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## Satco S11960

# Satco S11960 10.5W T8 LED Tube Light Instruction Manual

Model: S11960

## INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of the Satco S11960 10.5 Watt T8 LED Tube Light. This LED tube is designed for ballast bypass applications, meaning it connects directly to line voltage. Please read this manual thoroughly before attempting installation or use.

## IMPORTANT SAFETY INFORMATION

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

- Installation requires knowledge of luminaires' electrical systems. If you are not qualified, do not attempt installation. Contact a qualified electrician.
- This lamp is designed for direct wire (ballast bypass) applications. Do not use with an existing fluorescent ballast.
- Do not use with dimmers unless explicitly stated on the product packaging or specifications.
- Suitable for dry and damp locations. Not suitable for wet locations.
- Ensure the fixture is properly grounded.
- Do not bend the lamp during installation.
- Operating temperature range: -20°C to 45°C (-4°F to 113°F).

## PACKAGE CONTENTS

Your package contains the Satco S11960 10.5 Watt T8 LED Tube Light(s).





Image: A single Satco S11960 T8 LED tube light, showing its full length and bi-pin connectors at both ends.

## INSTALLATION INSTRUCTIONS (BALLAST BYPASS)

This LED tube is a Type B (Ballast Bypass) lamp, requiring direct wiring to the main power supply. The existing fluorescent ballast must be removed or bypassed.

### General Installation Steps:

- 1. Disconnect Power:** Turn off power to the fixture at the circuit breaker or fuse box. Verify power is off using a voltage tester.
- 2. Remove Existing Lamp:** Carefully remove the existing fluorescent lamp(s) from the fixture.
- 3. Bypass/Remove Ballast:** Open the fixture and locate the fluorescent ballast. Disconnect all wires leading to and from the ballast. Remove the ballast from the fixture.
- 4. Rewire Fixture:** This LED tube supports both single-ended and double-ended wiring. Refer to the specific wiring diagrams below for your chosen method.
- 5. Install LED Tube:** Insert the Satco S11960 LED tube into the fixture's lamp holders. Ensure it is securely seated.
- 6. Restore Power:** Close the fixture cover and restore power at the circuit breaker.

### Wiring Options:





Image: Two Satco T8 LED tubes. One is labeled for 'Single End' wiring, indicating power connects to one end. The other is labeled for 'Double End' wiring, indicating power connects to both ends.

### **1. Single-Ended Wiring:**

For single-ended wiring, power (Line and Neutral) is connected to the pins on one end of the LED tube. The other end of the tube is not connected to power.

- Connect the Line (L) wire from the main power supply to one pin of the designated 'input' end of the lamp holder.
- Connect the Neutral (N) wire from the main power supply to the other pin of the designated 'input' end of the lamp holder.
- The lamp holders on the opposite end of the fixture should not be wired to power.



Image: Close-up of an LED tube end cap showing two pins labeled 'L' (Line) and 'N' (Neutral), indicating where power should be connected for single-ended wiring.

## 2. Double-Ended Wiring:

For double-ended wiring, the Line (L) wire is connected to one end of the LED tube, and the Neutral (N) wire is connected to the other end. Both ends of the fixture's lamp holders will be wired.

- Connect the Line (L) wire from the main power supply to one pin of the lamp holder at one end of the fixture.
- Connect the Neutral (N) wire from the main power supply to one pin of the lamp holder at the opposite end of the fixture.
- Ensure that the pins on the same end of the tube are not shorted together.



Image: Close-up of an LED tube end cap showing one pin labeled 'L' (Line), indicating where the Line power should be connected for double-ended wiring. The Neutral connection would be on the opposite end of the tube.

## OPERATING INSTRUCTIONS

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Once properly installed, the Satco S11960 LED tube light operates like a standard light fixture.

- Turn on the wall switch or power supply connected to the fixture to illuminate the lamp.
- Turn off the wall switch or power supply to extinguish the lamp.
- No warm-up time is required; the lamp will provide instant full brightness.

## MAINTENANCE

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The Satco S11960 LED tube light requires minimal maintenance.

- **Cleaning:** Ensure power is disconnected before cleaning. Wipe the lamp with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners or solvents.

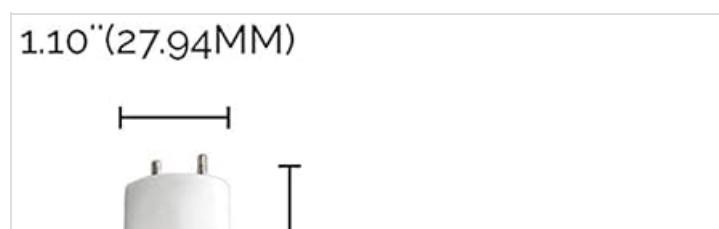
- **No User-Serviceable Parts:** The LED tube contains no user-serviceable parts. Do not attempt to open or repair the lamp.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Lamp does not light up.	No power to the fixture.	Check circuit breaker or fuse. Ensure wall switch is on.
	Incorrect wiring.	Disconnect power and re-check wiring according to installation instructions. Ensure ballast is bypassed.
	Lamp not properly seated.	Disconnect power and ensure the LED tube is fully inserted into the lamp holders.
Lamp flickers.	Loose connection.	Disconnect power and check all wire connections for tightness.
	Incompatible dimmer (if applicable).	This lamp is generally not dimmable unless specified. Remove dimmer or replace with a compatible one if the lamp is dimmable.

## SPECIFICATIONS

<b>Brand</b>	Satco
<b>Model Number</b>	S11960
<b>Light Type</b>	LED
<b>Wattage</b>	10.5 Watts
<b>Bulb Shape Size</b>	T8
<b>Length</b>	4 Ft (48 inches)
<b>Color Temperature</b>	3000 Kelvin (Daylight White)
<b>Brightness</b>	1700 Lumens
<b>Average Rated Hours</b>	50,000 Hours
<b>Base Type</b>	Medium Bi-Pin
<b>Wiring Type</b>	Type B (Ballast Bypass), Single or Double Ended
<b>Material</b>	Copper (pins)
<b>Product Dimensions</b>	48 x 1.1 x 1.1 inches
<b>Special Feature</b>	Energy Efficient
<b>Certifications</b>	UL, cULus, NSF, DLC Listed





48.00" (1219.20MM)



Image: Diagram showing the dimensions of the Satco T8 LED tube, indicating a length of 48.00 inches (1219.20mm) and a diameter of 1.10 inches (27.94mm).

## **WARRANTY AND SUPPORT**

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For warranty information or technical support, please refer to the documentation included with your purchase or contact Satco customer service directly. Contact details can typically be found on the manufacturer's official website.

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