



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

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Client:

LumCAT: LL4SR-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.13

LampCAT:

Current(A): 0.1150

Lamp flux(lm): -1.0

Power (W): 13.62

Number of Lamps: 1

PF: 0.9850

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 843.79, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 61.96

Central intensity(cd): 333.431, Maximum intensity(cd): 333.431

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=104.8

[C90/270]Total=104.6

Field angle(10%Imax): [C0/180]Total=148.4

[C90/270]Total=149.3

Maximum s/h(1/2): C0_180=1.25 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(%): 0.55%

Down flux rate of LUM(%): 99.45%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 84.330%

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

Date:
Humidity(%): 58%

Operator: Sam

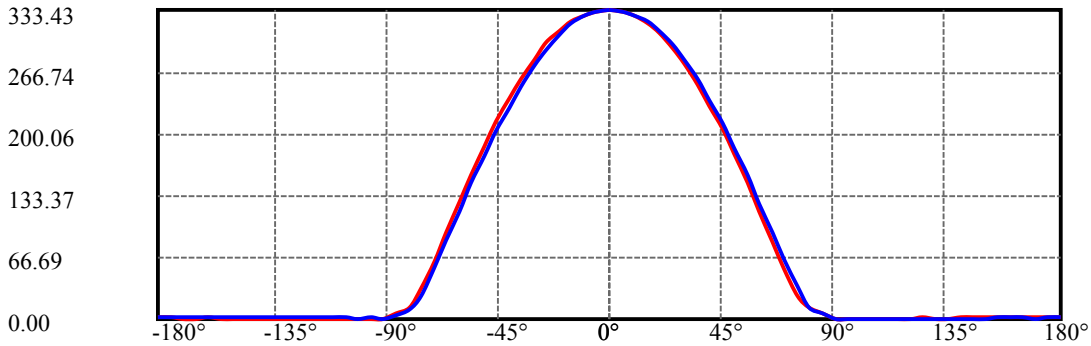
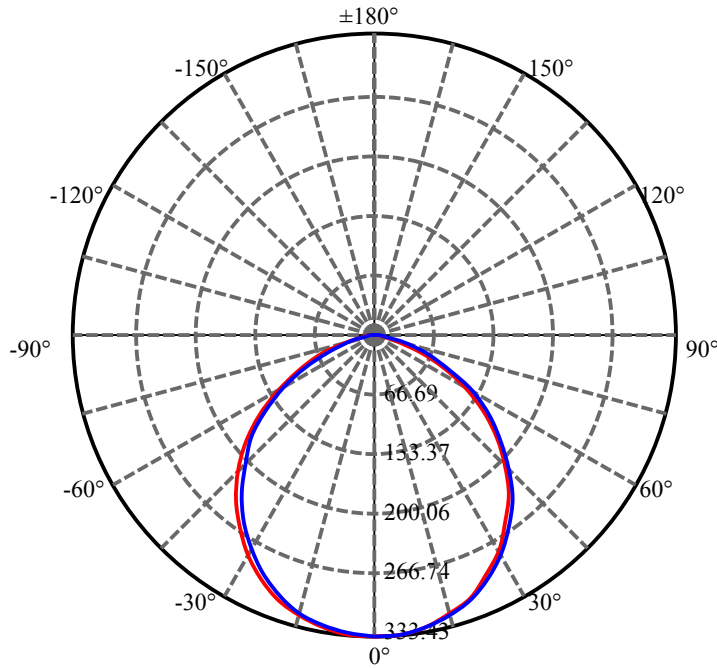
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	333.431	0.000	0	0.00%	0.00%
5.0	331.817	7.953	7.953	0.00%	0.94%
10.0	327.583	23.589	31.542	0.00%	3.74%
15.0	320.174	38.424	69.966	0.00%	8.29%
20.0	309.774	51.917	121.883	0.00%	14.44%
25.0	295.431	63.475	185.357	0.00%	21.97%
30.0	277.727	72.534	257.891	0.00%	30.56%
35.0	256.584	78.681	336.572	0.00%	39.89%
40.0	233.164	81.711	418.283	0.00%	49.57%
45.0	207.336	81.562	499.845	0.00%	59.24%
50.0	179.524	78.171	578.015	0.00%	68.50%
55.0	149.594	71.561	649.577	0.00%	76.98%
60.0	118.580	61.988	711.564	0.00%	84.33%
65.0	87.380	50.069	761.634	0.00%	90.26%
70.0	57.477	36.679	798.312	0.00%	94.61%
75.0	30.273	22.937	821.249	0.00%	97.33%
80.0	12.437	11.428	832.677	0.00%	98.68%
85.0	5.372	4.839	837.516	0.00%	99.26%
90.0	0.715	1.666	839.183	0.00%	99.45%
95.0	0.503	0.333	839.516	0.00%	99.49%
100.0	0.450	0.259	839.775	0.00%	99.52%
105.0	0.503	0.255	840.03	0.00%	99.55%
110.0	0.503	0.263	840.293	0.00%	99.59%
115.0	0.662	0.295	840.588	0.00%	99.62%
120.0	0.662	0.322	840.909	0.00%	99.66%
125.0	0.741	0.324	841.233	0.00%	99.70%
130.0	0.767	0.328	841.561	0.00%	99.74%
135.0	0.820	0.321	841.882	0.00%	99.77%
140.0	0.926	0.323	842.206	0.00%	99.81%
145.0	1.032	0.327	842.533	0.00%	99.85%
150.0	1.112	0.316	842.848	0.00%	99.89%
155.0	1.112	0.281	843.13	0.00%	99.92%
160.0	1.112	0.233	843.363	0.00%	99.95%
165.0	1.085	0.181	843.544	0.00%	99.97%
170.0	1.112	0.130	843.674	0.00%	99.99%
175.0	1.218	0.083	843.757	0.00%	100.00%
180.0	1.153	0.028	843.786	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	257.89	N.A.	30.56%
0-40	418.28	N.A.	49.57%
0-60	711.56	N.A.	84.33%
0-90	839.18	N.A.	99.45%
0-120	840.91	N.A.	99.66%
0-180	843.79	N.A.	100.00%
60-90	127.62	N.A.	15.12%
90-120	1.73	N.A.	0.20%
90-130	2.38	N.A.	0.28%
90-150	3.67	N.A.	0.43%
90-180	4.57	N.A.	0.54%
0-57.05	675.03	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	31.54
10-20	90.34
20-30	136.01
30-40	160.39
40-50	159.73
50-60	133.55
60-70	86.75
70-80	34.36
80-90	6.51
90-100	0.59
100-110	0.52
110-120	0.62
120-130	0.65
130-140	0.64
140-150	0.64
150-160	0.51
160-170	0.31
170-180	0.08

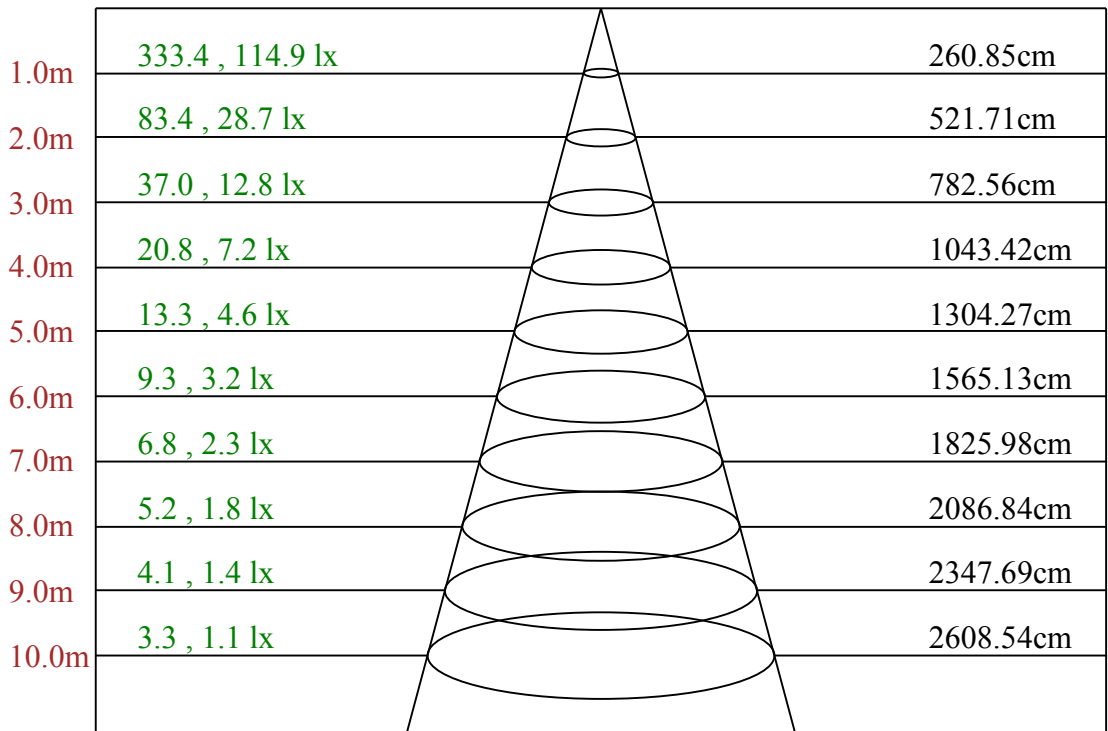


C0/C180: ————

C90/C270: ————

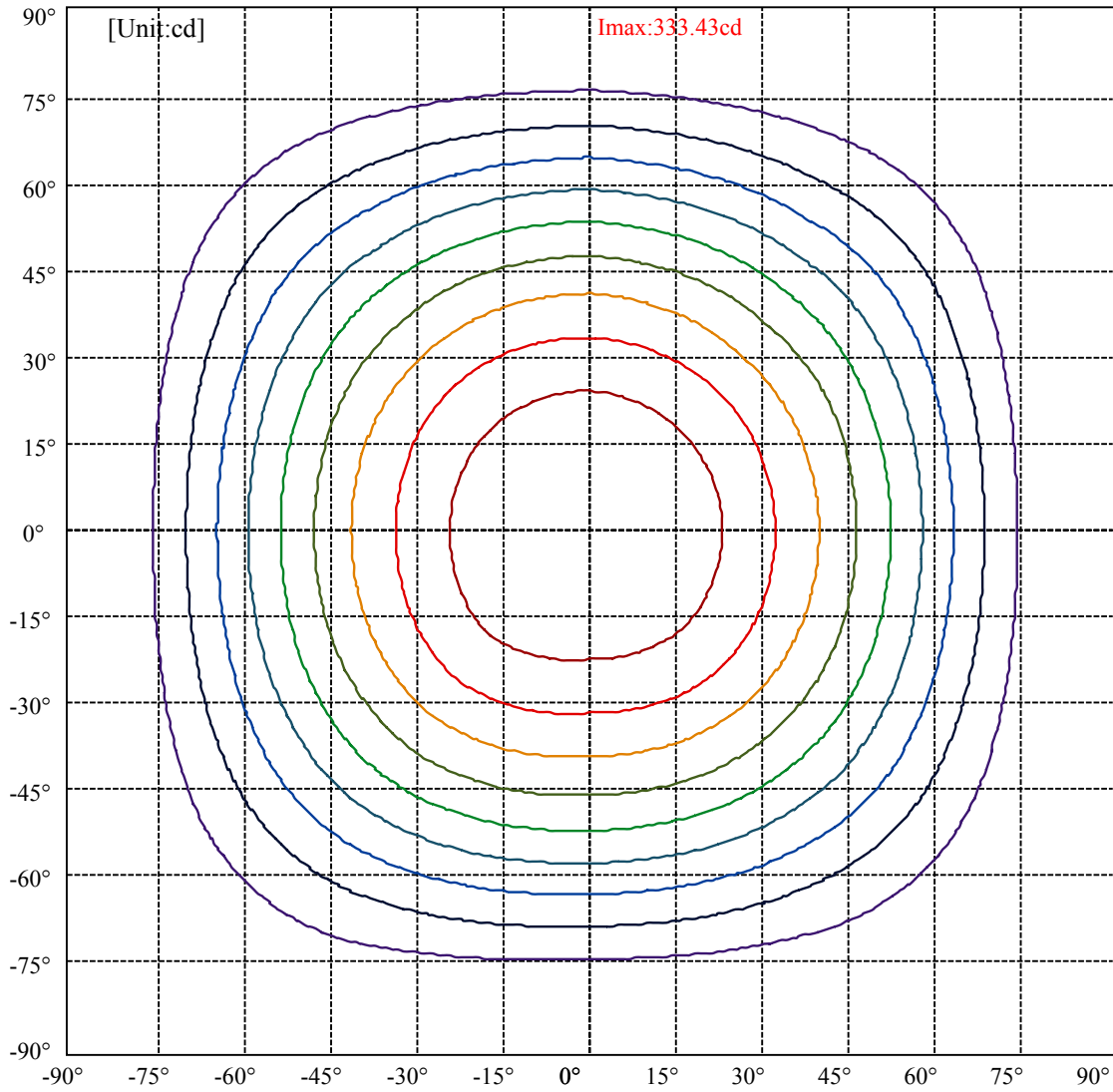
Field angle(10%Imax):C0/180Left:74.9 Right:73.5
:C90/270Left:73.7 Right:75.6

Beam Angle(50%Imax):C0/180Left:53.1 Right:51.7
:C90/270Left:51.6 Right:53.0

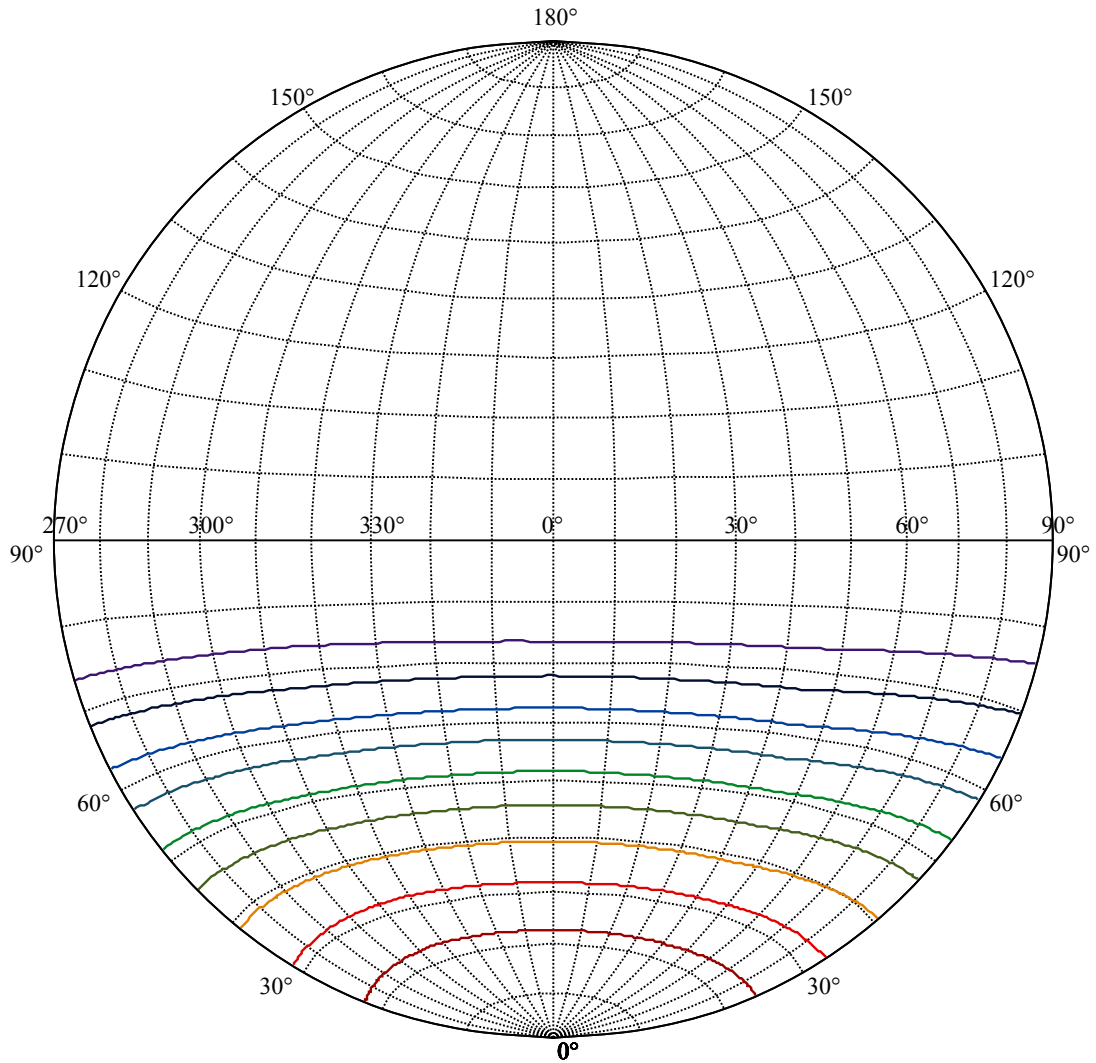


Max , Ave

Beam angle of C0 plane 105.04



(10%Imax) 33.3431	—
(20%Imax) 66.6862	—
(30%Imax) 100.029	—
(40%Imax) 133.372	—
(50%Imax) 166.715	—
(60%Imax) 200.059	—
(70%Imax) 233.402	—
(80%Imax) 266.745	—
(90%Imax) 300.088	—












House

[Unit:cd]

Road

I_{max}:333.43

(10%I _{max}) 33.3431	
(20%I _{max}) 66.6862	
(30%I _{max}) 100.029	
(40%I _{max}) 133.372	
(50%I _{max}) 166.715	
(60%I _{max}) 200.059	
(70%I _{max}) 233.402	
(80%I _{max}) 266.745	
(90%I _{max}) 300.088	

LL4SR-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	333.43	331.95	327.29	319.67	308.87	293.00	274.58	253.41	230.76
45.0	333.43	331.74	327.08	318.82	308.03	294.06	275.21	252.77	227.58
90.0	333.43	331.53	328.14	321.15	311.41	297.02	279.45	258.70	236.68
135.0	333.43	332.16	327.93	320.73	310.78	297.44	281.14	260.18	236.05
180.0	333.43	332.37	328.14	321.15	311.20	297.44	280.29	259.76	238.38
225.0	333.43	332.59	328.77	321.79	312.05	299.35	282.20	262.09	238.17
270.0	333.43	330.89	326.45	318.61	306.97	290.88	272.67	251.50	228.00
315.0	333.43	331.31	326.87	319.46	308.87	294.27	276.27	254.26	229.70
360.0	333.43	331.95	327.29	319.67	308.87	293.00	274.58	253.41	230.76
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	204.93	177.41	146.71	115.80	83.83	53.14	24.56	11.64	5.29
45.0	201.75	173.17	142.69	110.93	79.60	51.02	26.25	10.37	4.02
90.0	211.49	184.18	154.97	124.48	94.21	63.93	35.99	12.91	5.72
135.0	210.22	181.85	151.16	119.61	88.70	59.28	33.24	14.61	6.14
180.0	212.97	185.66	155.39	125.75	93.78	62.45	33.03	13.34	6.14
225.0	211.91	183.55	154.33	122.79	92.30	62.45	35.99	15.45	6.77
270.0	202.60	176.14	146.92	116.01	84.89	55.25	25.40	9.95	4.02
315.0	202.81	174.23	144.59	113.26	81.72	52.29	27.73	11.22	4.87
360.0	204.93	177.41	146.71	115.80	83.83	53.14	24.56	11.64	5.29
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.64	0.64	0.64	0.85	0.85	0.64	1.06	0.85
45.0	0.42	0.64	0.42	0.42	0.64	0.85	0.85	1.06	1.06
90.0	0.85	0.21	0.42	0.64	0.21	0.64	0.21	0.42	0.64
135.0	0.64	0.21	0.42	0.21	0.21	0.21	0.42	0.64	0.42
180.0	0.64	0.42	0.21	0.21	0.21	0.42	0.42	0.42	0.64
225.0	1.06	0.21	0.21	0.21	0.21	0.42	0.64	0.42	0.42
270.0	0.85	1.06	0.64	1.06	1.06	1.06	1.06	1.06	1.27
315.0	0.64	0.64	0.64	0.64	0.64	0.85	1.06	0.85	0.85
360.0	0.64	0.64	0.64	0.64	0.85	0.85	0.64	1.06	0.85
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	1.27	1.06	1.06	1.06	1.06	1.27	1.27	1.48
45.0	0.85	1.06	1.06	1.27	1.06	0.85	1.06	1.06	1.27
90.0	0.64	0.64	0.85	0.85	1.06	1.06	1.06	0.85	1.06
135.0	0.64	0.85	0.85	0.85	1.06	1.06	1.06	1.06	1.06
180.0	0.64	0.85	0.85	0.85	0.85	1.06	0.85	0.85	1.06
225.0	0.64	0.85	0.85	1.06	1.06	1.27	0.85	1.06	1.06
270.0	1.27	1.06	1.48	1.69	1.48	1.27	1.48	1.48	1.69
315.0	1.06	0.85	1.27	1.27	1.27	1.27	1.06	1.27	1.06
360.0	0.85	1.27	1.06	1.06	1.06	1.06	1.27	1.27	1.48
C/γ(°)	180.0								
0.0	1.15								
45.0	1.15								
90.0	1.15								
135.0	1.15								
180.0	1.15								
225.0	1.15								
270.0	1.15								
315.0	1.15								
360.0	1.15								