GE
Lighting Solutions

Installation Guide

IMMERSION™

LED Display Lighting

Refrigerated Vertical Cases
RV40 Series

79813 LED Drivers
GEPS4000NCMUL-SY

BEFORE YOU BEGIN

Read these instructions completely and carefully.

⚠ WARNING / AVERTISSMENT
Risk of electrical shock. Disconnect power before servicing or installing product. / **Risque de choc électrique.** Couper l'alimentation avant le dépannage ou avant l'installation du produit.

⚠ CAUTION / ATTENTION
Risk of injury. While performing installations described, gloves, safety glasses or goggles should be worn. / **Risque de blessure.** Lors de l'exécution des installations décrites, des gants, des lunettes de sécurité ou des lunettes de protection doivent être portées.

PREPARE ELECTRICAL WIRING

Electrical Requirements

- The power supply must be supplied with 100-240 VAC, 50/60 Hz., and connected to an individual properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse.
- Wiring must be 2 wire with ground and rated for 75°C (176°F).

Grounding Instructions–Cable Direct

- This lighting system must be connected to a grounded metal, permanent wiring system, or an equipment grounding conductor must be run with the circuit conductors and be connected to the equipment grounding terminal.

A. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
B. Before servicing or cleaning unit, switch power off at the service panel and follow appropriate lock out / tag out safety procedures.

FOR YOUR SAFETY

Read and observe all CAUTIONS and WARNINGS shown throughout these instructions.

- Installation to be performed by factory trained service personnel only.
- For use inside a commercial refrigeration case with packaged foods only.

Conforms to the following standards:

NOTE: 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-005. Ce DEFR de la classe [A] est conforme à la NMB-005 du Canada

imagination at work

1 Connect LED Driver - Output

- Make output (DC) connections using one of the two options below:
- Place LED Driver in the mullion or raceway for ease of wire connection.

OPTION 1 – USING 4-WAY CONNECTOR

Connect the LED Driver output leads to the LED Light leads using the appropriate mating connector (Molex P/N 39-01-4046). Terminals installed should be crimped using approved tooling and process per Molex specifications. Ensure that the connector cavities are correctly populated per the schematics on page 3. **(A)**

OPTION 2 – USING TWIST-ON WIRE CONNECTORS

Remove the 4-way connector from the LED Driver by cutting the wires near the connector and strip the output leads. Using the appropriate schematics below, connect the LED Driver output leads to the LED Light leads using wire connectors or other connection method approved for low temperature usage and stranded cable. **(A)**

2 Connect LED Driver - Input

- Make input (AC) connections using one of the two options below:

OPTION 1 - USING 3-WAY CONNECTOR

Connect the original Line and neutral wires (or Line 1 and Line 2 wires for 240 nominal VAC) to the 3-way connector for the LED Driver input wires using the appropriate mating connector (Molex P/N 39-01-4030). Ensure that the connector cavities are correctly populated per the schematics on the LED Driver. **(B)**

OPTION 2 – USING TWIST-ON WIRE CONNECTOR

Remove the 3-way connector from the LED Driver by cutting the wires near the connector and strip the input wires. Using the appropriate schematics on page 3, connect the original Line and neutral wires (or Line 1 and Line 2 wires for 240 nominal VAC) to the LED Driver leads using wire connectors or other connection method approved for low temperature usage and stranded cable. **(B)**

- The LED Driver is required to be reliably bonded to the protective ground conductor. Attach the supplied green/yellow ground wire from the LED Driver to a grounded metal portion of the door frame. **(C)**

3 Connect Dimming Contacts – Output

- To enable dimming operation, connect leads from occupancy sensor or control system (normally open contact) to the purple and gray leads of the power supply.
- Make output (contact closure) connections using one of the two options below:

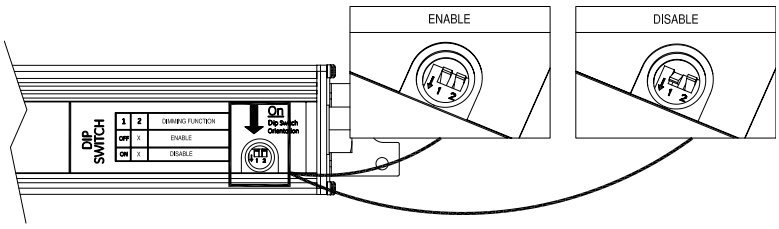
OPTION 1 – USING 4-WAY CONNECTOR

Connect the LED Driver dimming output leads to the occupancy sensor or control system using the appropriate mating connector (Molex P/N 39-01-4046). Terminals installed should be crimped using approved tooling and process per Molex specifications. Ensure that the connector cavities are correctly populated per the schematics on page 3. **(D)**

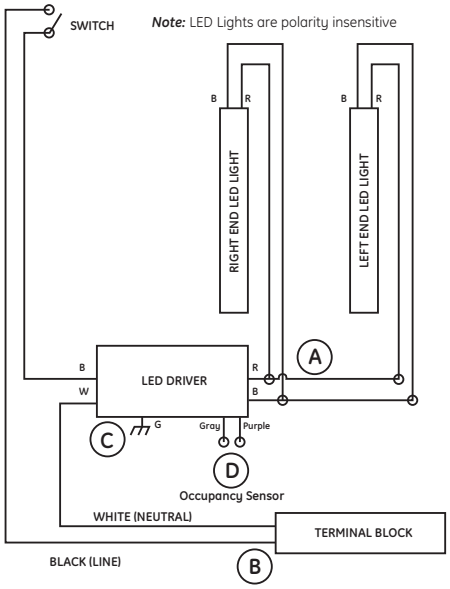
OPTION 2 – USING TWIST-ON WIRE CONNECTORS

Remove the 4-way connector from the LED Driver by cutting the wires near the connector and strip the output leads. Using the appropriate schematics on page 3, connect the LED Driver dimming output leads to the occupancy sensor or control system using wire connectors or other connection method approved for low temperature usage and stranded cable. **(D)**

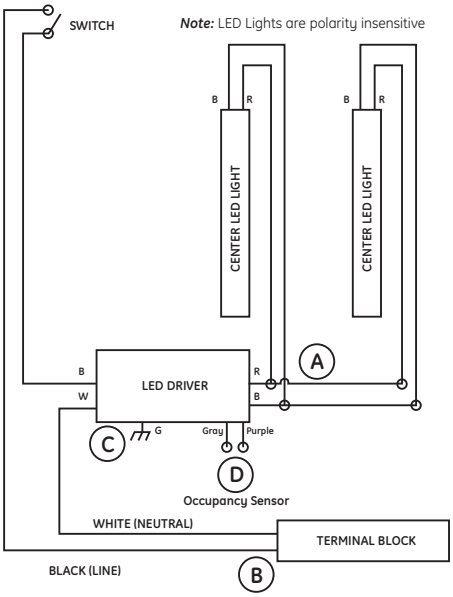
- The GEPS4000NCMUL-SY LED Driver is capable of step dimming from 100% power to 20% power when used with a normally open contact closure occupancy sensor system.
- **When using the GEPS4000NCMUL-SY for non-dimming applications,** the dip switch setting must be set to #1 ON to disable the dimming feature and achieve 100% illumination.



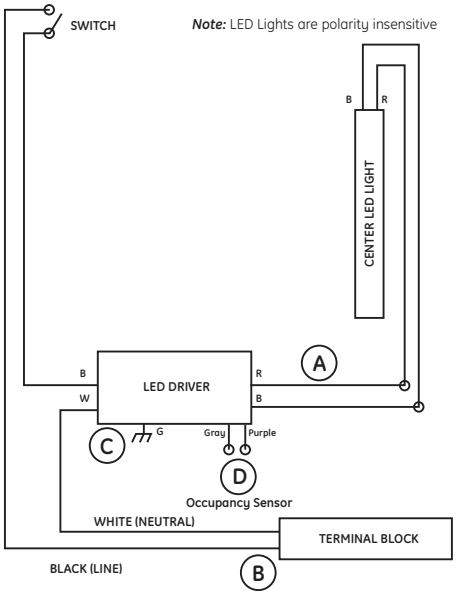
One End Set (R & L) LED Lights



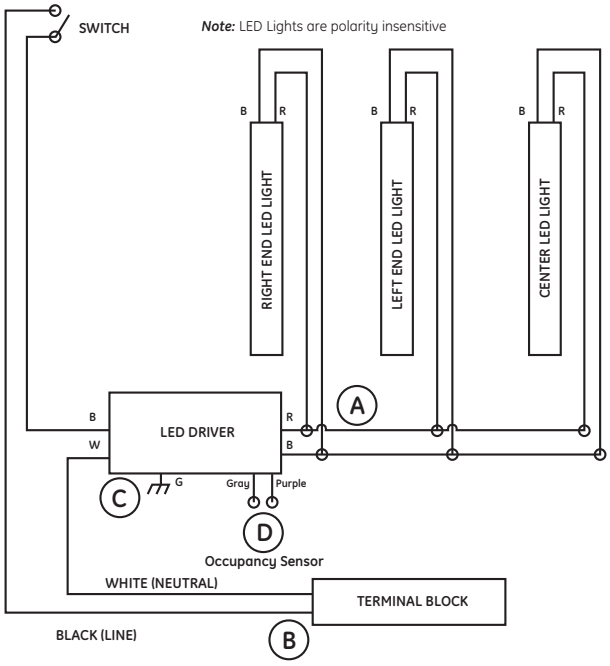
Two Center LED Lights



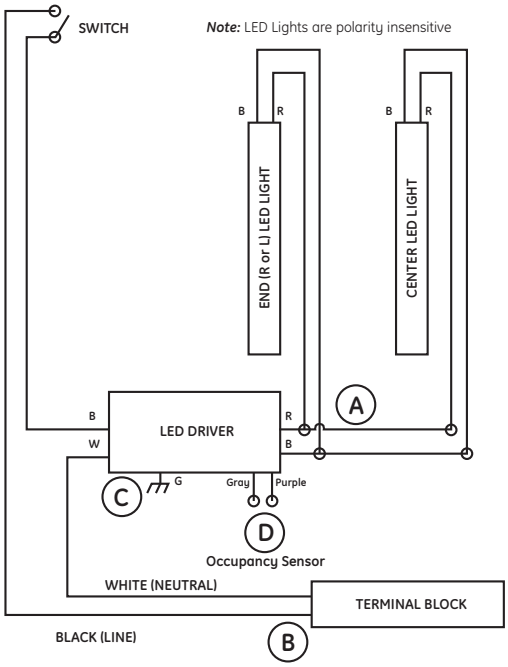
One Center LED Light



One End Set (Right and Left) & One Center LED Light



One End LED Light (Right or Left) & One Center LED Light



Wire Cavities
39-01-4030 (AC)
Cavity 1 - Line 1
Cavity 2 - Earth Ground
Cavity 3 - Neutral (or Line 2)
39-01-4046 (DC)
Cavity 1 - Output DC (+)
Cavity 2 - Output DC (-)
Cavity 3 - Dimming (Purple)
Cavity 4 - Dimming (Gray)

⚠ WARNING / AVERTISSMENT

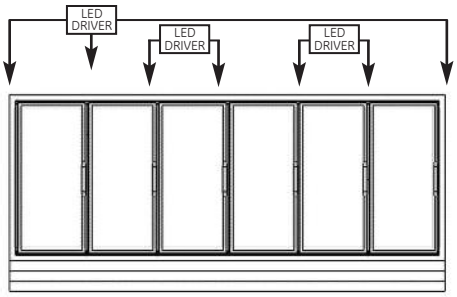
Risk of electrical shock. Ensure that all connection points are sealed for damp location using the appropriate method per the NEC or local electrical code.
Risque de choc électrique. S'assurer que les points de raccordements sont scellés pour emplacement humide en employant une méthode permise par le NEC ou par le code électrique local.

4 LED Driver Configuration Options

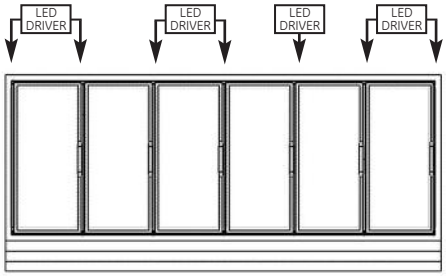
The diagrams below represent wiring configurations for each LED Driver. There are two options to choose from which may better optimize your installation to reduce materials or labor expenses.

6-Door Case

Option 1: Reduces materials

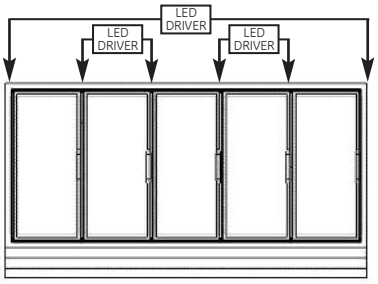


Option 2: Reduces labor

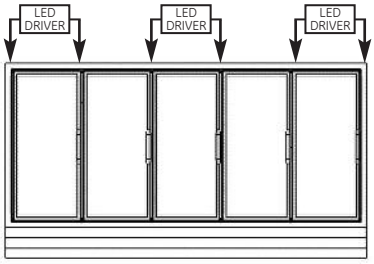


5-Door Case

Option 1: Reduces materials

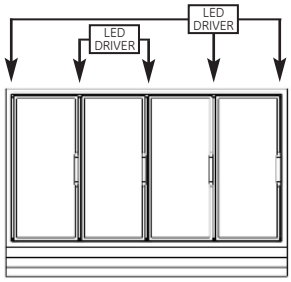


Option 2: Reduces labor

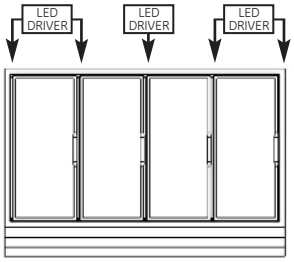


4-Door Case

Option 1: Reduces materials

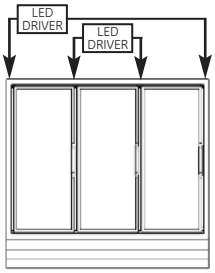


Option 2: Reduces labor

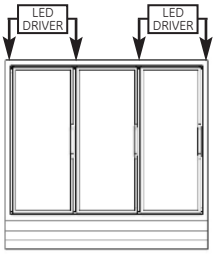


3-Door Case

Option 1: Reduces materials

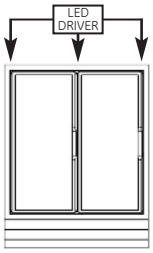


Option 2: Reduces labor



2-Door Case

Recommended option



5 Parts Needed Per Case

	6-Door	5-Door	4-Door	3-Door	2-Door
Center LED Lights	5	4	3	2	1
End LED Light Sets	1	1	1	1	1
LED Drivers (Option 1)	3	3	2	2	1
LED Drivers (Option 2)	4	3	3	2	1
Wire Covers	7	6	5	4	3

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