



Excellence in Compliance Testing

Certification Exhibit

FCC ID: NCG-MS180D

FCC Rule Part: 15.245

ACS Project Number: 11-0249

Manufacturer: Cooper Lighting, LLC

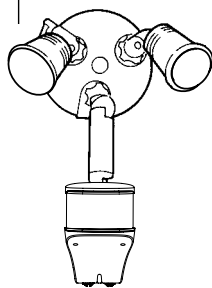
Manual



CMS185D (Bronze)
 CMS185DW (White)

PACKAGING CONTENTS/CONTENIDO DEL PAQUETE

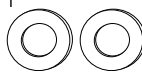
A. Motion detector and light fixture
 Detector de movimiento y artefacto de luz



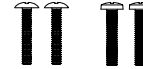
B. Coverplate gasket
 Junta de la placa de cubierta



C. (2) Lampholder gaskets
 (2) Juntas obturadoras del receptáculo



D. (2) #6 and (2) #8 mounting screws
 (use the size that fits your junction box)
 (2) Tornillos #6 y (2) tornillos #8 de montaje
 (utilice el tamaño que mejor se adecue a su caja de conexión)



E. (3) Wire nuts
 (3) Conectores de cable



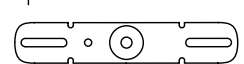
F. Color-matched center hole plug
 Tapón para agujero central de color coincidente



G. Mounting plate screw
 Tornillo para la placa de montaje



H. Mounting bracket
 Soporte de montaje



ENGLISH

ITEMS REQUIRED

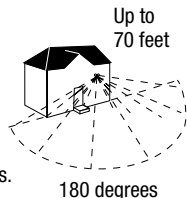
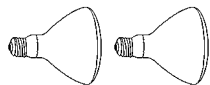
(Purchase separately)

- Phillips screwdriver
- Outdoor weatherproof silicone caulking
- (2) 100 watt (MAX) PAR 38 floodlight bulbs

NOTE: This fixture was designed to work with up to 150 watt maximum PAR halogen flood bulbs. For improved energy efficiency, lower wattage PAR halogen flood bulbs may be used. Compact Fluorescent (CFL) bulbs contain electronics which may interfere with the motion sensing function of your fixture and are not recommended. To meet ENERGY STAR® requirements, maximum total lamp wattage can not exceed 250 watts.

HOW IT WORKS

PIR does a good job of detecting lateral motion across the 180° range of detection. Precision Plus Doppler Radar™ does an excellent job detecting motion towards and away from the unit. Both systems combined provide enhanced accuracy and complete coverage within the detection range. Motion from any direction will trigger your floodlight—even during hot or cold temperature extremes.



IMPORTANT SAFETY INSTRUCTIONS

When using product, basic precautions should always be followed, including the following:

- Read and follow these instructions.
- Heed all warnings, including below warnings AND those included on product.
- Save these instructions and warnings.
- For outdoor use only.
- cETLus LISTED for wet location.
- Suitable for wall mount or eave mount only. NOT suitable for ground mount installation.
- Disassembling your fixture will void the warranty.
- Your fixture is prewired and preassembled for easy installation.

WARNING

- Bulb gets HOT quickly!
- The bulb and fixture get extremely hot during use. Disconnect power and allow fixture to cool before changing bulb or handling fixture.
- 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 the fixture to it, must be in accordance with the National Electrical Code and local building codes.
- Always replace bulb with the same wattage or lower wattage than marked. Installing a bulb of a higher wattage could create a fire hazard. Use of a higher wattage bulb will void the warranty. (Maximum 150 watt PAR halogen bulb.)

CAUTION

- Connect fixture to a 120 volt, 60 Hz power source. Any other connection voids the warranty.
- Fixture must be mounted to a grounded recessed junction box marked for use in wet locations.
- Suitable for wall mount or eave mount only. NOT suitable for ground mount installation.
- Do not allow sensor head to touch light housing – maintain at least 1 inch space between fixture and sensor.
- Keep away from flammable objects. Do not position fixture within 2 inches of any combustible materials.
- For proper operation and protection against damage, the motion sensor head adjustment knobs must be facing the ground.
- MINIMUM 90° C SUPPLY CONDUCTORS.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- Only use attachments/accessories specified by the manufacturer.
- 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. Under Part 15 of the FCC Rules, any changes or modifications to the motion detector described in this instruction sheet that are not expressly approved by Cooper Lighting, LLC could void the user's authority to operate the equipment.



NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These 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 this 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.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: 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.

- Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
- This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

FOR BEST RESULTS

- Install the motion sensor/transmitter 8-12 feet above the ground. (Motion sensor is less sensitive above 12 feet.)
- Locate motion sensor so motion moves laterally or towards the detection zone (Fig. 1).
- 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 sensor away from moving objects such as trees, large shrubs and street traffic.
- Do not install more than one motion activated floodlight on one wall switch.

MOUNTING AND WIRING YOUR FIXTURE

NOTE: Universal coverplate mounts to recessed or surface mounted standard junction boxes (Fig. 2). Junction box must be at least 1-1/2 inches in depth for proper installation for recessed mount application.

NOTE: For best performance when installing more than one Precision Plus Doppler Radar™ fixture:

- Two or more units mounted side by side (facing the same direction) should be at least 17 feet apart.
- Two units facing each other should be mounted at least 100 feet apart.
- Fixture can be wall or eave mounted (Fig. 3).

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

1. Turn off the power at the main fuse/breaker box.

2. Line up the holes on the mounting bracket (H) with the holes on your junction box. Using either (2) #6 screws or (2) #8 screws (D) (depending on size of the holes in your junction box), attach the mounting bracket (H) to your junction box (Fig. 4).

3. Thread fixture wires through coverplate gasket (B) and position gasket (B) on the coverplate.

4. Connect the black wire from the fixture (A) to the black house supply wire and the white wire from the fixture (A) to the white supply wire using the wire nuts (E) provided. Attach the ground wire coming from your house to the copper ground wire from the fixture (A) using wire nut (E) provided. If no house ground wire is available, attach the copper ground wire from the fixture (A) to the junction box if it is metal and grounded. If junction box is not metal and no house ground wire is available, an alternative ground source must be used for safe operation (Fig. 5).

5. Attach fixture (A) to the mounting bracket (H) using the center bolt (G) provided. Be sure no loose wires remain sticking out from underneath the coverplate. Insert plastic color-matched plug (F) in center bolt hole for finished appearance (Fig. 6).

6. Apply silicone caulk around the edges of the coverplate to provide a watertight seal from rain and moisture.

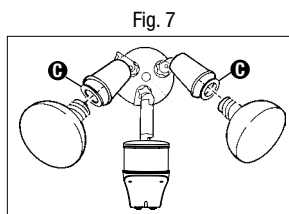
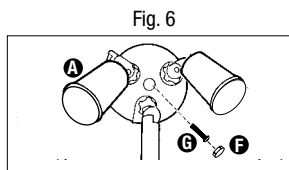
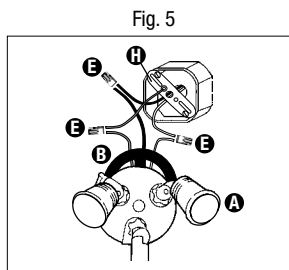
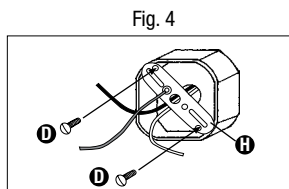
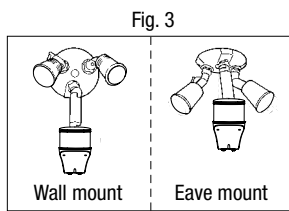
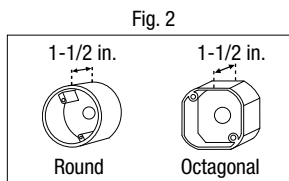
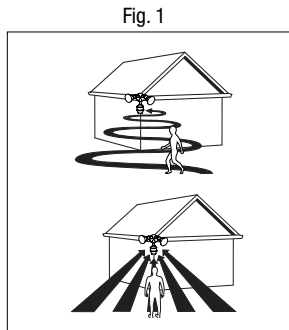
7. Insert lampholder gaskets (C) into lampholder assembly, tightly against lampholder, and screw bulbs into each lampholder (Fig. 7). (Do not overtighten bulbs.)

8. Turn on power at main fuse/breaker box.

AIMING THE LIGHT

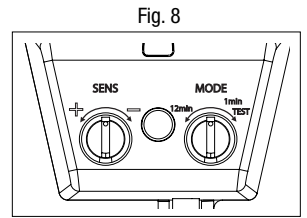
Loosen the knob on the side of the lampholder. Tilt lampholder up or down to desired position, then retighten knob.

⚠ WARNING: Deviation from the assembly instructions may result in a risk of electric shock.



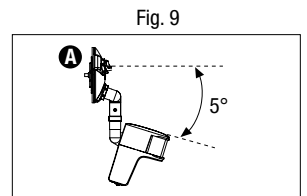
OPERATING YOUR FIXTURE

1. Turn the arrow on the MODE knob to "TEST" for test mode (Fig. 8).
2. Turn the arrow on the SENSITIVITY knob to a middle point between "+" and "-".
3. Turn on the power to the fixture. Allow fixture to warm up approximately 90 seconds before testing. (Lights may or may not come on during warm-up period; this is normal.)
4. Aim sensor toward the general direction that motion will be coming from. Maintain at least 1" of clearance between sensor head and lamps. Always position the sensor head with control switches facing toward the ground.



NOTE: (Sensor Head Placement) For optimum detection, you may have to experiment with aiming and settings. Each location will be different and your terrain may affect the angle your sensor needs. Adjusting the angle will change your area of detection. Here are some general guidelines to help with setup:

- 8'-12' above the ground is a good range for the placement of your fixture.
 - For an 8' mounting height, placing the sensor at a 5° angle below horizontal should work well for most locations (Fig. 9).
 - If the fixture is mounted higher, the angle of the sensor below horizontal should increase.
5. Walk through the detection zone at the farthest distance you want your detector to detect motion.
 6. Adjust the SENSITIVITY knob until you get desired results. For more range, aim sensor slightly upward. For less range, aim sensor head slightly downward. Lights will turn OFF 4 seconds after motion stops.
 7. Adjust the "Auto" MODE knob to a time selection from 1m-12m, depending on how many minutes you want the fixture to stay on after motion is detected. At dusk, the photo control will activate your fixture to operate according to the settings chosen.



NOTE: Decreasing the SENSITIVITY will decrease the distance the unit can detect.

NOTE: During daylight hours, the red LED indicator light will flash when motion is detected. This is normal.

ENERGY STAR®



ENERGY STAR® is sponsored by the U.S. Environmental Protection Agency & U.S. Department of Energy. Visit www.energystar.gov to learn more.

To meet ENERGY STAR® requirements, the photosensor control knob must be in the "Auto" mode to prevent operation during full daylight. Maximum total lamp wattage can not exceed 250 watts.

SELECTING YOUR DESIRED FEATURE

Mode of Operation	MODE Knob Adjustment	How to Set Power Switch
Test Setting Lights should turn ON with motion both day and night. Lights should turn OFF after 4 seconds.	MODE knob arrow points to TEST.	Wall Switch Setting (connected to fixture) Keep wall switch in ON position.
Motion Activated Setting "Auto" Lights should turn ON with motion only at night and should turn OFF after 1-12 min. of no motion.	"Auto" MODE knob arrow points to a time selection within the 1m-12m time range.	Keep wall switch in ON position. Keep the power to the fixture ON.
Dusk-to-Dawn Setting (activated only at night) Lights should stay ON from dusk to dawn and then reset to motion activated setting after 6 hours.	MODE knob arrow points to a time selection within the 1m-12m time range.	Turn the power OFF-ON-OFF-ON within 3 seconds; light will go into override mode.
Return to Motion Activated Setting from any of the above settings.	"Auto" MODE knob arrow points to a time selection within the 1m-12m time range.	Turn the power OFF for at least 90 seconds and then back ON.

TROUBLESHOOTING

Problem	Cause / Solution
Light does not come on with motion at night.	<p>No power to the fixture.</p> <ul style="list-style-type: none"> • Check if circuit breaker tripped. • Confirm wall switch is ON. <p>Bulb is faulty.</p> <ul style="list-style-type: none"> • Replace bulb. <p>Surrounding external ambient light is too bright. (If so, the unit may think it is daytime.)</p> <ul style="list-style-type: none"> • Re-aim the head. • Relocate or reposition the unit away from the light. <p>TURN OFF POWER BEFORE CONTINUING</p> <p>Wiring to the unit is loose.</p> <ul style="list-style-type: none"> • Check wiring, and reconnect if necessary using wire nuts (E) provided.
Light comes on for no apparent reason at night.	<p>There is motion in the detection zone.</p> <ul style="list-style-type: none"> • Make sure the sensor is not picking up moving objects such as trees, traffic, etc. <p>TEST FOR YOURSELF:</p> <ul style="list-style-type: none"> • Cover the sensor lens with cardboard to prevent sensor from detecting motion. If the light stays off, something in the detection zone is triggering the sensor. • If this is the case, reduce the sensitivity. • Reposition the sensor. <p>* If the light stays on with the sensor lens covered, contact customer service.</p> <p>Unit is in the motion activated setting.</p> <ul style="list-style-type: none"> • Make sure "Auto" MODE knob is set between 1m-12m.
Light stays on at night and does not turn off.	<p>There is motion in the detection zone.</p> <ul style="list-style-type: none"> • Make sure the sensor is not picking up moving objects such as trees, traffic, etc. • Reduce the sensitivity. • Reposition the sensor. <p>Unit is in override mode (if there is no motion).</p> <ul style="list-style-type: none"> • Turn the light switch to the OFF position for 90 seconds, and then turn back to the ON position. This will send the unit back into the motion activated setting "Auto". <p>* If the light stays on with the sensor lens covered, contact customer service.</p> <p>Unit is in the "Auto" mode.</p> <ul style="list-style-type: none"> • Make sure the unit is set between 1m-12m ("Auto" mode).
Light continuously blinks on and off at night.	<p>The light given from the unit's own lamp is affecting the motion sensor.</p> <ul style="list-style-type: none"> • Re-aim the lamp. • Reposition motion sensor. <p>Make sure knob is not positioned between TEST and 1m.</p> <ul style="list-style-type: none"> • Reposition knob closer to selected function, either TEST, or 1m.
Light is on during the day.	<p>The controls on the bottom of the motion sensor are in the test mode.</p> <ul style="list-style-type: none"> • Reposition MODE knob off of TEST to a time selection (1m-12m). <p>The motion detector is shadowed.</p> <ul style="list-style-type: none"> • Reposition motion sensor.
Red LED Indicator Light Comes ON And OFF During Daylight Hours	<p>During daylight hours, the red LED indicator will flash when motion is detected. This is normal.</p>

3-YEAR LIMITED WARRANTY

THE FOLLOWING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Cooper Lighting, LLC ("Cooper Lighting") warrants to customers that, for a period of three years from the date of purchase, Cooper Lighting's products will be free from defects in materials and workmanship. The obligation of Cooper Lighting under this warranty is expressly limited to the provision of replacement products. This warranty is extended only to the original purchaser of the product. A purchaser's receipt or other proof of date of original purchase acceptable to Cooper Lighting. This is required before warranty performance shall be rendered.

This warranty does not apply to Cooper Lighting products that have been altered or repaired or that have been subjected to neglect, abuse, misuse or accident (including shipping damages). This warranty does not apply to products not manufactured by Cooper Lighting which have been supplied, installed, and/or used in conjunction with Cooper Lighting products. Damage to the product caused by replacement bulbs or corrosion or discoloration of brass components are not covered by this warranty.

LIMITATION OF LIABILITY:

IN NO EVENT SHALL COOPER LIGHTING BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, STRICT LIABILITY, OR IN TORT INCLUDING NEGLIGENCE), NOR FOR LOST PROFITS; NOR SHALL THE LIABILITY OF COOPER LIGHTING FOR ANY CLAIMS OR DAMAGE ARISING OUT OF OR CONNECTED WITH THESE TERMS OR THE MANUFACTURE, SALE, DELIVERY, USE, MAINTENANCE, REPAIR OR MODIFICATION OF COOPER LIGHTING PRODUCTS, OR SUPPLY OF ANY REPLACEMENT PARTS THEREFORE, EXCEED THE PURCHASE PRICE OF COOPER LIGHTING PRODUCTS GIVING RISE TO A CLAIM. NO LABOR CHARGES WILL BE ACCEPTED TO REMOVE OR INSTALL FIXTURES.

To obtain warranty service, please contact Cooper Lighting, LLC, at 1-800-334-6871, press option 2 for Customer Service, or via e-mail ConsumerProducts@cooperlighting.com and include the following information:

- Name, address and telephone number
- Date and place of purchase
- Catalog and quantity purchase
- Detailed description of problem

All returned products must be accompanied by a Return Goods Authorization Number issued by the Company and must be returned freight prepaid. Any product received without a Return Goods Authorization Number from the Company will be refused.

Cooper Lighting, LLC is not responsible for merchandise damaged in transit. Repaired or replaced products shall be subject to the terms of this warranty and are inspected when packed. Evident or concealed damage that is made in transit should be reported at once to the carrier making the delivery and a claim filed with them.

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