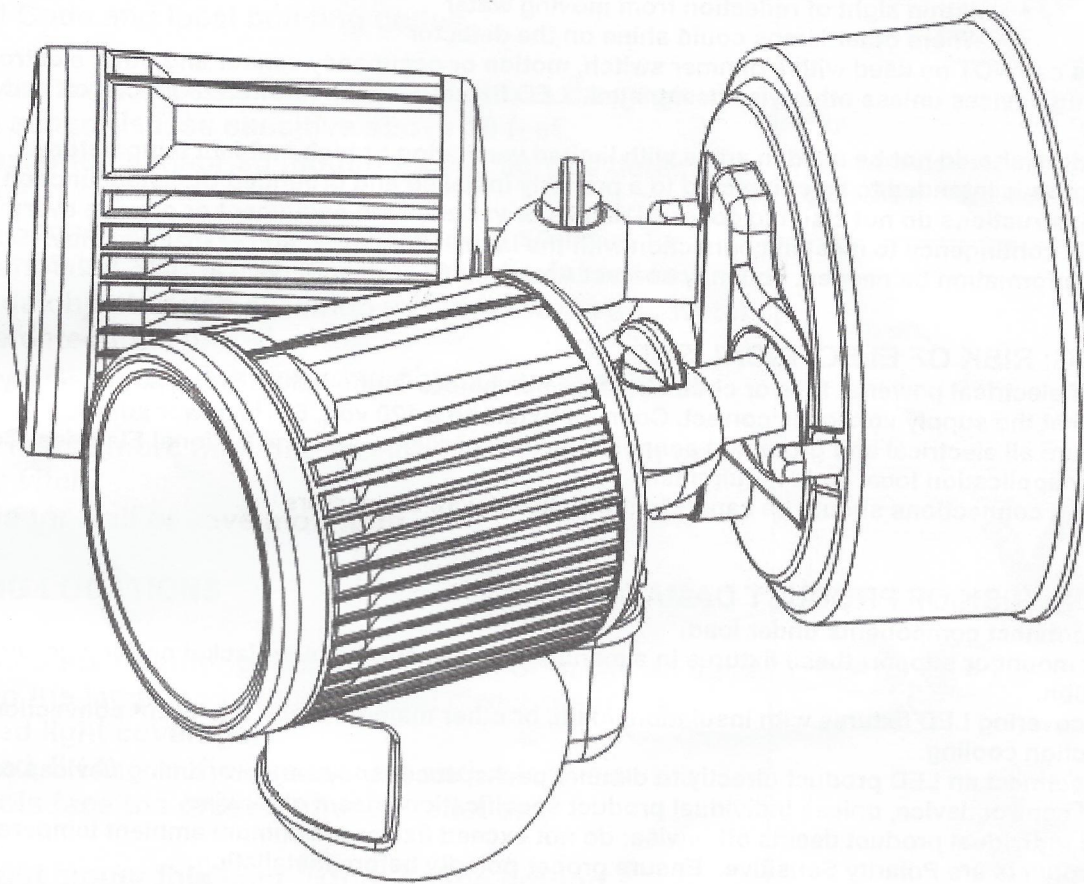




# TWIN HEAD LED MOTION SENSOR SECURITY LIGHT

ITM./ ART. 767697  
Model . AEC-326KA2-AC14W  
ES00384G



Protect yourself. Please read these instructions carefully prior to installation and retain them for future reference.

Failure to follow any of these instructions could void product warranties. Test Rite Intl assumes no responsibilities for claims arising out of improper or careless installation or handling of it's products.

For questions regarding this product or warranty, please contact American Customer Service at 1-855-232-6427, Monday through Friday, 8am to 8pm Eastern Time. Outside of Business hours you can reach us by e-mail 24/7 at [acs@americancustomerservice.com](mailto:acs@americancustomerservice.com) and we will reply to you on the next business day. Please enter the Costco ITM/ART # in the subject line.

Revised 5.27.14

## IMPORTANT SAFETY INSTRUCTIONS

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions and other hazards read all warnings and instruction included with and on the fixture box and all fixture labels.
- Before installing, servicing or performing routine maintenance upon this equipment, follow these general precautions.
- For Commercial installation, service and maintenance of this fixture should be performed by a qualified licensed electrician.
- For Residential installation: If you are unsure about the installation or maintenance of this fixture, consult a qualified, licensed electrician.
  - Do not mount the unit against flammable surfaces.
  - The motion detector will not operate correctly if it is installed:
    - Near the outlet of a central heating boiler
    - Near an air conditioning unit
    - Pointing directly at moving vehicles
    - Within sight of reflection from moving water
    - Where other lamps could shine on the detector
- Fixtures can NOT be used with a dimmer switch, motion or occupancy sensor and other electronic switching devices unless otherwise designated. LED fixtures must be powered directly off a switch circuit.
- This fixture should not be used in areas with limited ventilation or high ambient temperatures.
- This fixture is intended to be connected to a properly installed and grounded UL listed junction box.
- These instructions do not claim to cover all details or variations in equipment or provide every possible contingency to meet in connection with the installation, operation or maintenance. Should further information be needed, you may contact American Customer Service at 1-855-232-6427

### WARNING: RISK OF ELECTRICAL SHOCK

- Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply.
- Verify that the supply voltage is correct. Connect fixture to a 120 volt, 60 Hz power source.
- Make sure all electrical and grounded connections in accordance with the National Electrical Code and any application local code requirements.
- All wiring connections should be capped with UL listed wire connectors.

### CAUTION: RISK OF PRODUCT DAMAGE

- Never connect components under load.
- Do not mount or support these fixtures in a manner that can cut the outer jacket or damage wire insulation.
- Avoid covering LED fixtures with insulation, foam, or other material that will prevent convection or conduction cooling.
- Never connect an LED product directly to dimmer packs, occupancy sensors, timing devices or other related control device, unless individual product specifications deem otherwise.
- Unless individual product deems otherwise: do not exceed fixtures maximum ambient temperatures.
- LED products are Polarity Sensitive. Ensure proper polarity before installation.
- Electrostatic Discharge (ESD), can cause damage to LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
- Do not touch the individual electronic components, it may cause ESD, shorten lamp life or alter performance.

### CAUTION: RISK OF INJURY

- Wear gloves and safety glasses at all times when removing fixture from carton, installing, servicing or performing maintenance.
- Avoid direct eye exposure to the light source while it is on. LED LAMPS ARE EXTREMELY BRIGHT. UNDER NO CIRCUMSTANCES SHOULD YOU STARE INTO AN LED BEAM, THIS MAY CAUSE IRREPARABLE DAMAGE TO THE EYE.
- Account for small parts and destroy packaging materials, as these may be hazardous to children

### WARNING: RISK OF BURN

- Allow fixture to cool before handling. Do not touch enclosure of light source.
- Do not exceed the maximum wattage marked on the label.
- Keep combustible and other materials that can burn away from the luminaries, fixture and lamp/lens.

## PRE-INSTALLATION

Before beginning assembly of the product, make sure all parts are present. Compare parts with package contents list and hardware contents. If any part is missing or damaged, do not attempt to assemble the product.

Estimated Assembly time: 30 minutes.

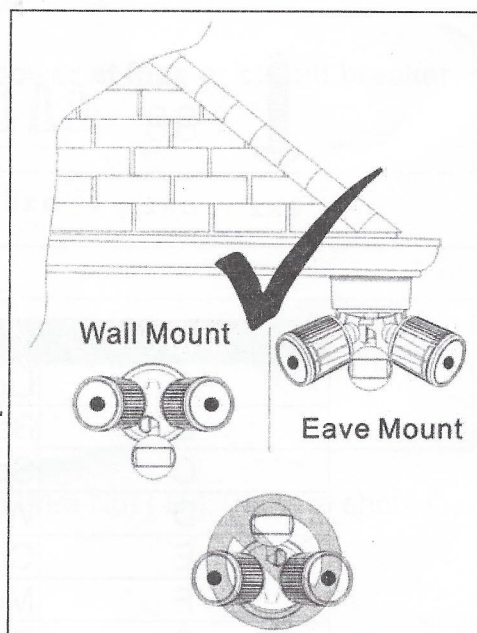
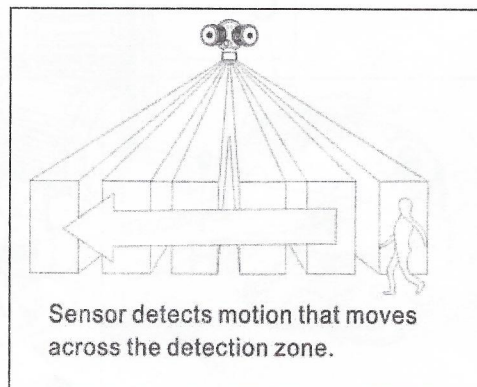
**Note:** Fixture should be installed by persons with experience in household wiring or by a qualified electrician. The electrical system and the method of electrically connecting this fixture to it must be in accordance with the National Electrical Code and local building codes.

- Install the motion sensor 6.5 – 10 feet above the ground. Motion sensor is less sensitive above 10 feet.
- Locate motion sensor so motion moves across detection zone.
- Locate sensor away from heat producing sources to prevent false triggering. Also be very careful not to include objects such as windows, white walls and water in the detection zone.
- Locate fixture away from moving objects such as trees and street traffic.
- Do not install more than one motion sensor light on one wall switch.
- Suitable for wall or eave mounting.

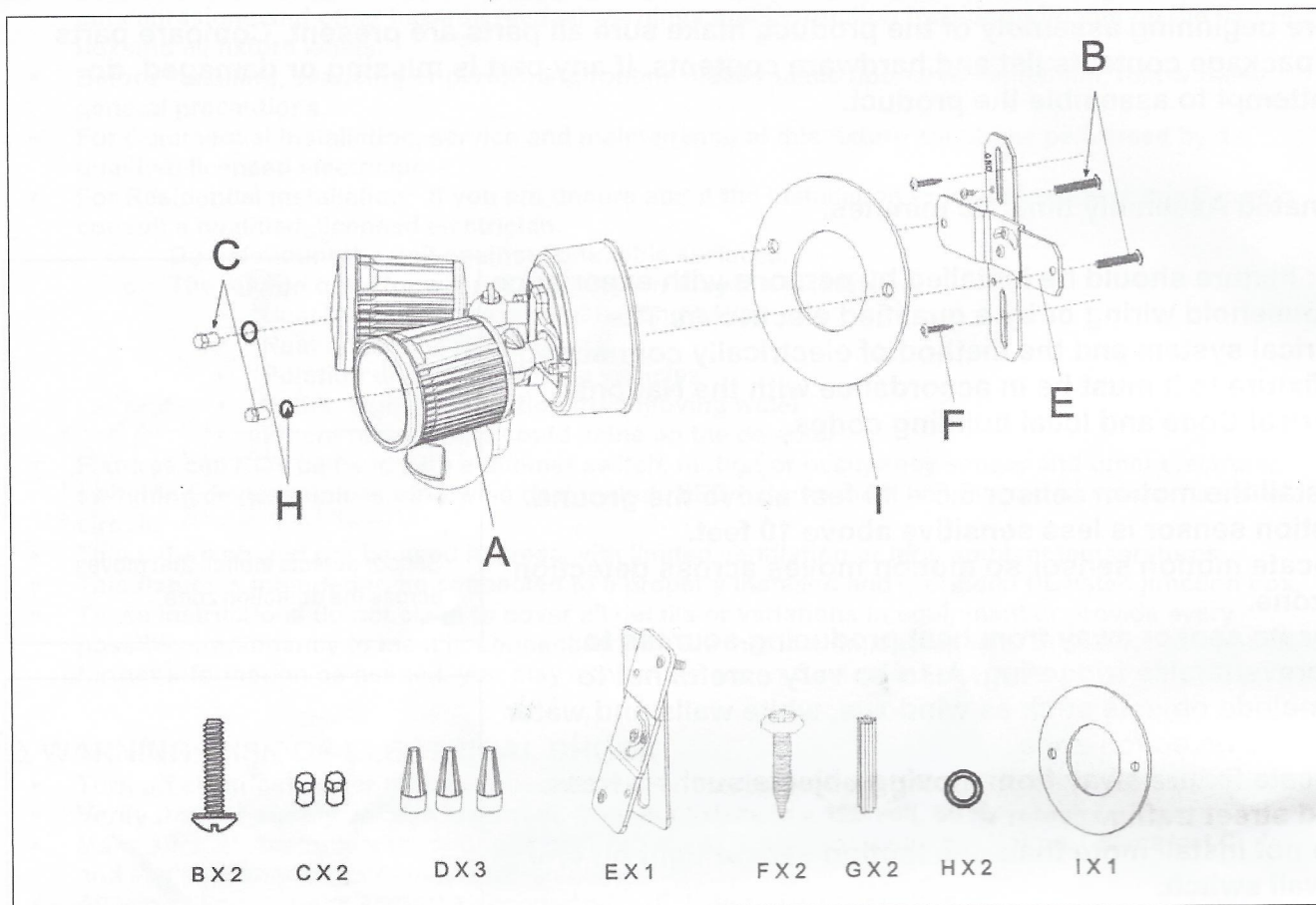
### MOUNTING LOCATIONS

- Determine the mounting location – a wall or under an eave.
- Position the lamphead in the general direction of the desired light coverage.
- If needed, lift the motion sensor up and rotate it so the controls face the ground after installation.

**Note:** Do not mount this light fixture on the ground.



## PRE-INSTALLATION (Continued)

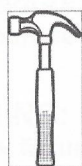


### FIXTURE PACKING LIST

Part	Description	Quantity
A	Light Fixture	1
B	Back plate Screw	2
C	Screw nut	2
D	Wire Nut	3
E	Cross Bar	1
F	Mounting Screw	2
G	Plastic masonry plug	2
H	Rubber Ring	2
I	Sponge foam	1
	User Manual	1

**Mounting Hardware included. Silicone Sealant is required (but not provided).**

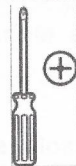
### Tools Required for Installation:



Hammer



Safety goggles



Phillips screwdriver

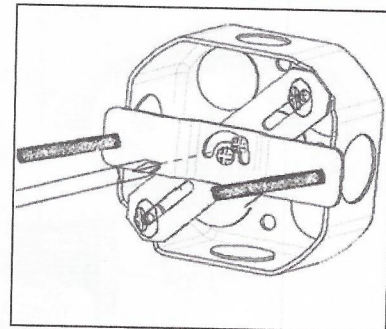
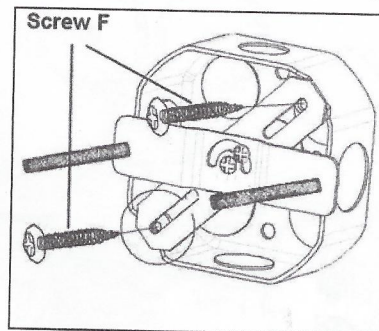
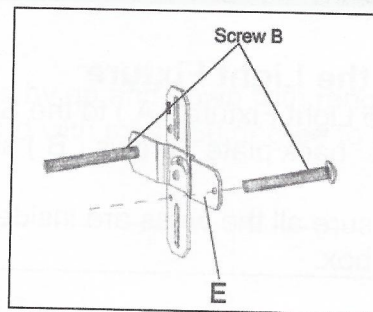


Level

## INSTALLATION

### 1 Installing the cross bar

- Before installing the Cross Bar ( E ) to the junction box, Screw the two Back Plate Screws ( B ) to the Cross Bar ( E ) first.
- Line up the holes on the cross bar with the holes on your junction box. Using the two Mounting Screws ( F ) attach the Cross Bar ( E ) to your junction box.
- Keep the Bar screwed with Back Plate Screw ( B ) in the horizontal direction then fix it tightly.



**WARNING:** Risk of electric shock. Disconnect power at fuse or circuit breaker before installing or servicing.

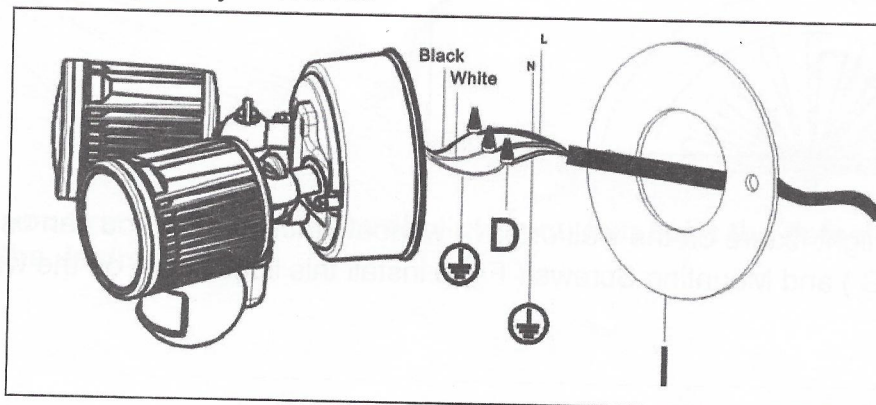
### 2 Wiring the Light Fixture



**CAUTION:** Do not cut any wires with factory installed wire connectors or remove the wire connectors.

- Connect the light fixture wires to the junction box wires with Wire Nut ( D ). The wire should pass through the Sponge foam ( I ).
  - ◆ White to white
  - ◆ Black to black
  - ◆ Green ground wire to house ground

Note: Make sure the polarity is correct.

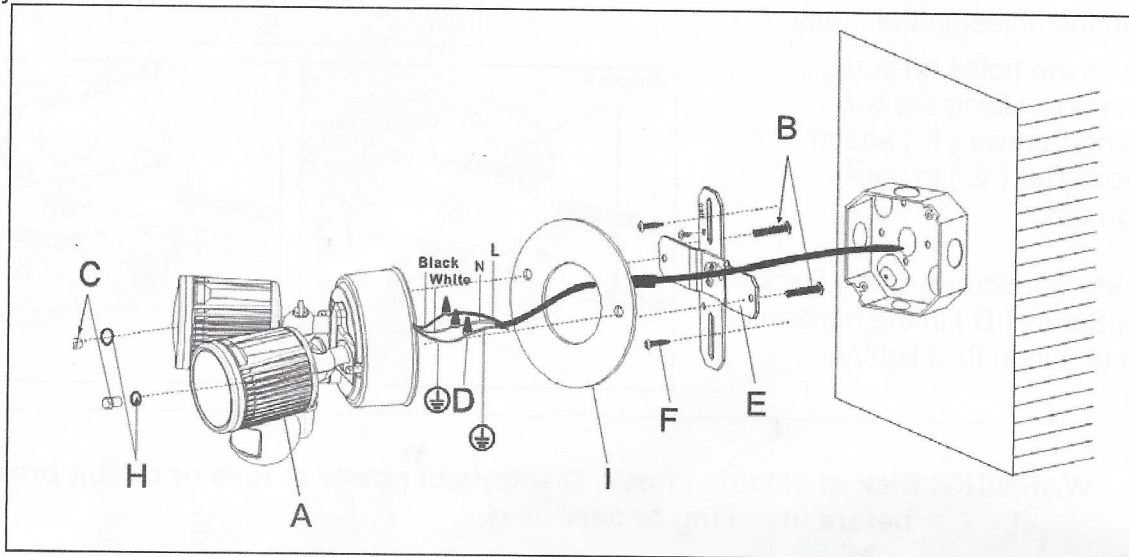


## INSTALLATION (Continued)

### 3 Mounting the Light Fixture

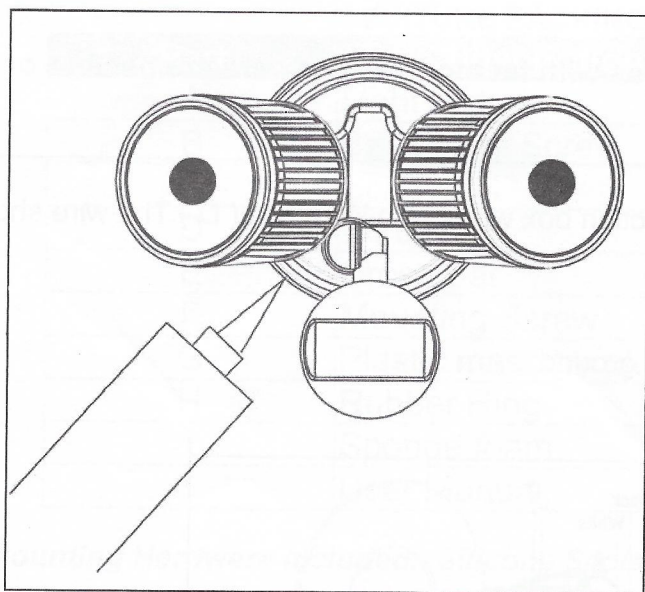
- Install the Light Fixture ( A ) to the Sponge foam ( I ) and Cross Bar ( E ) with affixed back plate Screws ( B ) and Screw Nuts ( C ) and rubber ring ( H ).

Note: Make sure all the wires are inside the junction box or the light before attaching the light to the junction box.



### 4 Caulking Around the Light Fixture

- Caulk around the canopy and mounting surface with silicone sealant (not included).

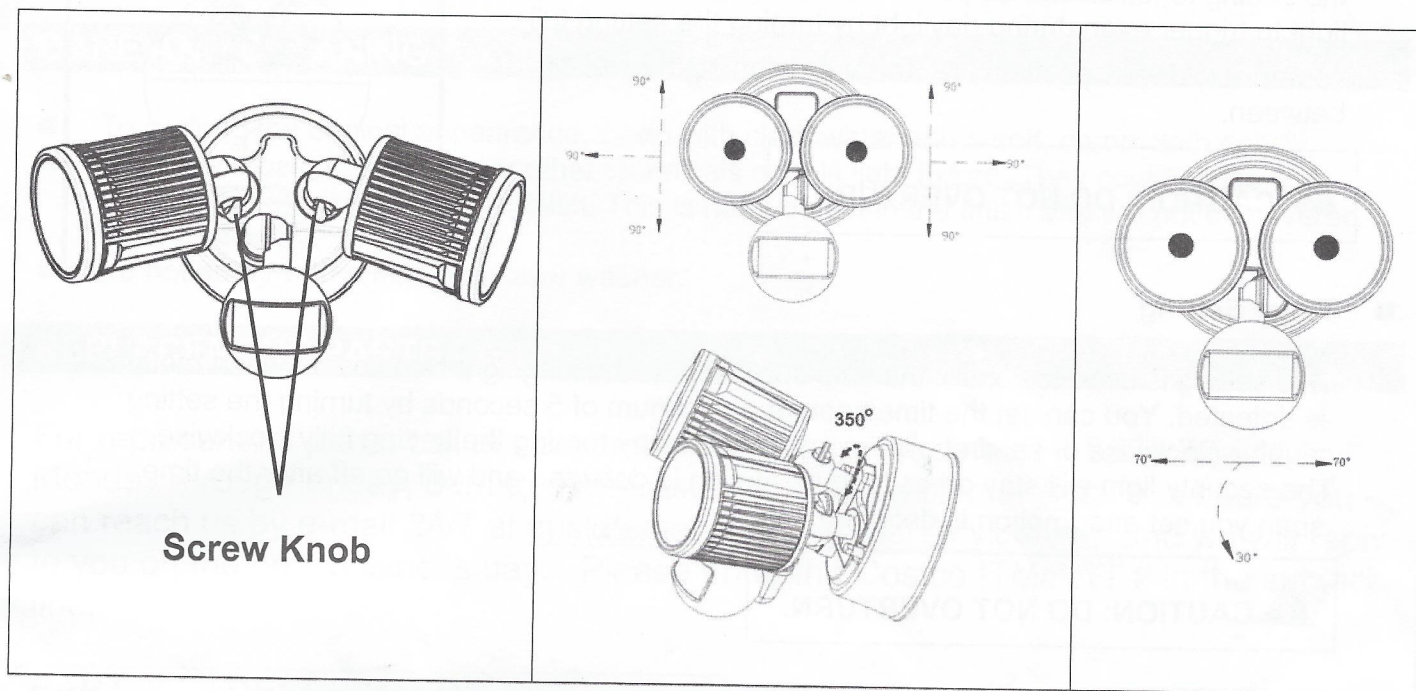


Note: If you install this light fixture on the wall or eave without junction box. You can use Plastic masonry plug ( G ) and Mounting Screws ( F ) to install this light fixture on the wall or eave directly.

## OPERATION

### 1 Adjusting the Lampheads

- Loosen the Screw Knob and adjust the lamp direction by up and down with range of 90 degree. You may also hold the lamp to adjust around with max 350 degree to get the desired lamp direction.

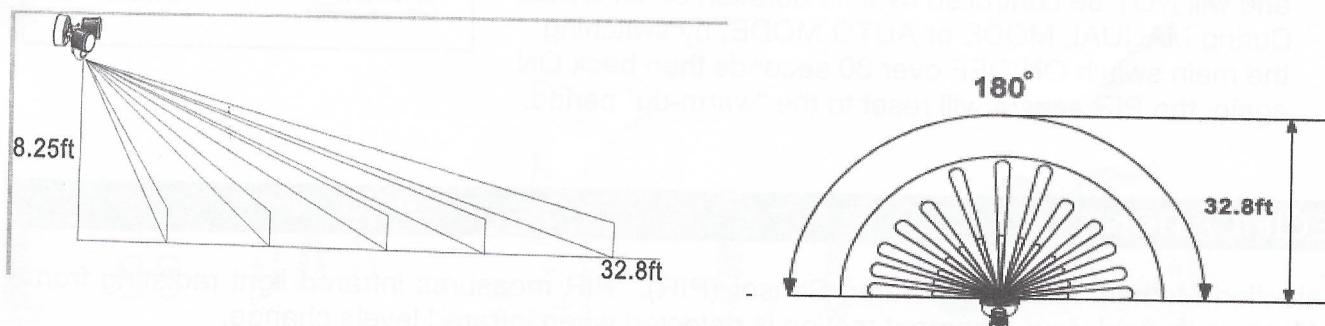


**Note: LED LAMPS ARE NON-REPLACEABLE.** Do not attempt to access / maintain the LED's; they are non replaceable and any contact may damage the LED's and will void the warranty.

### 2 Adjusting the detector

After installing your motion activated light, you are ready to set /aim the motion detector.

Detection Range: 32.8 Ft (10M) \* 180 degree



**Note:** When you first install your security light, you must aim the detector head to cover the desired area.

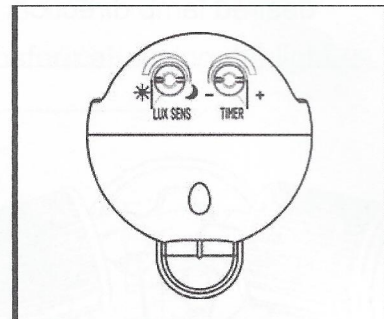
## OPERATION (Continued)

### ■ Dusk Level/ Lux Setting

This setting is used to control the ambient light level for the motion security light to turn on. You can set the light to turn on only in the darkness by turning the setting to full clockwise position ☾, or allow the security light to trigger even during daylight by turning the setting full counter-clockwise position ☀, or at ambient light level in between.



**CAUTION: DO NOT OVERTURN.**



### ■ Timer Setting

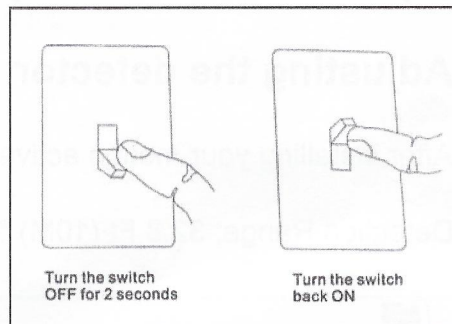
This setting is used to control the time span of how the long light remains on when motion is detected. You can set the time span at a minimum of 5 seconds by turning the setting counter-clockwise or set it at maximum 7 minutes by turning the setting fully clockwise. The security light will stay on as long as motion is detected and will go off after the time span you set after motion is detected.



**CAUTION: DO NOT OVERTURN.**

## 3 Manual Override Function

- When power is on, the PIR sensor enters a “warm-up” period for about 1 minute, then automatically switches into AUTO MODE.
- During AUTO MODE, by switching the main switch OFF for about 2 seconds then ON, the PIR sensor will automatically change into MANUAL MODE from AUTO MODE. In MANUAL MODE, the lights will remain ON, and will NOT be controlled by time duration or lux levels.
- During MANUAL MODE or AUTO MODE, by switching the main switch ON/OFF over 30 seconds then back ON again, the PIR sensor will reset to the “warm-up” period.



## SPECIFICATIONS

1. Detection Method: Passive Infrared Sensor (PIR). PIR measures infrared light radiating from objects in its field view. Apparent motion is detected when infrared levels change.
2. Sensor Range: 32.8 ft (10m) x 180 degree spread
3. Time Adjustment: 5 seconds to 7 minutes (approx)
4. Power Source: 120VAC/60Hz, 30.6W
5. With AC COB LED Chip: 2pcs \* 14W
6. Load Rating: No extra Lights should be added to this unit

## ADVANTAGES OF LED'S

1. Energy saving – much lower power consumption
2. Ultra extended life of LED's
3. Solid State lighting – no filament to break
4. No forward heat & low fitting heat. Much safer.

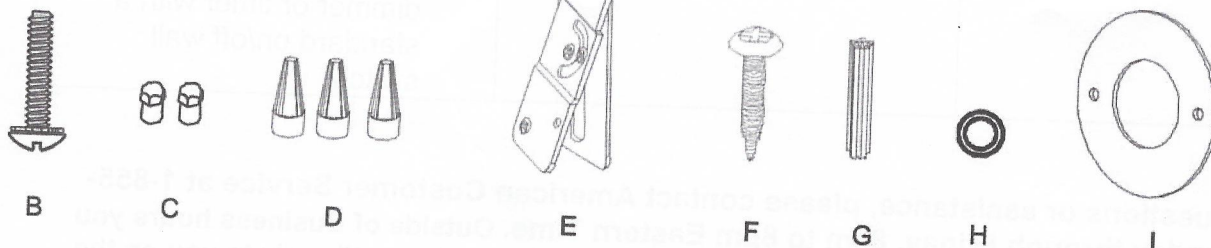
## CARE AND CLEANING

- To prolong the original appearance, clean with clear water and a soft, damp cloth only.
- Do not use paints, solvents, or other chemicals on this light fixture. They could cause a premature deterioration of the finish. This is not a defect in the finish and will not be covered by the warranty.
- Do not spray with a hose or power washer.


## REPLACEMENT PARTS LIST

For replacement parts, call our customer service department at 1-855-232-6427, Monday through Friday, 8am to 8pm Eastern Time. Outside of Business hours you can reach us by e-mail 24/7 at [acs@americancustomerservice.com](mailto:acs@americancustomerservice.com) and we will reply to you on the next business day. Please enter the Costco ITM/ART # in the subject line.

PART	DESCRIPTION
B	Back plate Screw
C	Screw nut
D	Wire Nut
E	Cross Bar
F	Mounting Screw
G	Plastic masonry plug
H	Rubber Ring
I	Sponge foam



## TROUBLESHOOTING

Problem	Possible Cause	Solution
The light will not come on.	<ul style="list-style-type: none"> <li>The light switch is turned off.</li> <li>The fuse is blown or the circuit breaker is turned off.</li> <li>The circuit wiring is incorrect, if this is a new installation.</li> <li>The detector is aimed in the wrong direction.</li> <li>The power voltage is wrong.</li> </ul>	<ul style="list-style-type: none"> <li>Turn the light wall switch on.</li> <li>Replace the fuse or turn the circuit breaker on.</li> <li>Verify the wiring is correct.</li> <li>Re-aim the detector to cover the desired area.</li> <li>Verify that the power voltage is correct.</li> </ul>
The light comes on during the day.	<ul style="list-style-type: none"> <li>The detector may be installed in a relatively dark location.</li> <li>The dusk level setting is wrong.</li> <li>The light fixture is on Manual Override Mode.</li> </ul>	<ul style="list-style-type: none"> <li>The light fixture is operating normally under these circumstances.</li> <li>Adjust the dusk level setting to  position.</li> <li>Adjust the light fixture to Auto Mode.</li> </ul>
The lights stay on continuously.	<ul style="list-style-type: none"> <li>A bulb is positioned too close to the detector or pointed at nearby objects that cause heat to trigger the light detector.</li> <li>The light fixture is on Manual Override Mode.</li> <li>The light fixture is on the same circuit as a motor, transformer, or fluorescent bulb.</li> </ul>	<ul style="list-style-type: none"> <li>Reposition the bulb away from the detector or nearby objects.</li> <li>Adjust the light fixture to Auto Mode.</li> <li>Install the light fixture on a circuit without motors, transformers, or fluorescent bulbs.</li> </ul>
The light comes on for no apparent reason	<ul style="list-style-type: none"> <li>There is motion in the detection zone.</li> <li>The light fixture is wired through a dimmer or timer.</li> </ul>	<ul style="list-style-type: none"> <li>Make sure the detector is not picking up moving objects such as trees, traffic, etc. and re-aim the detector.</li> <li>Do not use a dimmer or timer to control the light fixture. Replace the dimmer or timer with a standard on/off wall switch.</li> </ul>

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## FCC Information

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, and (2) This device must accept any interference received, including interference that may cause undesired operation. Warning: Changes or modification to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limited for Class B digital device, pursuant to Part 15 of the FCC Rules. Their limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna.