



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: LE4R-5CCT-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.07

LampCAT:

Current(A): 0.0900

Lamp flux(lm): -1.0

Power (W): 10.36

Number of Lamps: 1

PF: 0.9489

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 721.77, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 69.65

Central intensity(cd): 261.429, Maximum intensity(cd): 261.429

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=110.6

[C90/270]Total=110.3

Field angle(10%Imax): [C0/180]Total=157.4

[C90/270]Total=156.9

Maximum s/h(1/2): C0_180=1.28 C90_270=1.28

Maximum s/h(1/4): C0_180=1.40 C90_270=1.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.49%

Down flux rate of LUM(%): 99.51%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 80.434%

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

Date:
Humidity(%): 58%

Operator: Tester

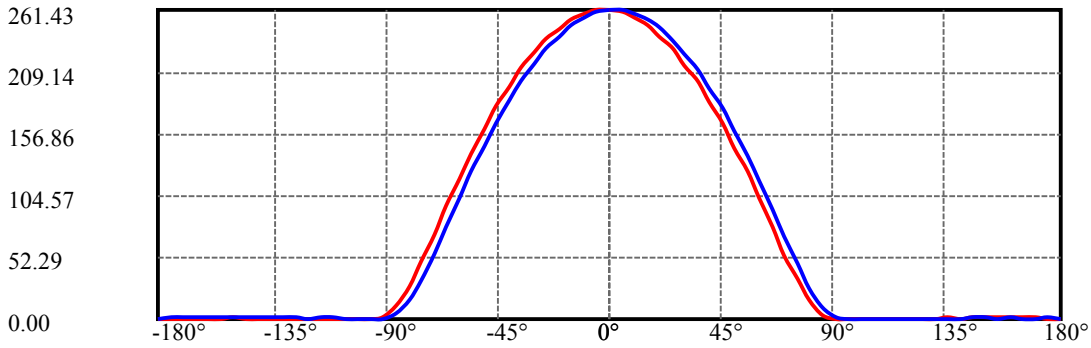
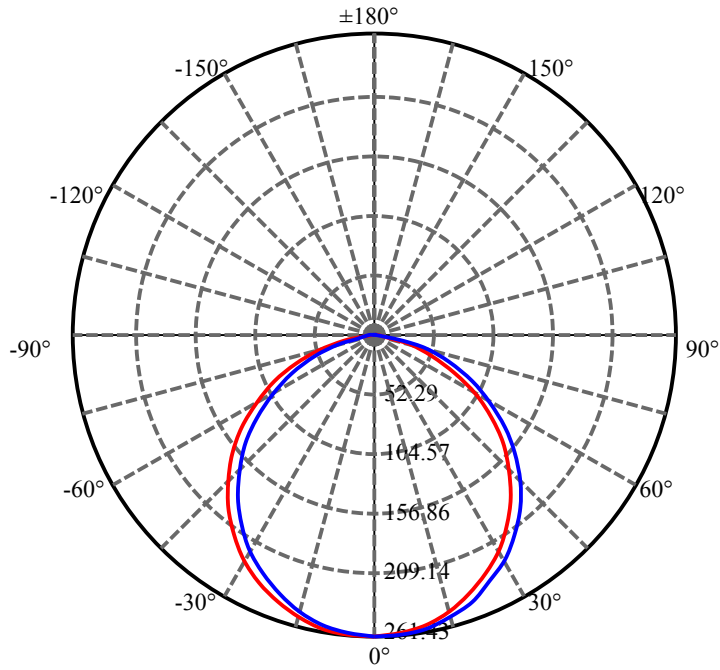
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	261.429	0.000	0	0.00%	0.00%
5.0	260.341	6.238	6.238	0.00%	0.86%
10.0	256.690	18.496	24.733	0.00%	3.43%
15.0	250.921	30.111	54.845	0.00%	7.60%
20.0	242.611	40.674	95.518	0.00%	13.23%
25.0	232.423	49.822	145.341	0.00%	20.14%
30.0	220.224	57.283	202.623	0.00%	28.07%
35.0	205.960	62.759	265.382	0.00%	36.77%
40.0	189.712	66.015	331.397	0.00%	45.91%
45.0	171.638	66.907	398.304	0.00%	55.18%
50.0	151.949	65.386	463.689	0.00%	64.24%
55.0	130.964	61.515	525.204	0.00%	72.77%
60.0	108.445	55.339	580.543	0.00%	80.43%
65.0	85.316	47.104	627.646	0.00%	86.96%
70.0	61.923	37.282	664.928	0.00%	92.13%
75.0	40.038	26.651	691.579	0.00%	95.82%
80.0	21.170	16.378	707.957	0.00%	98.09%
85.0	7.674	7.838	715.795	0.00%	99.17%
90.0	1.217	2.435	718.23	0.00%	99.51%
95.0	0.370	0.435	718.664	0.00%	99.57%
100.0	0.291	0.180	718.844	0.00%	99.60%
105.0	0.397	0.184	719.028	0.00%	99.62%
110.0	0.450	0.221	719.249	0.00%	99.65%
115.0	0.397	0.214	719.464	0.00%	99.68%
120.0	0.424	0.199	719.663	0.00%	99.71%
125.0	0.503	0.214	719.877	0.00%	99.74%
130.0	0.582	0.236	720.113	0.00%	99.77%
135.0	0.609	0.241	720.354	0.00%	99.80%
140.0	0.741	0.250	720.604	0.00%	99.84%
145.0	0.741	0.247	720.851	0.00%	99.87%
150.0	0.873	0.238	721.089	0.00%	99.91%
155.0	0.768	0.208	721.296	0.00%	99.93%
160.0	0.821	0.167	721.463	0.00%	99.96%
165.0	0.794	0.133	721.596	0.00%	99.98%
170.0	0.768	0.093	721.689	0.00%	99.99%
175.0	0.847	0.058	721.746	0.00%	100.00%
180.0	0.800	0.020	721.766	0.00%	100.00%

ZONAL LUMEN SUMMARY

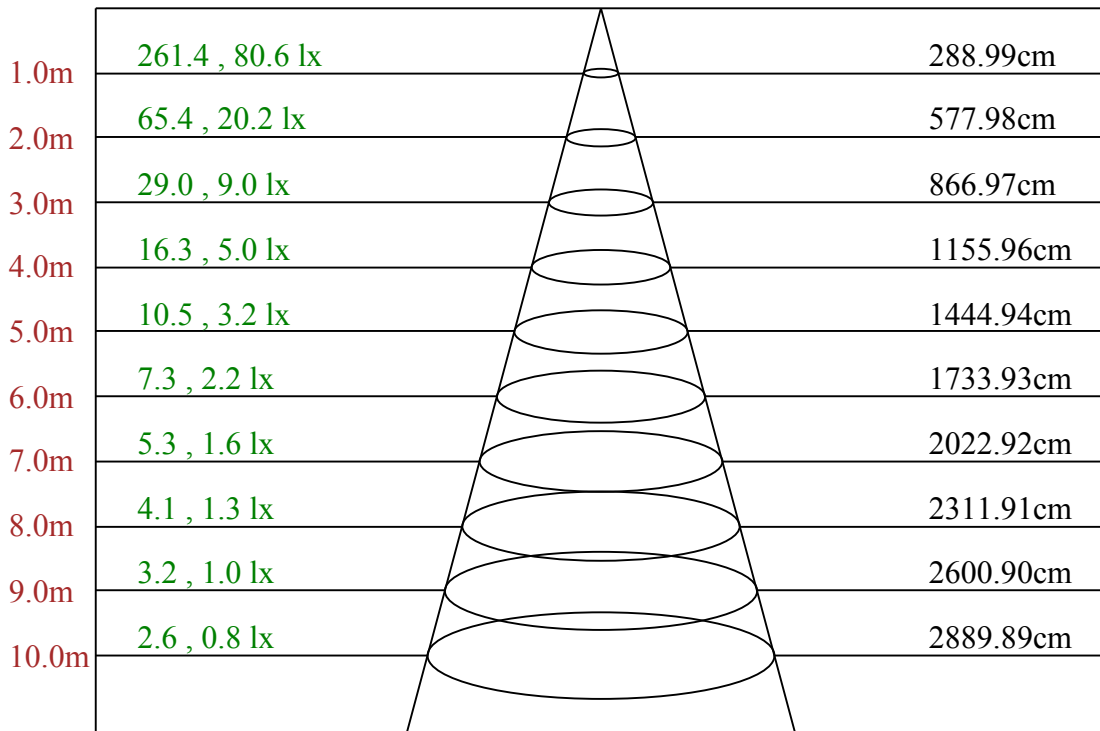
Zone	Lumens	%Lamp	%Fixt
0-30	202.62	N.A.	28.07%
0-40	331.40	N.A.	45.91%
0-60	580.54	N.A.	80.43%
0-90	718.23	N.A.	99.51%
0-120	719.66	N.A.	99.71%
0-180	721.77	N.A.	100.00%
60-90	137.69	N.A.	19.08%
90-120	1.43	N.A.	0.20%
90-130	1.88	N.A.	0.26%
90-150	2.86	N.A.	0.40%
90-180	3.52	N.A.	0.49%
0-59.72	577.41	N.A.	80.00%

ZONAL LUMEN SUMMARY

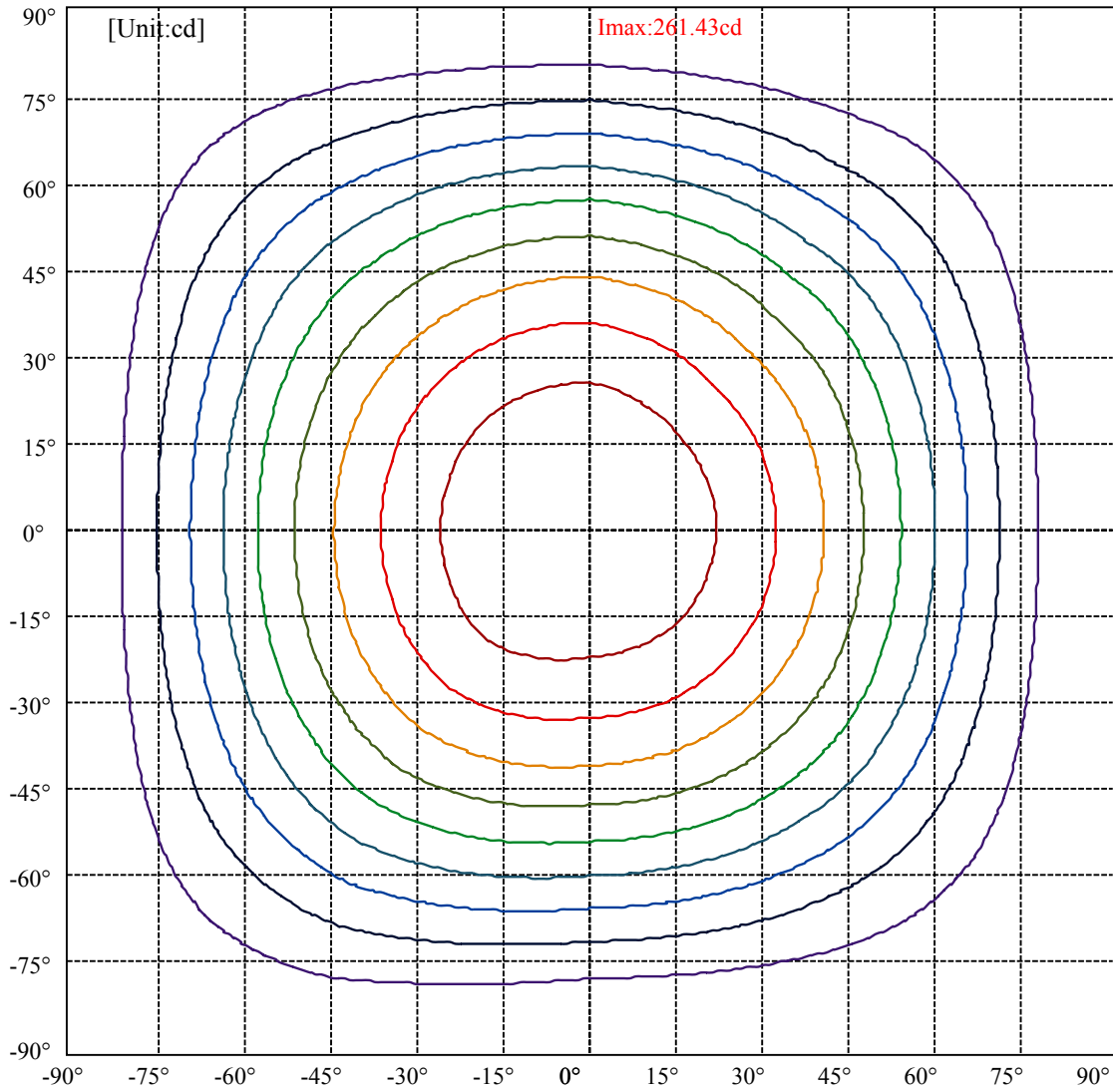
0-10	24.73
10-20	70.79
20-30	107.11
30-40	128.77
40-50	132.29
50-60	116.85
60-70	84.39
70-80	43.03
80-90	10.27
90-100	0.61
100-110	0.41
110-120	0.41
120-130	0.45
130-140	0.49
140-150	0.49
150-160	0.37
160-170	0.23
170-180	0.06



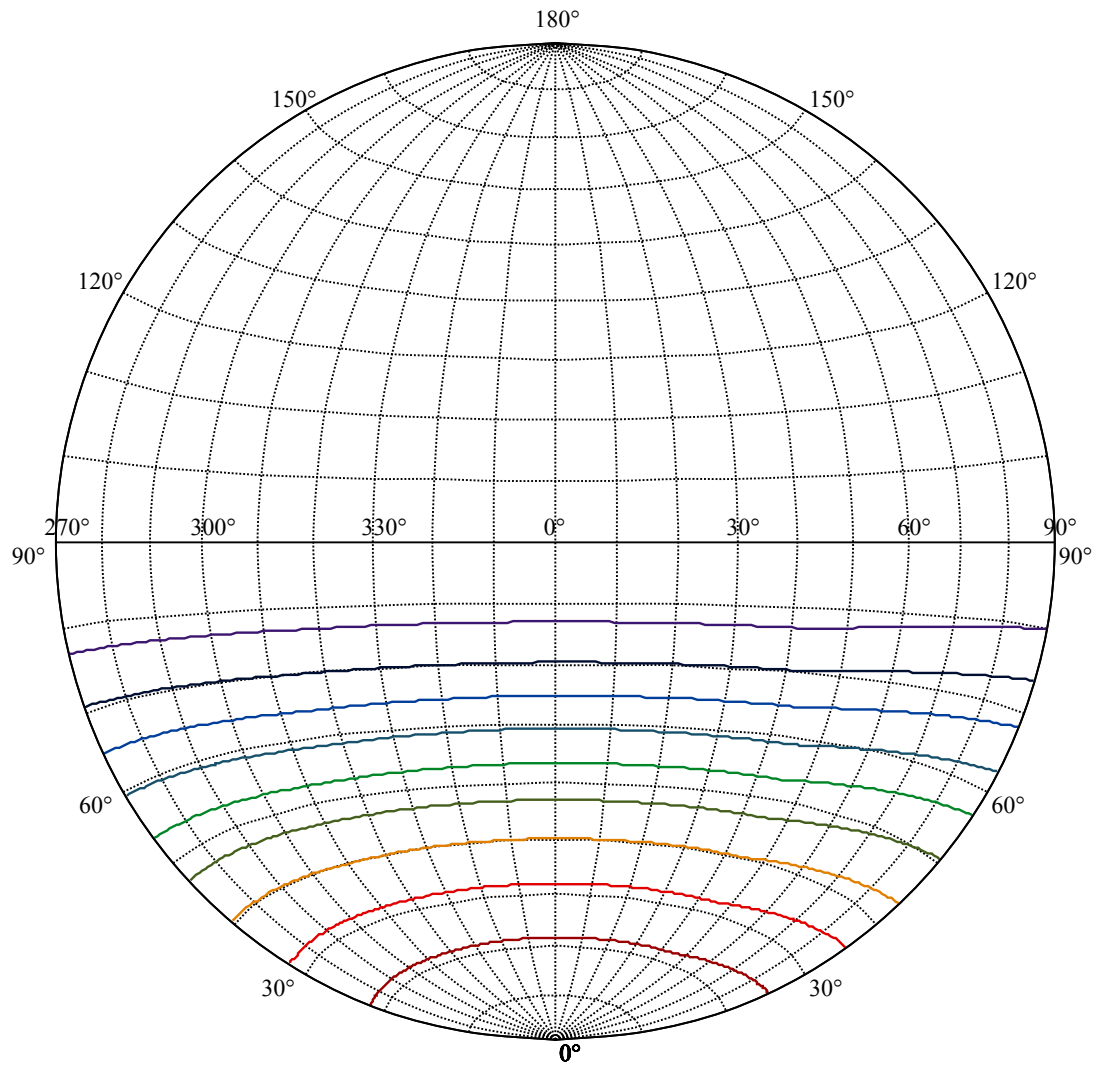
C0/C180: —
C90/C270: —
Field angle(10%Imax):C0/180Left:80.4 Right:77.0
:C90/270Left:77.0 Right:79.9
Beam Angle(50%Imax):C0/180Left:57.1 Right:53.5
:C90/270Left:53.5 Right:56.8



Max , Ave Beam angle of C0 plane 110.63



(10%Imax) 26.1429	—
(20%Imax) 52.2858	—
(30%Imax) 78.4287	—
(40%Imax) 104.572	—
(50%Imax) 130.714	—
(60%Imax) 156.857	—
(70%Imax) 183	—
(80%Imax) 209.143	—
(90%Imax) 235.286	—



House

[Unit:cd]

Road

I_{max}:261.43	—
(10%I _{max}) 26.1429	—
(20%I _{max}) 52.2858	—
(30%I _{max}) 78.4287	—
(40%I _{max}) 104.572	—
(50%I _{max}) 130.714	—
(60%I _{max}) 156.857	—
(70%I _{max}) 183	—
(80%I _{max}) 209.143	—
(90%I _{max}) 235.286	—

LE4R-5CCT-3000K

Appendix Page: 8 Total:8

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	261.43	259.76	255.10	248.33	239.01	228.22	215.09	200.69	183.97
45.0	261.43	259.55	255.10	248.54	239.65	228.64	215.51	200.27	183.76
90.0	261.43	260.82	258.07	253.20	246.21	236.05	224.83	211.28	195.61
135.0	261.43	261.03	258.49	253.41	246.42	237.11	225.46	211.49	195.19
180.0	261.43	261.24	258.28	253.62	245.79	236.68	225.68	211.91	196.04
225.0	261.43	261.24	258.49	253.20	246.00	236.68	225.04	211.28	195.83
270.0	261.43	259.55	254.89	248.54	239.01	228.22	215.51	200.91	184.61
315.0	261.43	259.55	255.10	248.54	238.80	227.79	214.67	199.85	182.70
360.0	261.43	259.76	255.10	248.33	239.01	228.22	215.09	200.69	183.97
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	165.13	145.23	124.48	101.83	77.70	53.77	33.45	15.45	3.81
45.0	164.92	145.02	123.63	99.50	77.48	53.77	32.60	15.24	3.81
90.0	177.83	158.99	138.67	116.23	93.36	69.86	47.21	25.83	9.74
135.0	177.20	157.72	137.18	114.74	91.03	67.96	45.09	25.62	10.16
180.0	179.52	160.05	139.72	118.13	95.48	71.98	49.33	27.52	11.43
225.0	178.25	159.20	138.24	117.07	94.21	70.71	48.06	28.16	12.49
270.0	165.76	145.65	124.27	101.83	78.33	55.25	33.03	15.88	5.08
315.0	164.49	143.75	121.52	98.23	74.94	52.08	31.54	15.67	4.87
360.0	165.13	145.23	124.48	101.83	77.70	53.77	33.45	15.45	3.81
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.64	0.42	0.64	0.42	0.42	0.64	0.64	0.64
45.0	0.64	0.42	0.42	0.64	0.64	0.64	0.64	0.85	0.85
90.0	2.12	0.00	0.21	0.42	0.42	0.00	0.21	0.21	0.42
135.0	1.69	0.21	0.00	0.00	0.21	0.21	0.21	0.00	0.21
180.0	1.48	0.42	0.21	0.00	0.42	0.21	0.21	0.42	0.42
225.0	2.33	0.21	0.00	0.21	0.21	0.21	0.21	0.21	0.42
270.0	0.64	0.64	0.64	0.64	0.85	0.85	0.64	0.85	1.06
315.0	0.42	0.42	0.42	0.64	0.42	0.64	0.64	0.85	0.64
360.0	0.42	0.64	0.42	0.64	0.42	0.42	0.64	0.64	0.64
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	0.64	0.85	0.85	0.85	1.06	0.85	0.85	0.64
45.0	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.64	1.06
90.0	0.21	0.64	0.85	0.85	0.64	0.85	0.64	0.64	0.85
135.0	0.21	0.42	0.21	0.64	0.64	0.85	0.85	0.85	0.85
180.0	0.42	0.64	0.64	0.85	0.64	0.42	0.64	0.64	0.64
225.0	0.42	0.64	0.64	0.85	0.64	0.42	0.85	0.64	0.85
270.0	1.06	1.06	1.06	1.27	1.06	1.06	0.85	1.06	1.06
315.0	0.85	1.06	0.85	0.85	0.85	1.06	0.85	0.85	0.85
360.0	0.85	0.64	0.85	0.85	0.85	1.06	0.85	0.85	0.64
C/ γ (°)	180.0								
0.0	0.80								
45.0	0.80								
90.0	0.80								
135.0	0.80								
180.0	0.80								
225.0	0.80								
270.0	0.80								
315.0	0.80								
360.0	0.80								