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## E ENERGETIC LIGHTING ZDL1215-L50K92750

# Energetic 5CCT 120V LED Step Lights Instruction Manual

Model: ZDL1215-L50K92750 | Brand: E ENERGETIC LIGHTING

## 1. INTRODUCTION

Thank you for choosing the Energetic 5CCT 120V LED Step Lights. These durable and versatile lights are designed for both indoor and outdoor applications, providing adjustable illumination for stairs, pathways, and other areas. Featuring 5 selectable color temperatures and dimmable functionality, these IP65 waterproof lights are built with high-quality aluminum for longevity and performance.

## 2. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Retain this manual for future reference.

- **Electrical Safety:** Installation should be performed by a qualified electrician or a person familiar with the construction and operation of the product and the hazards involved. Ensure power is turned off at the circuit breaker before installation or maintenance.
- **Voltage:** This product operates directly at 120V AC. Do not connect to any other voltage supply. No additional transformers are required.
- **Grounding:** Proper grounding is essential to ensure safety.
- **Location:** Suitable for wet locations (IP65 rated). Ensure all connections are sealed properly to maintain waterproof integrity.
- **Integrated LED:** The LED chips are integrated and not replaceable. Do not attempt to open or modify the light fixture.
- **Operating Temperature:** Designed to operate within a temperature range of -4°F to 104°F (-20°C to 40°C).

## 3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Energetic 5CCT 120V LED Step Lights (6 units)
- Instruction Manual

**Note:** A junction box is not included in the package and must be supplied separately.

## 4. SPECIFICATIONS

Specification	Detail
Model Number	ZDL1215-L50K92750
Power Consumption	3 Watts
Voltage	120V AC
Color Temperature (CCT)	2700K / 3000K / 3500K / 4000K / 5000K (Selectable)
Brightness	300 Lumens
Color Rendering Index (CRI)	90+
Dimming Range	5% - 100%
Material	Die-casting Aluminum
Finish	Bronze (Polished)
Water Resistance	IP65 Waterproof
Certifications	ETL Listed
Product Dimensions	4.72"L x 1.46"W x 2.88"H (120mm L x 37mm W x 73mm H)
Design	Ultra-thin (0.24 inch)
Lifespan	50,000 hours

# DIMENSIONS



3 Wattage



120V



CRI90



5cct

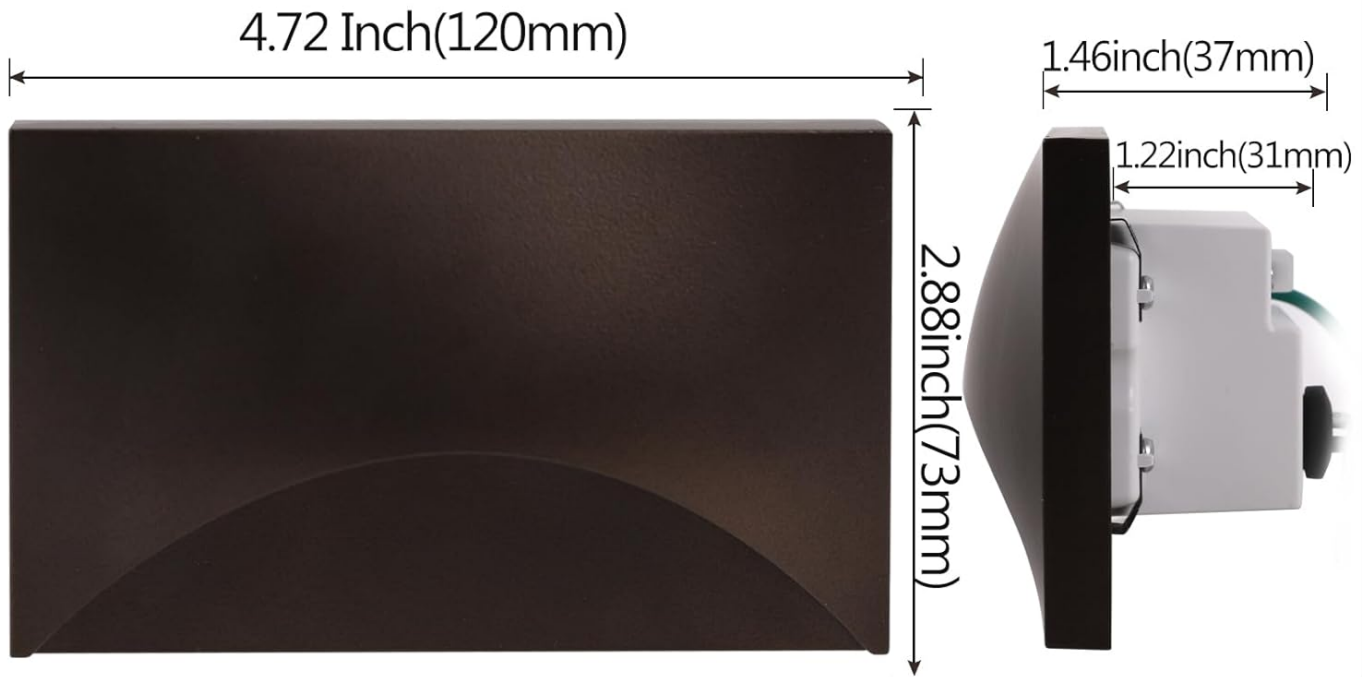


Figure 4.1: Product Dimensions and Ultra-thin Design





Figure 4.3: IP65 Waterproof Rating and Operating Temperature

## 5. INSTALLATION

These step lights are designed for straightforward installation directly into a 120V AC electrical circuit. A junction box (not included) is required for proper wiring.

### 5.1 Pre-Installation Steps

1. **Turn off Power:** Before starting any electrical work, ensure the power supply to the installation area is completely turned off at the circuit breaker.
2. **Prepare Location:** Ensure you have a suitable junction box installed in the desired location for each step light. The lights can be mounted horizontally for corridor walls or vertically for stair steps.
3. **Select Color Temperature:** Before wiring, locate the CCT (Color Correlated Temperature) toggle switch on the back of the light fixture. Select your desired color temperature (2700K, 3000K, 3500K, 4000K, or 5000K). This setting cannot be changed after installation without removing the fixture.

# INDOOR & OUTDOOR APPLICATIONS

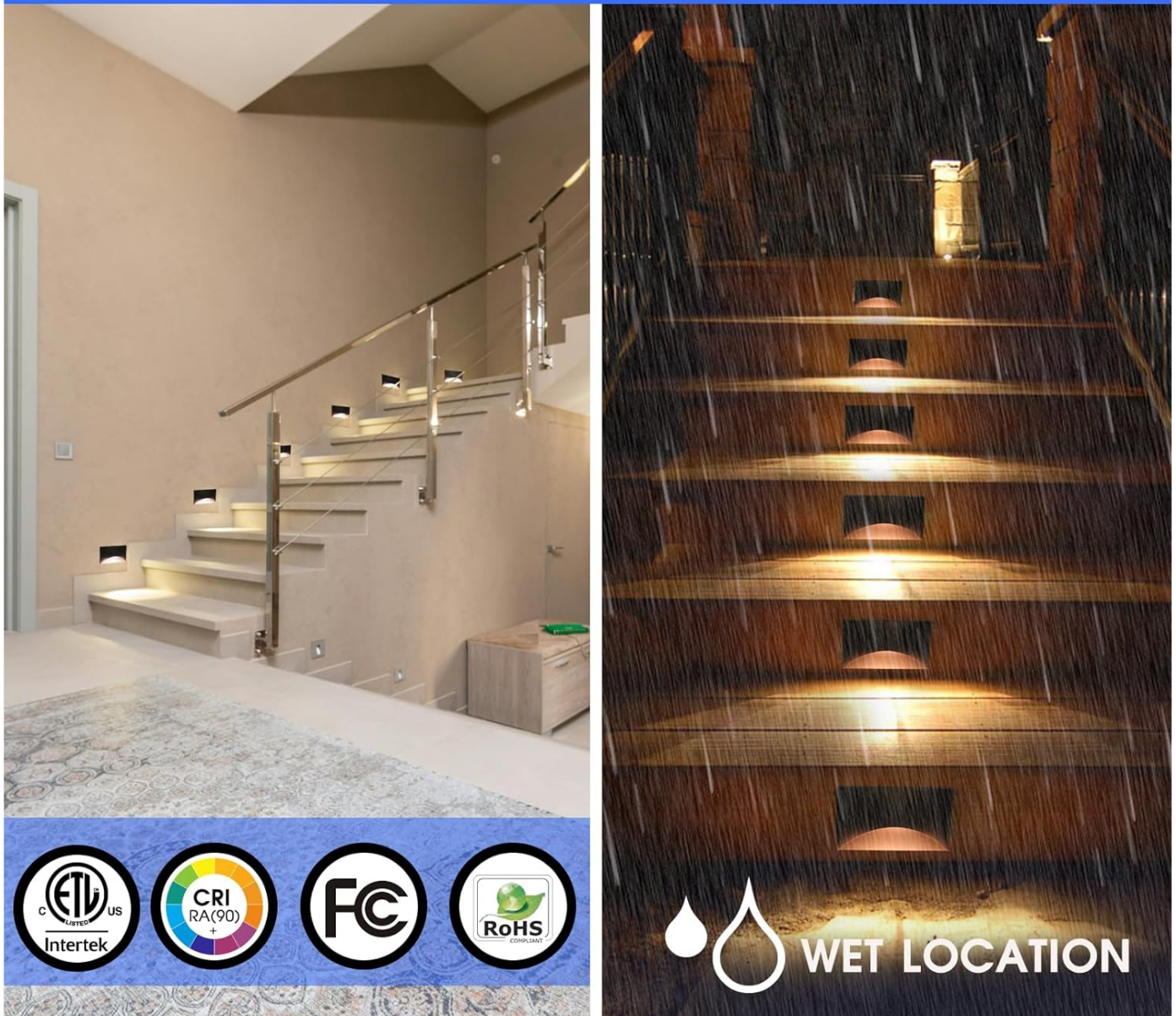


Figure 5.1: CCT Toggle Switch for Color Temperature Selection

## 5.2 Wiring Instructions

1. Connect the black wire from the step light to the live (black) wire from your electrical circuit.
2. Connect the white wire from the step light to the neutral (white) wire from your electrical circuit.
3. Connect the green wire from the step light to the ground (green or bare copper) wire from your electrical circuit.
4. Secure all connections with appropriate wire connectors (e.g., wire nuts).

## 5.3 Mounting the Fixture

1. Carefully tuck all wires into the junction box.
2. Align the step light with the junction box and secure it using the provided screws. Ensure the fixture is flush with the mounting surface.
3. Once secured, restore power at the circuit breaker and test the light.

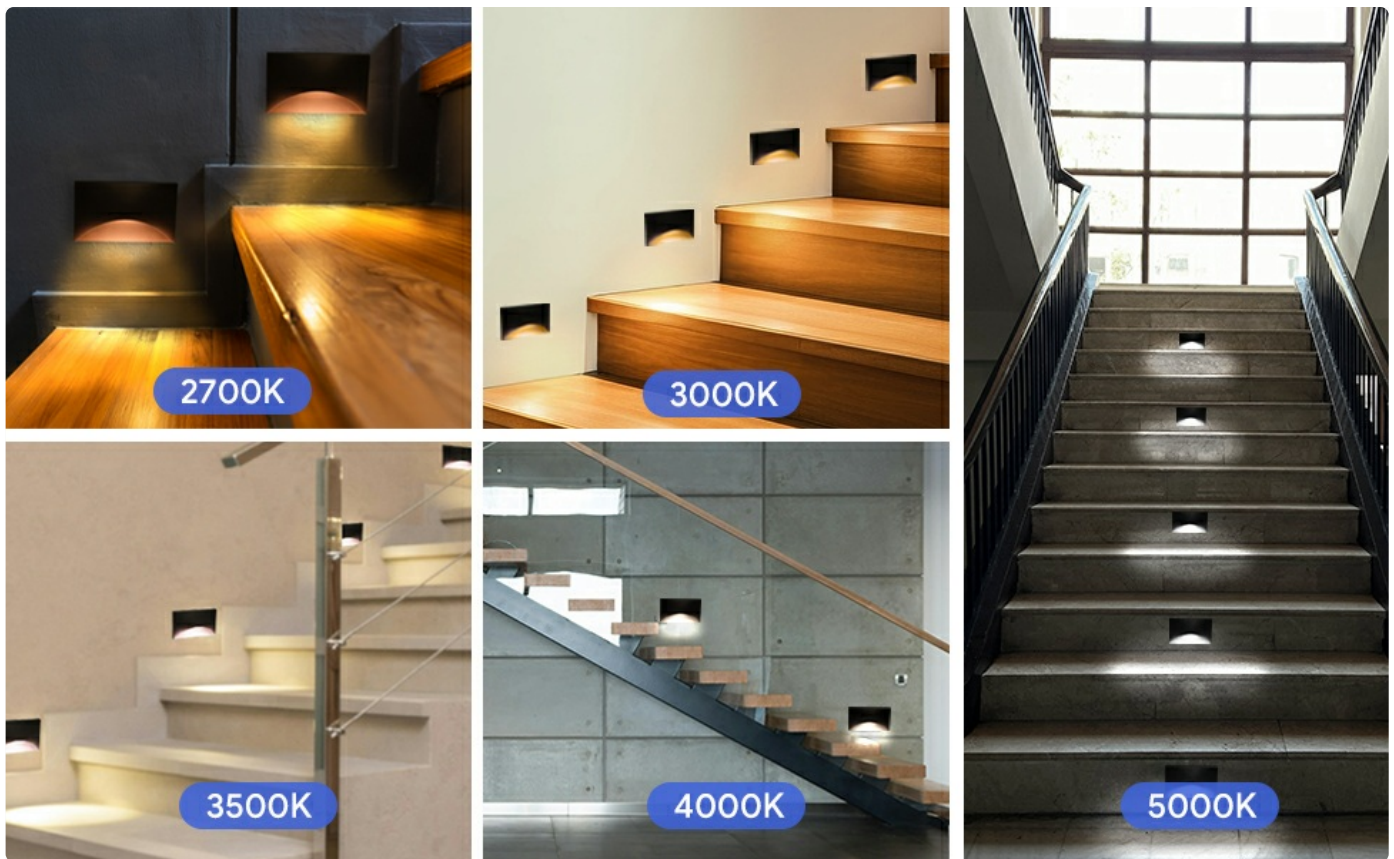


Figure 5.2: Installation Methods and Wiring Overview

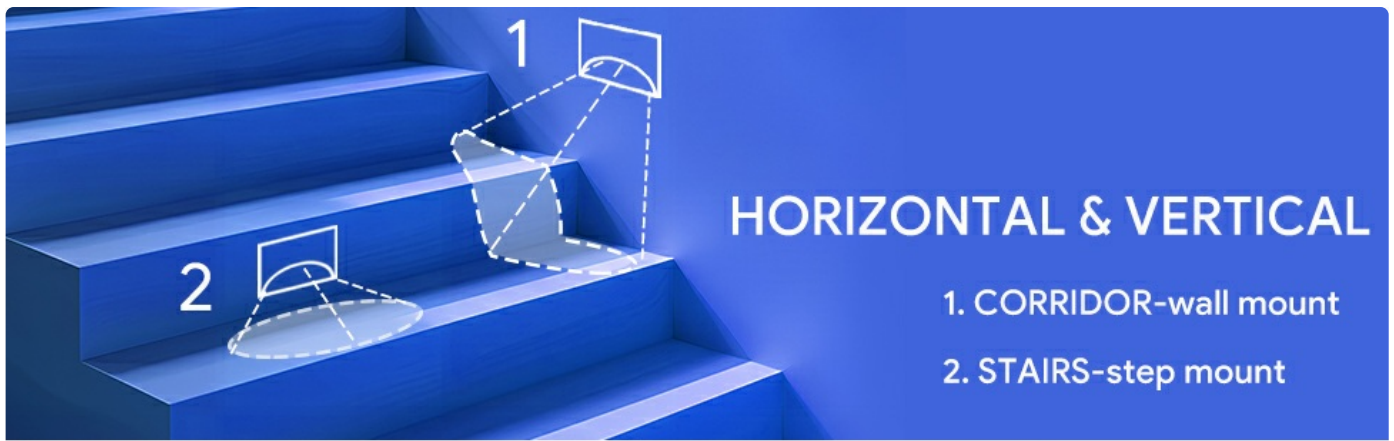
## 6. OPERATION

Once installed and powered, the Energetic LED Step Lights will illuminate according to the selected color temperature. These lights are designed to be controlled by a standard wall switch or a compatible dimmer switch.

### 6.1 Color Temperature Selection

The desired color temperature must be selected using the CCT toggle switch on the back of the fixture prior to installation. The available options are:

- **2700K:** Soft Warm White
- **3000K:** Warm White
- **3500K:** Neutral White
- **4000K:** Cool White
- **5000K:** Daylight



**NOTE: JUNCTION BOX NOT INCLUDED**

Figure 6.1: Visual Representation of 5 Selectable Color Temperatures

## 6.2 Dimming Functionality

These step lights are compatible with most standard LED dimmers, allowing for smooth dimming from 5% to 100%. Connect the lights to a compatible dimmer switch to adjust the brightness to your preference.

## 7. MAINTENANCE

The Energetic LED Step Lights require minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Cleaning:** Ensure power is off before cleaning. Use a soft, damp cloth to wipe the surface of the fixture. Avoid abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or electrical components.
- **Inspection:** Periodically inspect the fixtures for any signs of damage, loose connections, or wear. If any issues are found, consult a qualified electrician.
- **No Bulb Replacement:** As the LED chips are integrated, there are no bulbs to replace.

## 8. TROUBLESHOOTING

If you encounter issues with your step lights, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on	No power supply Loose wiring connection Faulty switch	Check circuit breaker and wall switch. Ensure all wiring connections are secure. Test the switch for functionality.
Light flickers or dims unexpectedly	Incompatible dimmer switch Loose wiring connection Voltage fluctuations	Ensure you are using an LED-compatible dimmer. Check wiring connections. Consult an electrician for voltage issues.
Incorrect color temperature	CCT switch set incorrectly	Turn off power, remove fixture, and adjust the CCT toggle switch to the desired setting before re-installing.
Water ingress (for outdoor use)	Improper sealing during installation	Ensure all connections and the fixture itself are properly sealed and mounted flush to maintain IP65 rating.

## 9. PRODUCT APPLICATIONS

The Energetic 5CCT 120V LED Step Lights are suitable for a variety of indoor and outdoor settings, enhancing safety and aesthetics.

# 5 COLOR TEMPERATURE SELECTABLE

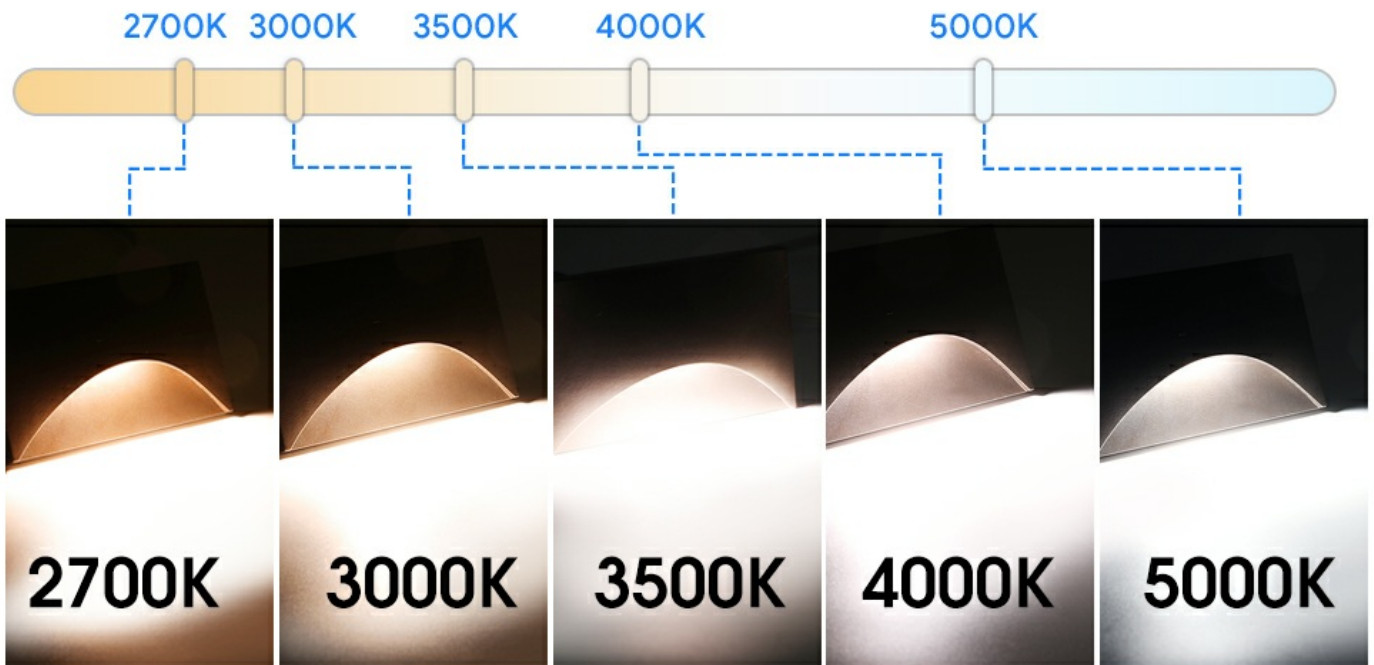


Figure 9.1: Indoor and Outdoor Application Examples

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Video 9.1: Overview of Energetic 5CCT LED Step Lights, showcasing their features and applications in both indoor and outdoor settings, including IP65 waterproof capabilities.

## 10. WARRANTY AND SUPPORT

The Energetic 5CCT 120V LED Step Lights come with a **2-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact E Energetic Lighting customer service through the retailer where the product was purchased or visit the official E Energetic Lighting website for contact information.