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FREELICHT DLE04-D612-C5T-1000120

FREELICHT 6 Inch 5CCT Ultra-Thin LED Recessed Ceiling Light Instruction Manual

Brand: FREELICHT | Model: DLE04-D612-C5T-1000120

1. PRODUCT OVERVIEW

The FREELICHT 6 Inch 5CCT Ultra-Thin LED Recessed Ceiling Light is a versatile and energy-efficient lighting solution designed for various indoor applications. This canless downlight features selectable color temperatures (2700K, 3000K, 3500K, 4000K, 5000K) and smooth dimming capabilities from 5% to 100%. Its ultra-thin design allows for easy installation in limited ceiling spaces, including soffits and around joists. Each light comes with its own junction box, simplifying the wiring process. The product is IC rated, ETL, and FCC certified, ensuring safety and reliability.



Figure 1: FREELIGHT 6 Inch 5CCT Ultra-Thin LED Recessed Ceiling Light with Junction Box.

Key Features:

- **Trustworthiness:** IC rated, ETL & FCC certified, thermally protected junction box.
- **Easy Installation:** Low profile design suitable for retrofit and new decoration, requires as little as 2 inches ceiling space, no recessed can needed.
- **5 CCT Selectable:** Choose between 2700K (soft white), 3000K (warm white), 3500K (neutral white), 4000K (cool white), or 5000K (daylight) to suit your preference.
- **High Brightness:** 1050 lumens brightness with 12 Watts power consumption, equivalent to a 110W halogen lamp, offering significant energy savings.
- **Wide Application:** Ultra-thin body, 5%-100% smooth dimming, compatible with most dimmers, suitable for damp locations like kitchens, living rooms, bedrooms, bathrooms, workplaces, and outside soffits.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all components are present and undamaged:

- LED Recessed Lights (Quantity: 6)
- Junction Box (Quantity: 6)
- Instruction Manual
- Cut Out Template

3. SPECIFICATIONS

Refer to the table below for detailed product specifications:

| Attribute | Value |
|---------------------------|--|
| Brand | FREELICHT |
| Model Name | DLE04-D612-C5T-1000120 |
| Color | White |
| Material | Metal, Plastic |
| Style | No can needed |
| Light Fixture Form | Recessed |
| Room Type | Living room, bedroom, bathroom, kitchen, workplace, basement, soffit and other hard to reach spaces. |
| Product Dimensions | 6.69"L x 6.69"W x 1.57"H |
| Specific Uses For Product | Illumination |
| Indoor/Outdoor Usage | Indoor |
| Power Source | Corded Electric |
| Installation Type | Recessed |
| Special Feature | 5%-100% Smooth Dimmable, Certified by ETL & Energy Star, Damp Rated, Easy to install without a can, Instant on |
| Control Method | Touch |
| Light Source Type | LED |
| Finish Type | Painted |
| Shade Material | Plastic |
| Number of Light Sources | 6 |
| Voltage | 120 Volts |
| Light Color | 5 CCT (2700K, 3000K, 3500K, 4000K, 5000K) |
| Shape | Round |

| Attribute | Value |
|------------------------|--|
| Included Components | Cut Out Template, Instruction Manual, Junction Box, Lights |
| Lighting Method | Downlight |
| Specification Met | ETL, FCC |
| Item Weight | 3.63 Pounds |
| Number of Items | 6 |
| Wattage | 12 watts |
| Switch Type | Touch |
| Unit Count | 6.0 Count |
| Water Resistance Level | Water Resistant |
| Brightness | 1050 Lumen |
| Efficiency | 87.5 lumens per watt |
| Mounting Type | Ceiling Mount |
| Shade Color | White |
| Fixture Type | Freestanding |
| Assembly Required | Yes |
| Manufacturer | KY |
| Size | 6 Inch |
| Part Number | DLE04-D612-C5T-1000120 |
| Finish types | Painted |
| Batteries Included? | No |
| Batteries Required? | No |
| ASIN | B0CLRLN49S |
| Date First Available | October 25, 2023 |

4. SETUP & INSTALLATION

The FREELIGHT recessed lights are designed for easy installation without the need for a traditional recessed can. Follow these steps for a quick and secure setup:

- 1. Prepare the Ceiling:** Ensure the power is turned off at the circuit breaker before beginning installation. Use the provided cut-out template to mark the desired hole location on your ceiling.
- 2. Cut the Hole:** Using a suitable hole saw, cut a 6.33-inch diameter hole in the marked location. The ultra-thin design

allows installation in ceiling spaces as small as 2 inches, fitting soffit, single, and double drywall ceilings, and can be installed around joists.

3. **Connect Wiring:** Open the junction box and connect the household wiring to the quick connectors inside the box. Ensure proper polarity (Live to Live, Neutral to Neutral, Ground to Ground). Secure the wiring connections.
4. **Connect Light Panel:** Connect the cable from the LED light panel to the junction box.
5. **Mount Light:** Push the spring clips on the sides of the light panel upwards and insert the light into the ceiling hole. The clips will automatically secure the light in place against the ceiling.



Figure 2: Easy Installation Steps.



Set up Anywhere

Perfect for locations where height clearance is limited

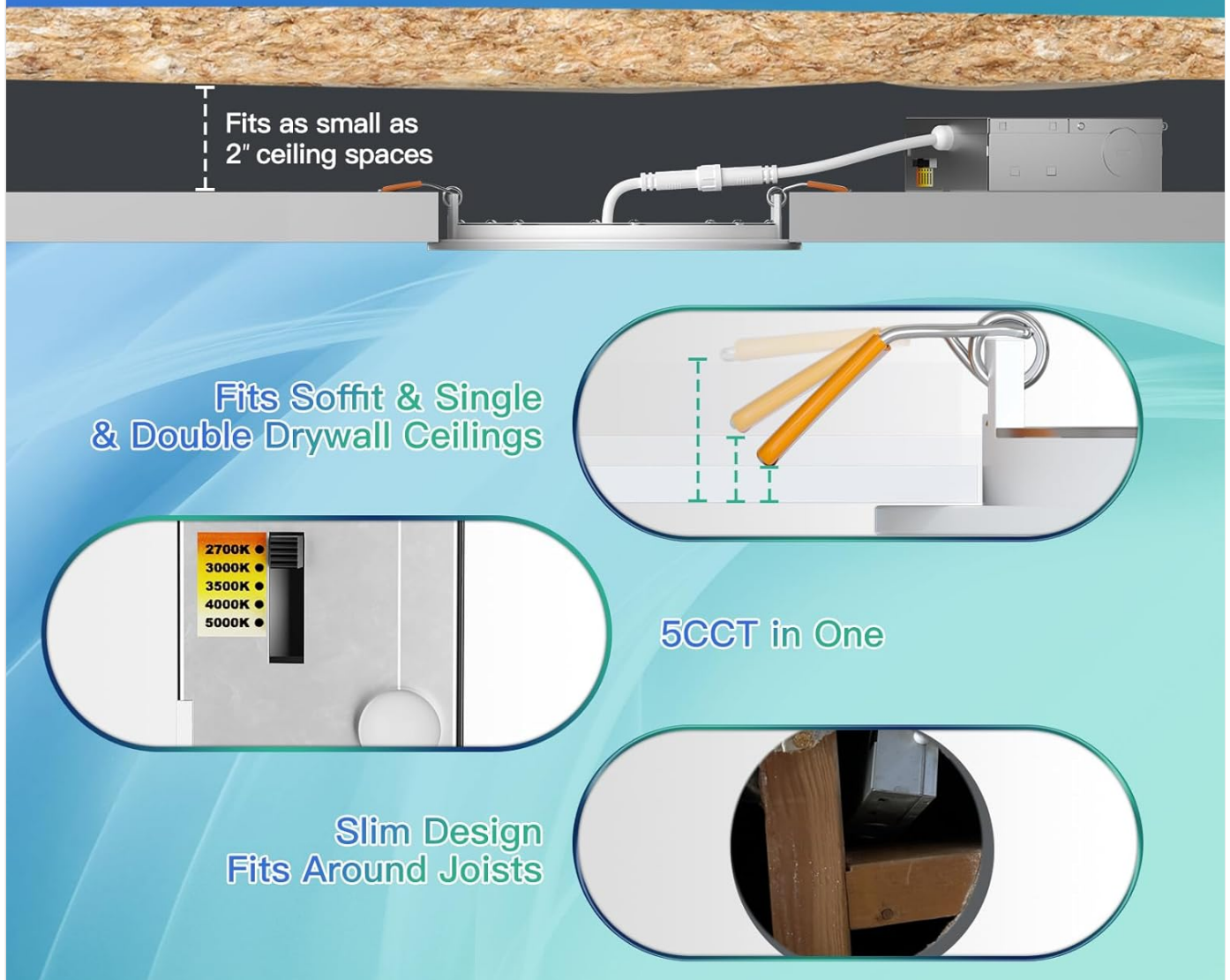


Figure 3: Installation Flexibility in Various Ceiling Types.

5. OPERATING INSTRUCTIONS

The FREELIGHT LED Recessed Ceiling Light offers adjustable color temperature and dimming features for customized lighting.

5.1. 5 CCT (Correlated Color Temperature) Selection

Each light fixture is equipped with a switch on the junction box that allows you to select one of five color temperatures:

- **2700K:** Soft White (ideal for bedrooms)
- **3000K:** Warm White (ideal for kitchens)
- **3500K:** Neutral White (ideal for studies or corridors)
- **4000K:** Cool White (ideal for bathrooms)
- **5000K:** Daylight (ideal for living rooms)

To change the CCT, locate the switch on the side of the junction box and slide it to your desired setting before installing the light or if you need to change it later, access the junction box.



Figure 4: 5 CCT Options for Various Room Settings.

5.2. Dimming Functionality

These lights support smooth dimming from 5% to 100% brightness. They are compatible with most standard LED dimmers. For optimal performance, refer to the list of highly compatible dimmers provided in the product specifications or consult the manufacturer's website.



Stepless Dimming

Compatible with most non-smart dimmers

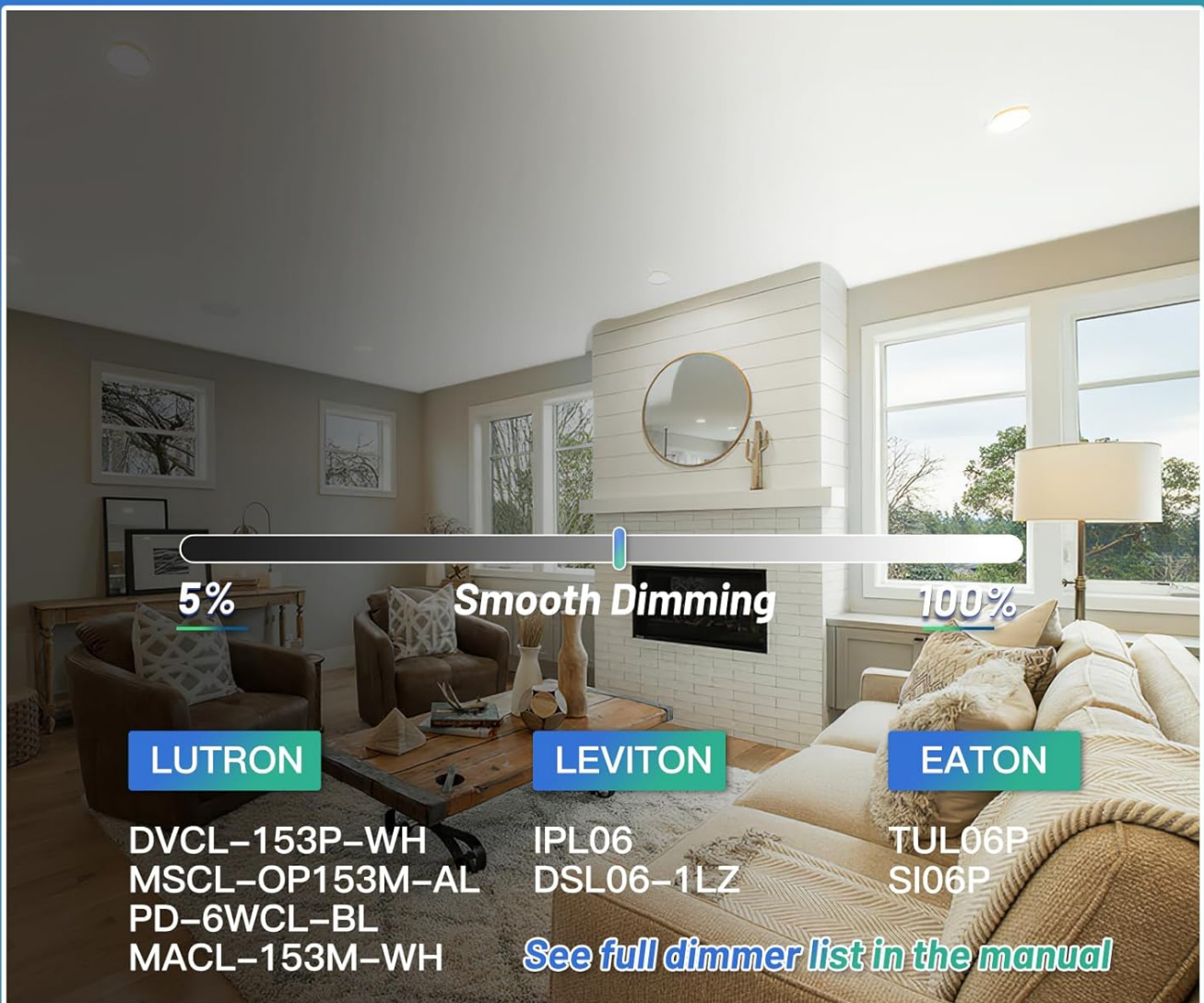


Figure 5: Smooth Dimming Capability and Compatible Dimmers.

6. MAINTENANCE

The FREELIGHT LED Recessed Ceiling Lights are designed for long-lasting performance with minimal maintenance. To ensure optimal appearance and functionality:

- **Cleaning:** Gently wipe the surface of the light with a soft, dry or slightly damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or electrical components.
- **Inspection:** Periodically check the lights for any signs of damage or loose connections. If any issues are observed, consult a qualified electrician.

7. TROUBLESHOOTING

If you encounter any issues with your FREELIGHT LED Recessed Ceiling Lights, please refer to the following common troubleshooting tips:

| Problem | Possible Cause | Solution |
|-------------------------------------|--|--|
| Light does not turn on | No power supply; Loose wiring connection; Faulty light fixture. | Check circuit breaker and wall switch. Ensure all wiring connections in the junction box are secure. If problem persists, contact customer support. |
| Light flickers or hums | Incompatible dimmer switch; Loose wiring; Electrical interference. | Ensure your dimmer switch is compatible with LED lights. Check wiring connections. If flickering persists, try a different dimmer or consult an electrician. |
| Incorrect color temperature | CCT switch set incorrectly. | Access the junction box and adjust the CCT selector switch to the desired setting. |
| Dimming not smooth or limited range | Incompatible dimmer switch; Dimmer not properly configured. | Verify dimmer compatibility. Some dimmers have adjustment screws for minimum/maximum brightness; consult your dimmer's manual. |

8. WARRANTY & SUPPORT

FREELICHT is committed to providing high-quality products and excellent customer service.

- **Product Support:** We offer 5 years of product support for your FREELICHT LED Recessed Ceiling Lights.
- **Customer Service:** Our customer support team aims to respond to all inquiries within 24 hours.
- For further assistance or to explore more products, please visit the official [FREELICHT Store](#).