WAC Lighting R3HSDR-F9CS-WT

WAC Lighting Patriot 3in LED Square Recessed Light Instruction Manual

Model: R3HSDR-F9CS-WT

INTRODUCTION

This manual provides comprehensive instructions for the safe installation, operation, and maintenance of your WAC Lighting Patriot 3in LED Square Recessed Light. Please read this manual thoroughly before installation and retain it for future reference.

IMPORTANT SAFETY INFORMATION

- **WARNING:** Risk of electric shock. Disconnect power at the fuse or circuit breaker before installation or servicing.
- **WARNING:** Risk of fire. Use only with specified dimmers.
- Installation must be performed by a qualified electrician in accordance with the National Electrical Code and local codes.
- Ensure the supply voltage is compatible with the fixture (120V-277V).
- Do not modify the fixture. Any modifications may void the warranty and create safety hazards.
- Suitable for Dry, Damp, and Wet Locations.
- IC-Rated for contact with insulation.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- LED Light and Trim (Square Downlight)
- LED Driver and Cable
- Mounting Hardware Pack
- Instruction Manual (This document)
- Additional 25-degree narrow beam spread lens

Figure 1: WAC Lighting Patriot 3in LED Square Recessed Light with attached driver and junction box.

SETUP AND INSTALLATION

The Patriot recessed light is designed for both remodel and new construction applications. An optional frame-in kit (R3H-FRAME) is sold separately for new construction when pre-framing is required.

Required Tools (Not Included):

- Wire strippers
- Screwdriver
- Measuring tape
- Hole saw (for ceiling cutout)

Installation Steps:

1. **Turn Off Power:** Ensure power to the installation area is disconnected at the circuit breaker or fuse box.
2. **Prepare Ceiling Cutout:** Create a 4.13-inch (approximately 10.5 cm) diameter cutout in the ceiling. The fixture is suitable for ceiling thicknesses between 0.5 inches and 1.5 inches.
3. **Connect Wiring:**
   - Open the junction box cover.
   - Connect the building's supply wires to the fixture's wires using appropriate wire connectors (not included). Connect live to live, neutral to neutral, and ground to ground.
   - Secure all connections and close the junction box cover.
4. **Select Color Temperature (CCT):** Before inserting the junction box into the ceiling, locate the 5-CCT selectable switch inside the electrical box. Choose your desired color temperature (2700K, 3000K, 3500K, 4000K, or 5000K) by sliding the switch. This can also be adjusted after installation if the junction box remains accessible.

Figure 2: Location of the 5-CCT selectable switch within the electrical box.

5. **Insert Junction Box:** Carefully push the connected junction box through the ceiling cutout.

6. **Install Light Fixture:**

   - Connect the light fixture cable to the junction box cable.
   - Gently push the light fixture into the ceiling cutout. The retention clips will secure the light engine into place.

Figure 3: The WAC Lighting Patriot 3in LED Square Recessed Light.

7. **Restore Power:** Once the fixture is securely installed, restore power at the circuit breaker.

Beam Spread Lens Replacement:

The fixture comes with a 45-degree flood beam spread lens installed. An additional 25-degree narrow beam spread lens is included. To replace:

1. Gently remove the existing lens from the fixture.
2. Insert the desired lens into the fixture, ensuring it is seated correctly.

OPERATING INSTRUCTIONS

Power On/Off:

The light operates via a standard wall switch connected to the circuit. Flip the switch to turn the light on or off.

Color Temperature Selection (CCT):

The Patriot light features a 5-CCT selectable switch located inside the electrical junction box. This switch allows you to choose from five color temperatures:

- 2700K (Warm)
- 3000K (Warm White)
- 3500K (White)
- 4000K (Cool White)
- 5000K (Natural White)

To change the CCT, access the junction box and slide the switch to the desired setting. This adjustment can be made before, during, or after installation, provided the junction box is accessible.

Dimming:

This fixture is designed for smooth and continuous dimming with compatible electronic low voltage (ELV) or TRIAC dimmers. When using an ELV dimmer, the light dims down to 10%. With TRIAC dimmers, it dims down to 5%. Ensure your dimmer is compatible with LED fixtures.

MAINTENANCE

The WAC Lighting Patriot LED Recessed Light requires minimal maintenance.

- **Cleaning:** Disconnect power before cleaning. Wipe the fixture with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners or solvents, as these may damage the finish or electrical components.
- **LEDs:** The integrated LED module is designed for long life (50,000 rated hours) and is not user-replaceable.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power to the fixture. Loose wiring connection. Faulty switch.	Check circuit breaker/fuse. Verify all wire connections are secure (ensure power is off first). Test the switch with another device or replace it.
Light flickers or dims improperly.	Incompatible dimmer switch. Loose wiring.	Ensure dimmer is compatible with LED fixtures (ELV or TRIAC). Check wiring connections (ensure power is off first).
Incorrect color temperature.	CCT switch set incorrectly.	Access the junction box and adjust the 5-CCT selectable switch to the desired setting.

SPECIFICATIONS

Model Name	Patriot
Model Number	R3HSDR-F9CS-WT
Brand	WAC Lighting
Fixture Type	3in LED Square Recessed Downlight
Power	12W
Delivered Lumens	1,035lm (Max)
CRI	90
Rated Hours	50,000
Color Temperature	5-CCT Selectable (2700K, 3000K, 3500K, 4000K, 5000K)
Voltage	120V-277V Universal
Dimming	Smooth and continuous with ELV (to 10%) or TRIAC (to 5%) dimmers
Material	Die-cast Aluminum

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Finish	Painted White
Product Dimensions	4.75"L x 4.75"W x 4.13"H
Ceiling Cutout	4.13 inches
Ceiling Thickness	0.5 inches to 1.5 inches
Indoor/Outdoor Usage	Indoor, Outdoor (Suitable for Dry, Damp, and Wet Locations)
Certifications	ETL & cETL UL #1598, Airtight, IC-Rated, CEC Title 24 Compliant, Energy Star 2.0 Certified, Title 24 JA8-2016
Item Weight	1.7 pounds
UPC	790576883571
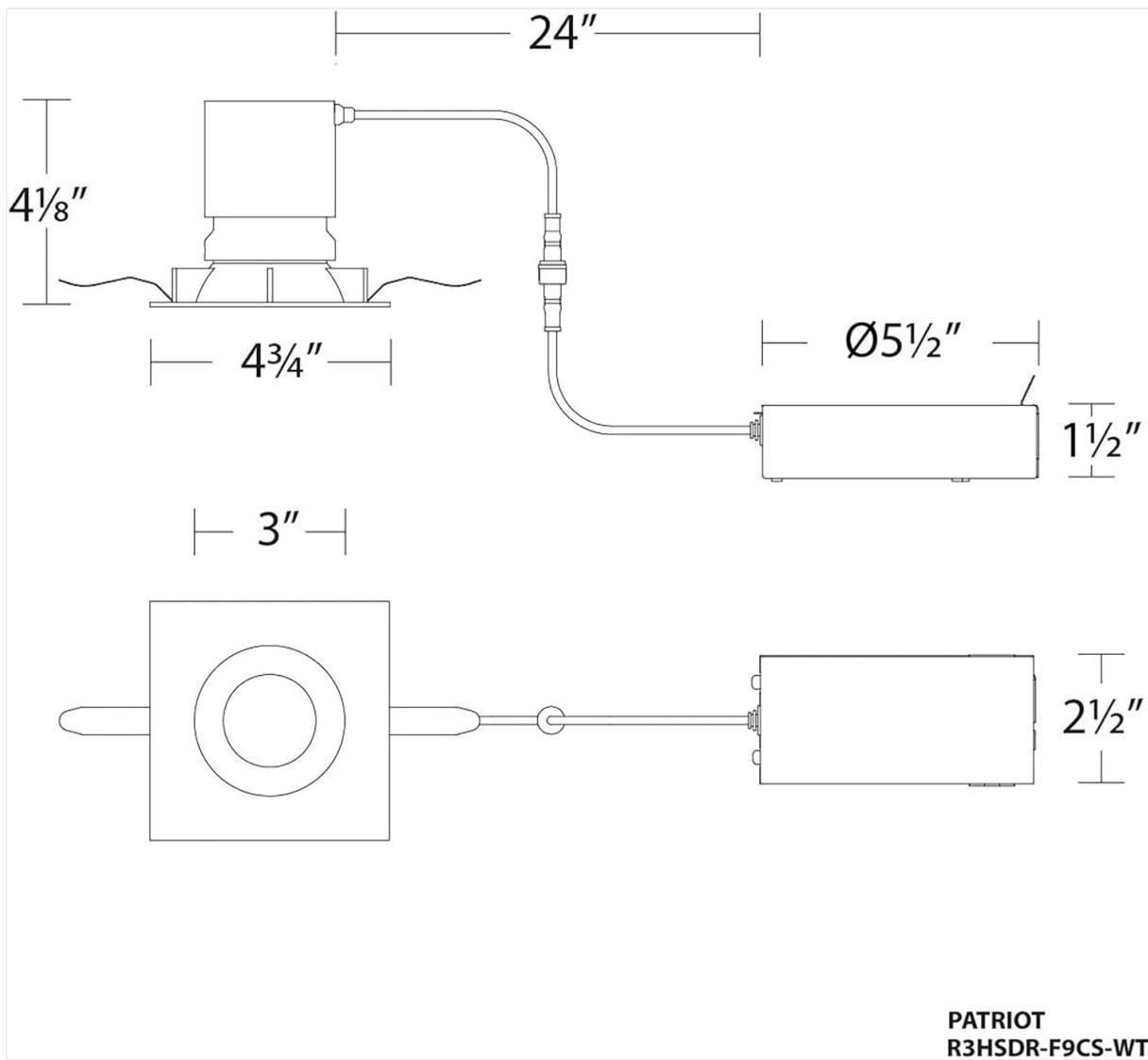
Figure 4: Dimensional drawing with measurements for installation.

WARRANTY INFORMATION

This WAC Lighting Patriot LED Recessed Light is covered by a **5-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or detailed terms and conditions, please refer to the official WAC Lighting website or contact customer support.

Related Documents - R3HSDR-F9CS-WT

[WAC Lighting InvisiLED Outdoor RGBWW LED Tape Light Installation Guide (T24-OD1-XX-CC)]

This document provides comprehensive installation instructions for the WAC Lighting InvisiLED Outdoor RGBWW LED tape light system, model T24-OD1-XX-CC. It covers essential safety precautions, wiring diagrams, power calculations, maximum run lengths, and various mounting and connection methods for outdoor use.
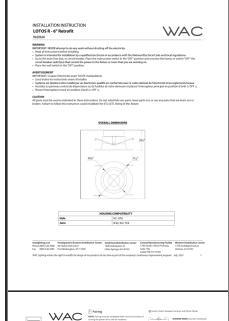
[WAC LOTOS R 6" Retrofit LED Downlight Installation Guide (R6DRAK)]

Comprehensive installation instructions for the WAC Lighting LOTOS R 6" Retrofit LED downlight (model R6DRAK). Learn how to safely install and set color temperature for this recessed lighting fixture.
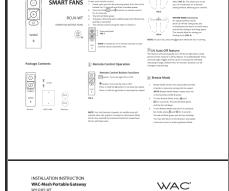
[WAC RCUV-WT Smart Fan Remote Control Operation Instructions]

Comprehensive guide to operating the WAC RCUV-WT Smart Fan remote control, covering pairing, fan and light operation, breeze mode, UV auto-off, Wi-Fi settings, and troubleshooting.

[WAC Mesh Gateway WH-GW1-WT Installation Instructions]

Installation instructions for the WAC Mesh Gateway WH-GW1-WT, including powering, configuration, and FCC compliance information.
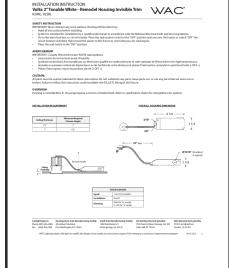
[WAC Lighting Volta 2" Tunable White Remodel Housing Invisible Trim Installation Guide]

This document provides comprehensive installation instructions for the WAC Lighting Volta 2" Tunable White Remodel Housing Invisible Trim, model numbers R2RRL and R2SRL. It includes essential safety precautions, installation requirements, dimensional data, technical specifications, and detailed step-by-step guidance for proper setup.
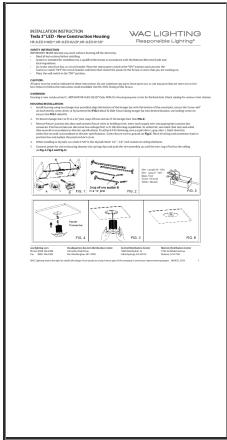
[WAC Lighting Tesla 3" LED New Construction Housing Installation Guide](#)
Installation instructions for the WAC Lighting Tesla 3" LED New Construction Housing, including safety, overview, housing installation steps, and wiring diagrams. Compatible with HR-3LED-H18D1, HR-3LED-H22D, and HR-3LED-H15D models.

Documents - WAC Lighting – R3HSDR-F9CS-WT
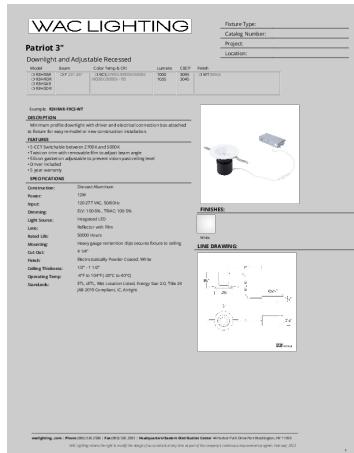
[pdf] Specifications Warranty Catalog

View Spec Sheet WAC Lighting R3HSDR F9CS WT Patriot LED Module Universal Driver White Recessed Kit SP media lightingnewyork vendors wac specSheet |||

Patriot 3 Downlight and Adjustable Recessed Model r R3HRAR r R3HRDR r R3HSAR r R3HSDR Beam r F 25. 45 Color Temp CRI r 9CS 2700K/3000K/3500K /4000K/5000K - 90 Fixture Type: Catalog Number: Project: Location: Lumens 1000 1035 CBCP 3095 3045 Finish r WT White Example: R3HRAR-F9CS-WT DESCR... lang:en score:31 filesize: 281.3 K page_count: 0 document date: 0000-00-00