Elco EW45-2430-16

Elco Ambio LED Tape Light User Manual

Model: EW45-2430-16 | Brand: Elco

Introduction

The Elco Ambio EW45-24 LED Tape Light is an architectural lighting solution designed for versatile applications such as coves, under cabinets, and other niche areas. Its low-profile design ensures it remains discreetly hidden while providing efficient illumination. This manual provides essential information for the safe and effective installation, operation, and maintenance of your Elco Ambio LED Tape Light.

This product features 4.4W/ft power consumption, an impressive 93+ CRI for accurate color rendering, and is U.V. resistant to prevent fading. It is dimmable with compatible ELCO dimmable drivers and is UL listed for damp locations, making it suitable for various indoor and protected outdoor environments. The integrated 3M tape backing facilitates easy installation.

Safety Information

Please read all instructions carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Always disconnect power at the circuit breaker before installing or servicing the fixture.
- Installation should be performed by a qualified electrician in accordance with all local and national electrical codes.
- Do not install in direct contact with water or in locations where it may be submerged. This product is UL listed for damp locations only.
- Ensure the voltage supplied to the fixture is correct (24V DC).
- Do not bend the LED tape light sharply or apply excessive force, as this may damage the internal circuitry.
- Use only compatible ELCO dimmable drivers for dimming functionality.
- Keep out of reach of children.

Package Contents

- Elco Ambio LED Tape Light (Model: EW45-2430-16)
- Installation Guide (this document)
- *Note: Power supply/driver and dimmer are sold separately.*

Setup and Installation

The Elco Ambio LED Tape Light is designed for straightforward installation using its integrated 3M adhesive backing. For optimal performance and safety, follow these steps:

1. **Prepare the Surface:** Ensure the installation surface is clean, dry, smooth, and free of dust, grease, or other contaminants. A clean surface is crucial for proper adhesion of the 3M tape.
2. **Measure and Cut (if necessary):** The tape light can be custom cut at designated cut marks (typically indicated by a scissor icon or copper pads) to achieve the desired length. Always cut only at these marked points to avoid damaging the circuit.
3. **Connect to Power Supply:** Connect the tape light to a compatible 24V DC ELCO dimmable driver (sold separately). Ensure polarity is correct (positive to positive, negative to negative). Refer to the driver's manual for specific wiring instructions.
4. **Test Functionality:** Before permanent adhesion, temporarily connect the tape light to the power supply and test its functionality to ensure it lights up correctly and dims as expected.
5. **Apply Tape Light:** Carefully peel off the protective backing from the 3M adhesive tape. Press the tape light firmly onto the prepared surface, applying even pressure along its entire length to ensure good contact.
6. **Secure Connections:** Ensure all electrical connections are secure and insulated to prevent short circuits.



Image: The Elco Ambio LED Tape Light, shown coiled on a white plastic spool. The flexible tape light features small LED chips visible along its length, and the reverse side has a grey adhesive backing. This image illustrates the product as it comes packaged, ready for installation.

Operating Instructions

Once properly installed and connected to a compatible 24V DC power supply and dimmer (if desired), operating the Elco Ambio LED Tape Light is straightforward:

- **Power On/Off:** Use the switch on your connected power supply or wall switch to turn the tape light on or off.
- **Dimming:** If connected to an ELCO dimmable driver and compatible dimmer switch, adjust the dimmer control to achieve the desired light intensity. The 3000K color temperature will remain consistent across all dimming levels.

Maintenance

The Elco Ambio LED Tape Light requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Ensure the power is off before cleaning. Gently wipe the surface of the tape light with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the product.
- **UV Resistance:** The tape light is U.V. resistant, which helps prevent fading over time, especially in areas exposed to sunlight.
- **Inspection:** Periodically inspect the tape light and its connections for any signs of damage or wear. If any damage is observed, disconnect power immediately and consult a qualified electrician or Elco customer support.

Troubleshooting

If you encounter issues with your Elco Ambio LED Tape Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tape light does not illuminate.	No power supply; incorrect wiring; faulty driver; damaged tape light.	Check power connection and circuit breaker. Verify wiring polarity. Test driver. Inspect tape light for visible damage.
Tape light flickers or dims inconsistently.	Loose connection; incompatible dimmer/driver; voltage fluctuations.	Ensure all connections are secure. Verify dimmer and driver compatibility with Elco products. Consult an electrician for voltage issues.
Portion of tape light is not working.	Damage to a section; improper cut.	Inspect the non-working section for physical damage or improper cuts. If a section is damaged, it may require replacement of the entire strip or professional repair.

If the problem persists after attempting these solutions, please contact Elco customer support or a qualified electrician.

Specifications

Attribute	Value
Model Number	EW45-2430-16
Brand	Elco
Light Source Type	LED
Style	Ambio
Voltage	24 Volts
Wattage per Feet	4.4 watts per feet

Attribute	Value
Lumens per Feet	450
Color Temperature	3000K
Color Rendering Index (CRI)	93+ CRI
Average Hours	50,000
Length	192 inches (16 feet)
Width	0.39 inches (3/8")
Height	0.08 inches (2mm)
Item Weight	8 ounces
UL Listing	Damp Locations
Compliance	Title 24 compliant

Warranty Information

The Elco Ambio LED Tape Light (Model EW45-2430-16) is covered under Elco's 5-year limited warranty. This warranty covers defects in materials and workmanship under normal use and service. For detailed terms and conditions, please refer to the official Elco warranty policy available on their website or contact Elco customer support.

Customer Support

For technical assistance, warranty claims, or any questions regarding your Elco Ambio LED Tape Light, please contact Elco customer support through their official website or the retailer from whom you purchased the product. Please have your model number (EW45-2430-16) and purchase date available when contacting support.

You can typically find contact information on the manufacturer's official website:www.elcolighting.com