

# CLDC series recessed LED downlight

## CLDC Series SMD LED Downlight



3 inch  
CLDC-0105



4 inch  
CLDC-0109



6 inch  
CLDC-0118



8 inch  
CLDC-0124



Back view heat sink



LED driver inside view



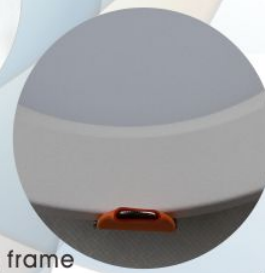
Spring clip system



PF > 0.9 isolated LED driver  
High reliability connector



Cable clamp  
Strain relief bushing  
FRP isolating sleeve



Front view white coating frame

www.coolightled.com

SHENZHEN COOLIGHT OPT-ELE CO.,LTD

4/F, Bldg. C, Chuangfu Science & Technology Park, Beihuan Rd., Shiyan Town, Shenzhen, China, 518108  
Tel: +86-755-8452 8176 Fax: +86-755-8452 8173 E-mail: [sales@coolightled.com](mailto:sales@coolightled.com) Website: [www.coolightled.com](http://www.coolightled.com)

**Product highlight:**

1. Coolight self-design high stability isolated constant current LED driver,
2. Excellent performance heat sink design,
3. Optimized LED arrangement and fixture design to get perfect light distribution curve,
4. Low glare rate, good light quality output,
5. Cable clamp, strain relief bushing and FRP isolating sleeve to avoid damage,
6. Well-designed cut size, ideal replacement for traditional downlights directly.

**Specification:**

Product Name: CLDC series recessed LED downlight

Power consumption: 7W for 3inch, 12W for 4inch, 20W for 6inch, 30W for 8inch

Heat sink material: Die-casting aluminum

LED driver type: Isolated constant current LED driver

LED driver input voltage: 100-240V AC

LED driver PF: PF>0.9

Standard CRI: CRI>80 (3000K,4000K); CRI>70 (6000K)

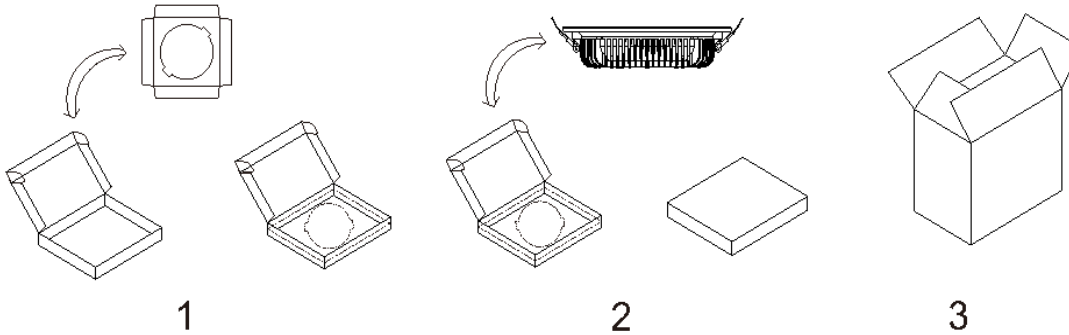
Beam angle: 100 degree

Color temperature: 3000k, 4000k, 6000k optional

Luminous flux: detail lumen information as following table

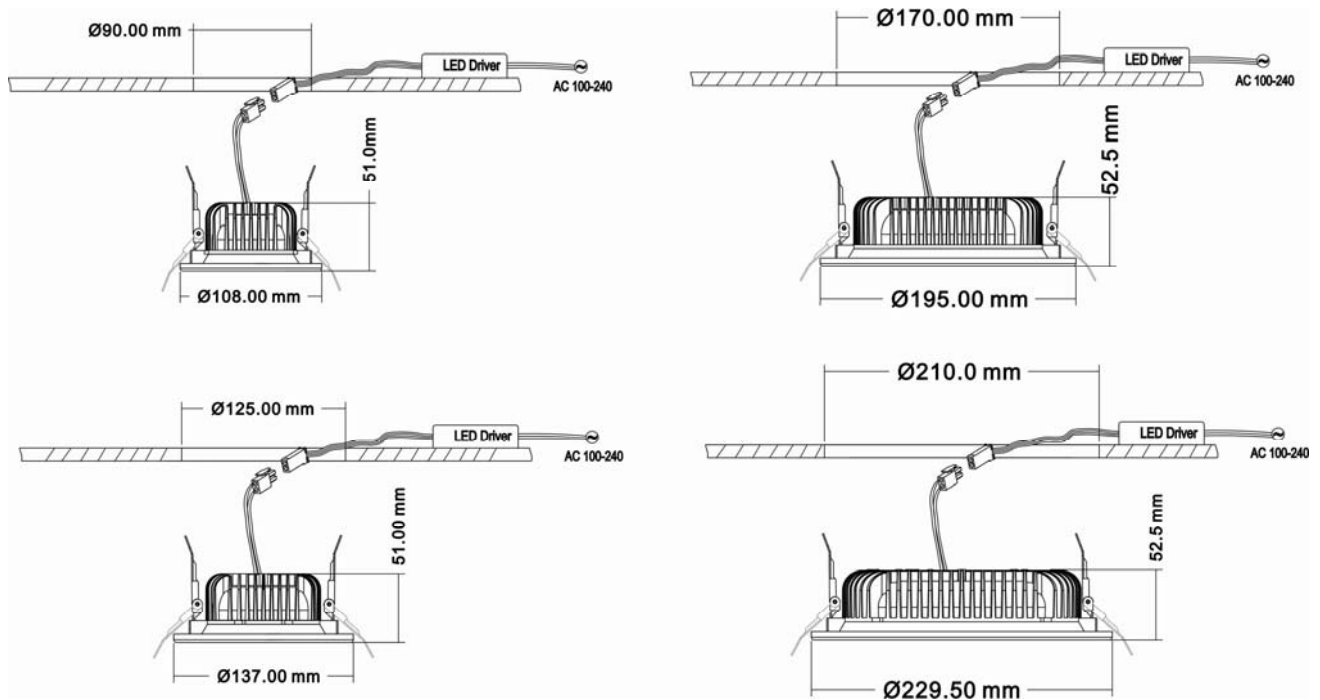
| Product Name     | Part No.  | Input Voltage | Input Current (A) | Power (W)       | Power Factor | Luminous flux (lm) | CCT (K) | CRI             | Beame Angle | Cut Size (mm) | Weight(g) |      |      |      |      |      |     |      |      |     |     |
|------------------|-----------|---------------|-------------------|-----------------|--------------|--------------------|---------|-----------------|-------------|---------------|-----------|------|------|------|------|------|-----|------|------|-----|-----|
|                  |           |               |                   |                 |              |                    |         |                 |             |               | N.W       | G.W  |      |      |      |      |     |      |      |     |     |
| 3" LED Downlight | CLDC-0105 | 100-240VAC    | 0.033 (@220VAC)   | 7               | >0.9         | 410                | 6000    | >70             | 100°        | Ø90           | 270       | 320  |      |      |      |      |     |      |      |     |     |
|                  |           |               |                   |                 |              | 390                | 4000    | >80             |             |               |           |      |      |      |      |      |     |      |      |     |     |
|                  |           |               |                   |                 |              | 370                | 3000    | >80             |             |               |           |      |      |      |      |      |     |      |      |     |     |
| 4" LED Downlight | CLDC-0109 |               | 100-240VAC        | 0.057 (@220VAC) |              | 12                 | >0.9    | 850             |             | 6000          | >70       | 100° | Ø125 | 364  | 445  |      |     |      |      |     |     |
|                  |           |               |                   |                 |              |                    |         | 780             |             | 4000          | >80       |      |      |      |      |      |     |      |      |     |     |
|                  |           |               |                   |                 |              |                    |         | 750             |             | 3000          | >80       |      |      |      |      |      |     |      |      |     |     |
| 6" LED Downlight | CLDC-0118 |               |                   | 100-240VAC      |              | 0.096 (@220VAC)    |         | 20              |             | >0.9          | 1880      |      | 6000 | >70  | 100° | Ø170 | 570 | 670  |      |     |     |
|                  |           |               |                   |                 |              |                    |         |                 |             |               | 1470      |      | 4000 | >80  |      |      |     |      |      |     |     |
|                  |           |               |                   |                 |              |                    |         |                 |             |               | 1370      |      | 3000 | >80  |      |      |     |      |      |     |     |
| 8" LED Downlight | CLDC-0124 |               |                   |                 |              | 100-240VAC         |         | 0.144 (@220VAC) |             |               | 30        |      | >0.9 | 2050 |      | 6000 | >70 | 100° | Ø210 | 815 | 960 |
|                  |           |               |                   |                 |              |                    |         |                 |             |               |           |      |      | 1960 |      | 4000 | >80 |      |      |     |     |
|                  |           |               |                   |                 |              |                    |         |                 |             |               |           |      |      | 1810 |      | 3000 | >80 |      |      |     |     |

**Package information:**



| Part No.   | Single box (mm) | G.W. per pcs (±5%) | Outer carton (mm) | QTY per Carton (pcs) | G.W per carton (±5%) |
|------------|-----------------|--------------------|-------------------|----------------------|----------------------|
| CLDC- 0105 | 120*120*95      | 320g               | 610*245*485       | 40                   | 14.1kg               |
| CLDC- 0109 | 190*185*70      | 445g               | 560*385*360       | 30                   | 15.0kg               |
| CLDC- 0118 | 250*245*75      | 670g               | 505*500*385       | 20                   | 14.9kg               |
| CLDC- 0124 | 285*280*70      | 960g               | 575*565*360       | 20                   | 20.5kg               |

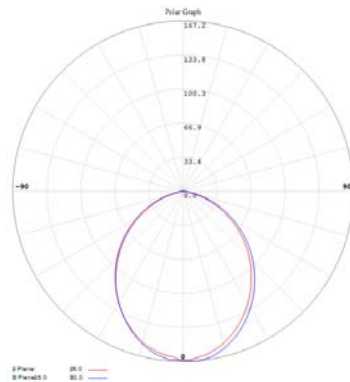
**Cut size and installation diagram:**



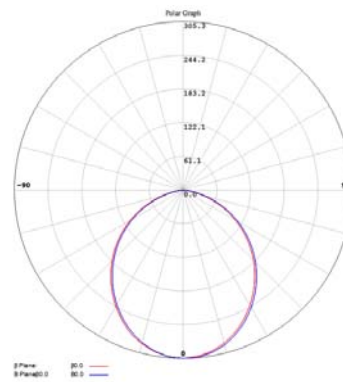
**CAUTION:**

- 1) Indoor use only.
- 2) Working temperature: -20-40 degree.
- 3) Please turn off power prior to installation, replacement and cleaning.
- 4) Do not try to disassemble the lamp.
- 5) Non-dimmable, can't be installed in dimming circuit.

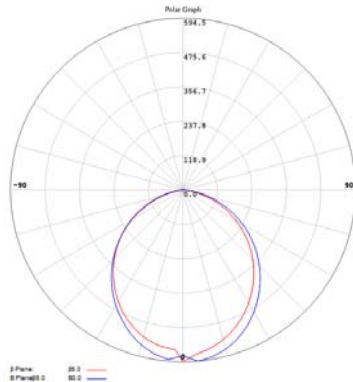
**Light Distribution Curve(cd)**



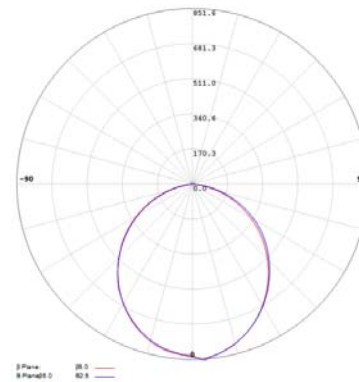
CLDC-0105



CLDC-0109

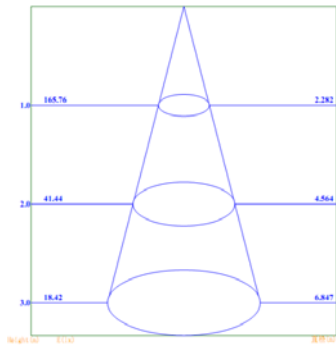


CLDC-0118

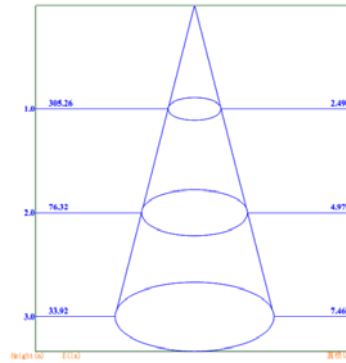


CLDC-0124

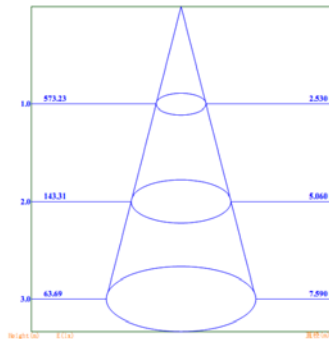
**Lux test diagram**



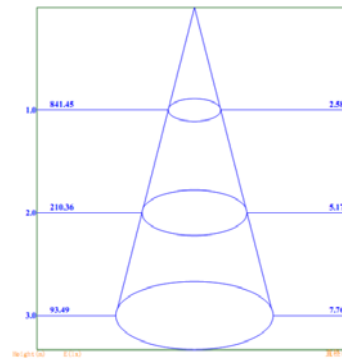
CLDC-0105



CLDC-0109



CLDC-0118



CLDC-0124