



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-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.57

Number of Lamps: 1

PF: 0.9500

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 755.97, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 71.52

Central intensity(cd): 273.731, Maximum intensity(cd): 273.731

Angle of maximum intensity: C=0.0 γ =0.0

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

[C90/270]Total=110.4

Field angle(10%Imax): [C0/180]Total=157.5

[C90/270]Total=157.4

Maximum s/h(1/2): C0_180=1.27 C90_270=1.28

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

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.45%

Down flux rate of LUM(%): 99.55%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 80.442%

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

Date:
Humidity(%): 58%

Operator: Tester

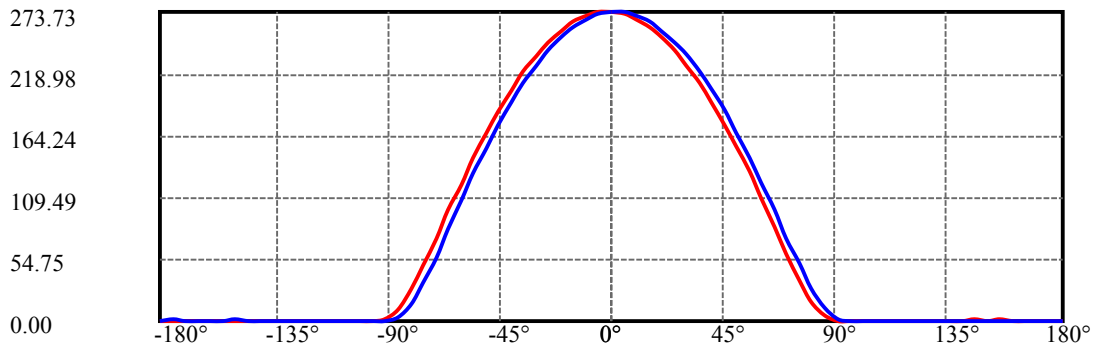
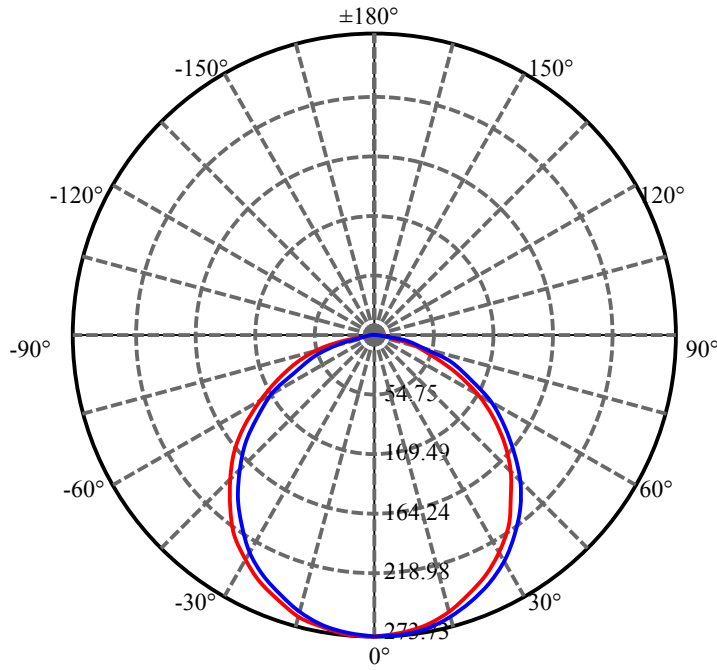
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	273.731	0.000	0	0.00%	0.00%
5.0	272.620	6.531	6.531	0.00%	0.86%
10.0	268.783	19.368	25.899	0.00%	3.43%
15.0	262.617	31.522	57.421	0.00%	7.60%
20.0	254.096	42.584	100.006	0.00%	13.23%
25.0	243.432	52.181	152.187	0.00%	20.13%
30.0	230.703	60.002	212.189	0.00%	28.07%
35.0	215.804	65.751	277.941	0.00%	36.77%
40.0	198.709	69.158	347.099	0.00%	45.91%
45.0	179.736	70.072	417.171	0.00%	55.18%
50.0	159.253	68.498	485.669	0.00%	64.24%
55.0	137.183	64.455	550.124	0.00%	72.77%
60.0	113.684	57.987	608.111	0.00%	80.44%
65.0	89.365	49.362	657.473	0.00%	86.97%
70.0	64.940	39.071	696.544	0.00%	92.14%
75.0	42.023	27.958	724.502	0.00%	95.84%
80.0	22.255	17.199	741.701	0.00%	98.11%
85.0	8.177	8.269	749.97	0.00%	99.21%
90.0	1.270	2.587	752.557	0.00%	99.55%
95.0	0.291	0.427	752.985	0.00%	99.61%
100.0	0.265	0.151	753.135	0.00%	99.63%
105.0	0.371	0.170	753.305	0.00%	99.65%
110.0	0.344	0.187	753.492	0.00%	99.67%
115.0	0.397	0.188	753.68	0.00%	99.70%
120.0	0.450	0.206	753.886	0.00%	99.72%
125.0	0.556	0.232	754.118	0.00%	99.76%
130.0	0.450	0.219	754.337	0.00%	99.78%
135.0	0.715	0.235	754.572	0.00%	99.82%
140.0	0.741	0.269	754.841	0.00%	99.85%
145.0	0.741	0.247	755.089	0.00%	99.88%
150.0	0.768	0.222	755.311	0.00%	99.91%
155.0	0.741	0.191	755.502	0.00%	99.94%
160.0	0.768	0.158	755.66	0.00%	99.96%
165.0	0.794	0.129	755.789	0.00%	99.98%
170.0	0.847	0.097	755.886	0.00%	99.99%
175.0	0.821	0.060	755.946	0.00%	100.00%
180.0	0.847	0.020	755.966	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	212.19	N.A.	28.07%
0-40	347.10	N.A.	45.91%
0-60	608.11	N.A.	80.44%
0-90	752.56	N.A.	99.55%
0-120	753.89	N.A.	99.72%
0-180	755.97	N.A.	100.00%
60-90	144.45	N.A.	19.11%
90-120	1.33	N.A.	0.18%
90-130	1.78	N.A.	0.24%
90-150	2.75	N.A.	0.36%
90-180	3.39	N.A.	0.45%
0-59.71	604.77	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	25.90
10-20	74.11
20-30	112.18
30-40	134.91
40-50	138.57
50-60	122.44
60-70	88.43
70-80	45.16
80-90	10.86
90-100	0.58
100-110	0.36
110-120	0.39
120-130	0.45
130-140	0.50
140-150	0.47
150-160	0.35
160-170	0.23
170-180	0.06

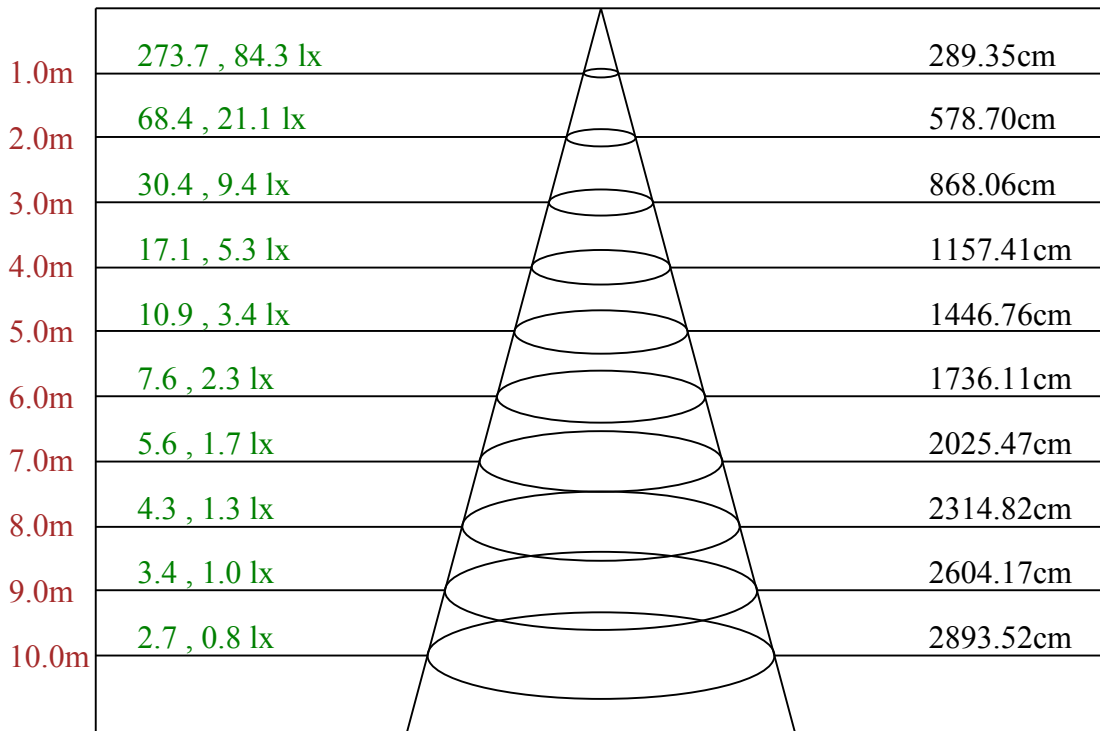


C0/C180: —

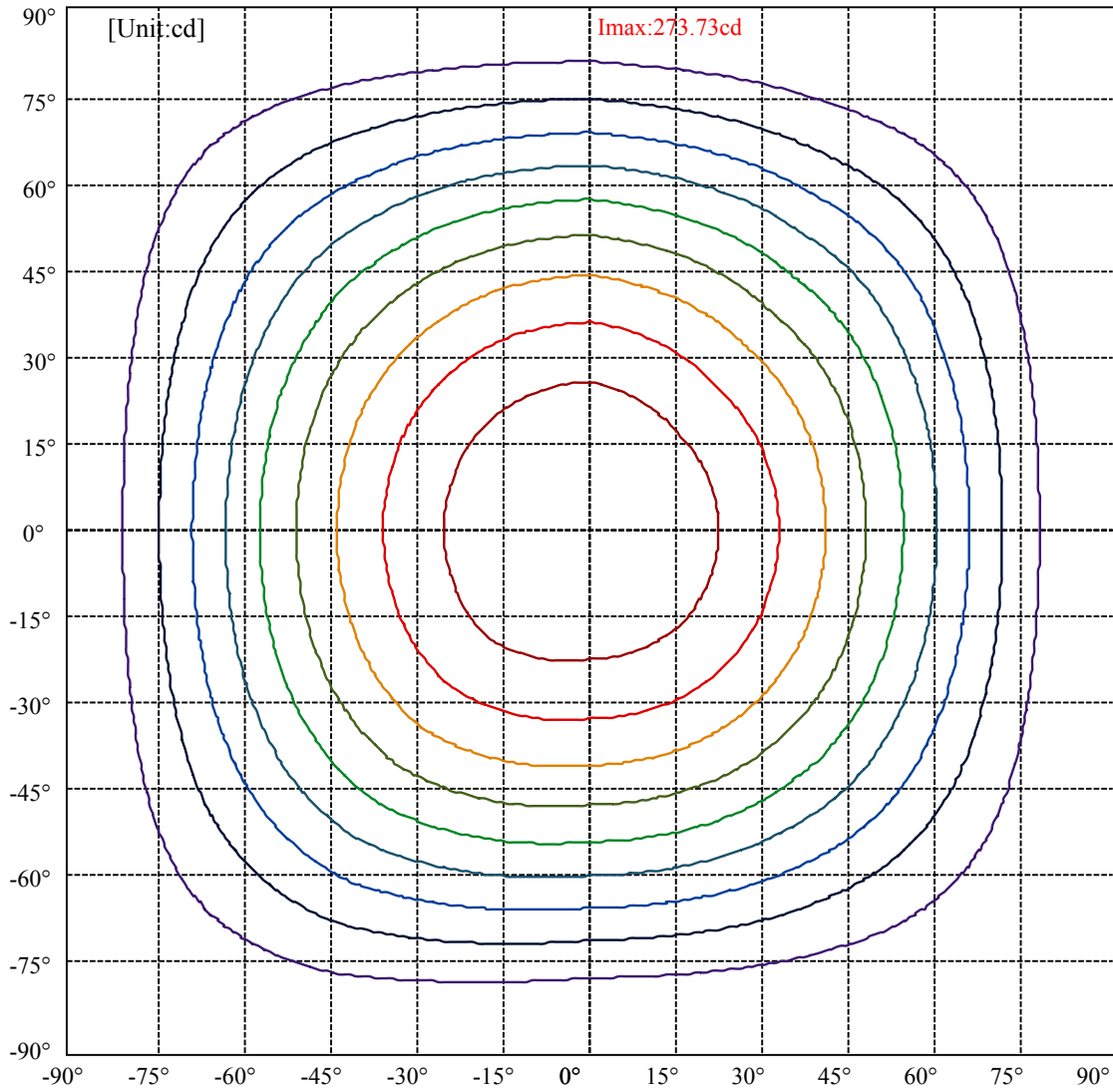
C90/C270: —

Field angle(10%Imax):C0/180Left:80.2 Right:77.3
:C90/270Left:76.9 Right:80.5

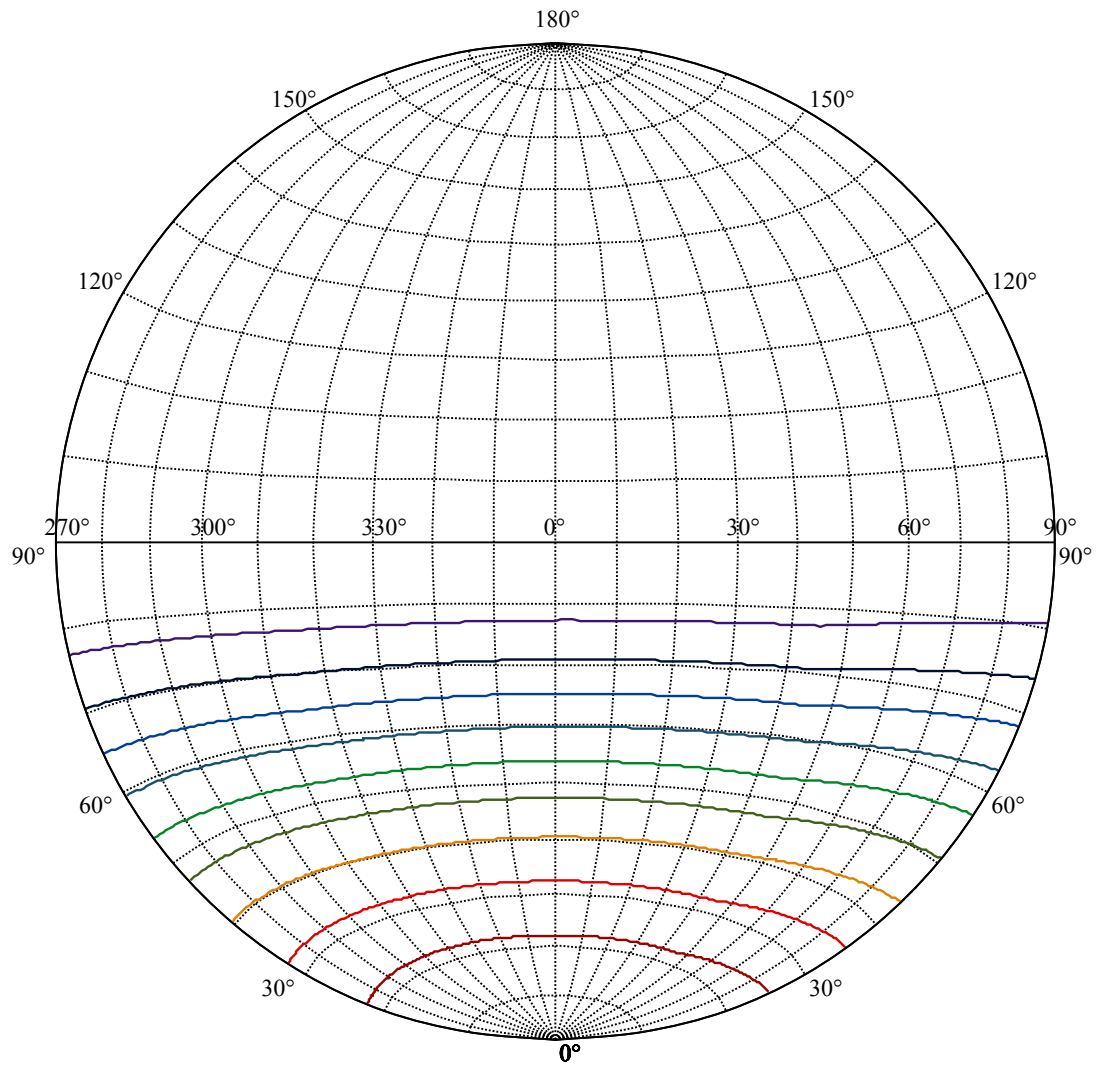
Beam Angle(50%Imax):C0/180Left:56.7 Right:53.9
:C90/270Left:53.6 Right:56.8



Max , Ave Beam angle of C0 plane 110.70



(10%Imax)	27.3731	—
(20%Imax)	54.7462	—
(30%Imax)	82.1193	—
(40%Imax)	109.492	—
(50%Imax)	136.865	—
(60%Imax)	164.239	—
(70%Imax)	191.612	—
(80%Imax)	218.985	—
(90%Imax)	246.358	—



House

[Unit:cd]

Road

Imax:273.73

(10%Imax) 27.3731	—
(20%Imax) 54.7462	—
(30%Imax) 82.1193	—
(40%Imax) 109.492	—
(50%Imax) 136.865	—
(60%Imax) 164.239	—
(70%Imax) 191.612	—
(80%Imax) 218.985	—
(90%Imax) 246.358	—

LE4R-5CCT-5000K

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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	273.73	271.83	267.17	260.18	251.29	240.07	226.95	211.28	193.71
45.0	273.73	271.83	267.38	260.61	251.29	240.07	225.89	210.86	193.50
90.0	273.73	273.31	270.56	264.84	257.22	247.27	235.63	221.23	205.35
135.0	273.73	273.52	270.13	265.05	257.01	246.85	234.36	220.59	203.87
180.0	273.73	273.10	269.92	264.63	256.37	246.42	234.99	220.59	204.08
225.0	273.73	273.31	270.34	264.63	256.80	246.85	234.78	220.17	203.87
270.0	273.73	272.04	267.38	260.61	251.29	239.65	226.52	210.86	193.07
315.0	273.73	272.04	267.38	260.39	251.50	240.28	226.52	210.86	192.23
360.0	273.73	271.83	267.17	260.18	251.29	240.07	226.95	211.28	193.71
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	174.23	154.12	131.89	107.97	83.20	58.85	35.99	16.94	4.45
45.0	173.60	152.85	130.41	107.55	82.99	58.22	35.57	18.00	5.93
90.0	187.15	167.03	145.02	122.58	98.23	73.88	50.60	29.22	12.07
135.0	185.24	164.49	142.69	118.77	94.21	70.07	47.63	27.31	11.86
180.0	185.88	166.19	144.59	121.52	98.02	73.88	49.75	28.16	11.01
225.0	186.09	165.55	143.96	121.09	97.38	73.04	48.90	27.31	11.22
270.0	173.17	152.43	130.62	106.28	81.51	56.74	34.72	15.45	4.23
315.0	172.54	151.37	128.29	103.73	79.39	54.83	33.03	15.67	4.66
360.0	174.23	154.12	131.89	107.97	83.20	58.85	35.99	16.94	4.45
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.42	0.42	0.64	0.64	0.64	0.85	0.85	0.64
45.0	0.85	0.42	0.64	0.42	0.42	0.64	0.64	0.85	0.64
90.0	2.33	0.21	0.00	0.21	0.21	0.21	0.21	0.42	0.42
135.0	1.91	0.00	0.00	0.00	0.21	0.21	0.21	0.42	0.21
180.0	1.69	0.00	0.00	0.21	0.21	0.42	0.21	0.21	0.42
225.0	1.48	0.21	0.21	0.21	0.21	0.00	0.21	0.21	0.00
270.0	0.64	0.64	0.42	0.64	0.42	0.42	0.64	0.85	0.64
315.0	0.64	0.42	0.42	0.64	0.42	0.64	0.64	0.64	0.64
360.0	0.64	0.42	0.42	0.64	0.64	0.64	0.85	0.85	0.64
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.64	0.64	1.06	0.85	1.06	0.85	0.85	0.85	0.64
45.0	1.06	0.85	0.85	0.85	1.06	0.64	0.85	0.85	0.85
90.0	0.42	0.85	0.42	0.64	0.42	0.64	0.85	0.85	0.85
135.0	0.42	0.64	0.64	0.42	0.64	0.64	0.85	0.64	0.85
180.0	0.85	0.64	0.64	0.42	0.64	0.85	0.64	0.85	0.85
225.0	0.64	0.42	0.64	0.85	0.42	0.85	0.85	1.06	0.64
270.0	0.85	0.85	0.85	1.06	0.85	0.85	0.85	0.85	1.06
315.0	0.85	1.06	0.85	1.06	0.85	0.85	0.64	0.85	0.85
360.0	0.64	0.64	1.06	0.85	1.06	0.85	0.85	0.85	0.64
C/ γ (°)	180.0								
0.0	0.85								
45.0	0.85								
90.0	0.85								
135.0	0.85								
180.0	0.85								
225.0	0.85								
270.0	0.85								
315.0	0.85								
360.0	0.85								