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Display Case LED Light Bar - Series "2LB & 3LB"

REACH-IN FREEZER / COOLER / VISA COOLER APPLICATIONS ONLY!

Installation Instructions

- WARNINGS:**
- 1) Risk Of Electrical Shock: Disconnect Power Before Installing Or Servicing Product.
 - 2) Before Servicing or Installing Product, Follow NEC Code Requirements and Lock Out / Tag Out Procedures.
 - 3) Use With CLASS 2 Power Supply - 24 Volt DC LED Driver.
 - 4) Installation Should Be Performed By Licensed/Qualified Electrical Contractor.
 - 5) Installation Should Be Performed By Licensed/Qualified Electricians As Mandated By The State/County/City Where The Product Is Installed And Per NEC Code.
 - 6) The LED Driver Power Supply Is To Be Supplied With A 120 Volt AC or 240 Volt AC 60 Hertz Branch Circuit, Properly Grounded, and Protected By No More Than A 20 Amp Circuit Breaker Or Time Delay Fuse.
 - 7) Please Use Safety Goggles and Gloves While Installing This Product.
 - 8) Estimated Installation Time Is 1.0 - 1.5 Hours Per Door.

Following the above warning instructions, begin as follows:

STEP #1 - Turning Off Power To Case Lighting

Disconnect power to the existing lighting fixtures/ballasts by turning off circuit breaker that feeds all wiring within case. Follow proper Lock Out / Tag Out Procedures per NEC Code requirements. If applicable, turn off light switch located within the case that controls power to the lighting within the case.

STEP #2 - Disconnect Primary Line Voltage Wiring At The Existing Fluorescent Ballast Locations

Identify the location of the existing fluorescent ballasts. Power should already be turned OFF in Step #1 above. In general, the new LED Driver Power Supplies installed that operate the 2LB/3LB series LED fixtures will be installed at the existing fluorescent ballast locations. Disconnect the primary line voltage wiring to the existing fluorescent ballasts. Cap and Label LINE and NEUTRAL wires. These will later be connected to the primary side of the 24 Volt LED Driver Power Supply.

STEP #3 - Preparing Inside Of Case For The New 2LB/3LB Series LED Light Fixtures

Locate & Remove the existing fluorescent lamps and lamp covers located at the mullion inside of case. Remove existing sockets/lampholders attached to the mullion inside of the case. Remove any existing reflectors to leave a flat mullion surface where the new 2LB/3LB series fixtures will be mounted. When finished with this step, the mullion should be left with a flat surface and two holes (top and bottom) from the removed lampholder/sockets.

STEP #4 - Accessing & Preparing To Utilize The Existing Case Lampholder/Socket Wiring

Locate and Remove the exterior (or interior) mullion raceway covers to access the existing lampholder/socket wiring. Identify the existing socket/lampholder wiring leads that feed to the TOP socket/lampholder hole at the mullion, label one lead as "POSITIVE-RED" and one lead as "NEGATIVE - BLUE or BLACK". Provide similar markings at the opposite wiring end that feeds from the old ballast location (new LED driver location). These are the wires that will be used to connect to the new 2LB/3LB series fixture wiring, wiring polarity is critical when connecting the new 2LB/3LB series LED fixtures. Properly remove or safe off all extra wiring that will not be used, which would include the BOTTOM lampholder/socket wires that feed from the existing fluorescent ballasts. Properly dispose/recycle all lamps and left over wiring components per proper EPA requirements.

STEP #5 - Installing The 2LB/3LB Series LED Light Fixtures

The 2LB/3LB series LED fixtures are shipped with Fixture Mounting Clips and screws. Each 2LB/3LB series light fixture requires Qty. 2 mounting clips that will be secured to the vertical mullion inside the case. Install Qty. 2 fixture mounting clips on to the mullion with the supplied mounting screws, making sure that each mounting clip is centered on the mullion and evenly spaced the length of the mullion. Only use the supplied SELF-TAPPING (SELF DRILLING) screws for METAL MULLION installations. Center the 2LB/3LB series LED Light Bar on the mullion and snap base of light fixture into the fixture mounting clips. To make installation of the mounting clips easy, try to position the mounting clip location on the mullion between two existing shelves to allow clearance for your drill motor. Make sure to keep the 2LB/3LB series fixture wiring cord at the TOP of the case. Feed the 2LB/3LB series fixture wiring cord through the existing TOP mullion hole and push through to the existing wiring raceway. Connect the 2LB/3LB series LED wiring cord to the existing lampholder/socket wiring: RED to POSITIVE, BLUE or BLACK to NEGATIVE as labeled in Step #4 above.



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STEP #6 - Removing The Existing Fluorescent Ballasts & Installing The New LED Drivers

Identify the location of the existing fluorescent ballasts. In general, the new LED Drivers installed that operate the 2LB/3LB series LED fixtures will be installed at the existing fluorescent ballast locations. Remove the existing fluorescent ballasts and mount the new LED Drivers. Identify socket/lampholder wiring leads that feed to the TOP socket/lampholder hole at the mullion, these should already be labeled "POSITIVE" and "NEGATIVE" from STEP #4 above. Connect all new 2LB/3LB series LED lighting fixture wiring to the 24 volt secondary side of the new LED driver. Do not exceed 72 Watts of combined LED 2LB/3LB series fixtures per each new 80 Watt LED Driver. Connect the RED/POSITIVE wiring of each fixture to the 24VDC RED/POSITIVE wiring from the new LED Driver. Connect the BLUE or BLACK/NEGATIVE wiring of each fixture to the 24VDC BLUE or BLACK/NEGATIVE wiring from the new LED Driver. Properly connect the new 80 Watt LED Driver LINE and NEUTRAL wires to the primary line wires as identified in Step #2 above. Make sure that a ballast/luminaire disconnect (example Ideal #30-352J) is installed at the primary connection to the LED Driver power supply.

STEP #7 - Resecure Mullion Covers & Kickplates

Resecure all removed exterior mullion raceway covers and kickplates to properly reassemble the case.

STEP #8 - Install Duct Seal At Existing Mullion Lampholder/Socket Holes At The Interior Of The Case

To prevent condensation within the case, install Dottie Duct Sealant (or equal) to seal the TOP and BOTTOM holes at the removed lampholder/socket locations at the inside vertical mullion. Make sure to completely seal the TOP hole where the 2LB/3LB series LED fixture wiring cord feeds in to the raceway.

STEP #9 - Restore Power To Case

Properly restore power to the case by energizing the circuit breaker and turning ON light switch if applicable.

CLEANING INSTRUCTIONS: USE MILD NON-ABRASIVE DETERGENT WITH DAMP TERRY CLOTH TOWEL.

Thank You For Purchasing the 1 Source LED Series 2LB/3LB Reach-In Case Lighting Fixture. You Will Experience Years Of Quality High Performance LED Lighting And Outstanding Energy Efficiency!