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› NUWATT 6-Inch 2-Hour Fire Rated Recessed LED Light Instruction Manual

NUWATT NW-P-DL-6-15W-5CT-FR-WH-6P

NUWATT 6-Inch 2-Hour Fire Rated Recessed LED Light Instruction Manual

Model: NW-P-DL-6-15W-5CT-FR-WH-6P

1. INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of your NUWATT 6-inch 2-hour fire rated recessed LED lights. Please read this manual thoroughly before installation and retain it for future reference. These lights are designed for both residential and commercial applications, offering selectable color temperatures, dimmable functionality, and a robust fire-rated design.



Image 1.1: NUWATT 6-inch 2-hour fire rated recessed LED light with its associated junction box and wiring connectors.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power at the fuse box or circuit breaker before installation or servicing.

- Installation must be performed by a qualified electrician in accordance with the National Electrical Code and local codes.
- Ensure the supply voltage is 120V AC, 60Hz.
- Do not modify or alter the fixture.
- Do not install in areas with explosive atmospheres.

- This fixture is suitable for wet locations and IC (Insulated Ceiling) rated, meaning it can be in direct contact with insulation.
- The fixture is 2-hour fire rated, meeting UL263 standards. No additional fire-rated covers are required.
- Always wear safety glasses and gloves during installation.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- NUWATT 2 Hour Fire Rated LED Recessed Light (Quantity as per pack size)
- Diecast Aluminum Junction Box
- Wiring Instructions (this manual)
- Cutout Hole Template

4. PRODUCT FEATURES

The NUWATT 6-inch recessed LED light offers advanced features for safety and versatility:

- **2-Hour Fire Rated:** Independently tested to withstand fire exposure for up to 2 hours (UL263, ASTM E119, ULC S101 standards). Eliminates the need for additional tenmat recessed light covers.
- **5 CCT Selectable:** Choose from 2700K (Soft White), 3000K (Warm White), 3500K (Neutral White), 4000K (Cool White), and 5000K (Daylight) using a switch on the junction box.
- **Dimmable:** Compatible with most standard dimmers, allowing dimming from 100% down to 10%.
- **High CRI 90+:** Provides accurate color rendering for vibrant and true-to-life illumination.
- **IC Rated & Air Tight:** Suitable for direct contact with insulation and prevents air leakage, improving energy efficiency.
- **Wet Rated:** Ideal for use in bathrooms, outdoor soffits, and other damp or wet locations.
- **Ultra-Thin Design:** Canless installation with a low-profile junction box, fitting into tight ceiling spaces.
- **Durable Construction:** Features fire-resistant steel, die-cast aluminum frame, and heavy-duty steel clips for secure installation.



6 INCH FIRE RATED ULTRA THIN DOWNLIGHT

SPECIFICATIONS



5^{YR}

WARRANTY

— CERTIFICATIONS —



Proud
AMERICAN
COMPANY

5 CCT

27K/30K
35K/40K/50K



FIRE RATED
2 HOURS

15W

=100W POWER



120
VOLT



1200
LUMENS



AIR TIGHT
SEAL



CANLESS
INSTALL



DIMMABLE
100-10%



WET
RATED



HIGH
BRIGHTNESS



IC
RATED



LED
TECH

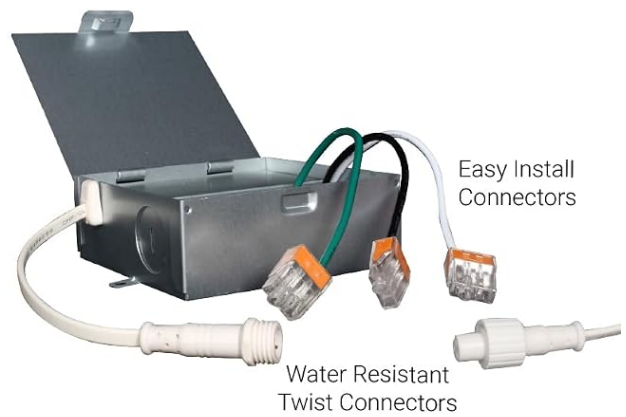
Image 4.1: Overview of product certifications (ETL, Energy Star) and key features.

WIRE LOCK
Fail Safe Feature

FITS UP TO 1.5" DRYWALL
Steel Mount Clips



ULTRA THIN DESIGN
IC Rated for Limited Ceiling Space



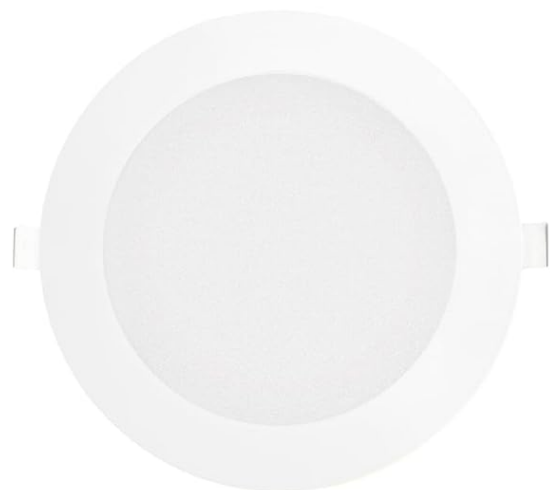
QUALITY PARTS & MATERIALS
Built to Last & Easy to Install

THE NUWATT

ADVANTAGE



5 CCT COLOR SELECTION
27K/30K/35K/40K/50K Temperatures



ACRYLIC LENS
High Quality Non-Yellowing Lens

Image 4.2: Close-up of various components and features, including the wire lock and CCT switch.

5. SPECIFICATIONS

Attribute	Value
Brand	NUWATT
Model Name	NW-P-DL-6-15W-5CT-FR-WH-6P
Size	6 Inch
Wattage	15 Watts
Brightness	1200 Lumens

Attribute	Value
Color Temperature	2700K, 3000K, 3500K, 4000K, 5000K Selectable
Voltage	120 Volts
CRI	90+
Dimmable	Yes (10-100%)
Fire Rating	2 Hour (UL263, ASTM E119, ULC S101)
IC Rated	Yes
Wet Rated	Yes
Material	Fire Rated Steel, Diecast Aluminum, Polycarbonate
Product Dimensions	6.85"L x 6.85"W x 1.5"H
Certifications	ETL, Energy Star, FCC, RoHS, UL Standard

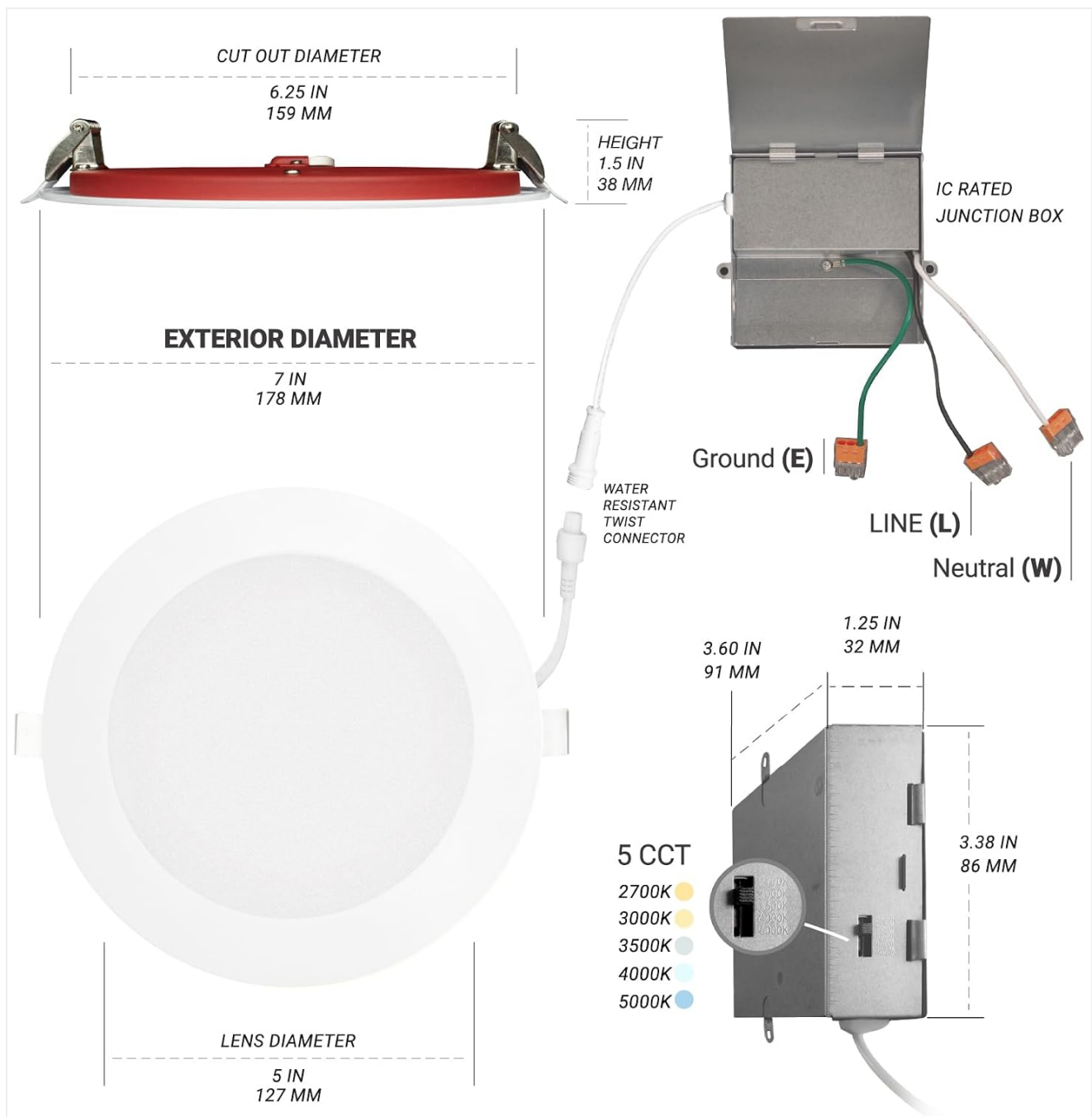


Image 5.1: Dimensional drawing of the recessed light and junction box with wiring details.

6. INSTALLATION INSTRUCTIONS

Follow these steps for a safe and proper installation:

1. **Turn Off Power:** Before starting, ensure the power supply to the installation area is completely turned off at the circuit breaker or fuse box.
2. **Cut Hole:** Use the provided template to mark the desired location on the ceiling. Cut a 6-1/4 inch (158mm) diameter hole. Ensure there are no obstructions behind the ceiling.
3. **Connect Wires:** Open the junction box. Connect the supply wires to the corresponding wires in the junction box using the provided push connectors: black to black (Line), white to white (Neutral), and green/bare copper to green (Ground). Ensure all connections are secure.
4. **Select Color Temperature (CCT):** Locate the CCT selection switch inside the junction box. Choose your desired color temperature (2700K, 3000K, 3500K, 4000K, or 5000K) before closing the junction box.
5. **Secure Junction Box:** Place the junction box through the cutout hole and secure it above the ceiling. The IC

rating allows it to be in direct contact with insulation.

6. **Connect Light to Junction Box:** Connect the male connector from the light fixture to the female connector from the junction box. Ensure a tight, water-resistant connection.
7. **Insert Light Fixture:** Gently push the spring-loaded clips on the side of the light fixture upwards and insert the fixture into the ceiling cutout. The clips will spring back down to hold the fixture securely in place.
8. **Restore Power:** Once the fixture is securely installed, restore power at the circuit breaker.



Image 6.1: Step-by-step visual guide for the canless installation process.

Your browser does not support the video tag.

Video 6.1: Official product video demonstrating the features and installation of the NuWatt 2 Hour Fire Rated LED Downlight.

7. OPERATING INSTRUCTIONS

Your NUWATT recessed LED light is designed for simple operation:

- **Power On/Off:** Use a standard wall switch to turn the light fixture on or off.
- **Color Temperature Selection:** The desired color temperature (CCT) must be selected using the switch located inside the junction box *before* installation. Once installed, if you wish to change the CCT, you will need to carefully remove the fixture to access the junction box.
- **Dimming:** If connected to a compatible dimmer switch, you can adjust the brightness from 100% down to 10%. Ensure your dimmer switch is rated for LED lighting.



Image 7.1: Illustration of the 5 selectable color temperatures (CCT) available.

8. MAINTENANCE

These LED lights require minimal maintenance:

- **Cleaning:** Ensure the power is off before cleaning. Wipe the fixture with a soft, dry, or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Bulb Replacement:** The LED light source is integrated and not user-replaceable. The fixture is designed for long-term use.
- **Inspection:** Periodically inspect the fixture for any signs of damage or loose connections. If any issues are found, disconnect power and consult a qualified electrician.

9. TROUBLESHOOTING

If you encounter issues with your NUWATT recessed LED light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on	No power supply; Loose wiring connection; Faulty fixture.	Check circuit breaker/fuse. Verify all wire connections are secure. If problem persists, contact customer support.

Problem	Possible Cause	Solution
Light flickers or dims inconsistently	Incompatible dimmer switch; Loose wiring; Voltage fluctuations.	Ensure dimmer is LED compatible. Check wiring connections. Consult an electrician for voltage issues.
Incorrect color temperature	CCT switch set incorrectly.	Disconnect power, carefully remove fixture, and adjust the CCT switch inside the junction box.
Light makes buzzing noise	Incompatible dimmer switch; Loose wiring.	Replace dimmer with an LED-compatible model. Check wiring connections.

10. WARRANTY AND CUSTOMER SUPPORT

NUWATT stands behind the quality of its products.

- **Warranty:** All NUWATT LED recessed lighting fixtures are backed by a 5-year warranty. This warranty covers defects in materials and workmanship under normal use.
- **Customer Service:** For any questions, technical assistance, or warranty claims, please contact our US-based customer service team. Refer to the contact information provided on the product packaging or the official NUWATT website.

Please have your model number (NW-P-DL-6-15W-5CT-FR-WH-6P) and proof of purchase ready when contacting support.