

PROBRITE™

**NOVA COMMERCIAL
LED AREA LIGHT**

**INSTALLATION,
USAGE, & CARE GUIDE**

Model No.	NOVA100-PC-4K-BZ NOVA150-PC-4K-BZ
Mfr. SKU	103-05800017-1 103-05900017-1



Questions? / Missing Parts? / Need Accessories?

Before returning to the store, call or email PROBRITE
Customer Service 9am-5pm EST Monday to Friday.

1-844-507-5651

support@PROBRITE.com

PROBRITE.COM

Visit us online anytime or call us to get information on our product range, download detailed spec & photometric files, find product and mounting accessories, view installation tutorials and videos, and learn about our DLC® rebate eligible products.

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Safety Information


IMPORTANT


THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NATIONAL ELECTRICAL CODE AND LOCAL BUILDING CODES BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.


PRECAUTIONS


- ❑ Please read and understand this entire manual before attempting to assemble, install, or operate this light fixture.
- ❑ This light fixture requires a 120-277Volt AC power source.
- ❑ Some codes require installation by a qualified electrician.
- ❑ This light fixture must be properly grounded.
- ❑ Make sure connections are secure using wire nuts, crimp-on lugs or other approved connecting devices
- ❑ This light fixture should be installed outdoors to a wall or a pole.
- ❑ This product may contain chemicals known to be hazardous. Thoroughly wash hands after installing, handling, cleaning or otherwise touching the product.

 **WARNING:** Turn the power off at the circuit breaker or fuse. Place tape over the circuit breaker switch and verify power is off at the light fixture.

 **WARNING:** Risk of fire. Keep the lamp heads at least 3 in. (76mm) from combustible materials.

 **CAUTION:** Burn hazard. Allow the light fixture to cool before touching.

 **NOTICE:** For dimming use a 0-10V dimming switch

 **NOTICE:** FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authorization to operate this equipment.



INFORMATION: The device is tested and found to comply with Part 15 of the FCC Rules. Operation is subject to two conditions: (1) This device may not cause harmful interference and, (2) this device must accept any interference received, including any interference that may cause undesired operation.

These limits are designed to provide reasonable protections against harmful interference when the equipment is operated in a commercial environment.

Pre-Installation

PLANNING INSTALLATION

Before installing the light fixture, ensure that all parts are present. Compare parts with the *Hardware Included* and *Package Contents* sections. If any part is missing or damaged, do not attempt to assemble, install, or operate this light fixture.

Estimated installation time: 20 minutes

SPECIFICATIONS

MODEL	NOVA 100W	NOVA 150W
Lumens (Light Output)	12000 Lumens	18000 Lumens
Watts (Power Consumption)	100 Watts LED	150 Watts LED
Replaces	250 Watt PSMH	400 Watt Metal Halide
Lumens/Watts (Efficacy)	120 lumens per watt	120 lumens per watt
Power Requirements (Input Voltage)	120-277VAC	
Light Color (CCT)	4000 Kelvins (Bright White)	
Dimmable	Dimming (Use with 0-10V dimming switch)	
Surge Protection	10kV	
Optic Distribution Type	Type IV	
Operating Modes	Dusk-to-Dawn: Automatically turns light fixture ON during night and OFF during day. Switch-Controlled: Flip switch to turn light fixture ON and OFF. <i>Use included light sensor cap on fixture's light sensor to utilize this mode setting.</i>	

TOOLS REQUIRED



⊕ Phillips Screwdriver



Wire strippers/cutters



Circuit tester



Silicone Sealant



Work gloves



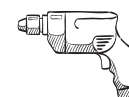
Ladder



Safety goggles



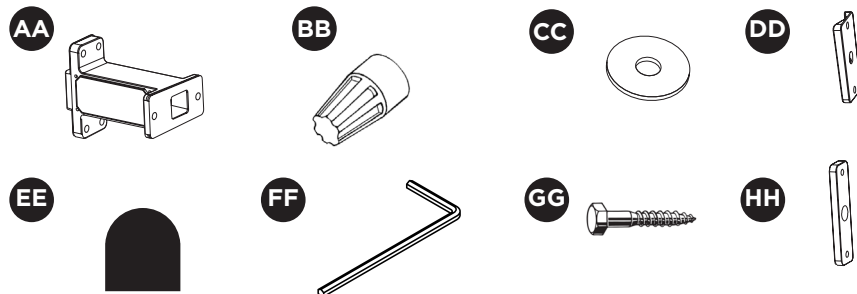
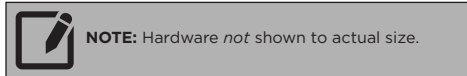
Wrench



Power Drill

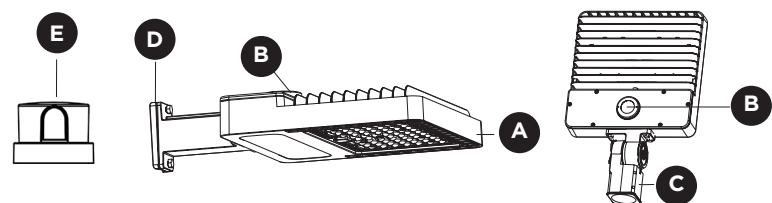
Pre-Installation (continued)

HARDWARE KIT



Part	Description	Quantity
AA	Extension Arm	1
BB	Wire nut	3
CC	Flat Washers	3
DD	Adapter plate (For round pole)	1
EE	Photocell black cover label	1
FF	Allen Key	2
GG	Hex Head Lag bolts	2
HH	Bolster plate	1

PACKAGE CONTENTS

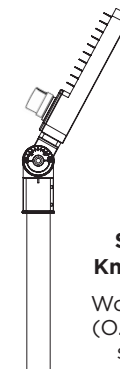


Part	Description	Quantity
A	Light Fixture	1
B	Photocell NEMA 3-Pin Receptacle	1
C	2-3/8" Swivel Slipfitter Knuckle Mounting Arm	1
D	Extension Arm Mount	1
E	120-277V NEMA 3-Pin Twist-lock Photocell	1

Installation

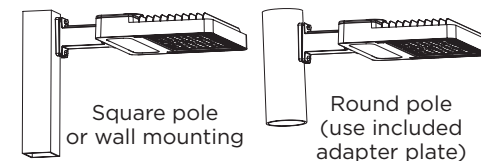
1 For best results

- ☐ The fixture can be mounted in the following ways:
 - ☐ **Swivel Slipfitter Knuckle Arm Mount:** Use the default swivel slipfitter knuckle on a 2-3/8" to 2-1/2" (O.D) round pipe, or fit to standard tenon arms for ground, pole, or wall mounting (tenon arms sold separately).
 - ☐ **Extension Arm Mount:** The fixture can also be mounted directly on a square or round pole surface, or direct to a wall, using the extension arm supplied separately in the package.
- ☐ Install on ground as a flood light or 12-30 feet above the ground for pole and wall mounting.
- ☐ Place the photocell (provided separately in the box) on the receptacle on top of the fixture and rotate in the direction of the arrow marked on the photocell.
- ☐ When mounting fixture, for Dusk to Dawn operation, make sure the photocell orientation is at the top for wall mount, in an area that receives daylight and not too close to reflective surfaces.



Swivel Slipfitter Knuckle Arm Mount

Works on 2-3/8" to 2-1/2" (O.D) round pipe, or fit to standard tenon arms



Extension Arm Mount

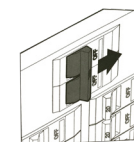
- ☐ When installing two fixtures on one switch, make sure the switch is rated for at least a 1A inductive load.
- ☐ The fixture may or may not be wired to a dimming switch.

2 Shut electric power off

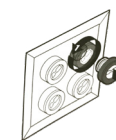
- ☐ At wall switch verify it is in the off position (fig 1).
- ☐ At the main electrical panel turn off the circuit breaker that supplies power to the outlet box you are working on (fig 2).
- ☐ For screw-in type fuses unscrew the fuse that supplies power to the outlet box you are working on (fig 3).



(fig 1).



(fig 2).



(fig 3).

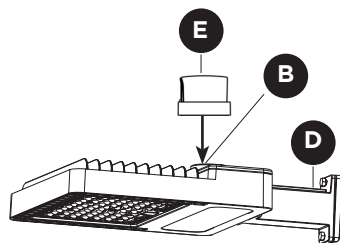
Installation (continued)

2 Placing photocell on fixture



NOTE: The fixture comes with the twist-lock photocell (E) provided separately in the box.

- ☐ Photocell (E) must be inserted into the receptacle (B) for fixture to turn ON.
- ☐ **OPTIONAL:** To deactivate Automatic Dusk to Dawn Functionality, place the included photocell cover sticker (EE) on photocell window.
- ☐ Place the photocell (E) onto the receptacle (B) on top of the fixture.
- ☐ Twist the photocell (E) in the direction of the arrow indicated on the photocell until it locks into place.



NOTE: The light fixture will not work without the photocell inserted into the photocell receptacle as it completes the circuit.



NOTE: Make sure the photocell is locked on the receptor. Do not over rotate after it is locked.



CAUTION: Do not try to rotate the photocell receptacle on top of the fixture as it may twist

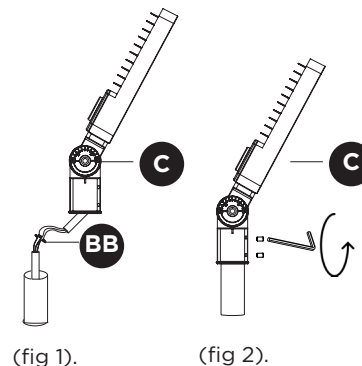
Installation (continued)

3A Slipfitter knuckle arm mounting (Applicable for round pipe / tenon mounting only)



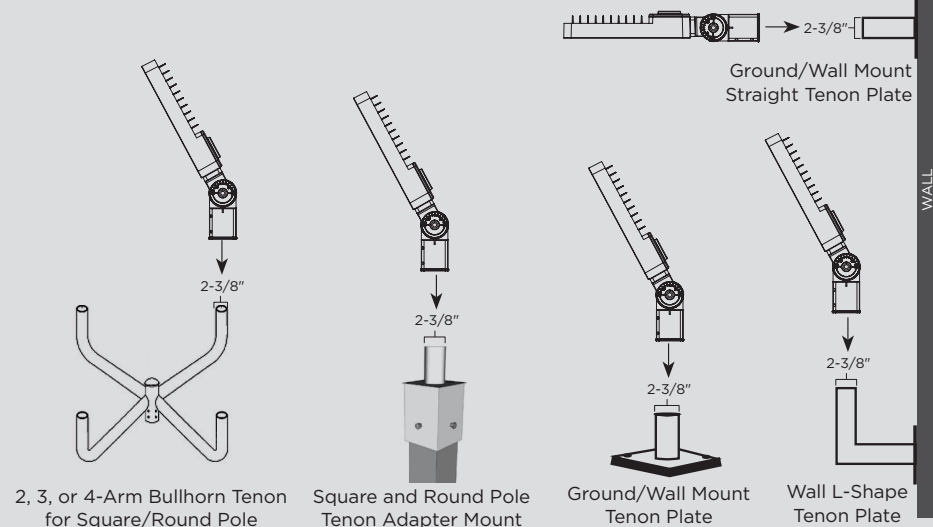
NOTE: The fixture comes with the 2-3/8" swivel slip-fitter arm (C) already attached to the fixture (A).

- ☐ Remove the cap from the top of the pole.
- ☐ Pull the leads through the pole and the slipfitter knuckle arm (C).
- ☐ Follow the wiring instructions given on step 4A to complete the wiring and use wire nuts (BB) on the connections. (Fig. 1)
- ☐ Place the knuckle arm on the pole and use the allen key (FF) to tighten the two bolts and fix the fixture on the pole. (Fig. 2)



Slip-Fitter Tenon Mounting Accessories :

- ☐ Mounting accessories for standard 2-3/8" slip-fitters are available. Please visit your local hardware store or contact our customer support so we can assist in securing mounts and accessories.



Installation (continued)

4A Making electrical connections

- If necessary, strip 3/8" of insulation from junction box or fixture (A) wires (fig 1).

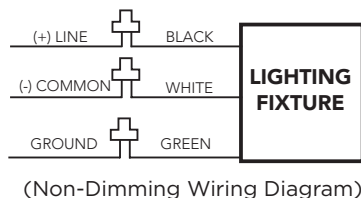


TIP: Hold stripped ends near each other and align any frayed strands (do not twist wires).

Push the wires into wire nut (BB) and use your fingers to twist the wire nut clockwise until tight. Check for tightness by pulling wires.

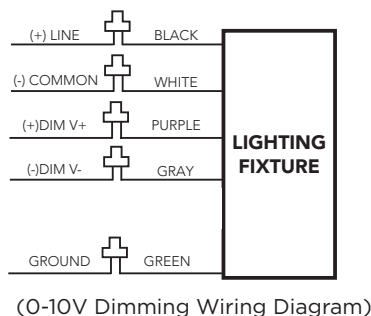
ON/OFF Wiring (Non Dimming) Method:

- Connect fixture black wire to house black wire, the (+) line, and fixture white wire to house white wire, the (-) common by twisting the exposed wires together and using the wire nuts (BB). Ensure no loose wires.
- Connect house ground wire to the green fixture ground wire, by twisting the exposed wires together and using the wire nuts (BB).



0-10V Dimmable Wiring Method:

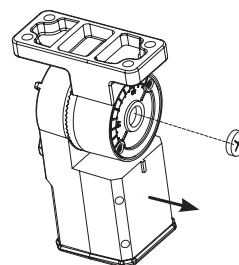
- Connect fixture black wire to house black wire, the (+) line, and fixture white wire to house white wire, the (-) common by twisting the exposed wires together and using the wire nuts (BB). Ensure no loose wires.
- Connect house ground wire to the green fixture ground wire, by twisting the exposed wires together and using the wire nuts (BB).
- Connect the purple wire to the (V+) DIM wire and the gray wire with (V-) DIM wire by twisting the exposed wire together and using the wire nuts (BB).



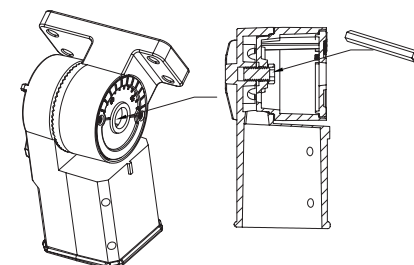
Installation (continued)

5A Adjust the fixture head orientation on slipfitter knuckle

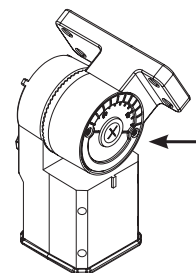
- Remove the plug from the side of the knuckle arm (C) (Step 1).
- Use the suitable allen key (FF) to loosen the screw and adjust the angle to desired orientation for the fixture. (Step 2)
- Replace the plug into the knuckle arm (C) (Step 3).



(step 1).



(step 2).



(step 3).

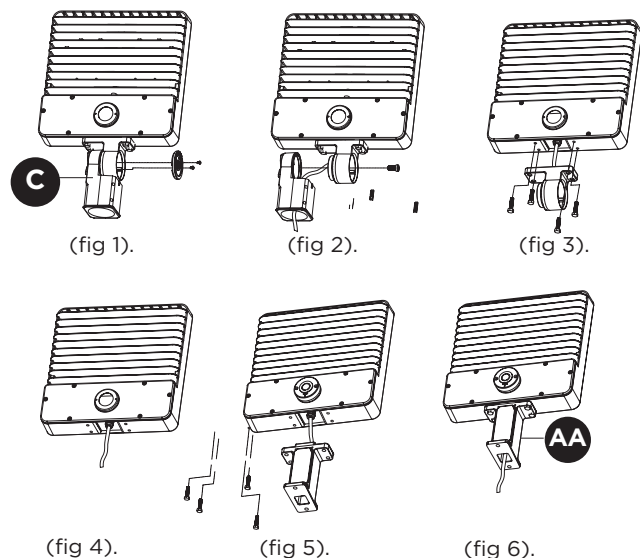
TURN PAGE
For Extension Arm Mounting Instructions



Installation (continued)

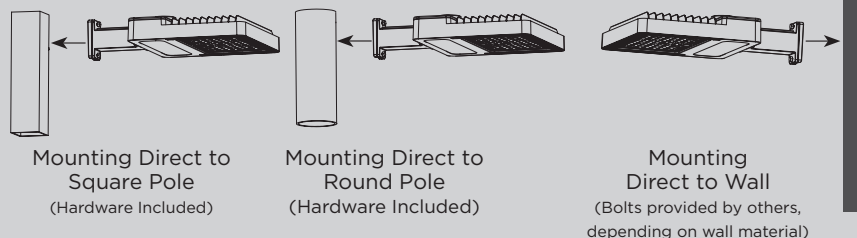
3B Replacing slipfitter knuckle with extension arm mount

- Remove the plug from the slipfitter arm (C) of the fixture and loosen the screw to remove the bottom handle. (Fig. 1 & 2)
- Remove the four screws from the slipfitter upper handle by using the larger allen key to remove the knuckle arm completely. (Fig. 3)
- Thread the wires through the extension arm (AA) and align the four holes with the holes on the fixture head. (Fig. 5)
- Fix the extension arm (AA) on the fixture by tightening the four screws removed earlier. (Fig. 6)



Extension Arm Usages :

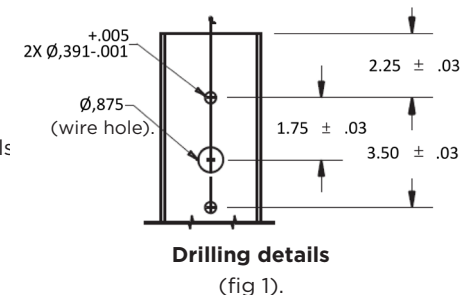
- Use the extension arm to mount fixture direct to a surface like square pole, round pole, or a wall



Installation (continued)

4B Drill mounting holes on the surface (Applicable for wall, square & round pole)

- Remove the pole's top cover, if applicable.
- Drill mounting holes into the pole or surface by referring to the drilling details in Fig 1.



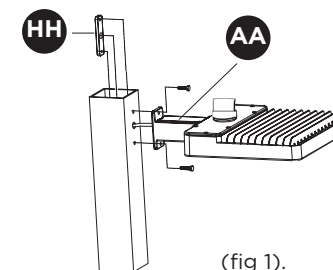
5B Mounting the extension arm



IMPORTANT NOTE: Pay attention to threading the wire through the center hole in the (1)bolster plate (HH), (2) the pole, (3) the round pole adapter plate (DD), and (4) the extension arm.

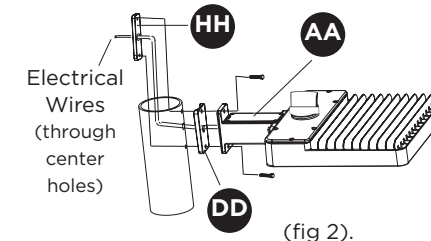
For Square Pole Only:

- Align the extension arm holes with the holes drilled on the pole.
- Fix the extension arm by inserting the two hex head bolts (GG) through the extension arm (AA), the pole and the bolster plate (HH), which is inside the pole (fig 1).
- Tighten the two bolts to 140 in-lbs (16 Nm).



For Round Pole Only:

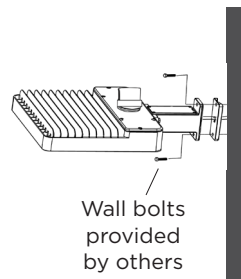
- Use the round pole adapter plate (DD) between the pole and the extension arm (AA).
- Insert the two hex head screws through the extension arm (AA), round pole adapter plate (DD), the pole and the bolster plate (HH), which is placed inside the pole (fig 2).



Installation (continued)

For Direct to Wall:

- Align the extension arm (AA) holes with the holes pre-drilled in the wall.
- Use proper bolts or wall anchors, for the type of wall (provided by others), and tighten to sufficient torque setting.
- Consult with qualified electrician to determine best mounting method and bolts for wall mount.
- Place electrical wires through the center hole in the extension arm (AA).



CAUTION: Do not use the bolts included in the hardware kit for direct to wall (they are intended for pole mounting). Use bolts or screws and anchors suitable for the wall's surface material. Consult with qualified electrician to help determine best mounting method and bolts for wall mount.



NOTE: The light fixture has precision Type IV forward throw optics so when using extension arm mount keep fixture in the 0° position.

Installation (continued)

6B Making electrical connections

- If necessary, strip 3/8" of insulation from junction box or fixture (A) wires (fig 1).

(fig 3).

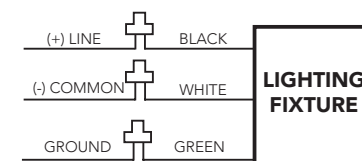


TIP: Hold stripped ends near each other and align any frayed strands (do not twist wires).

Push the wires into wire nut (BB) and use your fingers to twist the wire nut clockwise until tight. Check for tightness by pulling wires.

ON/OFF Wiring (Non Dimming) Method:

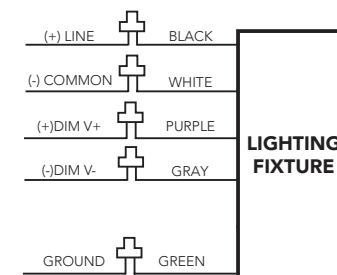
- Connect fixture black wire to house black wire, the (+) line, and fixture white wire to house white wire, the (-) common by twisting the exposed wires together and using the wire nuts (BB). Ensure no loose wires.
- Connect house ground wire to the green fixture ground wire, by twisting the exposed wires together and using the wire nuts (BB).



(Non-Dimming Wiring Diagram)

0-10V Dimmable Wiring Method:

- Connect fixture black wire to house black wire, the (+) line, and fixture white wire to house white wire, the (-) common by twisting the exposed wires together and using the wire nuts (BB). Ensure no loose wires.
- Connect house ground wire to the green fixture ground wire, by twisting the exposed wires together and using the wire nuts (BB).
- Connect the purple wire to the (V+) DIM wire and the gray wire with (V-) DIM wire by twisting the exposed wire together and using the wire nuts (BB).



(0-10V Dimming Wiring Diagram)

Operation

1 Selecting Dusk-to-Dawn or Switch-Activated control



NOTE: Photocell (E) must be installed on fixture for both dusk-to-dawn and switch controlled operation. Fixture will not work if photocell is not installed.

OPTION 1: DUSK-TO-DAWN OPERATION

Dusk-to-dawn operation enables the light fixture to automatically turn ON when dark outside and turn OFF when the sun rises, thus saving you energy.

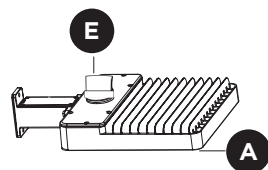
- ☐ To enable dusk-to-dawn operation make sure the photocell (B) is exposed to light and is unobstructed.
- ☐ Ensure the switch powering the outlet connected to the light fixture is turned to the ON position and *leave it ON* at all times to enable dusk-to-dawn functionality to operate automatically.



TIP: To test if the light fixture (A) and photocell (B) works properly run power to the fixture and cover the photocell to turn fixture ON. Shine a light into the photocell to see if fixture turns OFF.



NOTE: If photocell (B) is located in an area under heavy shade the photocell may not detect enough light and may turn the light fixture on.



**AUTOMATIC
NIGHTTIME ON**

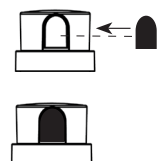
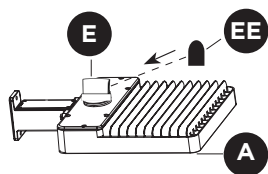


DAYTIME OFF

OPTION 2: SWITCH CONTROLLED

Switch controlled operation enables the light fixture to turn ON and OFF by flipping a switch that controls the electricity to the outlet powering the fixture. The light fixture will not turn ON and OFF automatically, but is manually controlled.

- ☐ To enable switch activated operation put the black cover label on the photocell.



SWITCH



CONTROLLED

Place included photocell cover (EE) to cover the clear window to disable dusk to dawn operation

Care and Cleaning

- ☐ Shut off main power supply before cleaning the product. To prolong the original appearance, clean the light fixture with clear water and a soft, damp cloth only.
- ☐ Do not use abrasive cleaners or cleaners that contain alcohol. Do not apply paints, solvents, or any other chemicals on this light fixture. They could cause a premature deterioration of the finish and may void the warranty.
- ☐ Do not spray the light fixture with a hose or power washer.

Troubleshooting

Problem	Possible Cause	Solution
Light does not turn ON	No power to the fixture	Check if circuit breaker is tripped Confirm wall switch is On Verify wiring to fixture is correct (turn power off to fixture beforehand)
	Fixture is sensing daylight	Cover photocell. Wait several seconds until fixture turns ON.
Light cycles ON and OFF continuously	Photocell light sensor is sensing reflected light	Relocate light fixture to a location where there is no reflected light. OR place the optional photocell cover over the photocell light sensor and use the wall switch to turn the light ON and OFF.
Light FLICKERS	The light fixture is wired through an unsuitable dimmer	Replace the dimmer with a 0-10V dimming switch or a standard ON/OFF wall switch.
Light stays ON	Light sensor is in a shaded area	Shine a flashlight into the light sensor and wait a couple minutes. If the light turns OFF, the fixture should be moved to a location with enough light in the daylight hours for the light sensor to work. OR place the optional opaque cover over the photocell light sensor and use the wall switch to turn the light ON and OFF.
	Light Sensor is faulty	If the light does not turn off when a flashlight is shined on the light sensor for a few minutes, then the sensor may be faulty. Please contact customer service.



NOTE: Photocell (E) has a few minute delay, to reduce it's sensitivity to sudden light changes. When testing shine a light/cover the photocell for a few minutes to check if fixture functions properly

5-Year Limited Warranty

This is a limited warranty offered by Probrite for a period of five years from the date of purchase to its customers. Probrite warrants to customers that the products will be free from defects in material and workmanship. The obligation of Probrite under this warranty is limited to the provision of replacement of products and is extended to the original purchaser of the product on presenting valid purchase receipt or other proof of date of original purchase acceptable to Probrite. The receipt is required for rendering the warranty performance. Any warranty claims without original proof of purchase would not be accepted.

It should be noted that the warranty does not apply to Probrite products that have been altered or repaired by unauthorized personnel, have been subjected to neglect, abuse, misuse or accident or damages caused during shipping. Any other products not manufactured by Probrite which have been supplied, installed and/or used in conjunction with Probrite products are not covered under this warranty. Any damages caused by replacements bulbs, LEDs or corrosion or discoloration of brass components are also not covered by this warranty.

Limitation of Liability:

In no event Probrite shall be liable for indirect, consequential, incidental or special damages, or lost profits. Probrite is not liable for any claims or damage arising out of or connected with the manufacture, sale, delivery, use, maintenance and repair or modification of Probrite products, or supply of any replacement parts that, exceed the purchase price of Probrite products giving rise to a claim. Labor charges to remove or install the fixtures will not be accepted.

To Claim:

Please contact PROBRITE customer service at 1-844-507-5651 or email support@PROBRITE.com and include your name, address and contact number, along with a copy of the purchase receipt and a brief description of the problem.

PROBRITE™

Questions? / Missing Parts? / Need Accessories?

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