

# PHILIPS

## C4 LED Recessed Emergency Unit

**120 or 277VAC Input**

Service Questions Call: 910-259-1000



### INSTALLATION AND OPERATING INSTRUCTIONS

## IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

All servicing should be performed by qualified personnel only.

Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.

The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

Do not use this equipment for other than intended use.

Do not use outdoors.

Caution: Halogen cycle lamp(s) are used in this equipment. To avoid shattering: Do not operate lamp in excess of rated voltage, protect lamp against abrasion and scratches and against liquids when lamp is operating, dispose of lamp with care.

Halogen cycle lamps operate at high temperatures. Do not store or place flammable materials near lamp.

Do not let supply cords touch hot surfaces.

Do not mount near gas or electric heaters.

Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush acid with fresh water and contact a physician immediately.

CAUTION: To avoid electrical overload, total connected lamp load (factory and field installed) should not exceed output rating.

## SAVE THESE INSTRUCTIONS

**WARNING** – Shut off AC power to branch circuits to which units will be connected. All wiring should be per N.E.C. Articles 501-4(b) and local codes.

To maintain warranty, equipment with batteries must be installed or placed on charge within prescribed period after shipment.

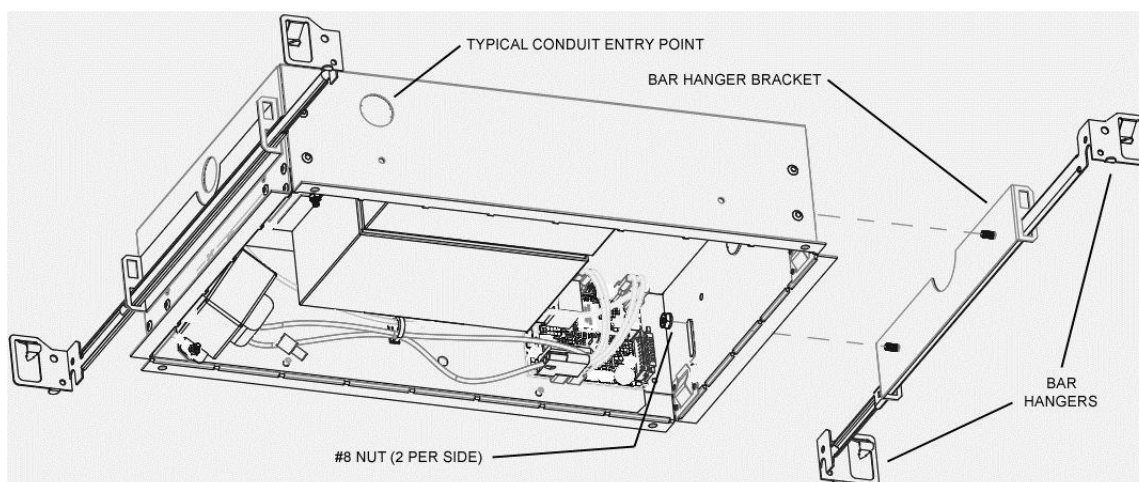
# PHILIPS

Philips Lighting North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873, USA  
Phone: 855-486-2216  
[www.philips.com/luminaires](http://www.philips.com/luminaires)

Philips Lighting Canada Ltd.  
281 Hillmount Road,  
Markham ON, Canada L6C 2S3  
Phone: 800-668-9008  
[www.philips.com/luminaires](http://www.philips.com/luminaires)

9140053536 February 2016

## GENERAL INSTRUCTIONS



### Step 1 - (Bar Hanger Installation Shown)

Stud & Sheetrock Installation (14-1/4" x 9-1/8" cutout required) Note: This product is U.L. approved for use in IC rated ceiling constructions.

Remove one knockout in sheetmetal housing for AC service entry conduit. Unit is attached to studs through holes provided in sides of enclosure. **ATTENTION:** Unit must be framed in properly on at least two sides in order to ensure adequate support. Break away tabs are provided on the edges of the larger sheetmetal box and are recommended to be removed for rough-in installations. These tabs may be removed by bending them until they snap off using large pliers or klines. Beware of any sharp edges remaining after removal. A "Sheetrock Thickness Gauge" is printed on the sides of the housing to help set the box at the correct depth. Line up the edge of the line corresponding to the finished sheetrock thickness with the outer surface of the stud before securing the backbox to the stud. After sheetrock installation, the leading edge of the backbox should be flush with the outer sheetrock surface (room or finished surface).

Bar Hanger Installation (14-1/4" x 9-1/8" cutout required) Note: This product is U.L. approved for use in IC rated ceiling constructions.

Remove one knockout in sheetmetal housing for AC service entry conduit. Two grid ceiling adapters are provided – one for each side of the main housing. They are attached to the main housing by removing the four oblong knockouts in the short sides of the main housing and using the four #8 nuts provided. Place bar hangers through the lowest set of holes in the adapters and attach to ceiling grid. Adjust the vertical alignment so that the backbox flanges are flush with the bottom (room side) of the ceiling tile.

### Step 2 -

Refer to "AC Hookup" table below for AC supply wiring guide.

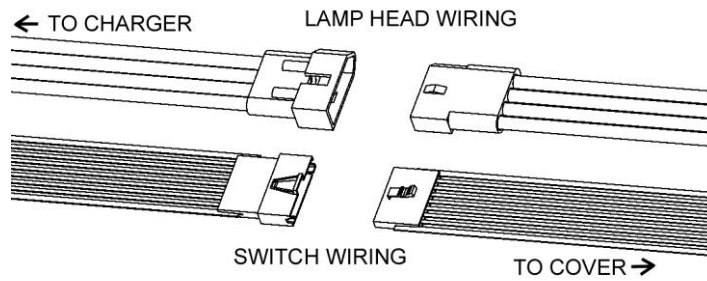
AC Hookup	
120VAC Operation	277VAC Operation
White Wire – Common	White Wire – Common
Black Wire – 120VAC Line	Black Wire – Cap Off
Blue Wire – Cap Off	Blue Wire – 277VAC Line
Green Wire - Ground	Green Wire - Ground
<b>CAUTION:</b> Unused primary wire must be insulated to prevent shorting.	

# PHILIPS

Philips Lighting North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873, USA  
Phone: 855-486-2216  
[www.philips.com/luminaires](http://www.philips.com/luminaires)

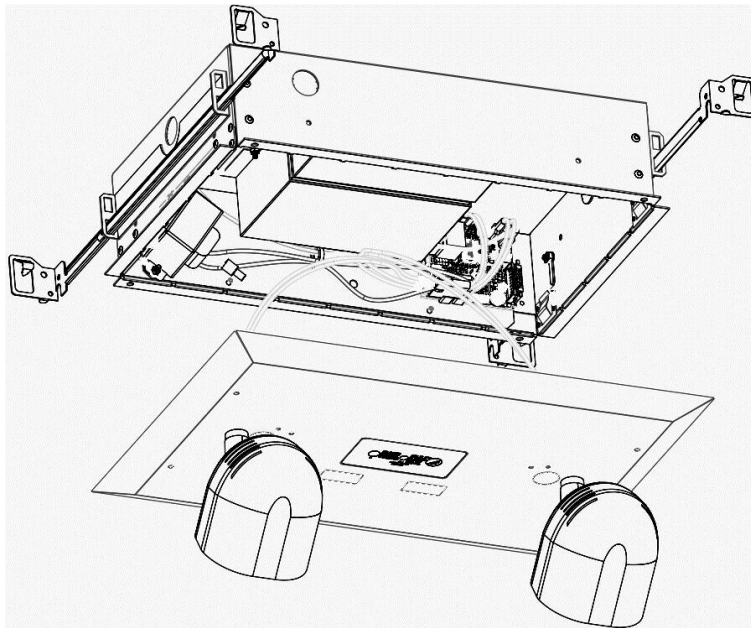
Philips Lighting Canada Ltd.  
281 Hillmount Road,  
Markham ON, Canada L6C 2S3  
Phone: 800-668-9008  
[www.philips.com/luminaires](http://www.philips.com/luminaires)

9140053536 February 2016



### Step 3 -

Connect lamp head and switch/indicator light wiring from cover to charger as shown above. There is one four circuit connector for the lamp heads and one plastic film type membrane switch connector for the switch and indicator light assembly.



### Step 4 -

Snap cover assembly onto housing. Ensure that all four corners are engaged and that cover is flush to mounting surface.

### Step 5 -

Apply AC power and press test switch to check for proper illumination of lamp heads. Refer to last page of these instructions for details on operation of self-diagnostics system.

### Note:

- A. This equipment is provided with a lockout feature whereby connecting battery leads prior to energizing AC power will not turn on the emergency lamps. After AC power is energized the emergency lamps will turn on upon AC power failure.
- B. This equipment is provided with a low battery disconnect feature which prevents full discharge of batteries. If the building is to be unoccupied for an extended period and AC power is shut off, the batteries should be disconnected from the charger to prevent damage.
- C. The batteries provided in this equipment are sealed and require no maintenance.

**PHILIPS**

Philips Lighting North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873, USA  
Phone: 855-486-2216  
[www.philips.com/luminaires](http://www.philips.com/luminaires)

Philips Lighting Canada Ltd.  
281 Hillmount Road,  
Markham ON, Canada L6C 2S3  
Phone: 800-668-9008  
[www.philips.com/luminaires](http://www.philips.com/luminaires)

9140053536 February 2016

## Self Diagnostic System Operation – Emergency Light or EXIT Sign Products

### Normal Power Up Sequence

At power up the red and green LED indicators will alternately flash for one to two seconds. Next the product will execute a “Power Up Quick Test” causing the green LED indicator to flash rapidly. If any faults are detected during the “Power Up Quick Test” these will be evident by a flashing red LED indicator. If the audible diagnostic option has been ordered, the flashing red LED will be accompanied by a simultaneous beeping tone. **(Note: A continuous rapid alternating Red/Green flash with rapid beeping tone indicates 277V applied to 120V input lead. TURN OFF POWER IMMEDIATELY!)**

### Emergency Operation

Emergency operation occurs when AC power fails. The product remains in emergency operation until AC power is restored or battery capacity is depleted. During emergency operation both red and green LED indicators are disabled.

### User Interface

#### **Green LED indicator**

- Slow Flash/Continuous ON = AC power present; normal operating condition
- Rapid Flash = product performing an automatic or manually initiated diagnostic test

#### **Red LED indicator**

- Single Flash = battery fault
- Two Flashes = lamp failure (light bar failure – EXIT signs)
- Three Flashes = charger fault
- Four Flashes = transfer fault

(If more than one fault condition is present simultaneously, the red LED will flash the indication pattern for each fault independently then repeat the cycle.)

#### **Pushbutton Test Switch**






- Long Press (longer than 0.5sec) transfers product to emergency operation during time the button is pressed.
- Short Press initiates self diagnostic activities as follows:
  - One Press cancels diagnostic test presently running.
  - Two Presses starts a one minute diagnostic test.
  - Three Presses starts a 90 minute diagnostic test.
  - Four Presses conducts a lamp load calibration (emergency light products only).
  - Seven Presses initiates a system reset.

(Note: the microprocessor will allow up to seven, one minute diagnostic tests within the first 24 hours of operation. Allow 24 hours of charging before performing any long duration testing.)

**Buzzer** (optional)– Sounds in unison with the flashing red LED if a fault condition is present. Buzzer may be silenced for up to 196 hours by a short press of either the test switch or the optional IR remote control device “silence” button. Correcting fault condition will cancel fault notification. Lamp failure indication requires a manually activated diagnostic test after lamp replacement to cancel notification.

**IR Remote Control** (optional)- is a hand held device that allows remote activation of diagnostic testing and silencing of the optional buzzer during fault conditions.



 <p><b>SILENCE ALARM</b></p>  <p><b>1 MINUTE TEST</b></p>  <p><b>30 MINUTE TEST</b></p>  <p><b>90 MINUTE TEST</b></p>  <p><b>CANCEL</b></p>	<p><b>OPTIONAL REMOTE CONTROL</b></p> <p>Front</p> <p>Press appropriate button to perform the indicated test or silence the audible alarm.</p> <p>Cancel stops any test currently in process.</p>
<div data-bbox="261 947 638 1373"> <p>System Reset: Two presses of "SILENCE ALARM" button followed by two presses of "CANCEL" button.</p> <p><u>Interpretation of flashing indicator lights on Equipment:</u></p> <p>Green LED Indicator:</p> <ul style="list-style-type: none"> <li>• Steady On - Normal</li> <li>• Slow Flash - Battery Charging</li> <li>• Fast Flash - Unit is self-testing</li> </ul> <p>Red LED Indicator:</p> <ul style="list-style-type: none"> <li>• Single Flash - Battery Fault</li> <li>• Double Flash - Lamp Failure</li> <li>• Triple Flash - Charger Fault</li> <li>• Quad Flash - Emergency Transfer Failure</li> </ul> <p>Red and Green LED Indicators flashing together:</p> <ul style="list-style-type: none"> <li>• Slow Flashing - Low Line Voltage</li> <li>• Fast Flashing - High Line Voltage</li> </ul> <p>Unit Equipment Lamp Calibration</p> <p>Press "Silence Alarm" twice followed by one press of "Cancel" and one press of "Silence Alarm"</p> <p>For Service Call (910)259-1000</p> </div>	<p>Back</p> <p>Explanation of indicator light flash sequences.</p> <p>Refer to Table 2 above for further information.</p>