

# Sunco

Lighting made better.

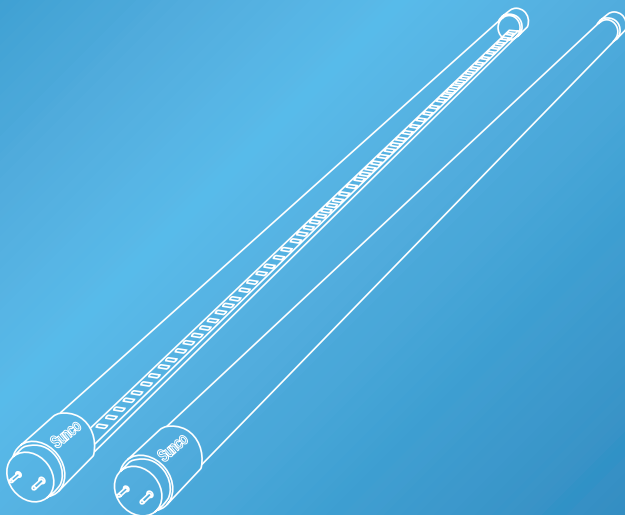
**⚠ CAUTION ⚠**

Remove existing ballasts and rewire the fixture before installing Type B tubes to avoid tube damage and fire risk.

User Manual

## T8 Type B Ballast Bypass LED Tube

SKU: T8\_BY\_C  
T8\_BY\_F

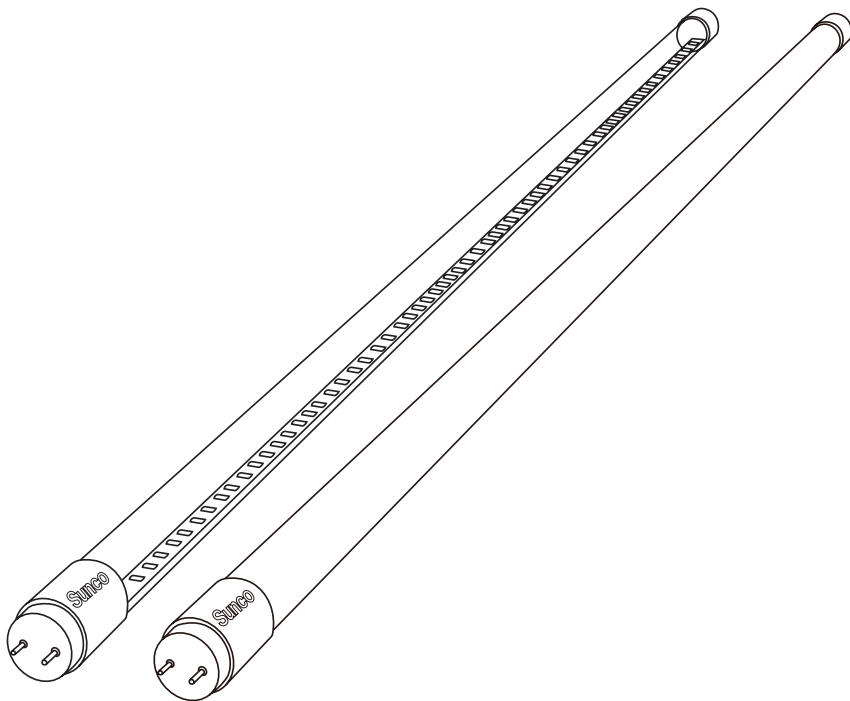


support@sunco.com  
(844) 334-9938



# What's in the Box?

## T8 Tube



# Before You Start

## Safety Information

### To reduce the risk of fire, electric shock, or physical injury:

- Turn off circuit breaker before installing this fixture.
- This product should be installed by a person familiar with the construction and operation of the product and the hazards involved. Safety eyeglasses and gloves are recommended.
- Abide by related regional and local laws or regulations.
- Proper grounding is required to ensure safety.
- Do not alter, relocate, or remove wiring during installation.
- Do not make or alter any open holes in wiring enclosure or electrical components during installation.
- Check for shipping damage before installing. If the product is damaged, do not use it.
- Keep fixture away from corrosive substances.
- Suitable for damp locations at temperature ranging from 4°F to 104°F. Not for use where directly exposed to water.
- Clean the fixture regularly to ensure proper operation. Do not clean with harsh solvents.
- Use safety precautions and abide by regional and local laws or regulations.
- This product is not compatible with 3rd party sensors.
- This product is not compatible with photo controls.
- This product is not compatible with occupancy sensors.
- This product is not compatible with timing devices.

**This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:**

- 1) This device may not cause harmful interference.**
- 2) This device must accept any interference that may cause undesired operation. Please review all instructions carefully prior to installation.**

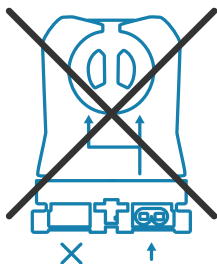
### **⚠ WARNING:**

Cancer & Reproductive Harm- [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

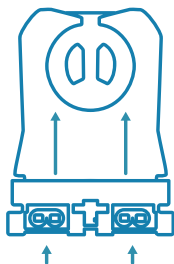
## Tombstone Compatibility

### Single-Ended Installation (Non-Shunted Compatible Only)

#### SHUNTED

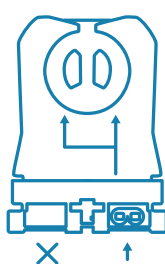


#### NON-SHUNTED

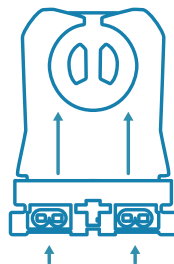


### Double-Ended Installation (Non-Shunted & Shunted Compatible)

#### SHUNTED



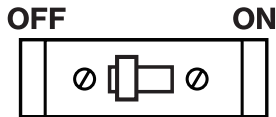
#### NON-SHUNTED



# Installation Guide (Without Ballast, Single or Double Ended)

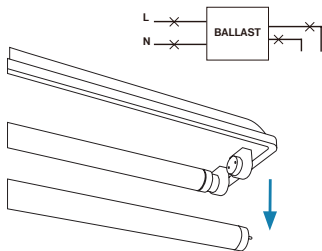
## STEP 1

- a. Turn off the power by locating the circuit breaker that controls the existing fluorescent fixture and switch it off.



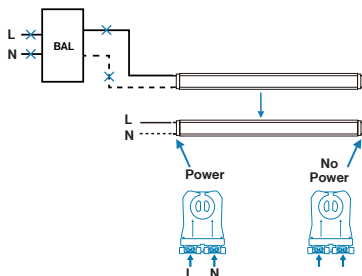
## STEP 2

- a. Carefully remove the old T8 fluorescent tube by gently twisting it out of the tombstone sockets.
- b. Remove the fixture cover, locate the ballast, then disconnect the ballast wires as indicated with an "X". Safely dispose of the ballast for cleaner wiring as well as reduce fire risk.



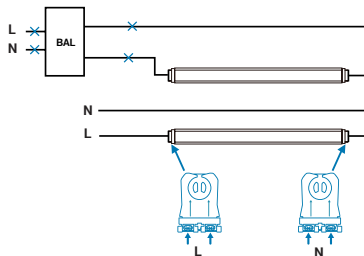
# Installation Guide (Without Ballast, Single or Double Ended)

## Single-Ended Wiring



Note: If the socket lamp holders are shunted, replace them with new non-shunted ones.

## Double-Ended Wiring



## STEP 3

Determine if the wiring for the T8 will be single-ended or double-ended:

### Single-Ended:

- Before tube installation, check if the tombstones are shunted. Replace them with new non-shunted ones.
- Place one end of the T8 (marked L and N) into the tombstone that is powered.
- Place the other end of the T8 into the tombstone that is not powered.

## STEP 3

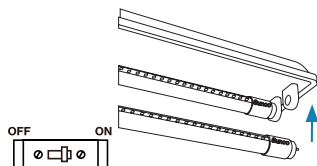
### Double-Ended:

- Wire the Live (L) to one end of the tombstone.
- Wire the Neutral (N) to the opposite end of the other tombstone.
- Place the T8 tube into both ends of the tombstone socket, then twist the tube to secure it into place.

## STEP 4

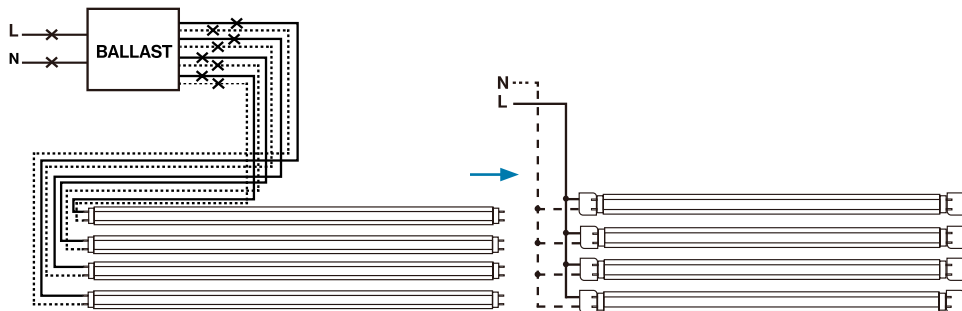
- If installing multiple T8 tubes in one fixture, follow Step 3 but run the wires for the additional lights in parallel. Refer to the wiring diagram below for assistance.
- Turn on the circuit breaker to test the light.

Note: Do NOT power the T8 tubes if the ballast has not been removed. Failure to remove the ballast will damage the tubes and cause a fire hazard.

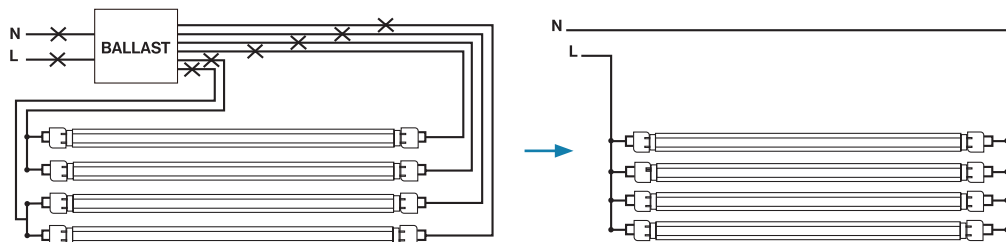


# Installation Guide (Multiple Lamps Wiring Diagram)

## Multiple Lamps Installation (Single-Ended)



## Multiple Lamps Installation (Double-Ended)



# Product Details

## T8\_BY\_C-18W / T8\_BY\_F-18W

<b>Voltage</b>	120 to 277V	<b>Average Lifetime</b>	50,000 Hrs
<b>Wattage</b>	18W	<b>Lumens</b>	2200 lm
<b>Wattage Equivalency</b>	40W	<b>Moisture Rating</b>	Damp Rated
<b>Beam Angle</b>	120°(Clear), 180°(Frosted)	<b>CRI</b>	80+
<b>Efficacy</b>	120 lm/W	<b>Usage</b>	Indoor
<b>Housing Material</b>	Glass (Clear/Frosted)	<b>Frequency</b>	50Hz/60Hz
<b>Dimmable</b>	No	<b>Warranty</b>	5 Years

## T8\_BY\_C-15W

<b>Voltage</b>	120 to 277V	<b>Average Lifetime</b>	50,000 Hrs
<b>Wattage</b>	15W	<b>Lumens</b>	1800 lm
<b>Wattage Equivalency</b>	32W	<b>Moisture Rating</b>	Damp Rated
<b>Beam Angle</b>	120°	<b>CRI</b>	80+
<b>Efficacy</b>	120 lm/W	<b>Usage</b>	Indoor
<b>Housing Material</b>	Glass(Clear)	<b>Frequency</b>	50Hz/60Hz
<b>Dimmable</b>	No	<b>Warranty</b>	5 Years

## T8\_BY\_C-24W

<b>Voltage</b>	120 to 277V	<b>Average Lifetime</b>	50,000 Hrs
<b>Wattage</b>	24W	<b>Lumens</b>	3000 lm
<b>Wattage Equivalency</b>	52W	<b>Moisture Rating</b>	Damp Rated
<b>Beam Angle</b>	120°	<b>CRI</b>	80+
<b>Efficacy</b>	120 lm/W	<b>Usage</b>	Indoor
<b>Housing Material</b>	Glass (Clear)	<b>Frequency</b>	50Hz/60Hz
<b>Dimmable</b>	No	<b>Warranty</b>	5 Years

# Common Troubleshooting

Feeling in the dark about an issue with your product? No worries! Our troubleshooting section is here to shed some light and provide you with easy-to-follow solutions for any problem.

If you still need some assistance, please feel free to contact us with any questions. Our team of lighting experts are happy to help brighten your day.

## Installation

Light isn't turning on.

Double check if the fixture is wired correctly and verify that the fixture is properly connected to the tombstones. Check if the circuit breaker hasn't been tripped.

Light isn't bright enough.

Verify if the ballast is compatible with the fixture for Type A installation.

## Flickering

Light is flickering when turning on.

Check that fixture wiring connections are secure.

Light flickering with other lights on the same circuit.

Check that the lights on the same circuit are not overloading the circuit.

Light flickering when turned on.

Verify if the ballast is compatible with the fixture for Type A installation.

## Buzzing

Fixture buzzing with power outages.

Verify if the breaker has tripped, and carefully inspect the tube for any signs of damage.

Fixture buzzing with appliances or electronic devices.

Look for nearby interferences that can cause buzzing. Such as televisions, radios, computers, etc.



This page is intentionally left blank.

**⚠ CAUTION ⚠**

**Remove existing ballasts and rewire the fixture before installing Type B tubes to avoid tube damage and fire risk.**

# Sunco

Lighting made better.

support@sunco.com  
(844) 334-9938

REV10