



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:LD4R-HO-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.12

LampCAT:

Current(A): 0.1570

Lamp flux(lm): -1.0

Power (W): 18.60

Number of Lamps: 0

PF: 0.9875

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

---

### Photometric Results

Lumens(lm): 1804.57, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 97.02

Central intensity(cd): 4841.441, Maximum intensity(cd): 4861.155

Angle of maximum intensity: C=135.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.8

[C90/270]Total=36.3

Field angle(10%Imax): [C0/180]Total=54.2

[C90/270]Total=53.8

Maximum s/h(1/2): C0\_180=0.59 C90\_270=0.64

Maximum s/h(1/4): C0\_180=0.56 C90\_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.13%

Down flux rate of LUM(%): 99.87%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.723%

---

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

Date:  
Humidity(%): 59%

Operator: Tester

## Zonal flux distribution table

Appendix Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4839.799	0.000	0	0.00%	0.00%
5.0	4597.759	112.823	112.823	0.00%	6.25%
10.0	4027.297	308.545	421.369	0.00%	23.35%
15.0	3167.319	426.780	848.148	0.00%	47.00%
20.0	1920.159	419.280	1267.428	0.00%	70.23%
25.0	756.071	280.687	1548.115	0.00%	85.79%
30.0	203.762	121.468	1669.583	0.00%	92.52%
35.0	81.812	42.053	1711.636	0.00%	94.85%
40.0	47.395	21.557	1733.193	0.00%	96.04%
45.0	36.197	15.478	1748.67	0.00%	96.90%
50.0	27.490	12.869	1761.539	0.00%	97.62%
55.0	22.260	10.817	1772.356	0.00%	98.21%
60.0	17.414	9.170	1781.527	0.00%	98.72%
65.0	12.841	7.355	1788.882	0.00%	99.13%
70.0	8.954	5.519	1794.4	0.00%	99.44%
75.0	5.914	3.886	1798.286	0.00%	99.65%
80.0	3.176	2.432	1800.719	0.00%	99.79%
85.0	1.095	1.161	1801.879	0.00%	99.85%
90.0	0.027	0.307	1802.187	0.00%	99.87%
95.0	0.000	0.007	1802.194	0.00%	99.87%
100.0	0.027	0.007	1802.201	0.00%	99.87%
105.0	0.027	0.015	1802.216	0.00%	99.87%
110.0	0.027	0.014	1802.23	0.00%	99.87%
115.0	0.082	0.028	1802.258	0.00%	99.87%
120.0	0.027	0.027	1802.285	0.00%	99.87%
125.0	0.027	0.013	1802.297	0.00%	99.87%
130.0	0.055	0.018	1802.315	0.00%	99.88%
135.0	0.219	0.055	1802.371	0.00%	99.88%
140.0	0.329	0.101	1802.472	0.00%	99.88%
145.0	0.630	0.160	1802.632	0.00%	99.89%
150.0	1.177	0.266	1802.898	0.00%	99.91%
155.0	1.533	0.343	1803.241	0.00%	99.93%
160.0	1.998	0.370	1803.611	0.00%	99.95%
165.0	2.546	0.375	1803.986	0.00%	99.97%
170.0	2.710	0.312	1804.298	0.00%	99.98%
175.0	2.875	0.200	1804.497	0.00%	100.00%
180.0	3.231	0.073	1804.57	0.00%	100.00%

Equipment: GMS-3000  
Temperature( $^{\circ}$ C): 25

Date:  
Humidity(%): 59%

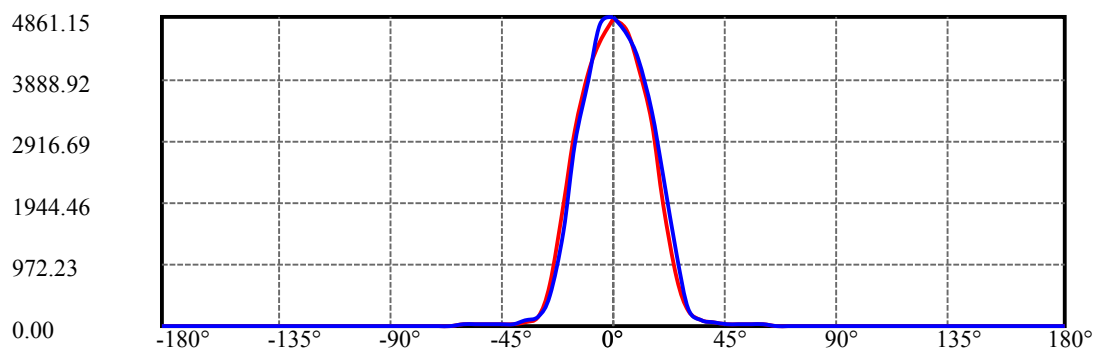
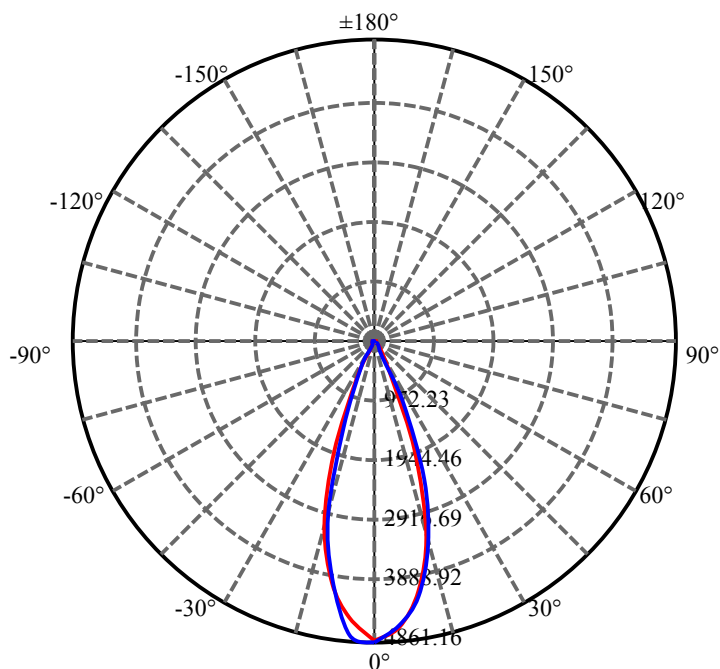
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1669.58	N.A.	92.52%
0-40	1733.19	N.A.	96.04%
0-60	1781.53	N.A.	98.72%
0-90	1802.19	N.A.	99.87%
0-120	1802.28	N.A.	99.87%
0-180	1804.57	N.A.	100.00%
60-90	20.66	N.A.	1.14%
90-120	0.10	N.A.	0.01%
90-130	0.13	N.A.	0.01%
90-150	0.71	N.A.	0.04%
90-180	2.31	N.A.	0.13%
0-23.14	1443.66	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	421.37
10-20	846.06
20-30	402.15
30-40	63.61
40-50	28.35
50-60	19.99
60-70	12.87
70-80	6.32
80-90	1.47
90-100	0.01
100-110	0.03
110-120	0.05
120-130	0.03
130-140	0.16
140-150	0.43
150-160	0.71
160-170	0.69
170-180	0.20

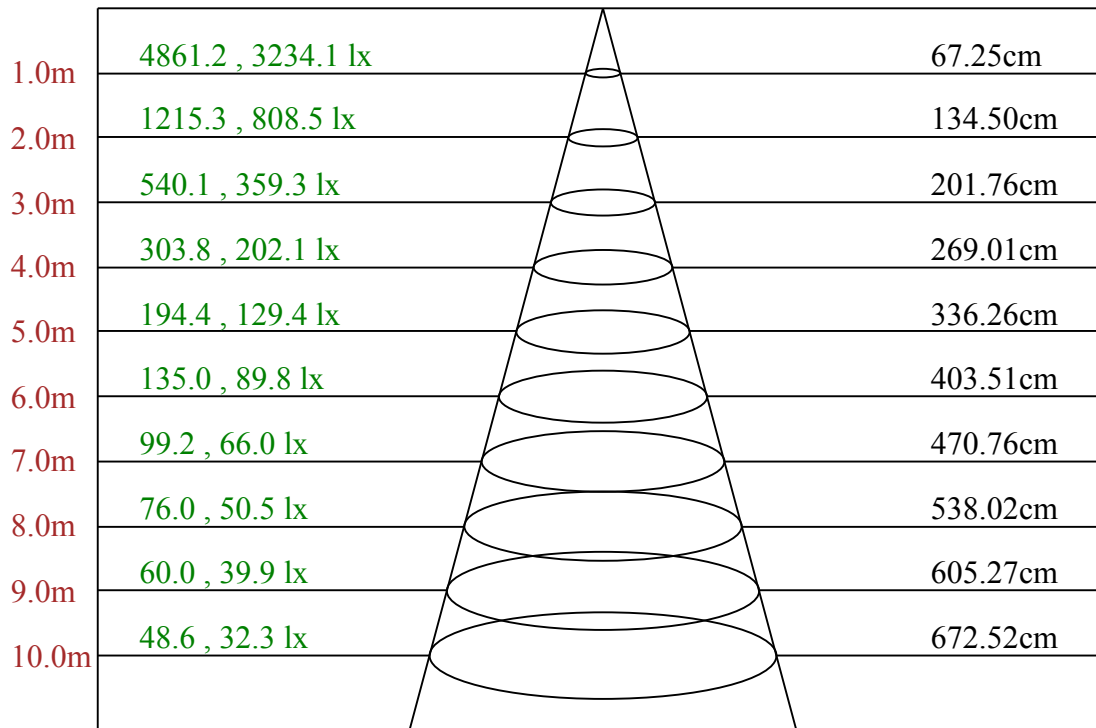


C0/C180: —

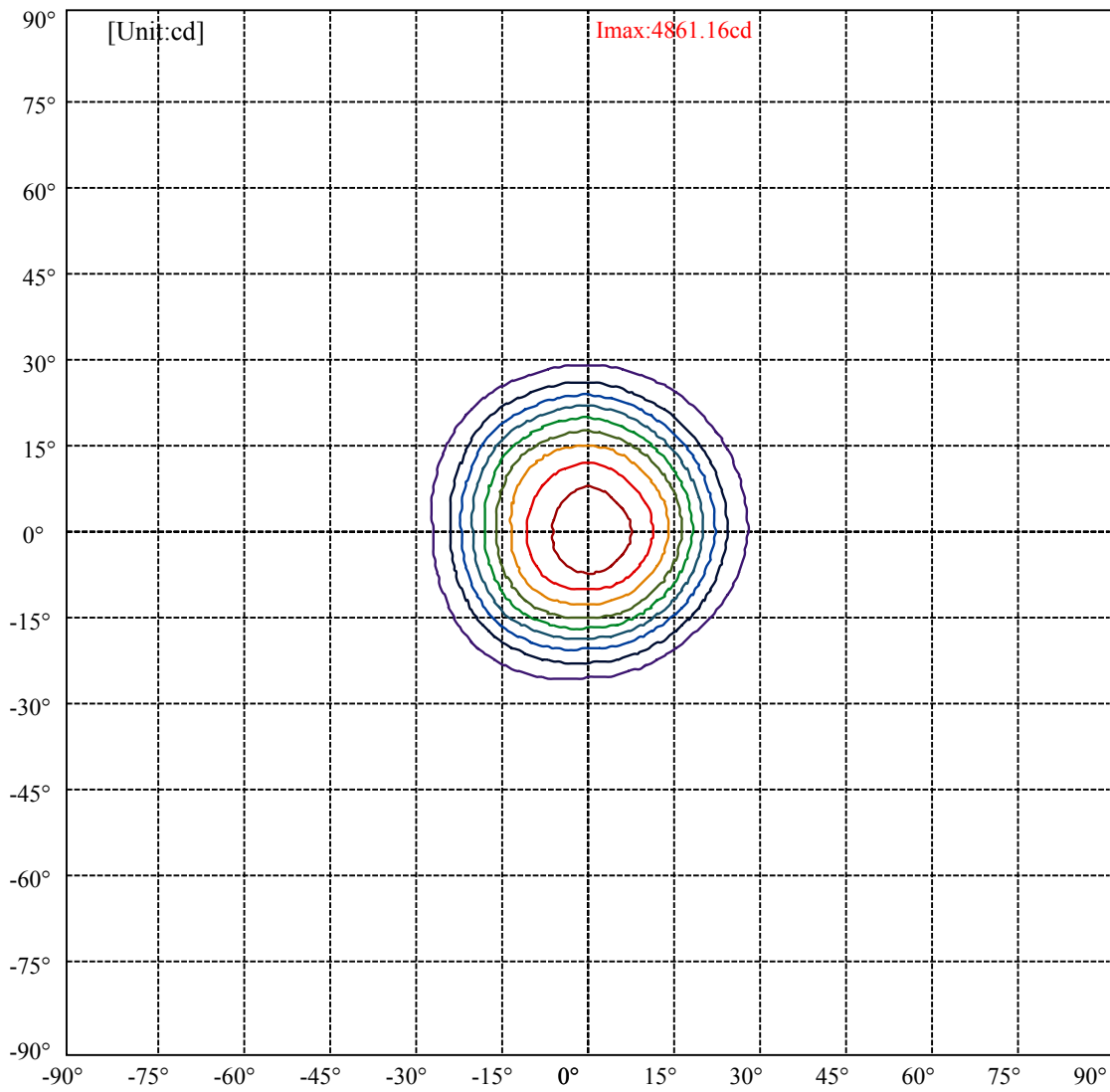
C90/C270: —

Field angle(10%Imax):C0/180Left:26.7 Right:27.5  
:C90/270Left:25.1 Right:28.7

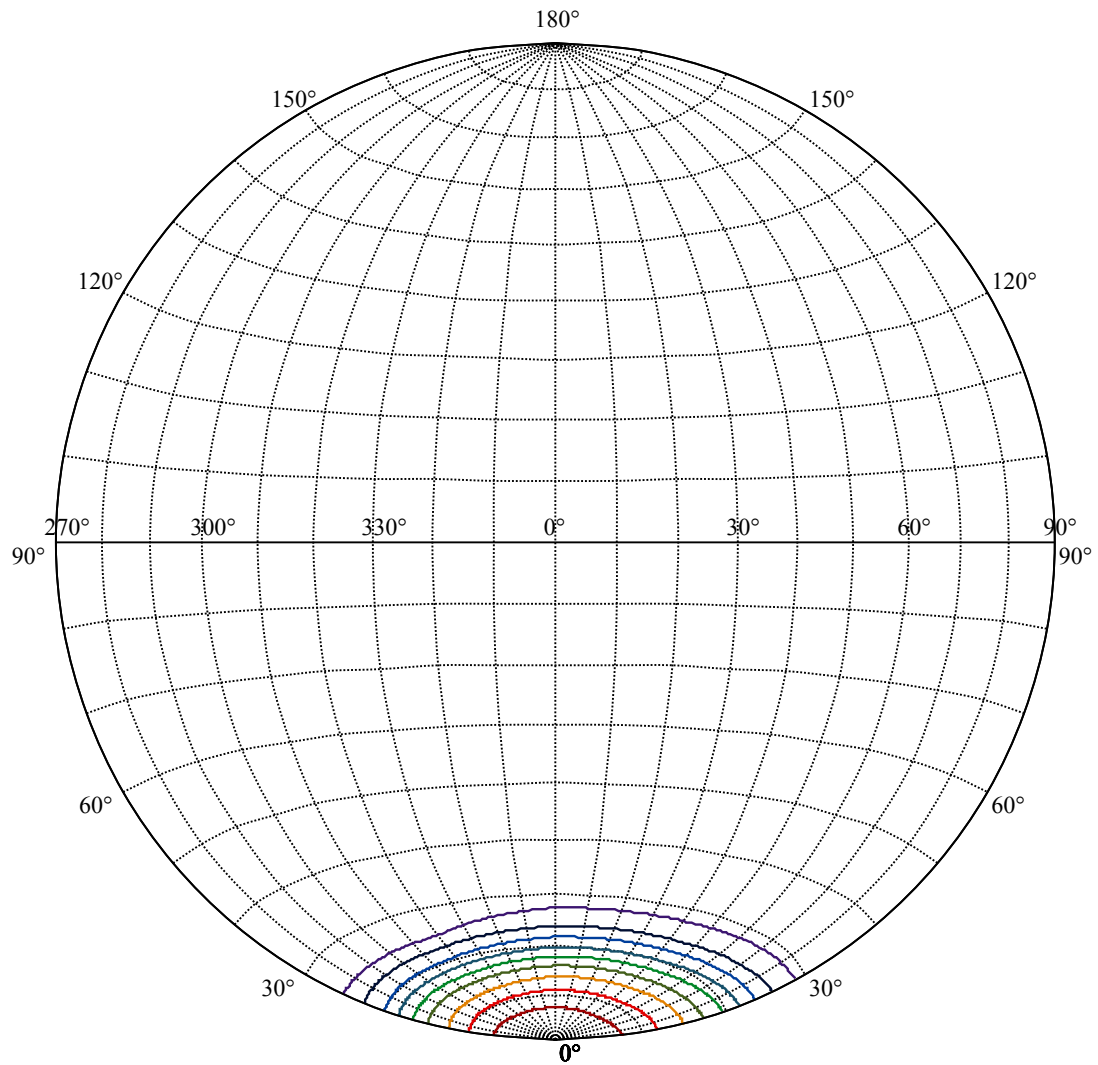
Beam Angle(50%Imax):C0/180Left:17.8 Right:18.0  
:C90/270Left:16.6 Right:19.7



Max , Ave      Beam angle of C135 plane 37.17



(10%Imax) 485.02	—
(20%Imax) 970.041	—
(30%Imax) 1455.06	—
(40%Imax) 1940.08	—
(50%Imax) 2425.1	—
(60%Imax) 2910.12	—
(70%Imax) 3395.14	—
(80%Imax) 3880.16	—
(90%Imax) 4365.18	—



House

[Unit:cd]

Road

**Imax:4861.16**

(10%Imax) 486.115	—
(20%Imax) 972.231	—
(30%Imax) 1458.35	—
(40%Imax) 1944.46	—
(50%Imax) 2430.58	—
(60%Imax) 2916.69	—
(70%Imax) 3402.81	—
(80%Imax) 3888.92	—
(90%Imax) 4375.04	—

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	4841.44	4646.50	4085.10	3212.00	1889.00	740.57	230.87	92.87	46.22
45.0	4806.40	4587.36	4055.53	3227.34	1961.07	770.36	246.64	89.81	46.88
90.0	4850.20	4602.69	4184.32	3387.02	2361.91	1106.81	273.80	86.08	54.54
135.0	4861.16	4541.36	4026.61	3397.97	2309.34	1095.86	296.80	97.47	49.72
180.0	4841.44	4471.26	3976.23	3078.17	1915.07	653.18	154.42	70.09	45.12
225.0	4806.40	4543.55	4035.37	3189.88	1928.21	748.90	180.27	76.45	47.09
270.0	4850.20	4742.87	3875.69	2881.03	1467.35	493.06	137.56	77.98	44.03
315.0	4861.16	4646.50	3979.52	2965.15	1529.34	439.83	109.74	63.74	45.56
360.0	4841.44	4646.50	4085.10	3212.00	1889.00	740.57	230.87	92.87	46.22
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	35.70	27.60	22.12	17.09	12.49	8.54	5.70	2.63	0.88
45.0	36.14	27.16	21.90	16.87	12.49	8.54	5.70	3.07	1.31
90.0	39.87	29.35	23.22	18.40	13.80	9.86	6.57	3.72	1.53
135.0	37.02	27.60	22.56	17.74	12.92	9.20	6.13	3.51	1.10
180.0	34.39	27.16	22.34	17.74	12.92	8.98	5.70	2.85	0.88
225.0	35.92	27.16	22.34	17.74	12.92	9.20	6.13	3.51	1.31
270.0	34.83	26.72	21.47	16.87	12.49	8.54	5.70	3.07	1.10
315.0	35.70	27.16	22.12	16.87	12.70	8.76	5.70	3.07	0.66
360.0	35.70	27.60	22.12	17.09	12.49	8.54	5.70	2.63	0.88
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.22	0.00	0.22	0.00	0.22	0.44	0.22	0.22	0.22
315.0	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.22
360.0	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00
C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.44	0.44	0.66	1.31	1.75	2.19	2.41	2.85	2.85
45.0	0.22	0.44	0.66	0.88	1.53	1.97	2.63	2.63	2.85
90.0	0.22	0.22	0.66	1.10	1.31	1.75	2.41	2.41	2.85
135.0	0.00	0.00	0.44	0.66	1.10	1.53	2.41	2.63	2.63
180.0	0.00	0.00	0.44	1.10	1.53	1.75	2.41	2.63	2.63
225.0	0.00	0.00	0.44	1.10	1.10	1.97	2.41	2.63	2.85
270.0	0.66	0.88	1.10	1.97	2.19	2.63	3.29	3.29	3.51
315.0	0.22	0.66	0.66	1.31	1.75	2.19	2.41	2.63	2.85
360.0	0.44	0.44	0.66	1.31	1.75	2.19	2.41	2.85	2.85
C/ $\gamma$ (°)	180.0								
0.0	3.07								
45.0	3.29								
90.0	3.51								
135.0	3.07								
180.0	3.07								
225.0	3.29								
270.0	3.51								
315.0	3.07								
360.0	3.07								