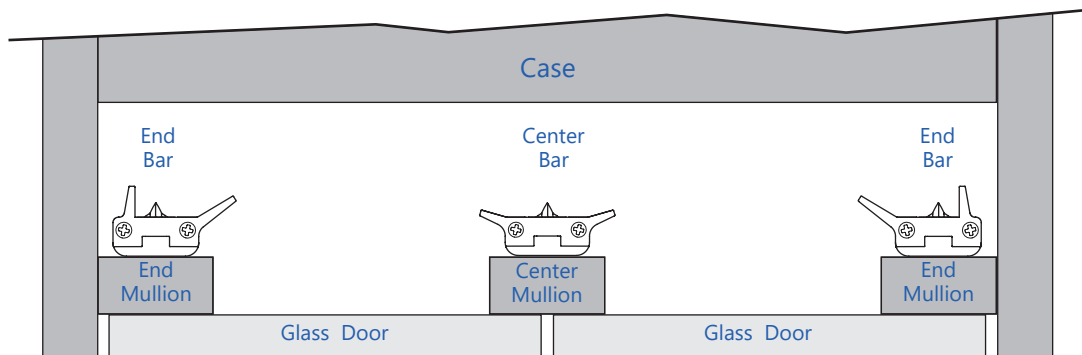
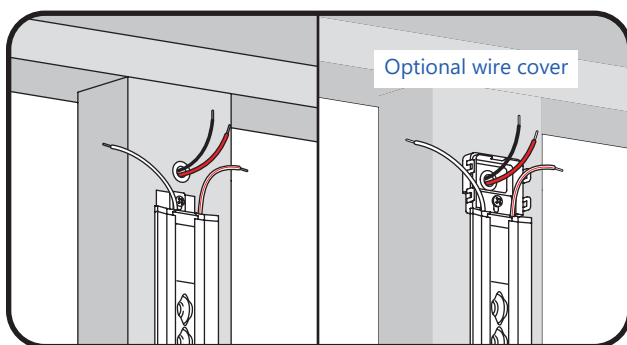


Top view of refrigeration case



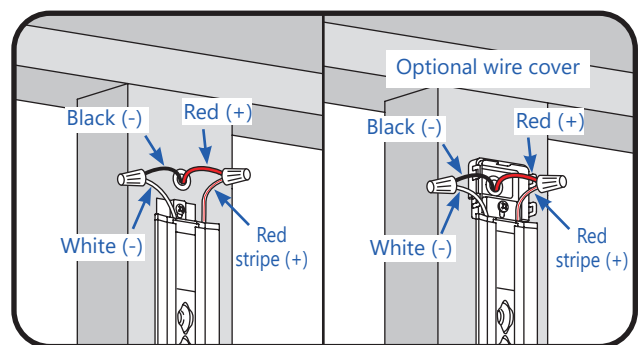
IMPORTANT: Before proceeding, verify correct orientation of lights.



④ Secure the top and bottom of the LED light to the mullion using a #6 x 1/2" (self-threading) or x 3/4" (self-drilling) sheet metal screws. If using the optional wire cover, install the cover base as well and a 3/4" (self-threading) or x 1" (self-drilling) long screw will be required.

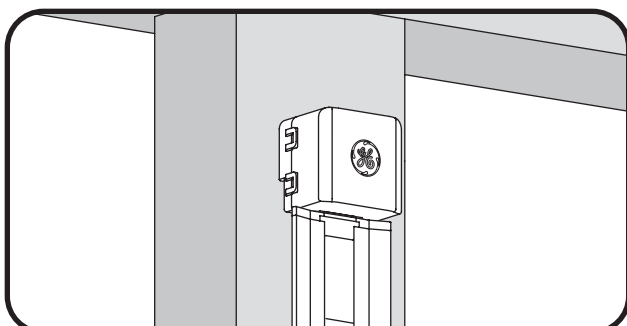
OPTIONAL: Additional screws can be used in the holes along the length of the bar if desired. Refer to the manufacturer manual for door frame to ensure there are no components contained inside the mullion that could be drilled through.

NOTE: Over-sized screws may cause damage to the LED light.



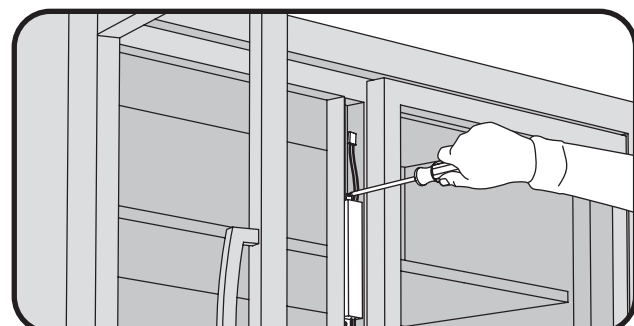
⑤ Refer to wiring diagram on page 6. Connect the red stripe wire (+) of the LED light to the red wire (+) of the power supply, and connect the white wire (-) of the LED light to the black wire (-) of the power supply using wire connectors or other connection method suitable for low temperature usage and stranded cable.

NOTE: If connections are made in an area with excessive moisture or ice, electrical connections should be sealed with electrical grade silicone. (Examples: Momentive RTV 6700 Series, Momentive White Blanc RTV 162, Dow Corning 3140, Dow Corning 3145, or Dow Corning RTV 748)



⑥ If using the optional wire cover, tuck wires inside and snap the cover top over the cover base.

⑧ Proceed to section 4—**Electrical Connections** to complete wiring connections.



⑦ Mount the LED driver in the same location where the ballast was formerly installed.

NOTE: Refer to the "Parts Needed Per Case" table on page 2 to determine the proper number of LED drivers to install.

3 - Electrical Connections

Maximum LED Driver Loading

⚠ CAUTION / ATTENTION

Risk of injury. Do not overload LED Driver. Do not exceed limits shown in “Maximum LED Driver Loading” table below.
Risque de blessure. Ne pas surcharger l'alimentation. Ne pas exéder les limites de la table cidessous: “Charges maximales pour les alimentations.”

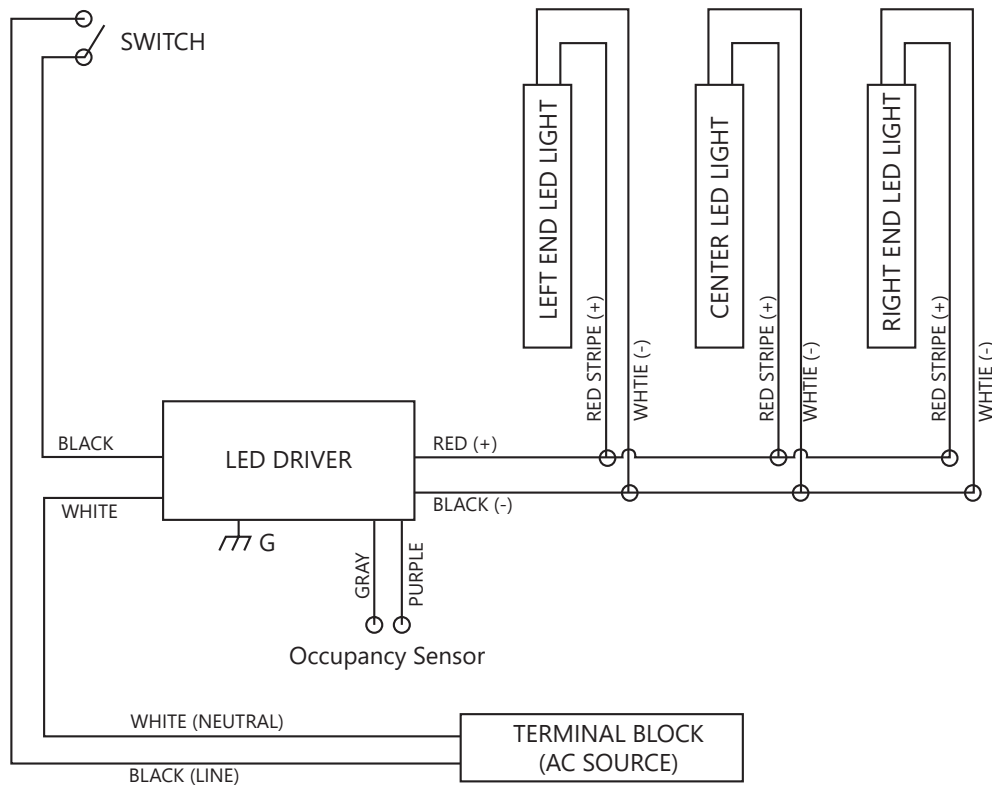
Tier	Length	Bar Type	Light Bar Power (W)	LED Driver: GELP24-60U-GL GEPS24D-60U-GLX		LED Drivers: GEPS6100NCCON-SY GEPS24D-100U-NA GELP24-100U-GLX		
				Minimum Loading QTY (Min loading >20W)	Maximum Loading QTY (Max loading ~54W)	Minimum Loading QTY (Min loading >40W)	Maximum Loading QTY (Max loading ~90W)	
Eco	30"	Center	4.2	5	12	10	21	
		End	2.8	8	19	15	32	
	48"	Center	7.0	3	7	6	12	
		End	5.6	4	9	8	16	
	60"	Center	8.4	3	6	5	10	
		End	5.6	4	9	8	16	
	67"	Center	8.4	3	6	5	10	
		End	7.0	3	7	6	12	
	73"	Center	9.7	3	5	5	9	
		End	8.4	3	6	5	10	
	Standard	30"	Center	5.6	4	9	8	16
			End	4.2	5	12	10	21
48"		Center	9.7	3	5	5	9	
		End	7.0	3	7	6	12	
60"		Center	12.5	2	4	4	7	
		End	9.7	3	5	5	9	
67"		Center	13.9	2	3	3	6	
		End	9.7	3	5	5	9	
73"		Center	15.3	2	3	3	5	
		End	11.1	2	4	4	8	

Electrical Connection Configurations

Multiple LED light's electrical input should be in parallel connection to an LED driver's output as shown by the example wiring diagram. Refer to "Maximum LED Driver Loading" table above to determine maximum number of LED lights per LED driver.

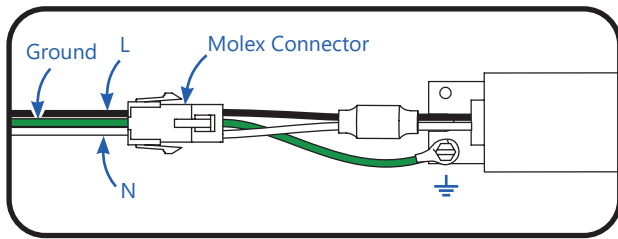
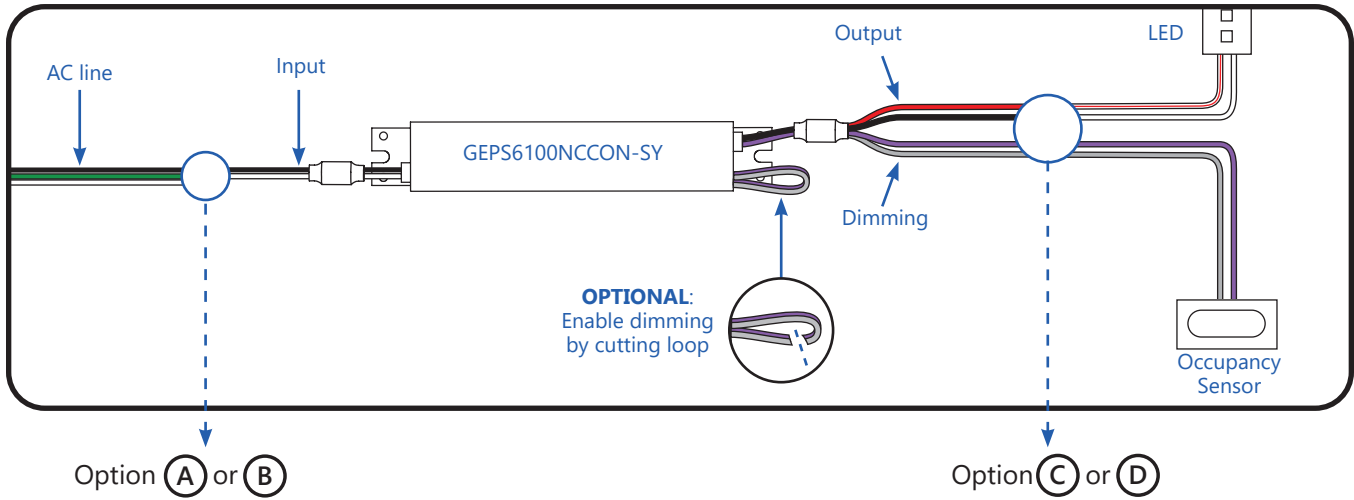
NOTE: LED lights are polarity insensitive.

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



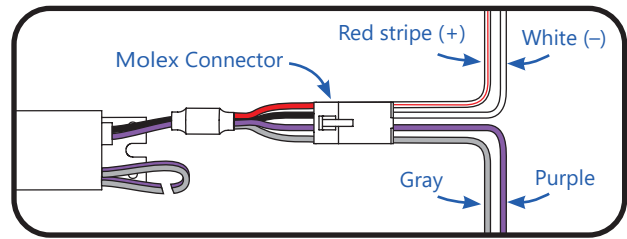
Connecting a GEPS6100NCCON-SY Driver

- Make input and output connections according to diagrams below.
- Connection methods should be suitable for low temperature usage and standard cable.
- For non-dimming applications, cap the unused wires with 5/32" (4mm) twist on wire connectors.
- For dimming applications, cut the dimming loop on the driver output side and make connections to the occupancy sensor.
- **CAUTION:** DO NOT apply voltage or power to the switched control circuit – contact closure only.
- Other methods for automated control such as occupancy sensors that switch the AC power side on and off are not recommended and will void the product warranty.



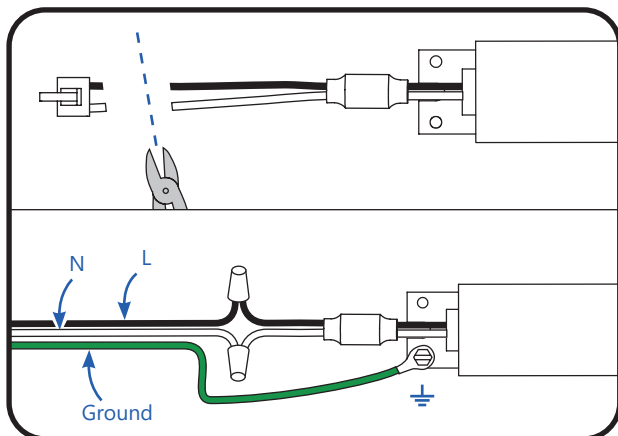
(A) Connect DC output using 4-way connector.

Wire Cavity Table	
39-01-4030 (AC)	
Cavity 1	Line 1 (Black)
Cavity 2	Earth Ground (Green)
Cavity 3	Neutral or Line 2 (White)

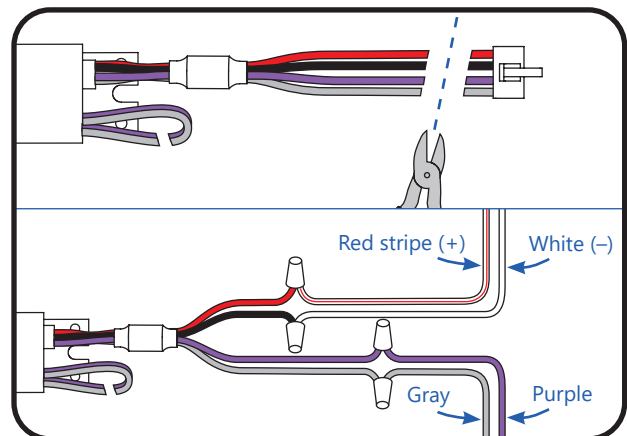


(C) Connect DC output using 4-way connector.

Wire Cavity Table	
Molex 39-01-4046 (DC)	
Cavity 1	Output DC (+) (Red)
Cavity 2	Output DC (-) (Black)
Cavity 3	Dimming (Purple)
Cavity 4	Dimming (Gray)



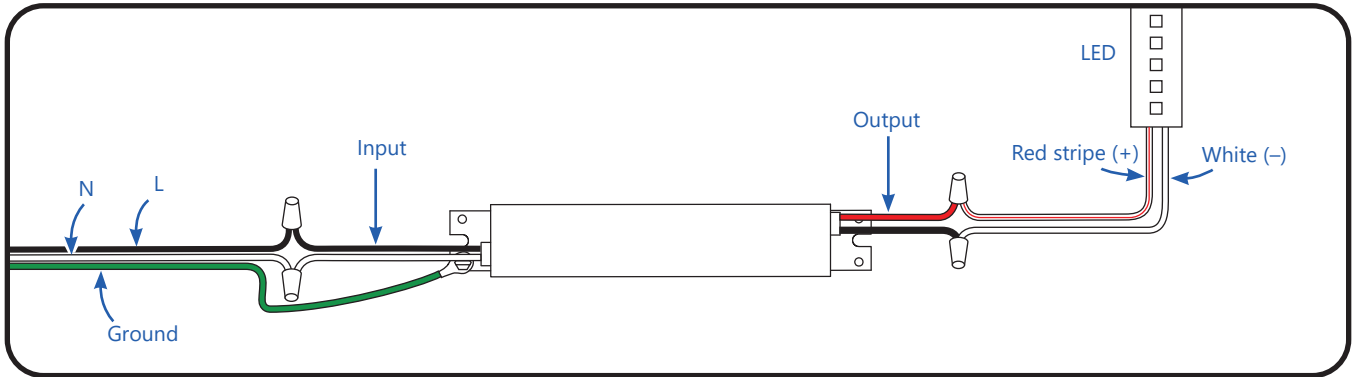
(B) Connect AC input using wire nuts.



(D) Connect DC output using wire nuts.

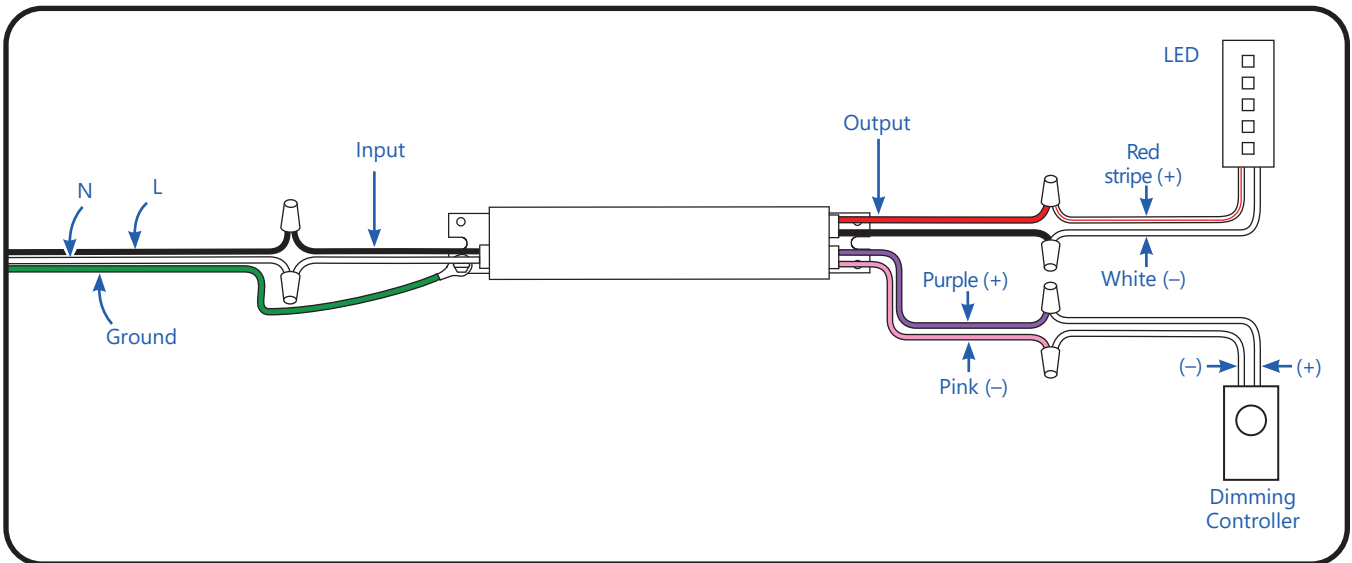
Connecting a GELP24-60U-GL or GELP24-100U-GLX Driver

- Make input and output connections according to diagrams below.
- Connection methods should be suitable for low temperature usage and standard cable.



Connecting a GEPS24D-60U-GLX or GEPS24D-100U-NA Driver

- Make input and output connections according to diagrams below.
- Connection methods should be suitable for low temperature usage and standard cable.



Periodic Inspection

It is advised that a periodic inspection be made of the refrigerated display case and LED lights for proper function. If excessive moisture or ice buildup is noted, this may be a sign that the door seal is damaged and should be replaced. Please note that prolonged exposure of the LED lights to moisture and ice may result in damage to the LED lights. Any LED lights exhibiting signs of damage such as discoloration or LEDs that are out should be replaced.

Cleaning Instructions

WARNING / AVERTISSEMENT

Risk of electrical shock. Disconnect power to LED Lights before any cleaning operation.

Risque de choc électrique. Débranchez l'alimentation des éclairages à LED avant toute opération de nettoyage.

- The outer lens 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.

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.

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 Class [A] RFLD complies with the Canadian standard ICES-005. /CeDEFR de la classe [A] est conforme à la NMB-005 du Canada.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This product is intended solely for the use of commercial refrigerated, display or case lighting and is not intended for use in any other application.



Electrical products must not be thrown out with domestic waste. They must be taken to a communal collecting point for environmentally friendly disposal in accordance with local regulations. Contact your local authorities or stockist for advice on recycling. The packaging material is recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection-service.

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