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Model: CS4-232-EU

1. INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of the Columbia CS4-232-EU 2-Light Strip Light. Please read this manual thoroughly before beginning installation or use to ensure proper function and safety.

The Columbia CS4-232-EU is a 4-foot straight-sided utility channel designed to accommodate two T8 32-watt fluorescent lamps (lamps not included). It features a durable steel housing and an electronic instant start T8 ballast, suitable for 120-277 VAC electrical systems.

2. IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power at the circuit breaker or fuse box before installation or servicing. Failure to do so may result in serious injury or death.

- All wiring must be in accordance with national and local electrical codes. If you are unsure about wiring, consult a qualified electrician.
- Do not install near combustible materials.
- Ensure the fixture is securely mounted to a structural element capable of supporting its weight.
- Do not exceed the specified voltage or wattage for the lamps.
- Wear safety glasses and gloves during installation.
- This fixture is designed for indoor use in dry locations.

3. PACKAGE CONTENTS

Carefully unpack the fixture and inspect for any damage. If any parts are missing or damaged, do not proceed with installation and contact your supplier.

- 1 x Columbia CS4-232-EU 2-Light Strip Light Fixture
- Installation Guide (this document)

Note: Fluorescent lamps (T8 32-watt) and mounting hardware are **not included** and must be purchased

separately.

4. SPECIFICATIONS

Model Number	CS4-232-EU
Product Type	Straight-sided utility channel
Length	4 feet (48 inches)
Number of Lamps	2
Lamp Type	T8 32-watt fluorescent (lamps not included)
Ballast Type	Electronic instant start T8
Voltage Rating	120-277 VAC
Material	Die formed steel housing
Dimensions (L x W x H)	48 x 4.43 x 2.68 inches
Item Weight	5.65 pounds
Mounting Type	Individual or row mounting, surface or suspended
Certifications	CSA, CUL, UL

5. INSTALLATION (SETUP)

Before you begin: Ensure power is OFF at the circuit breaker. Gather necessary tools (e.g., screwdriver, wire strippers, drill, mounting hardware). This fixture can be surface-mounted or suspended.

5.1. Mounting the Fixture

The fixture's die-formed steel housing allows for various mounting options. Mounting hardware is not supplied and must be selected based on the mounting surface and method (surface or suspended).

1. Surface Mounting:

- Position the fixture in the desired location and mark the mounting points.
- Drill pilot holes if necessary.
- Secure the fixture to the ceiling or wall using appropriate screws or anchors (not included).

2. Suspended Mounting:

- Install suspension chains or rods (not included) to the ceiling structure.
- Attach the fixture to the suspension system, ensuring it is level and securely fastened.



Image 1: Columbia CS4-232-EU 2-Light Strip Light Fixture. This image shows the overall design of the 4-foot utility channel light fixture, highlighting its simple, functional form suitable for various applications.

5.2. Wiring the Fixture

CAUTION: Ensure power is OFF before wiring.

1. Open the ballast cover. The ballast cover is retained by 1/4 turn fasteners.
2. Route the electrical supply wires into the fixture's wiring compartment.
3. Connect the supply wires to the fixture's wires according to local electrical codes:
 - Connect the **black** (hot) supply wire to the **black** fixture wire.
 - Connect the **white** (neutral) supply wire to the **white** fixture wire.
 - Connect the **green** or bare copper (ground) supply wire to the **green** fixture wire or ground screw.
4. Secure all wire connections with approved wire connectors.
5. Carefully tuck all wires into the wiring compartment and close the ballast cover, securing it with the 1/4 turn fasteners.

5.3. Installing Fluorescent Lamps

This fixture requires two 4-foot T8 32-watt fluorescent lamps (not included).

1. Ensure power is still OFF.
2. Align the pins of the T8 fluorescent lamp with the sockets at each end of the fixture.
3. Gently push the lamp into the sockets and rotate it 90 degrees until it clicks into place.
4. Repeat for the second lamp.
5. Ensure both lamps are securely seated.

6. OPERATION

Once installation is complete and all connections are secure, restore power at the circuit breaker. The fixture will operate via the wall switch or control connected to its power supply.

- Turn on the wall switch to illuminate the fixture.
- Turn off the wall switch to extinguish the fixture.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your fixture.

7.1. Cleaning

WARNING: Disconnect power before cleaning.

- Wipe the exterior of the fixture with a soft, damp cloth.
- Do not use abrasive cleaners or solvents, as they may damage the finish.
- Ensure the fixture is completely dry before restoring power.

7.2. Lamp Replacement

WARNING: Disconnect power before replacing lamps.

1. Allow lamps to cool completely before handling.
2. Gently rotate the old lamp 90 degrees and pull it out of the sockets.
3. Insert a new 4-foot T8 32-watt fluorescent lamp by aligning the pins, pushing it into the sockets, and rotating 90 degrees until it locks.
4. Dispose of old fluorescent lamps according to local regulations.

8. TROUBLESHOOTING

Before attempting any troubleshooting, ensure power is OFF at the circuit breaker.

Problem	Possible Cause	Solution
Fixture does not light up.	<ul style="list-style-type: none"> ◦ No power to the fixture. ◦ Loose wire connections. ◦ Faulty fluorescent lamp(s). ◦ Faulty ballast. 	<ul style="list-style-type: none"> ◦ Check circuit breaker and wall switch. ◦ Verify all wire connections are secure (with power off). ◦ Replace lamp(s) with new ones. ◦ If lamps are new and connections are secure, ballast may be faulty; consult a qualified electrician.
Lamps flicker or hum.	<ul style="list-style-type: none"> ◦ Loose lamp connection. ◦ Old or failing lamp. ◦ Incorrect lamp type. ◦ Ballast issue. 	<ul style="list-style-type: none"> ◦ Ensure lamps are fully seated and rotated into sockets. ◦ Replace lamps. ◦ Verify T8 32-watt lamps are used. ◦ Consult a qualified electrician if issue persists.

9. WARRANTY AND SUPPORT

This Columbia Lighting fixture comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For detailed warranty information, please refer to the official warranty document available at: [Hubbell Lighting Indoor Limited Warranty](#).

For technical support or warranty claims, please contact Hubbell Lighting, Inc., the manufacturer.