



INSTALLATION GUIDE RANGER PRO

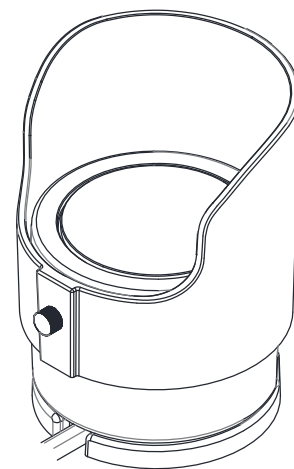
**Customer Service Available:
Mon-Fri 8:30am-4:30pm (EST)
info@emeryallen.com**

Please read and understand this installation manual before attempting to operate or install the product.

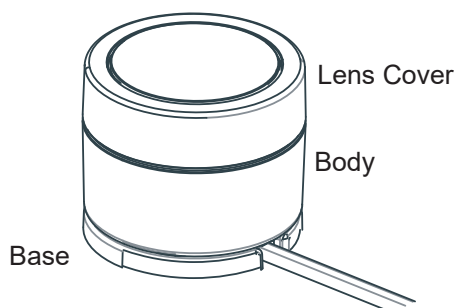
This luminaire is intended for installation in accordance with local codes and the National Electric Code (NEC). Failure to adhere to these codes and instructions may result in serious injury, property damage and void the warranty.

! WARNING AND CAUTION

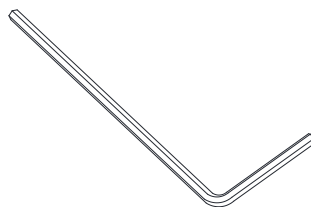
1. If you do not have enough electrical wiring experience or are unsure of the applicable electrical codes, please consult a qualified, licensed electrician.
2. Be sure to power OFF the electricity to the wires you are working on before installing or servicing the product.
3. To reduce the risk of fire, electrical shock or injury to persons: Do NOT touch the hot lens, guard or enclosure.
4. Keep lamps away from materials that may burn.
5. Do NOT operate the product when the lens cover is missing or damaged.
6. Do NOT touch the product when light on. It's HOT! Turn off the light and give sufficient time to cool down before servicing the product.
7. Wiring connections must be made with UL listed wire connectors that are suitable for outdoor use.
8. Do not use the LED fixture when either the LED fixture or its power cord are damaged. Replace the power cord only with original certified cords.
9. Regularly check the LED fixture for dust or dirt buildup. Clean if necessary. Contamination may cause overheating and decreased performance. Clean the outside of the LED fixture using a dry or damp cloth.
10. Regularly check the cables of the LED fixture to ensure it is undamaged.



PACKAGE CONTENTS



A Fixture Body
x 1

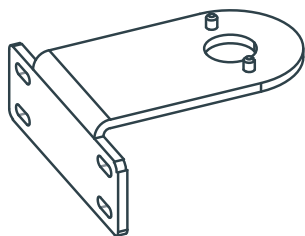


B Allen Wrench
x 1



C Thumb screws
x 2

MOUNTING ACCESSORIES (SUPPLIED)



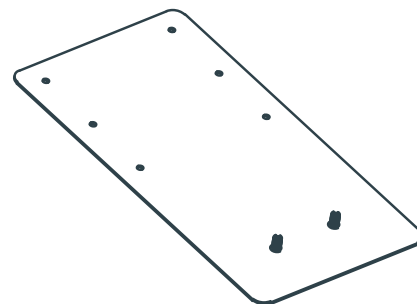
D Gutter Mounting Bracket
x 1



E Coupler
x 1



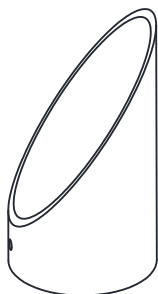
F Stake
x 1



G Shingle Mounting Plate
x 1



H Cowl
x 1



I Long Cowl
x 1



J Cowl Screw
x 1

MOUNTING ACCESSORIES (SOLD SEPARATELY)



K #8-32 x 5/8" Lock Screw
x 2

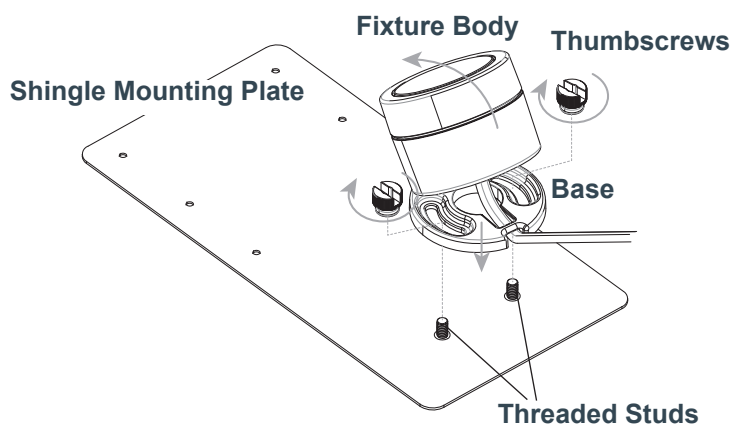


L Spike
x 2

This fixture can be installed by using the shingle mounting plate, the gutter mounting bracket, the stake or the spikes. Determine the mounting method before installation and refer to respective installation steps as below to complete the installation.

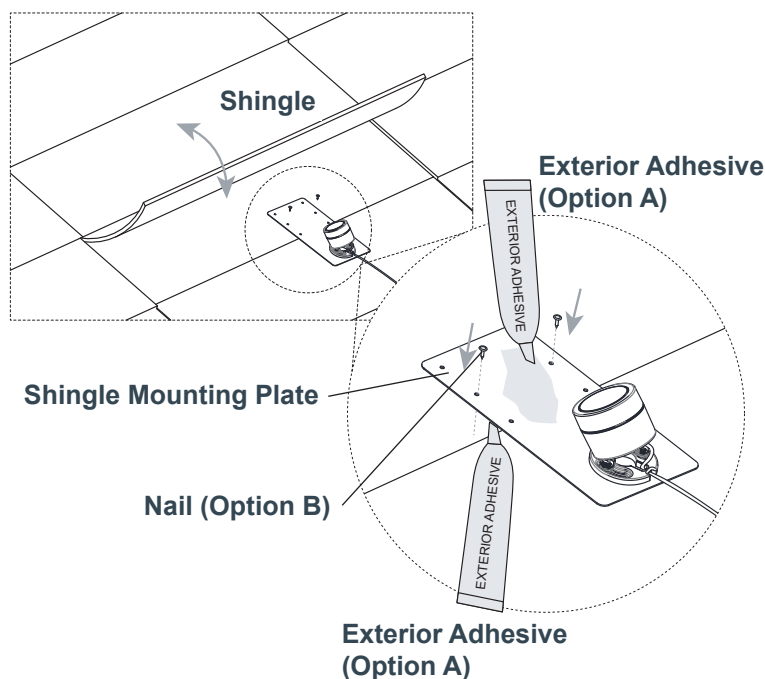
ROOF MOUNTING APPLICATIONS: SHINGLE MOUNTING PLATE

1. Tilt the fixture body to open the base. Place the base onto the threaded studs on the shingle mounting plate and thread the thumbscrews onto the threaded studs. Do not tighten the thumbscrews on this step.



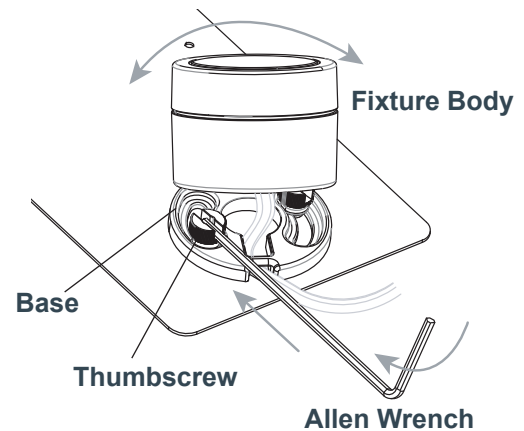
2. (Option A) Mount the shingle mounting plate by using exterior adhesives ----- Carefully apply exterior adhesive to both sides of the shingle mounting plate evenly. Flip open the shingle at the desired location and place the shingle mounting plate in place. Place the peeled-back shingle in place. Make sure the shingle mounting plate is installed securely.

(Option B) Mount the shingle mounting plate by using shingle nails (not supplied) ----- Flip open the shingle at the desired location and place the shingle mounting plate in place. Hammer at least two shingle nails from the holes on the shingle mounting plate to secure the shingle mounting plate.



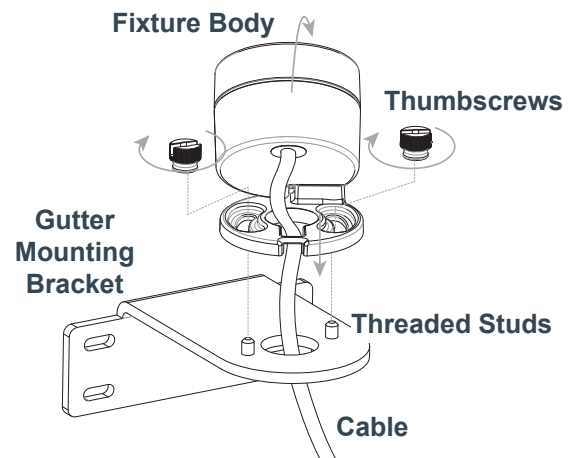
3. Rotate the Fixture Body to the desired direction. Insert the Allen wrench into the slot of the thumbscrews and tighten until snug to secure the base of the fixture body.

Go to the **WIRE CONNECTION** on **Page 10** to complete the rest installations.

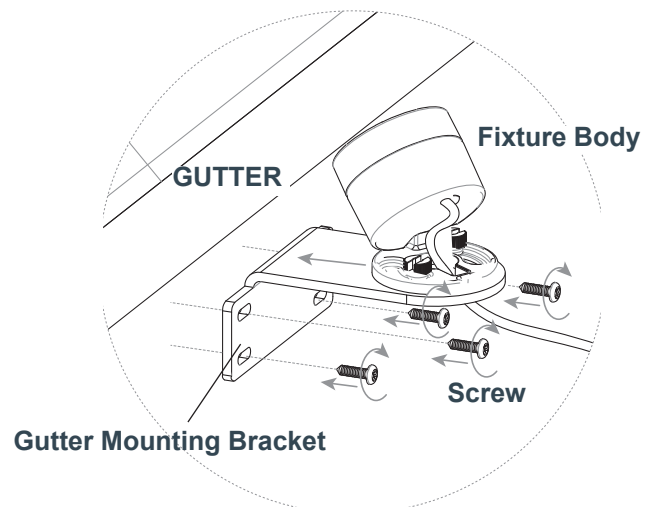


GUTTER MOUNTING APPLICATION: GUTTER MOUNT BRACKET

1. Tilt the fixture body to open the base. Pass the cable through the center hole on the gutter mounting bracket. Place the base onto the threaded studs on the gutter mounting bracket and thread the thumbscrews. Do not tighten the thumbscrews at this point.

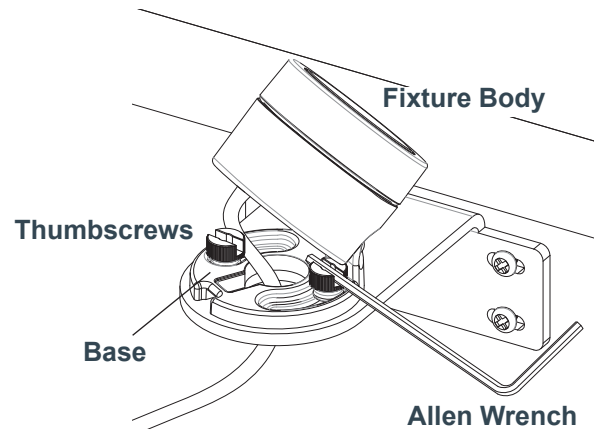


2. Attach the gutter mounting bracket to the gutter and make sure the fixture body is above the gutter. Thread screws to secure the gutter mounting bracket. Hand tighten until snug with screwdrivers until snug.



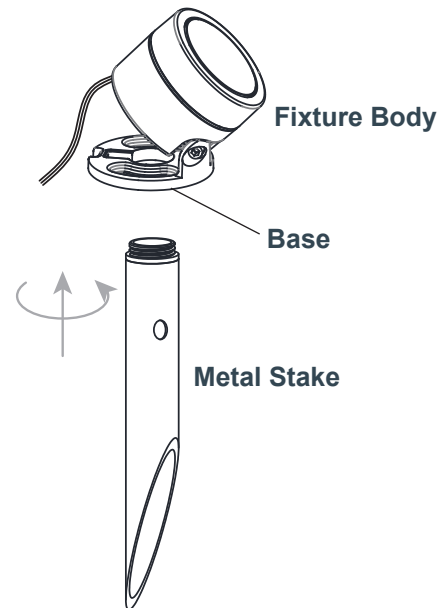
- Adjust the fixture body to set the desired direction. Insert the Allen wrench into the slot of the thumbscrews and tighten until snug to secure the base of the fixture body.

Go to the **WIRE CONNECTION** on **Page 10** to complete the rest installations.



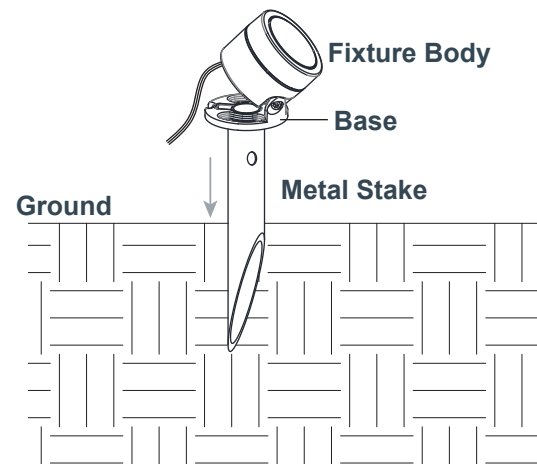
GROUND MOUNTING APPLICATION: STAKE MOUNT

- Thread the metal stake to the base of the fixture body and hand tighten until snug.



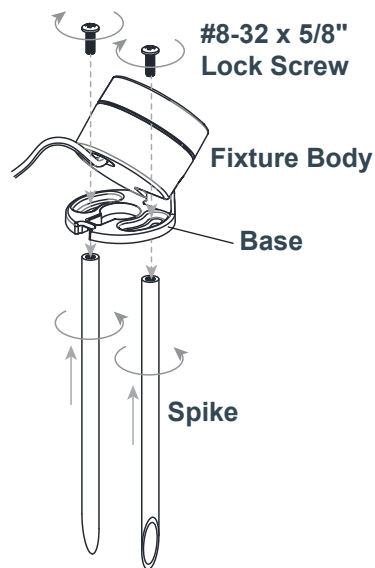
- Insert the metal stake into soil until the base of the fixture body is flush to the ground. **Note:** If the ground is hard and the stake is difficult to install, make a crosscut in the ground first by using a flat shovel.

Go to the **WIRE CONNECTION** on **Page 10** to complete the rest installations.



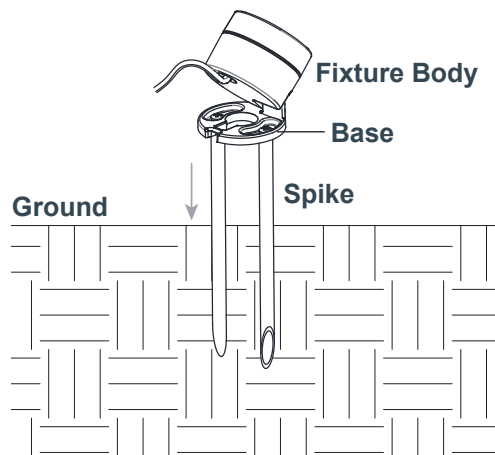
SPIKES MOUNTING APPLICATION: SPIKES MOUNT

1. Pass #8-32 x 5/8" lock screws through slot holes on the base of the fixture body. Thread spikes onto lock screws and hand tighten until snug.



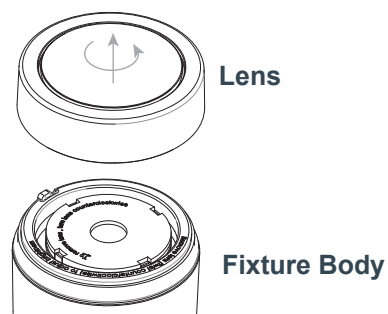
2. Insert spikes into soil until the base of the fixture body is flush to the ground. **Note:** If the ground is hard and the stake is difficult to install, make a crosscut in the ground first by using a flat shovel.

Go to the **WIRE CONNECTION** on **Page 10** to complete the rest installations.

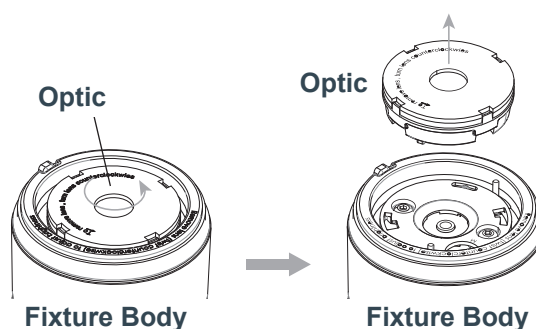


ADJUST LUMENS AND REPLACE OPTIC

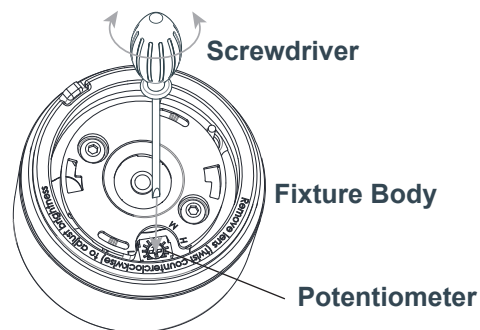
1. Rotate the lens counter-clockwise to remove it from the fixture body.



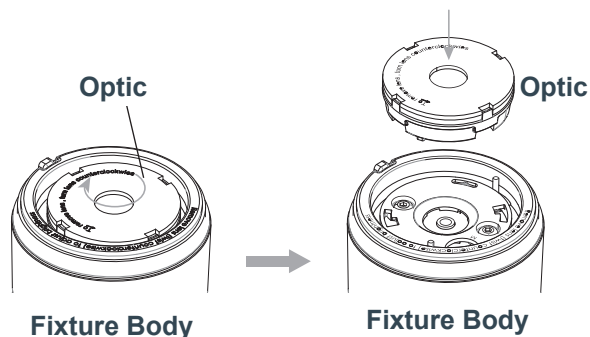
2. Rotate the optic counter-clockwise approximately 15 degrees to remove it.



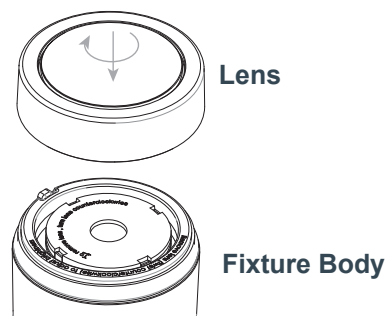
3. Insert the screwdriver into the center of the potentiometer. Rotate the potentiometer clockwise to increase light output or counter-clockwise to decrease the light output. Light output ranges from 30 lumens to 300 lumens. **Note:** There is an arrow on the potentiometer dial that indicates light output setting.



4. Install the previously removed optic back or install other optic with different beam angles (sold separately). Rotate the optic clockwise until it is secured in place. The available beam angles are: 15°, 24°, 36°, 60°, and 120°.

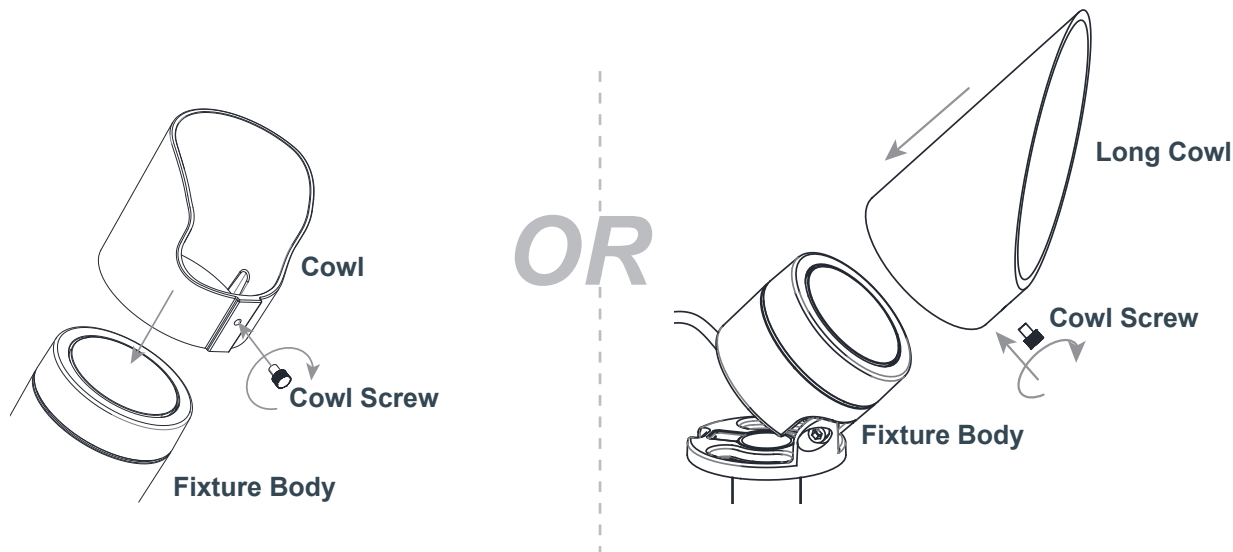


5. Thread the previously removed lens back onto the fixture body. Hand tighten until snug. **Note:** Do not overtighten lens!



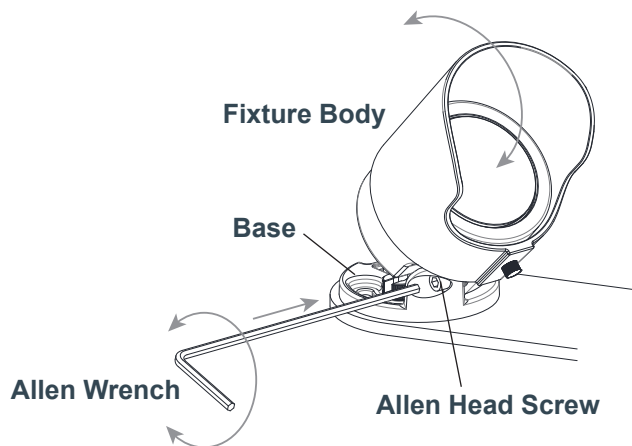
INSTALL COWL (OPTIONAL)

Place the cowl or the long cowl onto the fixture body. Secure by threading the cowl screw. Hand tighten until snug.

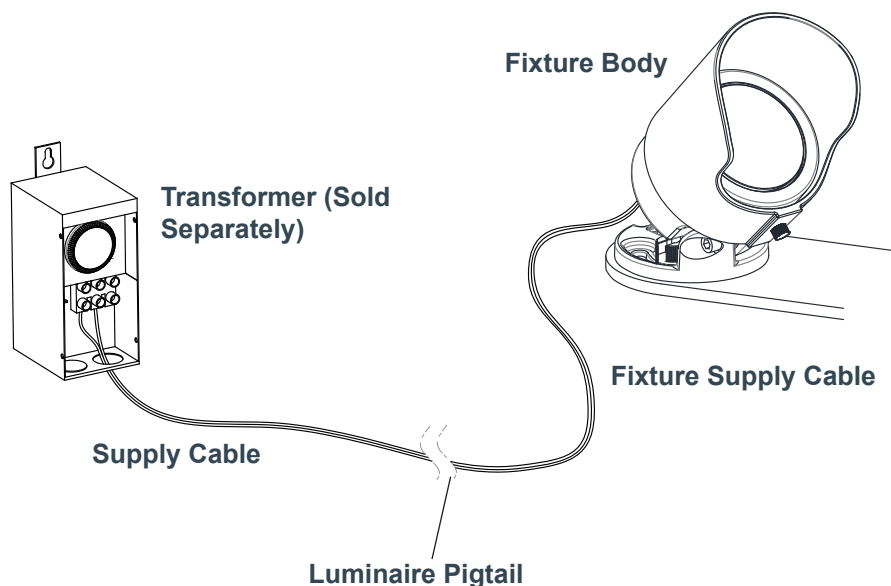


ADJUST DIRECTION

Using the Allen wrench, unlock the Allen head screw at the joint of the fixture body and the base. Tilt the fixture body to the desired direction. Always tighten the Allen head screw after the desired direction is achieved.



WIRE CONNECTIONS



Extend the supply cable from the transformer. Strip the ends of both wires from the luminaire pigtail. Then, attach the wires from the luminaire's supply cable to the transformer (which is sold separately). Note: The neutral wire of the fixture body must connect to the neutral wire of the transformer supply cable, and the "hot" wire of the fixture body must connect to the "hot" wire of the transformer supply cable.