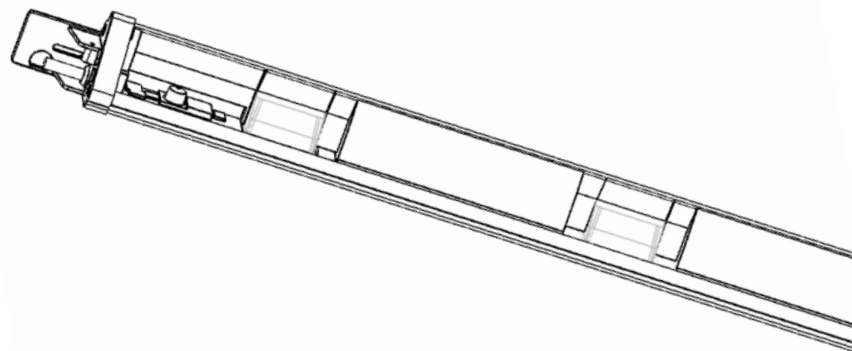# IMMERSION™
LED Display Lighting

Refrigerated Vertical Cases
RV40 Series

End Mullion Lights

60-inch: GELT406035EDL-SY/-SB (79755/79758), GELT406035EDR-SY/-SB (79754/79757), GELT406041EDL-SY/-SB (79749/79752), GELT406040EDR-SY/-SB (79748/79751), GELT406050EDL-SY/-SB (79743/79746) & GELT406050EDR-SY/-SB (79742/79745)

70-inch: GELT407035EDL-SY/-SB (79773/79776), GELT407040EDL-SY/-SB (79767/79770), GELT407050EDL-SY/-SB (79761/79764), GELT407035EDR-SY/-SB (79772/79775), GELT407040EDR-SY/-SB (79766/79769), GELT407050EDR-SY/-SV (79760/79763)

Description Code (Single Unit Product Number / 10-Pack Product Number)

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).

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.
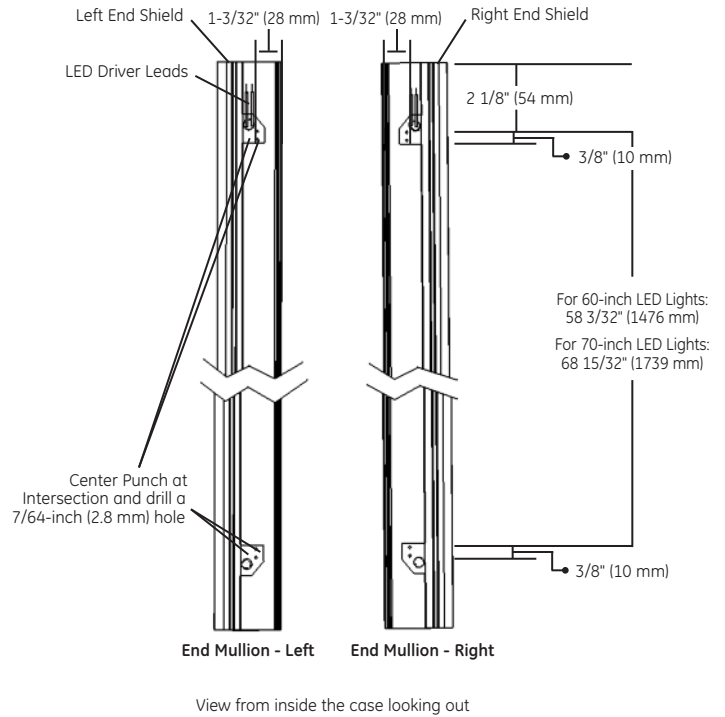
LED DRIVER COMPATIBILITY
This system is compatible with the **GEPS4000NCMUL-SY or GEPS4001NCMUL-SY LED Driver.** Please refer to the separate LED driver installation guide for appropriate wiring connections.

imagination at work

1ᴬ Prepare for Installation of End LED Lights

- Measure 1 3/32-inches (28 mm) from the edge of the mullion nearest the door, and mark a vertical line near the top and bottom of the frame mullion.

- Prepare for the upper end of the End LED Light. Mark a horizontal line a minimum 2 1/8-inches (54 mm) from the top of the door opening, and another horizontal line 3/8-inches (10 mm) below this line.

- Prepare for the lower end of the End LED Light. For 60-inch LED Lights, mark a horizontal line 58 3/32-inches (1476 mm) beneath the first line drawn for the top Mounting Tab. For 70-inch LED Lights, mark a horizontal line 68 15/32-inches (1739 mm) beneath the first line drawn for the top Mounting Tab. Then mark another line 3/8-inches (10 mm) below this line.

- Center the center punch directly at the intersection of the horizontal lines and the vertical line (top and bottom) and establish a dimple.

- Use power drill and 7/64-inch (2.8 mm) drill bit to drill holes at the intersection of the vertical center line and the horizontal lines.

- Repeat these steps for the mullion on the other end of the case.
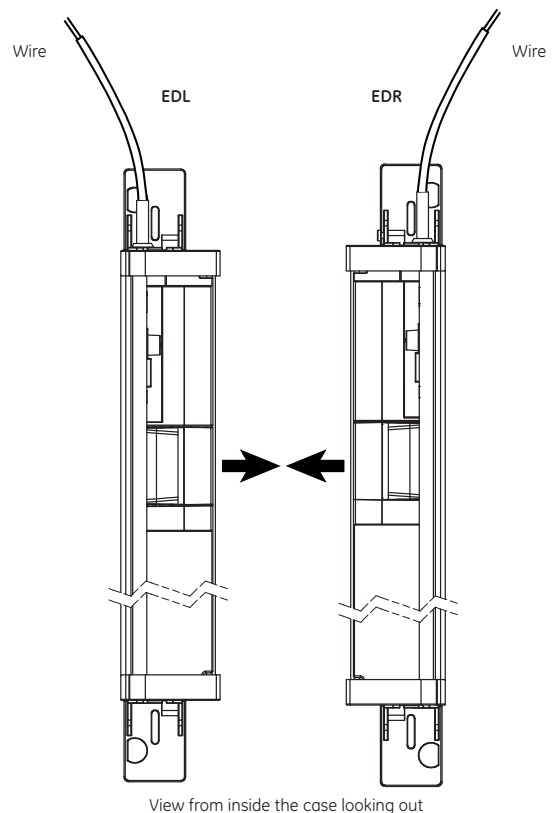
⚠ CAUTION / ATTENTION

Risk of damage to unit. Prior to drilling make sure that there are no existing components inside the mullion in the areas marked off for the designated holes. / **Risque d'endommager l'unité.** Avant de percer, faire en sorte qu'il n'y ait pas de composantes dans la cloison dans les zones délimitées et identifiées pour le perçage.

Left End Shield   1-3/32" (28 mm)   1-3/32" (28 mm)   Right End Shield

LED Driver Leads

2 1/8" (54 mm)

3/8" (10 mm)

For 60-inch LED Lights: 58 3/32" (1476 mm)

For 70-inch LED Lights: 68 15/32" (1739 mm)

Center Punch at Intersection and drill a 7/64-inch (2.8 mm) hole

3/8" (10 mm)

End Mullion - Left   **End Mullion - Right**

View from inside the case looking out

1ᴮ Identify End LED Light - Right from Left

- Verify LEDs are directed towards the center of the case before installing.

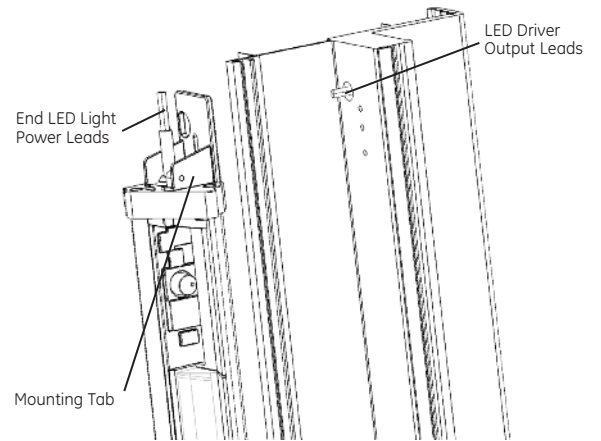*NOTE:* Installing the LED Light on the wrong side will result in very low light level inside the refrigerated case.

Wire   EDL   EDR   Wire

View from inside the case looking out

② Install End LED Lights

- Place proper End LED Light against the face of the mullion near the two holes drilled at the top.

  NOTE: Refer to proper End LED Light orientation depicted in Step 1B.

- Insert a #6-32 x 1/2-inch sheet metal screw into the slot of the Mounting Tab on the End LED Light, and into the first hole that was drilled in the end mullion.

- Use a screwdriver to start threading the screw into the drilled hole.

- Repeat for the second screw, and for the bottom of the End LED Light.

- Repeat these steps for the mullion on the other end of the case. Make sure the orientation is correct and proper LED Light is used.

LED Driver Output Leads

End LED Light Power Leads
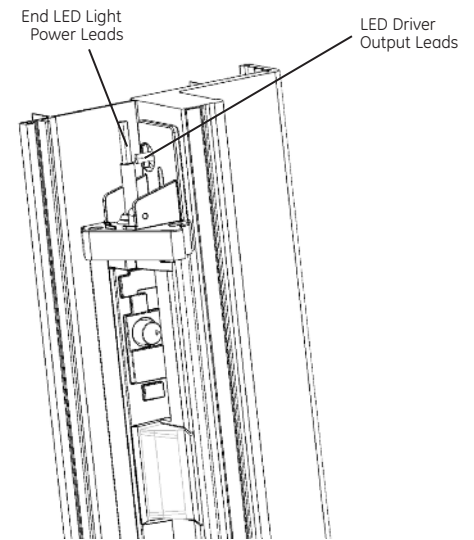
Mounting Tab

③ Electrical Connections

- Connect LED Lights to the **GEPS4000NCMUL-SY or GEPS4001NCMUL-SY LED Driver Dimming LED Driver.**

  NOTE: Please refer to the **GEPS4000NCMUL-SY or GEPS4001NCMUL-SY LED Driver Installation Guide** for the different LED Light Wiring Configurations.

- Connect the black wire from the End LED Light to an 18 AWG (0.823 mm²) LED Driver wire. Connect the remaining red wire from the End LED Light to the other 18 AWG (0.823 mm²) wire from the LED Driver. Use a tap type connector (Grainger part # 1A074 T-Tap Connector) or other approved connector for low temperature usage and 18 AWG (0.823 mm²) wire.

  NOTE: Black and red wires from LED Light are NOT polarity sensitive.

- Repeat these steps for the mullion on the other end of the case.
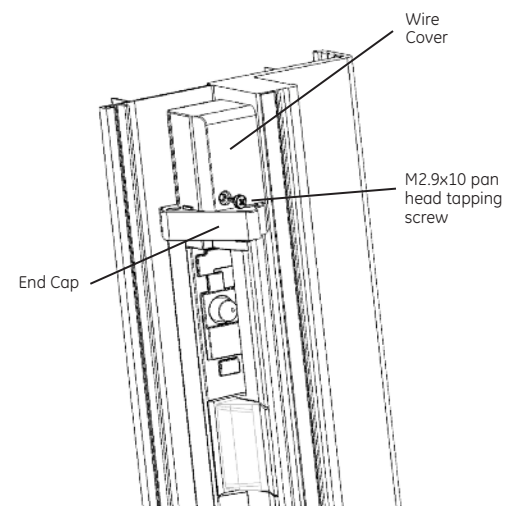
End LED Light Power Leads

LED Driver Output Leads

⚠ WARNING / AVERTISSMENT

Risk of fire, electrical shock or injury. Ensure that all connection points are sealed for damp location using the appropriate method per the NEC or local electrical code. / **Risque d'incendie, d'électrocution ou de blessure.** Veiller à ce que tout les branchements soient protégés ou scellés contre les emplacements humides en utilisant la méthode appropriée selon le NEC ou le code électrique local.

④ Attach Covers to End Cap

- Tuck wires underneath Wire Cover before placing it over the End Cap and Mounting Tab.

- Attach Wire Cover to LED Light End Cap by installing a M2.9x10 pan head tapping screw (provided) through the hole in the End Cap and Mounting Tab using an installation torque of 3 lbf-in.

  NOTE: Tighten slowly until fully seated, do not over tighten or strip the threads.

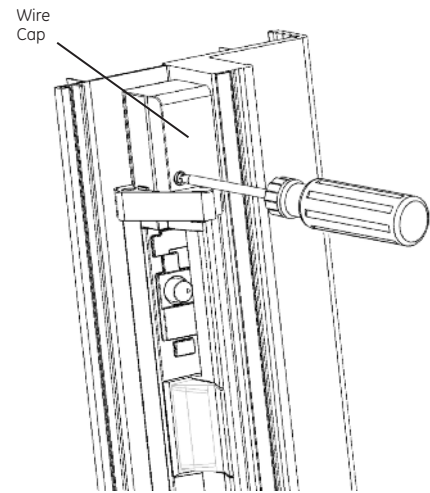- Repeat these steps for the mullion on the other end of the case.

Wire Cover

M2.9x10 pan head tapping screw

End Cap

⚠ CAUTION / ATTENTION

Risk of electrical shock. Plastic cover is needed to protect electrical wires from tampering and accidental contact. / **Risque de choc électrique.** Le couvercle en plastique est requis pour assurer une protection adéquate contre l'accès aux fils et les contacts accidentels.

(5) Removal Instructions

- Using a phillips screwdriver, remove screw and cover from wire end of LED Light and screw from opposite end of LED Light.

- Electrical connections can be removed to facilitate the removal of the LED Light.

- Remove the #6-32 x 1/2 inch sheet metal screws that hold the LED Light to the mullion. Make sure you support the End LED Light with your free hand.

- Repeat these steps for the mullion on the other end of the case.

Wire Cap

(6) LED Refrigerated Display Lights – Cleaning Instructions

- The outer lens and the plastic housing should be cleaned periodically with a mild liquid dish detergent.

- Do not use chemical cleaners to clean the lens.

- Keep the outside clean. Wipe with a clean cloth lightly dampened with mild liquid dish detergent. Dry with a clean, soft cloth.

- Do not wipe the lens with a soiled dish cloth or wet towel. These may leave a residue that can damage the finish.

- Do not use scouring pads, powdered cleaners, bleach or cleaners containing bleach because these products can scratch and damage the finish.

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