

Operating and Maintenance Instructions

Solar Series Duo Med LED Light



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Introduction

Thank you for your purchase of the Solar Series Duo Med. This installation manual provides you with instructions on how to install the Solar Series Duo Med. Please read the following instructions carefully and adhere to the safety guidelines and standards.

- Installation should be completed by an individual familiar with the construction and operation of the luminaire.
- Installation of luminaire must be in accordance with nation and local building and electrical codes.
- Carefully read and follow all warnings and instructions before installing or servicing the luminaire.
- Instructions do not cover all details and all possible product configurations.
- Do not restrict luminaire ventilation.
- Ensure LED luminaire is not covered with material that will prevent convection or conduction cooling.
- Do not exceed luminaire's maximum ambient temperature.
- Ensure LED luminaire has the correct polarity before installation.
- Based on maximum voltage restrictions for class 2 circuits in Canadian Electrical Code, the output cannot be accessible. This product has accessible output terminals. This product complies with this requirement since the installation instruction requires installation in Restricted Access Area.




If you need information for further instructions on operation, maintenance, and/or descriptions of the product please feel free to contact Amico's Customer Service at: alt-customerservice@amico.com

For technical support please contact: alt-techsupport@amico.com

To learn more about Amico's portfolio of healthcare lighting products, visit <https://www.amico.com/lights>

Symbols Used in This Manual

The warning symbols indicate all instructions that are important for safety. Failure to comply with them can lead to injury, damage to the luminaire or the equipment. In combination with the following signal words the warning symbols means:

 DANGER	Can lead to death or serious injury
 WARNING	Can lead to injury
	ETL certification mark

Trademarks: All trade names mentioned in these instructions are the exclusive property of the relevant manufacturers.

Intended Use

The Solar Series Duo Med LED Light is intended to provide patient room lighting. It is to be used near the patient to support treatment, which pose no risk to the patient in the event of any interruption caused by light failure. It is meant for continuous operation.

Safety Instructions

No modifications can be carried out by the end user. Doing so will void warranty, ETL approval, and may cause severe risks. Serviceable parts must be replaced with factory OEM parts. The user must comply with all building safety codes and disinfection requirements. Fixture must be installed with the reading light (end of fixture) towards the wall, closer to the head of the patient's bed.

Warnings Levels

DANGER

Indication of hazards that can lead to death or serious injury if measures are disregarded.

WARNING

Indication of hazards that can lead to injury if measures are disregarded.

CAUTION

Indication of hazards that can lead to damage to property if measures are disregarded.

EXPLOSION HAZARD

Non-compliance with this symbol may result in damages or injuries due to explosion.

ELECTRIC SHOCK

Non-compliance with this symbol may result in damages or injuries due to electric shock.

Safety Instructions

Warnings When Installing the Solar Series Duo Med LED Light

DANGER

MOUNTING MUST BE DONE BY QUALIFIED PERSONNEL ONLY

- Lack of appropriate knowledge could be life-threatening.

DANGER

LIFE-THREATENING DANGER FROM FALLING LUMINAIRE

- The ceiling must be made of solid concrete to guarantee a secure hold.

ELECTRIC SHOCK

ELECTRIC SHOCKS ARE LIFE-THREATENING

- The electrical mains must be isolated from the by an external all-pole switch.

DANGER

RISK OF INJURY FROM FALLING PARTS

- Mounting must be performed by two people.

CAUTION

- Use protective equipment in line with tool manufacturer's instructions.

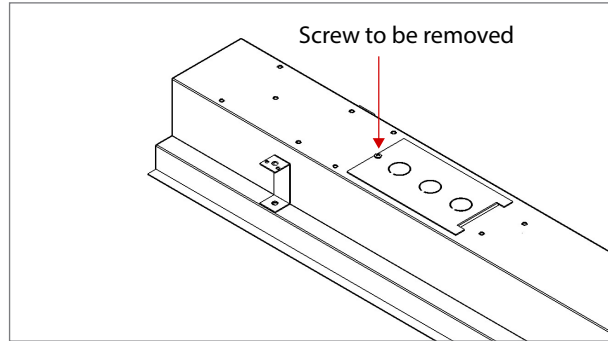
Tool List

1. Phillips screwdriver
2. Flat head screwdriver
3. Connecting wire
4. Wire connectors

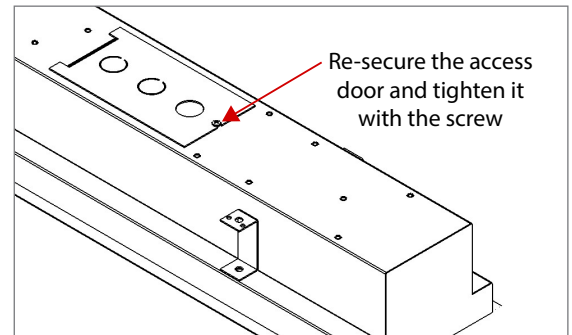
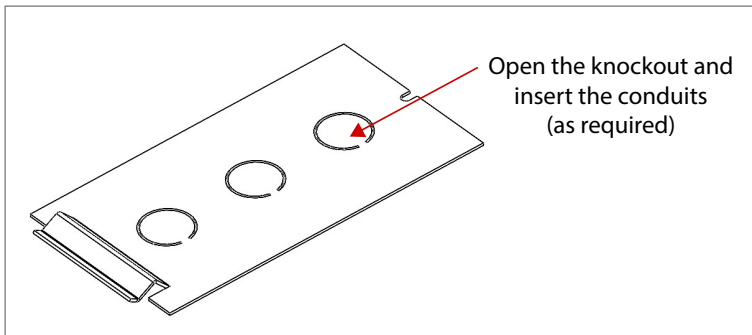
Installation Procedure

Procedure Before Mounting

1. Loosen screw to open the access door.

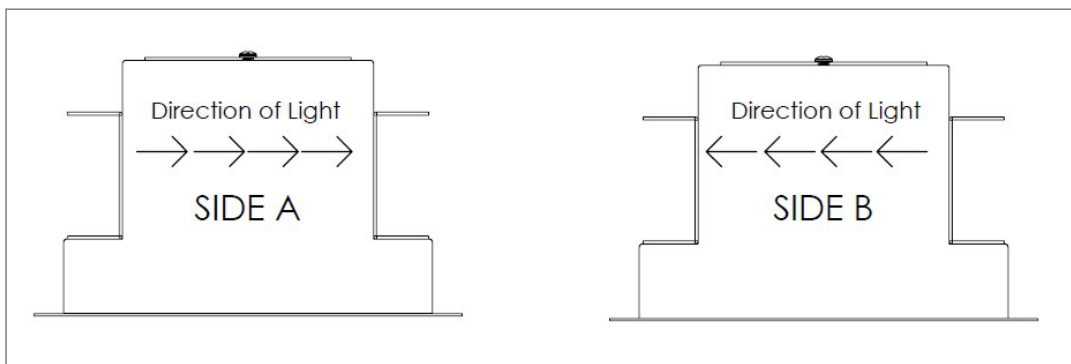


2. Use a hammer and flathead screwdriver to open the knockout.
 - a. Open any knockout according to the configuration as required.
 - b. Wiring needs to be done after opening the knockout.
 - c. Push conduits into the opened knockout as required and re-secure the access door.



NOTES:

1. DO THE ABOVE SAME STEPS FOR THE OTHER PAIR FIXTURE AS REQUIRED.
2. RECOMMENDED DISTANCE BETWEEN TWO FIXTURES IS 4FT TO 6FT.
3. THE DIRECTION OF THE LIGHT IS GIVEN ON ONE END OF THE BOTH THE FIXTURES. THE DIRECTION SHOULD FACE EACH OTHER AT THE TIME OF MOUNTING. REFER TO THE IMAGE BELOW.



Installation Procedure

Grid Mount Installation

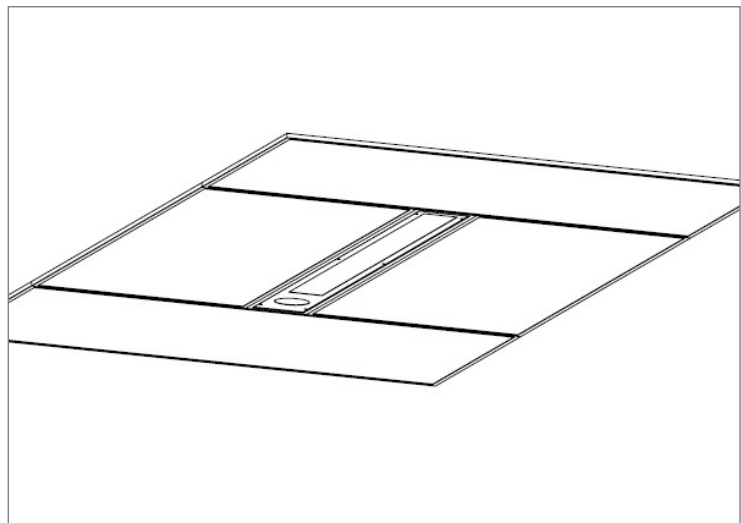
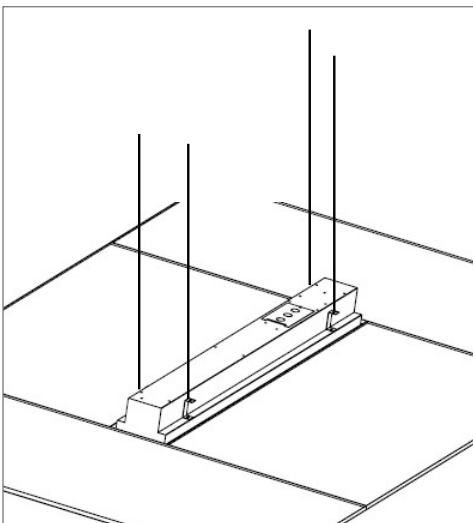
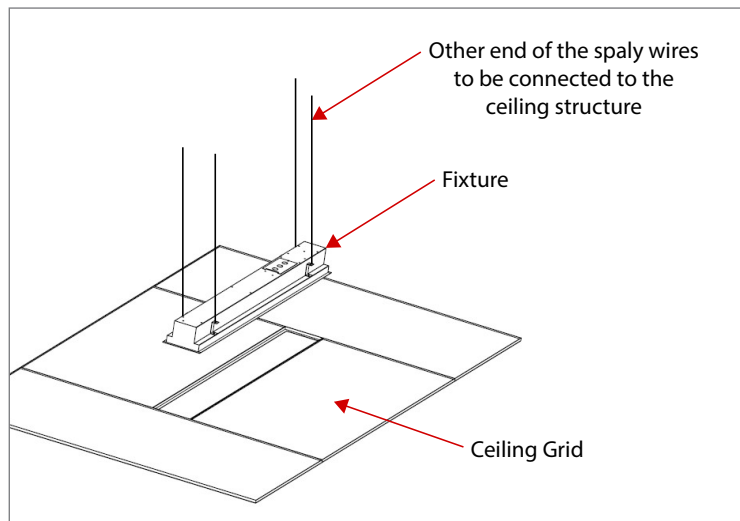
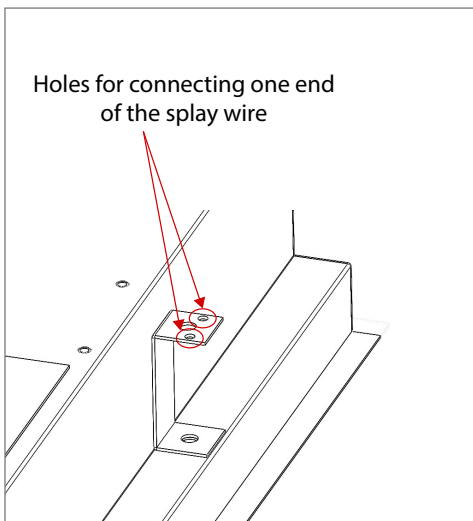
Fixture is designed for use with 9/16" and 15/16" T bar grid systems with vertical grid T thickness of less than 1/4" with a maximum height of 1.50".

- Lift and position the fixture into the ceiling grid. Secure it to the building's support structure by attaching one end of the suspension wire to the holes on the provided support brackets, and wrap the other end around the superstructure.

NOTE: Use 12 GA (0.1" diameter) splay wire — one vertical and two diagonal — to connect to the overhead support structure.

- Using the splay wires for support, carefully lower the fixture and rest it on top of the ceiling grid as shown in the image. Then, attach the remaining ends of the splay wires to the ceiling structure.
- Repeat the same procedure for the other fixture pair. Ensure the fixtures are positioned according to the light direction label. Refer to the previous page for additional clarification.

NOTE: Recommended distance between two fixtures is 4ft to 6ft.

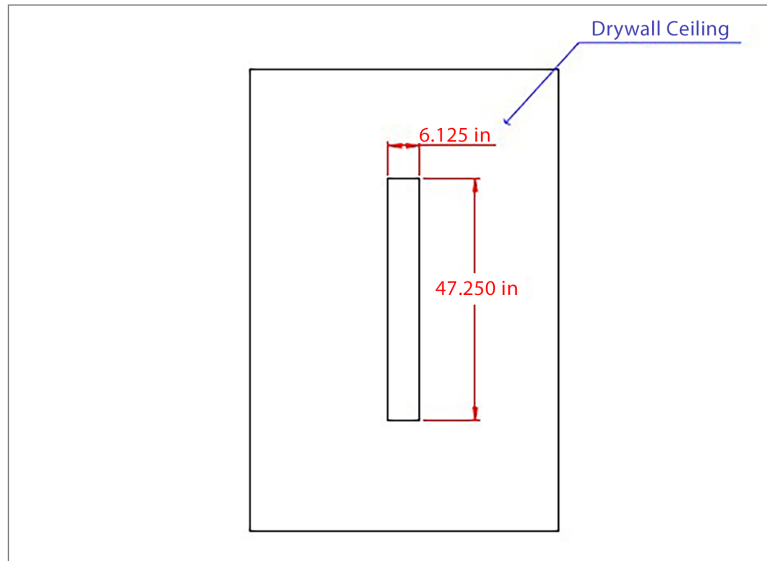


Installation Procedure

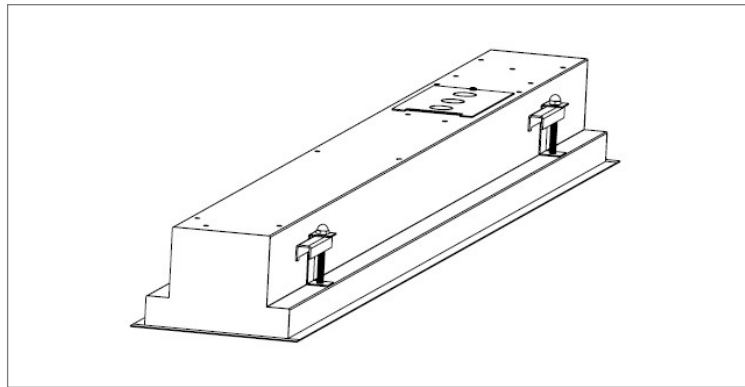
Flange Mount

1. Prepare a ceiling with cutout as specified. Ceiling Cutout should be accurate within 1/16 of an inch.

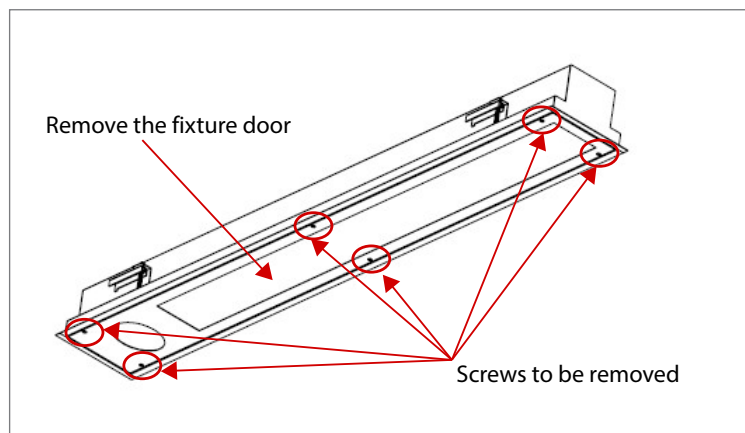
NOTE: Recommended distance between two fixtures is 4ft to 6ft.



2. Fold the swing arms(4) of the fixture.

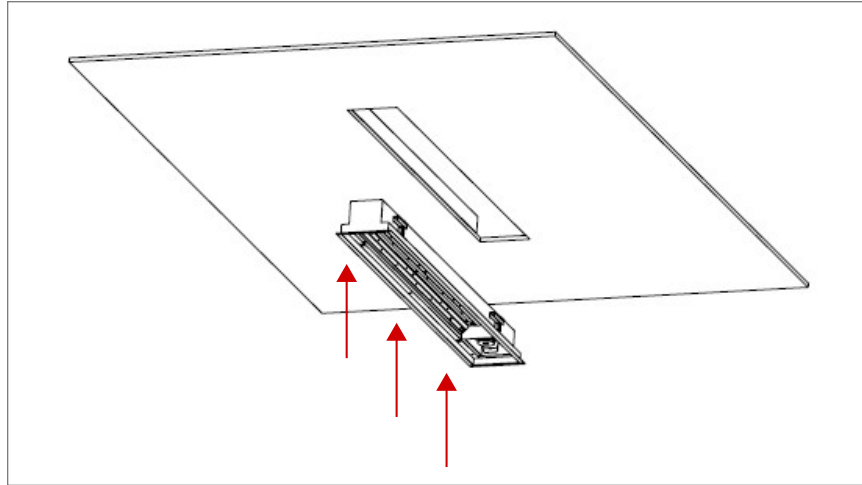


3. Detach the fixture door by removing the screws.

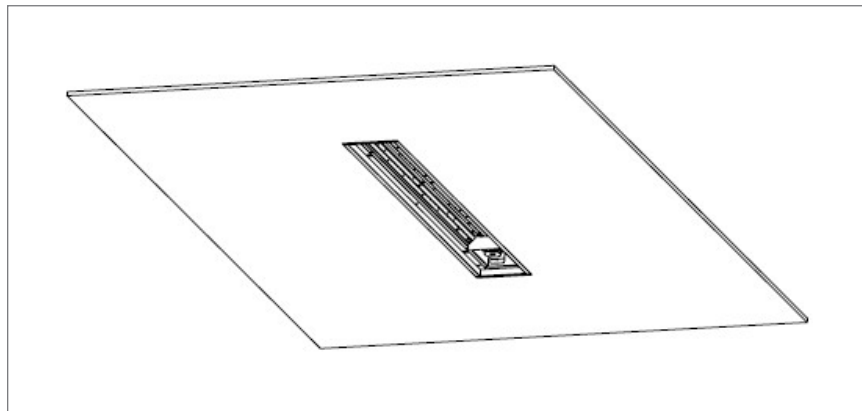


Installation Procedure

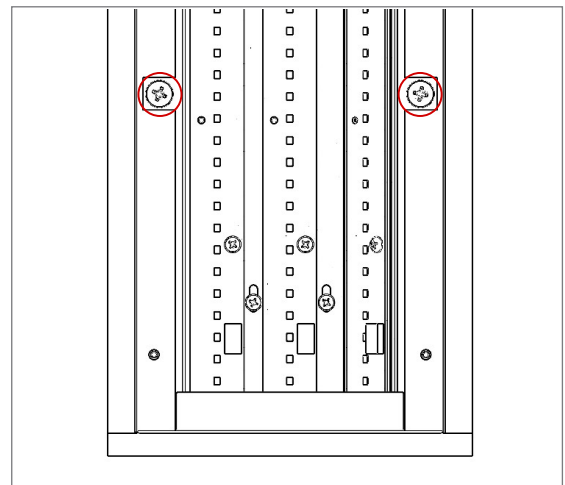
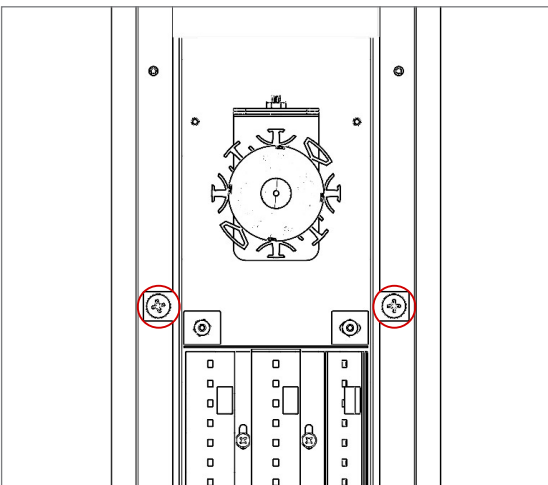
4. Push the fixture to the ceiling cutout.



5. Insert the fixture to the ceiling cutout.

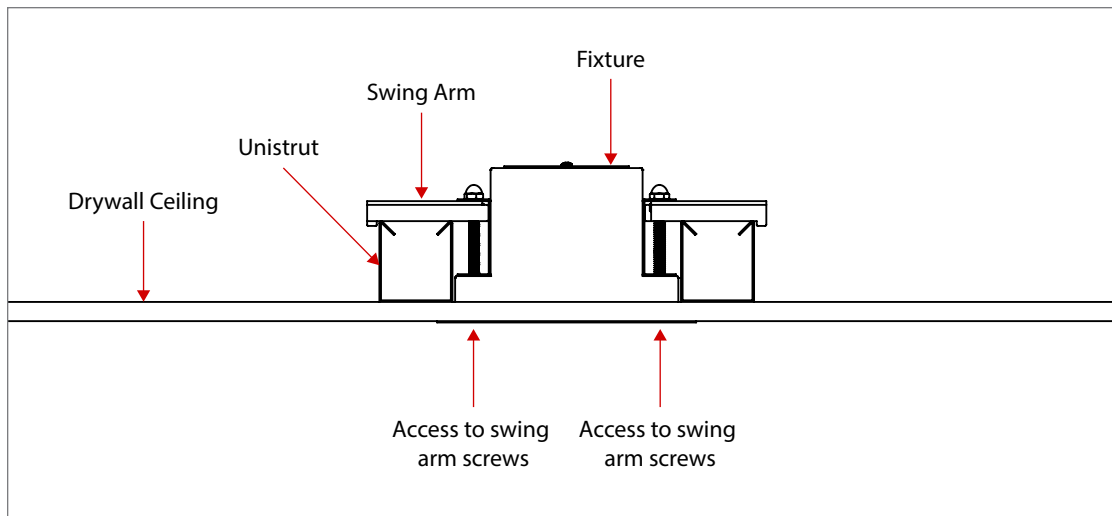


6. Use Philips screwdriver and rotate the swing arm screws (4 Nos) clockwise to unfold the swing arms.



Installation Procedure

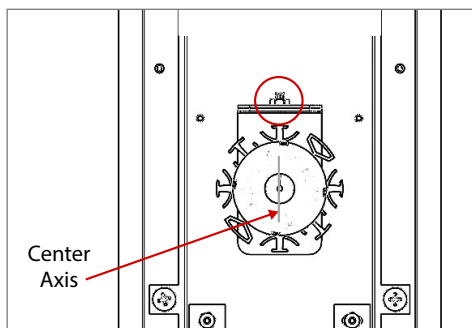
7. Adjust the swing arm screws from the bottom to place the swing arms properly on the Unistrut as shown below.



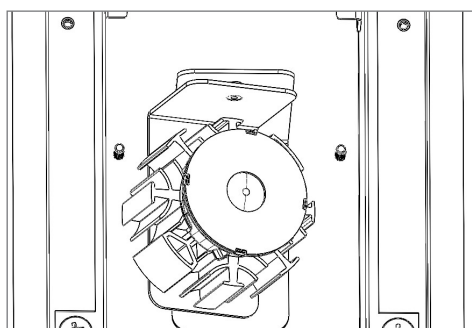
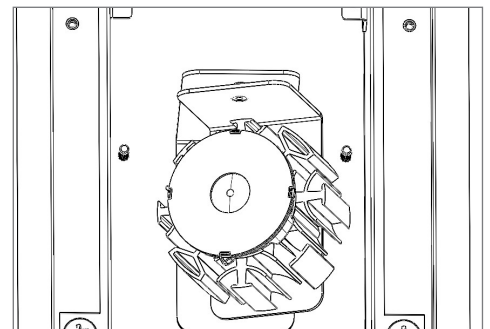
Framing the entire opening is recommended.

- a. The minimum thickness of ceiling plus frame material is 1.5 Inches.
- b. The maximum thickness of the ceiling plus frame is 3 inches.
- c. 1-5/8 Unistrut is used typically, to frame the opening because of its straightness, but straight lumber can also be used (Framing material provided by others).

Field Adjustable Reading Gimble Light Details

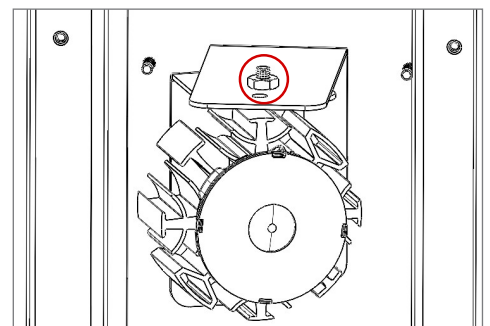


Loosen the nut as shown in the image and position the reading gimble as required.



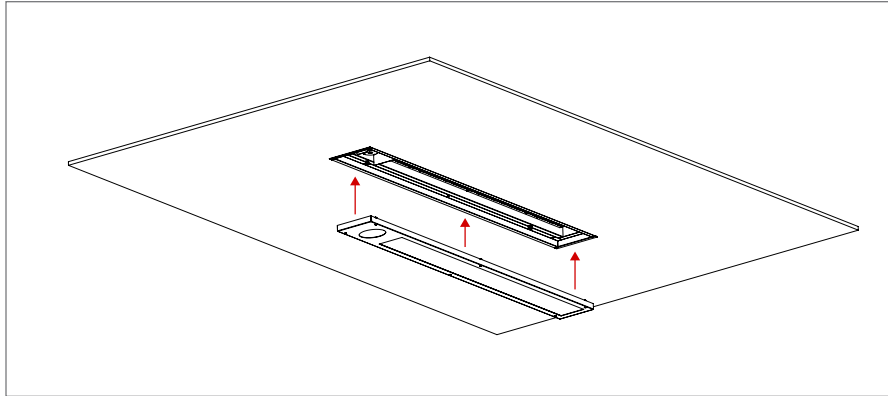
Range of tilt is 20° (10° either side from the center axis).

Tighten the nut once the position is fixed as shown.

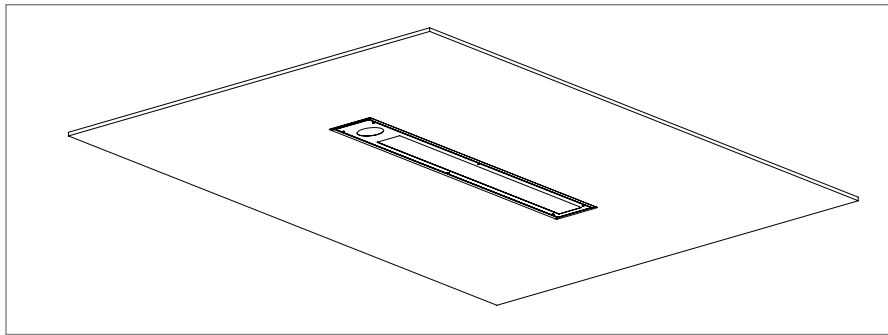


Installation Procedure

8. Insert the fixture door from the bottom.



9. Tighten the screws to secure the door to the fixture.



* Repeat the same nine steps to install the second fixture.

* After securing the fixtures, connect the wiring between the pair as required. Use the wiring code label located on top of each fixture to ensure proper connections.

Disinfecting, Cleaning, and Sterilization

NOTICE:

Damage due to improper cleaning.

- Do not use alcohol, solvent or cleaning agents containing chlorine or scouring agents.
- Damage to lens by concentrated disinfectant or solvent.
- Follow the manufacturers recommended mixing ratio.
- Use of incorrect cloths may scratch lens.

NOTICE:

A dirty lens will reduce the illuminating power.

- Clean lens regularly.
- Spray and wipe disinfection is permitted.
- Clean the lens with a leather cloth soaked in cleaner.
- Spray disinfectant in horizontal position.

NOTICE:

The local government regulations for disinfection must also be observed in addition to these instructions.

Warranty Policy

Architectural Lighting Solutions

(LightMaster, Lunar Series, Skyline Series, Solar Callisto, Solar Series, Solar Eclipse Series, Solar Duo Med Series, Solar Surgical, Leo Series, Behavioral Series)

Amico Lights Corporation warrants its products against defective materials and workmanship for twelve (12) months from the date of shipment. Within this period, Amico Lights Corporation will repair or replace any part on site or at the factory which is proven to be defective at Amico Lights Corporation's cost.

Furthermore, Amico Lights Corporation will warrant its material to be free from defect for an additional period of four (4) years (five [5] years from the date of shipment). Within this period, Amico Lights Corporation will replace any part at no charge, which is proven to be defective. Shipping and installation costs after the first twelve (12) months will be borne by the customer.

The warranty applies to normal usage and does not apply to any product that has been subject to alteration, abuse, negligence, or use (including voltage and/or current) other than that for which the product was designed.

Amico Lights Corporation shall not be liable for incidental or consequential damages resulting from the use of the equipment.

All claims for warranty must first be approved by Amico Lights Corporation. A valid Return Goods Authorization (RGA) number must be obtained from Amico Lights Corporation prior to commencement of any service work. Warranty work which has not been pre-authorized by Amico Lights Corporation will not be reimbursed.

www.amico.com

Amico Lights Corporation | 122-B East Beaver Creek Road, Richmond Hill, ON L4B 1G6, Canada
Toll Free Phone: 1.877.462.6426 | Toll Free Fax: 1.866.440.4986 | Tel: 905.764.0800 | Fax: 905.764.0862
Email: alt-sales@amico.com | www.amico.com

