

Evolve™ LED Area Light

Scalable Fixtures (EAS)



BEFORE YOU BEGIN

Read these instructions completely and carefully. Save these instructions for future use.

WARNING

Risk of electrical shock. Disconnect power before servicing or installing product.

WARNING

Risk of injury or damage. Unit will fall if not installed properly. Follow installation instructions.

CAUTION

Risk of injury. Wear safety glasses and gloves during installation and servicing.

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. This Class [A] RFLD complies with the Canadian standard ICES-003. Ce DEFR de la classe [A] est conforme à la NMB-003 du Canada.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense



- This luminaire is designed for outdoor lighting service, and should not be used in areas of limited ventilation, or in high ambient temperatures.
- Best results will be obtained if installed and maintained according to the product's installation instructions. Refer to installation instructions if reinstalling after repair.
- Refer to product installation instructions and product datasheet for specifications and installation details.



SAFETY:

Lighting maintenance and troubleshooting presents the possibility of exposure to high voltages and should only be conducted by trained personnel. When performing any installation, inspection, or maintenance, make sure power to fixture or equipment is turned off. If power is required for testing, exercise caution to prevent risk of electric shock.

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NOTICE:

GE disclaims any liability of injury or property damage resulting from the use of this troubleshooting guide.

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General:

The EASA/EASB/EASC luminaires are fairly simple in construction and wiring. Major components are the main housing, light engine (LED Board), and power door. The power door is designed to be field replaceable. Any light engine is considered to not be failed until 10% or more of LEDs do not operate. Typical troubleshooting details follow. EASx products may have one or two light engine assemblies in the optical cavity and one or two drivers on the power door assembly.

Section 1: Light Engine(s) Out

1. Visually check operation of unit
2. If either the front or rear (asymmetric distributions) or right or left (symmetric distributions) light engine is not functioning do the following.
 - A. Disconnect and isolate fixture from power source (lock out incoming power to the pole).
 - B. Open power door by loosening the captive screws.



*This is a typical representation of a right-left light engine orientation. Orientation, LED count and optical components will vary according to light distribution.

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Section 1: Light Engine(s) Out (continued)

Power Door

Captive
Screws



Captive
Screws

EASC Assembly

LED Drivers

LED Driver
input leads
Cables

Name plate

Terminal Board



Wiring
Diagram

Light Engine
Cables

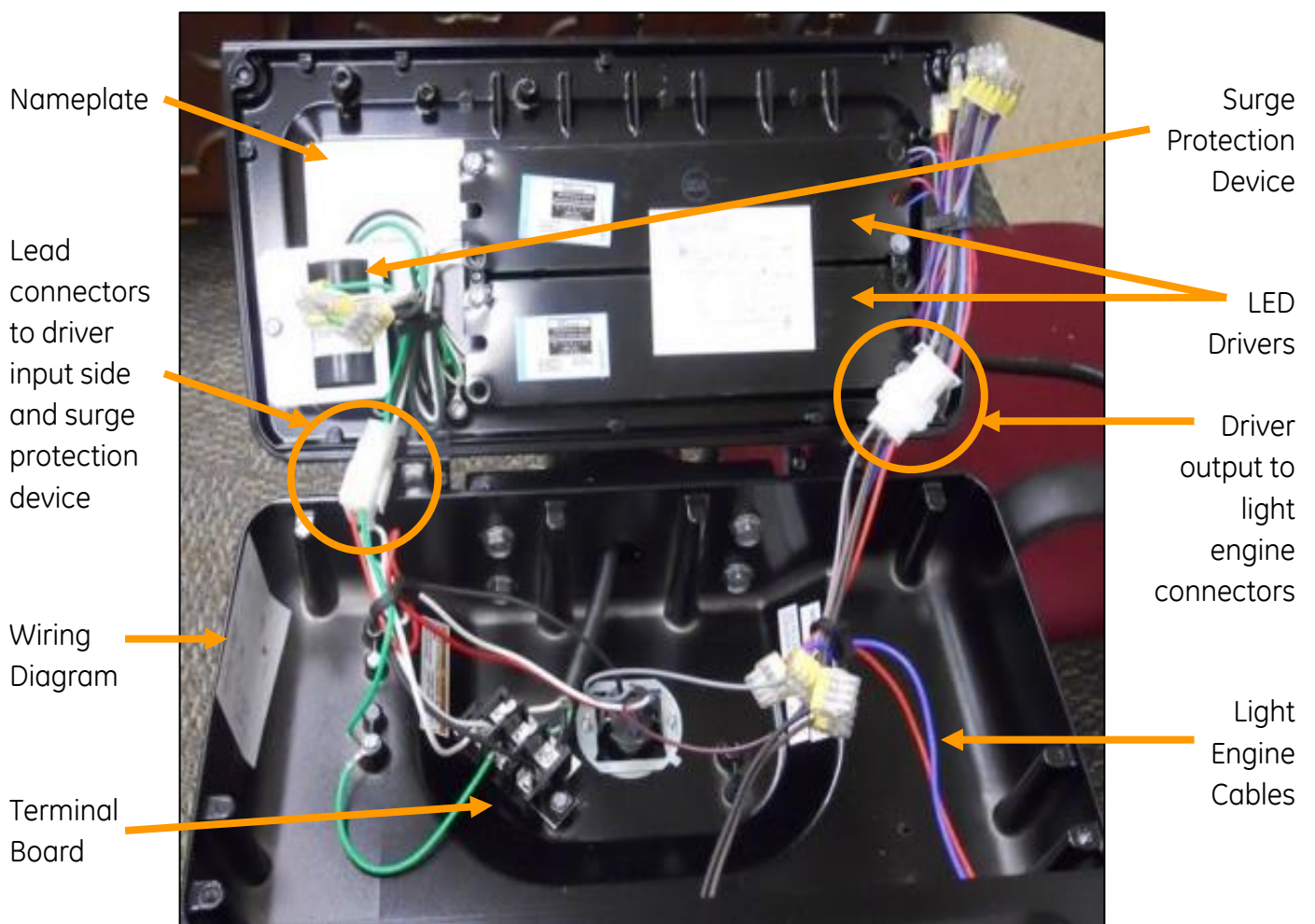
Power door in open position with major components identified.

Section 1: Light Engine(s) Out (continued)

Once power and wiring doors are open check electrical connections in this order.

- A. Make sure all incoming power leads are attached to the terminal board
- B. Make sure leads from terminal board primary disconnect are seated

EASA/EASB Assembly



Power door in open position with major components identified.

*Actual shape and color of connectors may vary.

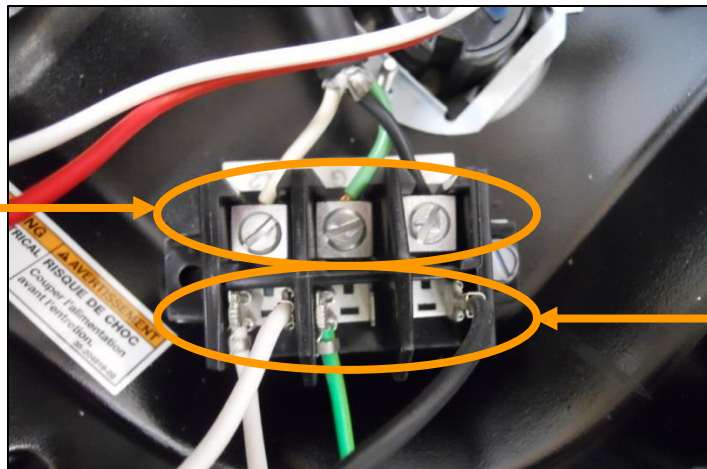
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Section 1: Light Engine(s) Out (continued)

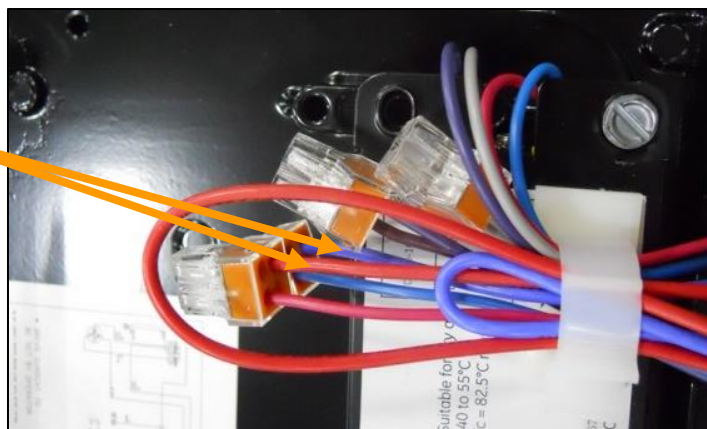
Incoming leads to fixture



Outgoing leads to fixture

EASC Assembly View

Pull back gently on leads. They should not disengage



Pull back gently on leads. They should not disengage



Primary disconnect

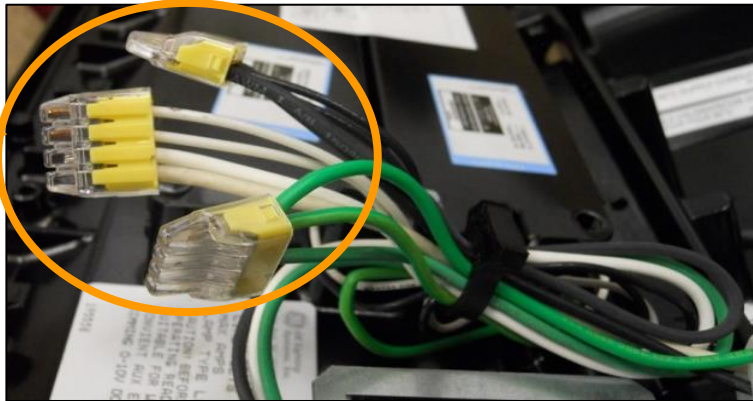
*Actual shape and color of connectors may vary.

Section 1: Light Engine(s) Out (continued)

C. Check leads from primary disconnect to drivers and surge protection device to ensure seated.

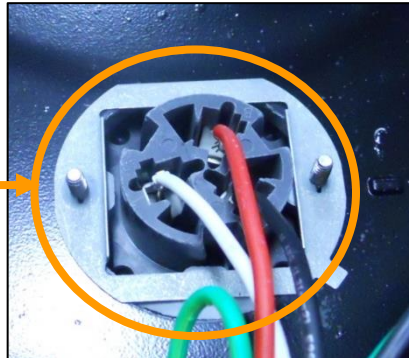
EASA/EASB Assembly View

Pull back gently
on leads.
They should
not disengage



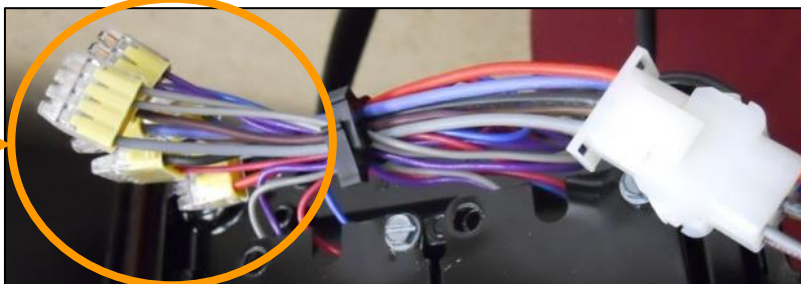
D. Check photo cell receptacle leads to ensure seated.

Pull back gently on leads.
They should not disengage.
Terminals have tab that
must be seated in groove
inside of receptacle.



E. Check quick connectors from drivers to light engine cables for loose leads.

Pull back
gently on
leads. They
should not
disengage.
Leads are held
in place by
locks.



*Actual shape and color of connectors may vary.

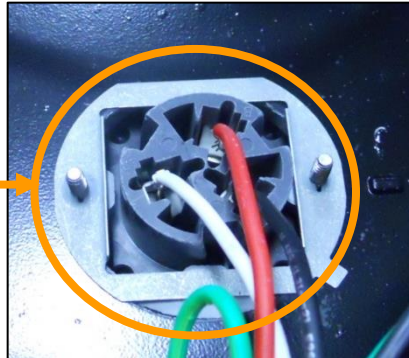
If all the connections check out and there is still a light engine out, there has been a driver failure.
In this case the power door must be replaced.

Section 2: Day-Burning

When the Fixture will not shut off at daybreak when using a photocell controller, this is called a day burner.

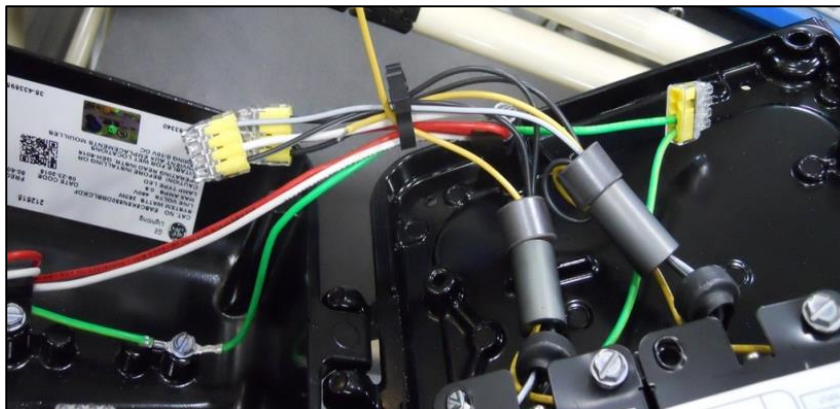
1. Replace photocell controller with a new or known good Photocell.
 - A. Unit will power off when Photocell is removed.
 - B. Install and Test Function of new photocell by covering the window with Electrical tape or a glove.
 - C. If Photocell was defective the fixture should come on now and shut off when the covering is removed.
2. If Replacing the Photocell does not resolve the issue, check the wiring in the fixture from the Photocell Receptacle

Pull back gently on leads.
They should not disengage.
Terminals have tab that
must be seated in groove
inside of receptacle.



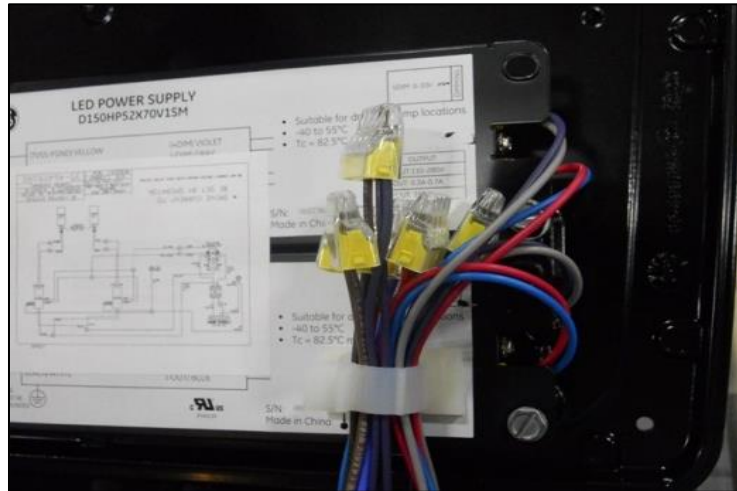
Section 3: Power Door Replacement (EASC)

- Disconnect and isolate incoming power to the fixture.
- Cut and strip input leads to LED Driver at the connectors



Section 3: Power Door Replacement (EASC) (continued)

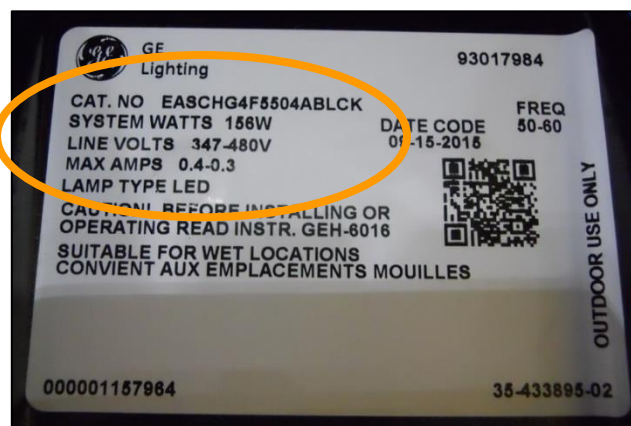
- Cut and strip input leads to Light Engine disconnect at the connectors.



- Allow door to swing back and pivot and lift off of hinges

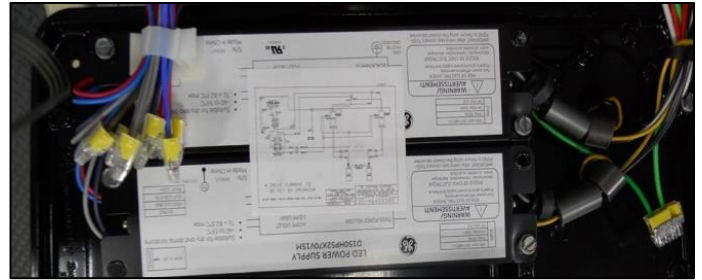


- To install new power door first verify that new power door is of the correct incoming voltage and fixture wattage. Verify by checking name plate on right hand side of door against the door just removed.

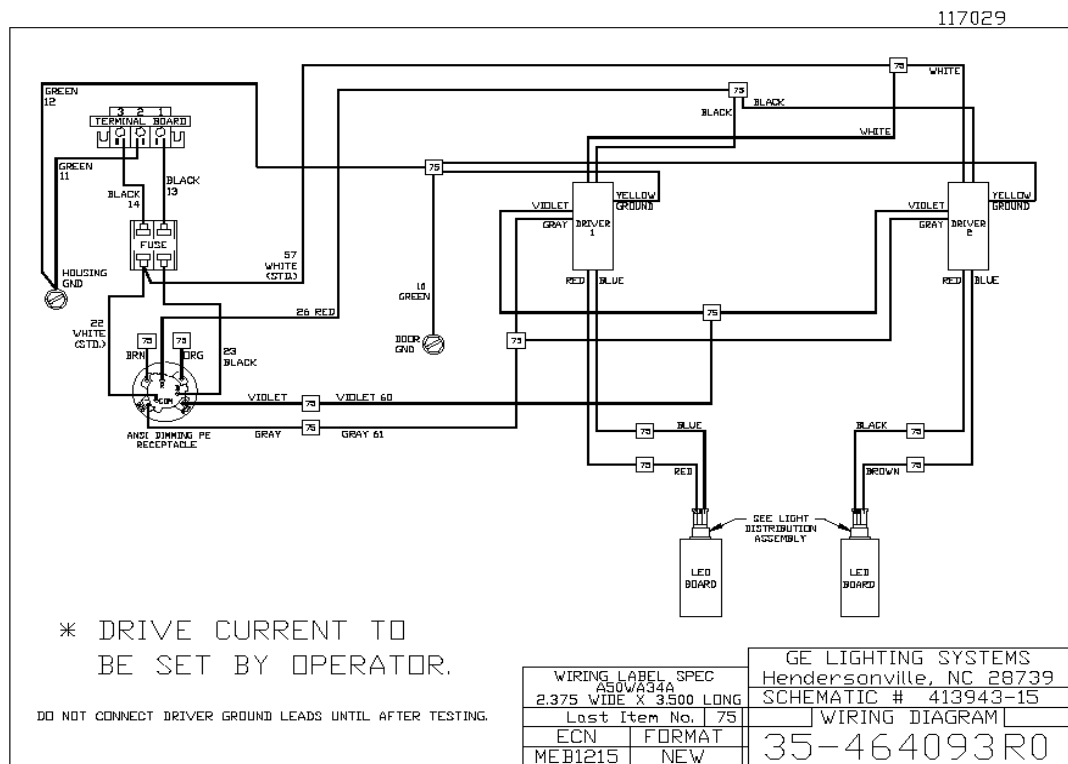


Section 3: Power Door Replacement (EASC) (continued)

- Re-attach door in reverse order of removal.
- Match up colors of leads from new door with fixture leads and assemble with provided quick connectors.

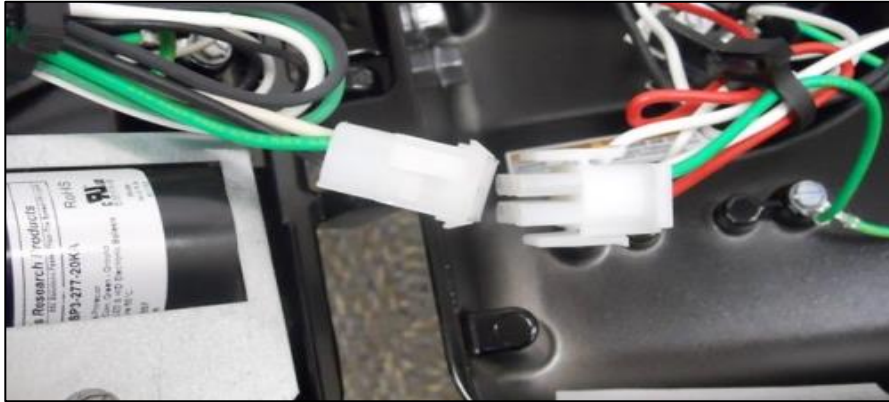


- Verify that all leads are in the correct place after rewiring. Check against wiring sticker located on top of drivers.



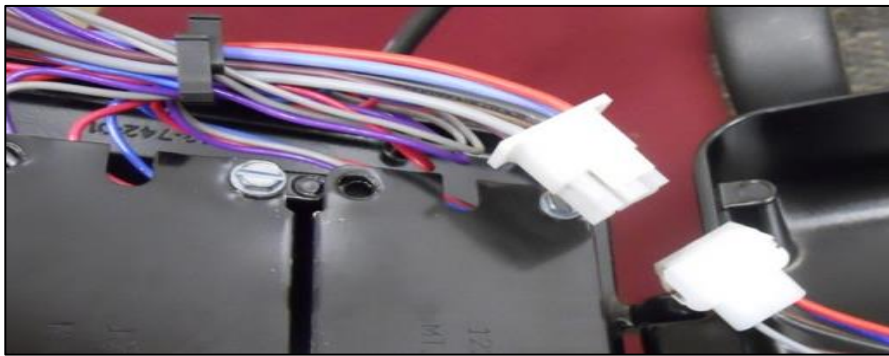
Section 4: Power Door Replacement (EASA/EASB)

- Disconnect and isolate incoming power to the fixture.
- Separate both halves of the Primary disconnect.



*Actual shape and color of connectors may vary.

- Separate both halves of the Light Engine disconnect.



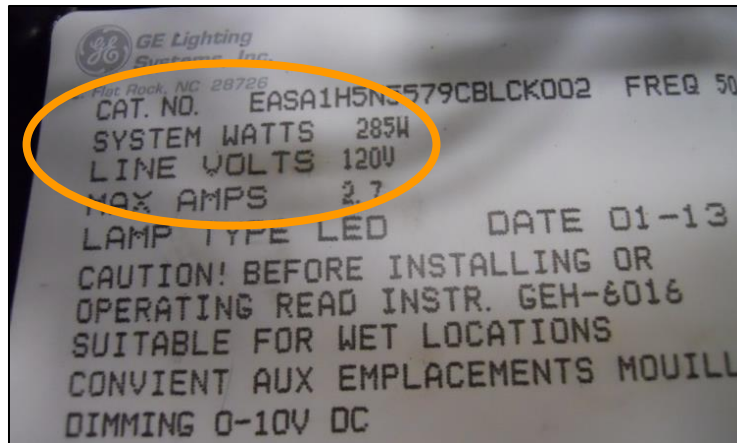
*Actual shape and color of connectors may vary.

- Allow door to swing back and pivot, then lift off of hinges.

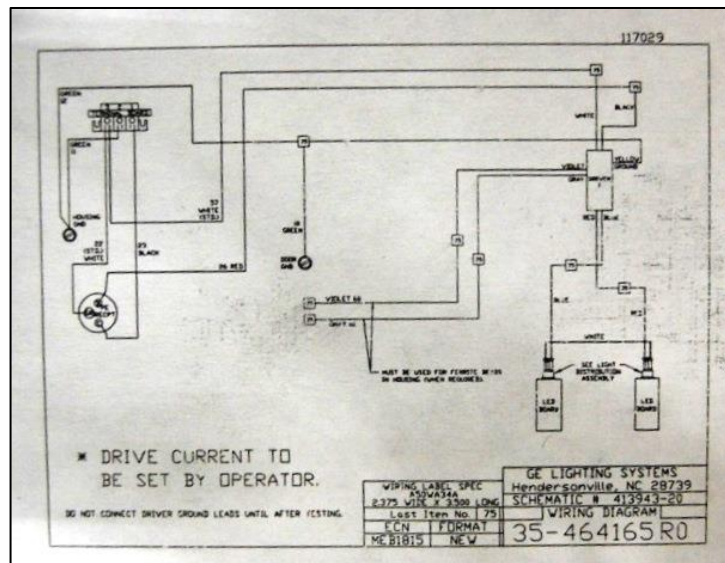


Section 4: Power Door Replacement (EASA/EASB) (continued)

- To install new power door first verify that new power door is of the correct incoming voltage and fixture wattage. Verify by checking name plate on right hand side of door.



- Reattach door in reverse order of removal.
- Verify that all leads are in the correct place after rewiring. Check against wiring sticker located on top of drivers.



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