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Sunlite 85409-SU

Sunlite 85409 48-Inch LED Linear Dual Strip Light Fixture Instruction Manual

Model: 85409-SU | Brand: Sunlite

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1. INTRODUCTION

Thank you for choosing the Sunlite 85409 48-Inch LED Linear Dual Strip Light Fixture. This fixture is designed for energy efficiency and long-lasting performance, providing 3900 lumens of 3000K Warm White light while consuming only 30 watts. It is an ideal lighting solution for various commercial and residential applications, including offices, workshops, garages, and basements.

This manual provides essential information for the safe installation, operation, and maintenance of your new LED fixture. Please read it thoroughly before installation and retain it for future reference.

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30 Watts



**Multi-Volt
Fixture**



**Bright 3900
Lumen Output**



**0-10V Low
Voltage Dimming**

sunlite®



**USA BASED
COMPANY**

48" LED Linear Dual Strip Light Fixture



Image 1.1: Key features of the Sunlite 85409 LED Linear Dual Strip Light Fixture, including power consumption, voltage, lumen output, and dimming capability.

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Doesn't Contain Any Harmful Chemicals



3000K Warm White Color Temperature



Long 50,000 Hour Lifespan



Standard Color Rendering Index

Image 1.2: Additional benefits of the Sunlite 85409 LED fixture, such as its chemical-free design, warm white color temperature, extended lifespan, and high Color Rendering Index.

2. SAFETY INFORMATION

- **WARNING:** Risk of electric shock. Disconnect power at the fuse or circuit breaker before installation or servicing.
- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- Ensure the supply voltage is compatible with the fixture (120-277V).
- Do not install near any heat sources.
- Do not modify the fixture. Any modifications may void the warranty and create safety hazards.
- This fixture is UL Listed for damp location installation. Do not use in locations where it will be directly exposed to water.
- The fixture contains no harmful chemicals and features a shatter-resistant light diffuser.

3. SETUP & INSTALLATION

The Sunlite 85409 fixture is designed for easy surface mounting on walls or ceilings. Installation hardware and wiring instructions are included. Multiple knockouts are provided to simplify wiring connections.

3.1 Pre-Installation Checklist

- Verify that the power supply is turned OFF at the circuit breaker.
- Unpack the fixture and inspect for any damage.
- Ensure all necessary installation hardware is present.
- Confirm the installation location is suitable for a damp-rated fixture.

3.2 Mounting the Fixture

1. Position the fixture at the desired mounting location on the ceiling or wall.
2. Mark the locations for mounting screws through the fixture's mounting holes.
3. Drill pilot holes if necessary, suitable for the provided mounting hardware.
4. Secure the fixture to the surface using the appropriate screws.



**UPGRADE TO
LED LIGHT**

Replace your typical fluorescent shop lights with Sunlite's LED linear fixtures. They are instant-on with 100% brightness with no warm-up time and are designed with a shatter-resistant light diffuser, making them safer than fluorescent tube fixtures. They are also fully dimmable when attached to a standard wall-based 0-10V dimmer.



Image 3.1: Dimensional drawing of the Sunlite 85409 fixture, indicating its length, width, and height for installation planning.

3.3 Electrical Wiring

1. Route the electrical supply wires through one of the fixture's knockouts.
2. Connect the supply wires to the fixture's wires according to local electrical codes:
 - Connect the black (hot) wire from the supply to the black wire of the fixture.
 - Connect the white (neutral) wire from the supply to the white wire of the fixture.
 - Connect the green or bare copper (ground) wire from the supply to the green or bare copper wire of the fixture.
3. If using a 0-10V dimmer, connect the purple (dimming +) and gray (dimming -) wires from the fixture to the corresponding wires on the dimmer. Ensure the dimmer is compatible with 0-10V low voltage dimming.
4. Secure all wire connections with appropriate wire connectors.
5. Carefully tuck all wires into the junction box or fixture housing.

Note: This fixture operates on 120-277 volt service. Consult a qualified electrician if you are unsure about wiring procedures.

4. OPERATING INSTRUCTIONS

Once properly installed and wired, the Sunlite 85409 LED Linear Dual Strip Light Fixture is ready for operation.

- **Power On:** Restore power at the circuit breaker. The fixture will illuminate instantly at 100% brightness without any warm-up time.
- **Dimming:** If connected to a compatible 0-10V low voltage dimmer, use the dimmer control to adjust the light output. Ensure the dimmer is specifically designed for 0-10V LED dimming.
- **Light Output:** The fixture provides 3900 lumens of light with a 3000K Warm White color temperature, suitable for creating a comfortable and inviting atmosphere.

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**MAINTENANCE
FREE**

These fixtures feature built-in LEDs with no bulbs or ballasts to replace. A 50,000-hour lifespan means years of reliable, maintenance-free service—ideal for offices, workshops, garages, stairways, etc.



Image 4.1: Example of the Sunlite LED fixture installed in a modern workspace, demonstrating its application as an efficient lighting upgrade.

Sunlite LED 48" Dual Strip Fixture

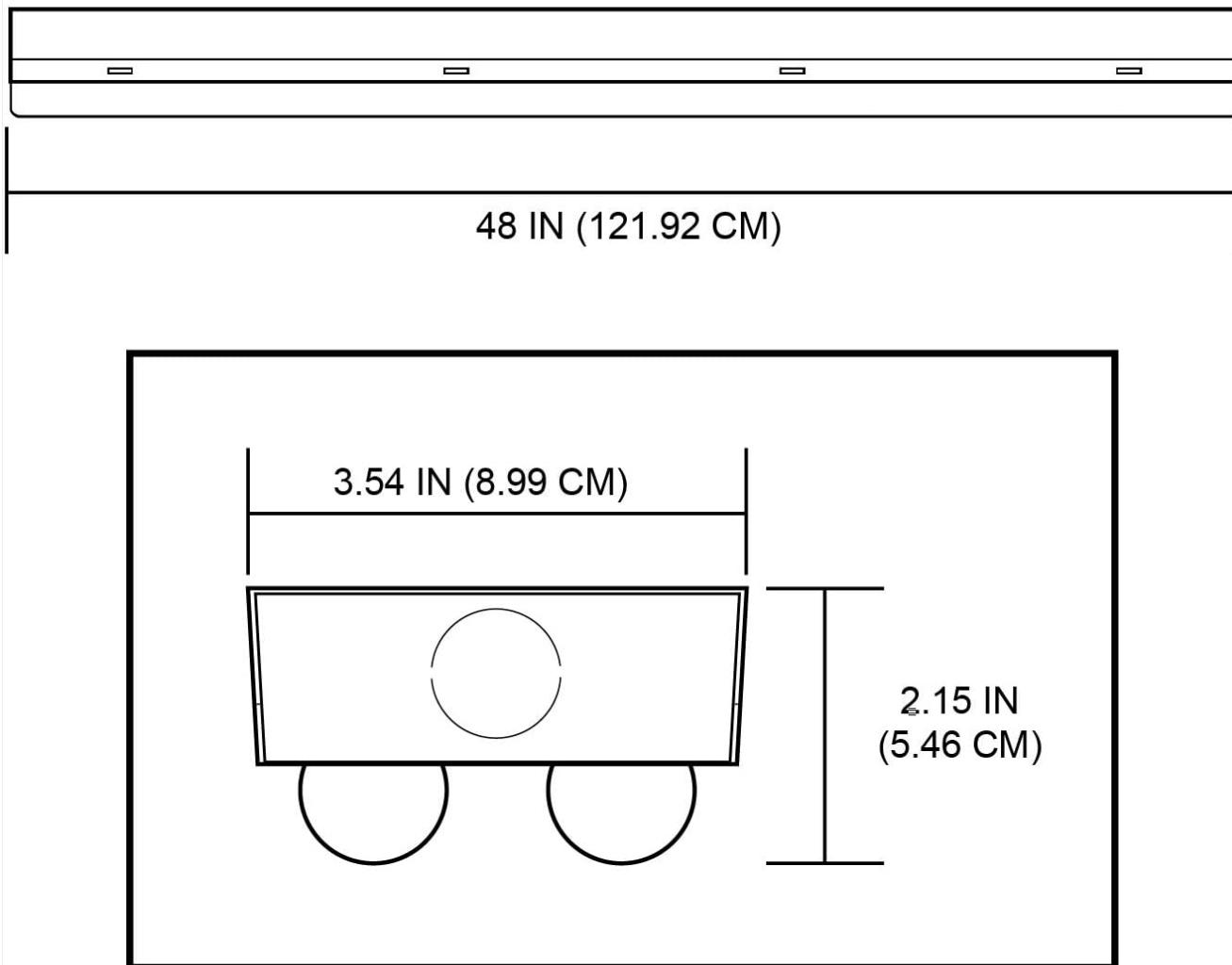


Image 4.2: Visual representation of various color temperatures, highlighting the 3000K Warm White output of this fixture and its suitability for relaxing settings.

5. MAINTENANCE

The Sunlite 85409 LED Linear Dual Strip Light Fixture is designed for minimal maintenance due to its integrated LED technology.

- **No Bulb Replacement:** The fixture features built-in LEDs, eliminating the need for bulb or ballast replacements.
- **Long Lifespan:** With an estimated lifespan of 50,000 hours, this fixture provides years of reliable service.
- **Cleaning:** To clean the fixture, ensure power is disconnected. Wipe the exterior with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners or solvents.

Color Temperature



AMBER LIGHT 1800K - 2600K

Suitable for intimate, romantic, and cozy low light settings.

WARM LIGHT 2700K - 3400K

Suitable for relaxing, and bedroom settings.

WHITE LIGHT 3500K - 4900K

Suitable for areas where bright crisp light is needed, such as kitchens and bathrooms.

COOL LIGHT 5000K - 6500K

Suitable for task lighting and for industrial and commercial settings.

Warm White 3000K

The color temperature, which is measured by the Kelvin scale, is the appearance of light that is produced by any given light source. Different color temperatures will change the look and feel of a space.

Image 5.1: The Sunlite LED fixture providing bright, maintenance-free lighting in a garage workshop setting.

6. TROUBLESHOOTING

If you experience issues with your Sunlite LED fixture, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Fixture does not light up.	No power supply. Loose wiring connection. Faulty circuit breaker.	Check if the circuit breaker is ON. Verify all wire connections are secure (ensure power is OFF before checking). Test the circuit breaker.
Light output is dim or flickers.	Incompatible dimmer. Loose dimming wires. Voltage fluctuation.	Ensure a 0-10V compatible dimmer is used. Check dimming wire connections (purple and gray). Consult an electrician to check power supply stability.
Unusual noise from fixture.	Loose mounting. Internal component issue.	Ensure the fixture is securely mounted. If noise persists, disconnect power and contact customer support.

If these steps do not resolve the issue, please contact Sunlite customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Model Number	85409-SU
Dimensions (L x W x H)	48 x 3.54 x 2.15 inches (121.92 x 8.99 x 5.46 cm)
Wattage	30 Watts
Lumen Output	3900 Lumens
Color Temperature	3000K Warm White
Color Rendering Index (CRI)	80
Voltage	120-277 Volts
Dimmable	Yes, with 0-10V low voltage dimmer
Lifespan	50,000 Hours
Material	Metal (Aluminum), Plastic (Shatter-resistant diffuser)
Installation Type	Surface Mount (Ceiling or Wall)
Indoor/Outdoor Usage	Indoor, Damp Location Rated
Certifications	UL Listed, DLC Listed
Item Weight	4.9 Pounds

8. WARRANTY & SUPPORT

8.1 Warranty Information

This Sunlite LED fixture comes with a **3-year warranty**. For specific warranty terms and conditions, please refer to the packaging or contact Sunlite customer support. The warranty covers defects in materials and workmanship under normal use.

8.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact Sunlite customer support. Please have your model number (85409-SU) and purchase information ready when contacting support. You can visit the official Sunlite website for contact details and additional product information: [Sunlite Official Store](#)