	38.32	16.72	6.77
270.0	220.38	190.74	158.78	126.39	92.51	59.70	27.31	11.01	4.45
315.0	222.29	190.96	158.14	123.63	90.61	58.85	30.91	12.49	5.50
360.0	224.41	194.34	162.59	128.29	93.78	60.76	28.16	12.70	5.50

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.42	0.85	0.64	0.64	0.85	0.64	0.64	1.06
45.0	0.64	0.21	0.42	0.64	0.64	1.06	0.85	0.85	1.06
90.0	0.85	0.21	0.64	0.42	0.64	0.64	0.42	0.85	0.64
135.0	0.42	0.00	0.42	0.21	0.42	0.21	0.42	0.64	0.85
180.0	0.85	0.21	0.00	0.21	0.21	0.42	0.64	0.42	0.64
225.0	0.85	0.21	0.42	0.21	0.42	0.42	0.42	0.64	0.64
270.0	0.85	1.06	1.06	1.06	1.06	0.85	1.06	1.06	1.27
315.0	0.64	0.64	0.64	0.64	0.85	0.85	0.85	0.85	1.06
360.0	0.42	0.42	0.85	0.64	0.64	0.85	0.64	0.64	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	1.06	1.27	1.27	1.06	1.27	1.27	1.27
45.0	1.27	1.06	1.06	1.27	1.27	1.27	1.48	1.06	1.27
90.0	0.64	0.85	1.06	1.06	1.06	1.27	1.48	1.06	1.27
135.0	0.64	0.85	0.64	1.06	1.27	1.27	1.06	1.27	1.27
180.0	0.85	0.85	0.85	1.06	1.06	0.85	1.06	1.06	1.27
225.0	0.85	1.06	0.85	1.06	0.85	1.06	0.85	1.06	1.27
270.0	1.48	1.27	1.69	1.48	1.69	1.69	1.69	1.69	1.69
315.0	1.06	1.06	1.27	0.85	1.06	1.27	1.27	1.27	1.27
360.0	0.85	1.06	1.06	1.27	1.27	1.06	1.27	1.27	1.27

C/γ(°)	180.0
0.0	1.25
45.0	1.25
90.0	1.25
135.0	1.25
180.0	1.25
225.0	1.25
270.0	1.25
315.0	1.25
360.0	1.25