



**Model 401D, 1KDR and DisplayRite
Optimax 2 Lighting System
Retrofit Installation Instructions**

99-17248-1001_B

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Anthony products identified in this manual are designed and certified to meet or for safety, and for sanitation standards.

European products meet requirements.

Each customer is responsible for final site approval.

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1. Preliminary Considerations

1.1. Safety



BEFORE YOU BEGIN

Read instructions completely and carefully.



WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY, OBSERVE THE FOLLOWING:

- 1) Use this unit in the manner intended by the manufacturer.
- 2) Before servicing or altering, switch power off.



Turn off power to the lighting system before removing any lens covers or fluorescent lamps.



For use inside a commercial refrigeration case with packaged foods only.

FOR YOUR SAFETY

Read and observe all CAUTIONS and WARNINGS shown throughout these instructions. While performing installations described; gloves, safety glasses or goggles should be worn.



PREPARE ELECTRICAL WIRING

Electrical requirements

This appliance must be supplied with 120V, 60 Hz, and connected to an individual and properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse.

Grounding Instructions – Cable Direct

This lighting system must be connected to a grounded metal, permanent wiring system, or an equipment grounding connector must be run with the system conductors and be connected to the equipment grounding terminal or lead on the lighting fixture.

2. Removing Fluorescent Lighting

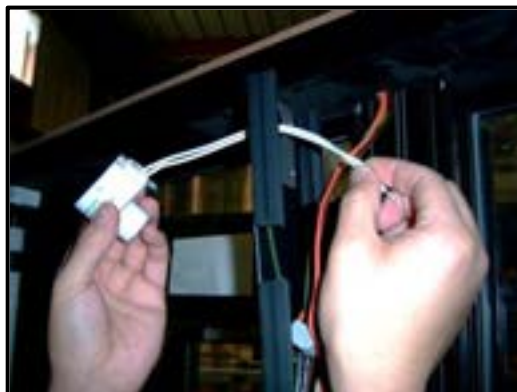
1. Remove fluorescent light bulbs.



2. Detach mullion cover using a flat head screwdriver.



3. Remove lamp holders.



4. Cover lamp holder holes using foam tape (supplied).

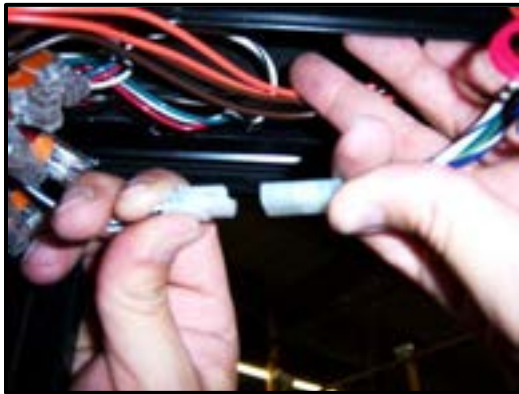


2.1. Remove Ballasts

1. Remove raceway cover by inserting a flat screwdriver into the seam between the metal raceway and the plastic cover and pry open.



2. Unplug power and light connectors.



3. With the ballast exposed, proceed to remove the screws.



Note: Do not discard screws, they will be used for mounting the drivers.

Note: Remove and dispose of existing ballasts per any local or Federal guidelines.

3. Installing LED Fixtures

3.1. Installing LED Fixtures (Center Mullion) Model 401

1. Place LED fixture on mullion cover and drill two Ø 3/16" holes through round holes of end cap on each end.



2. Peel off tape liner from back of the fixture prior to installation.



3. Attach LED fixtures to mullion using four #8-32 X 5/8" screws and nuts (supplied).



4. Drill a \varnothing 3/8" hole about 1/2" from the end cap and install the supplied bushing.



5. Feed wires through bushing.



6. Connect light wires from LED fixture to wire assembly using WAGO connectors or other Anthony approved connector.



3.2. Installing LED Fixtures (End Mullion) Model 401

1. Place LED fixture over end mullion cover and align edge of LED fixture with edge of end mullion cover. Drill two Ø 3/16" through slots of end cap.



2. Attach LED fixture using #8-32 X 5/8" screws and nuts supplied. Proceed to wire fixture as described in step 6 of Installing LED Fixtures (Center Mullion) Model 401.



3. Reinstall mullion covers.



Note: Seal any open holes using neutral cure silicone to prevent air infiltration.

3.3. Installing LED Fixtures Model 1KDR w/ELS Option

1. Remove lens assembly and fluorescent light bulbs.



2. Detach mullion cover using a flat head screwdriver.



3. Remove lamp holder assemblies.



4. Place LED fixture on mullion cover and drill two Ø 3/16" holes through round holes of end cap on each end.



5. Peel off tape liner from back of the fixture prior to installation.



6. Cover exposed holes with foam tape supplied and feed wires through the tape and one of the upper holes.



7. Attach LED fixtures to mullion using four #8-32 X 5/8" screws and nuts (supplied).



8. Place LED fixture over end mullion cover and drill one $\text{Ø } 3/16$ " hole through slot of end cap on each end.



9. Cover exposed rectangular hole with foam tape supplied and feed wires through the tape and hole and re-install mullion covers.



3.4. Installing LED Fixtures DisplayRite w/Power Lens Option

1. For light removal follow the same steps as for the Model 1KDR.
2. Apply the ½" X ½" foam supplied to the back of each of the light fixtures prior to installation.



3. For the center mullion, follow step 4 of Installing LED Fixtures Model 1KDR w/ELS Option.



4. For the end mullion cover, carefully score plastic cover and snap extrusion section.



5. Place LED fixture over end mullion cover and drill one $\text{\O} 3/16$ " hole through slot of end cap on each end.



6. Cover rectangular hole with foam tape supplied and feed wires through the tape and hole and attach LED fixture using #8-32 X 5/8" screws and nuts supplied.

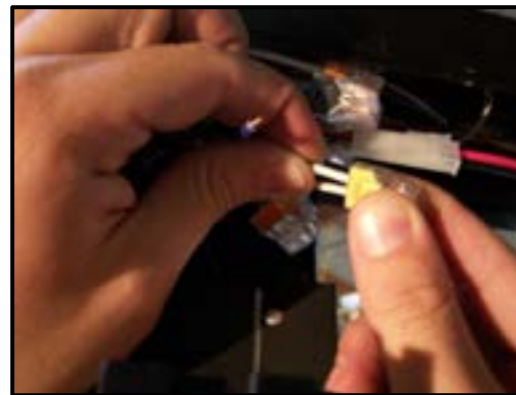
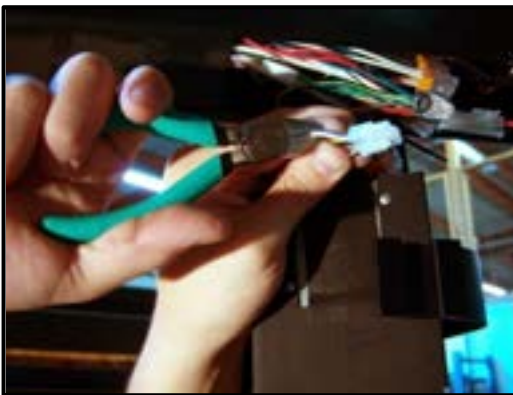


4. Driver Installation

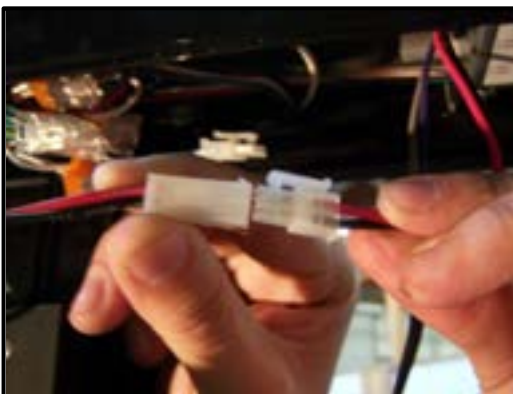
1. Install Driver in the same location where the ballast was fitted using existing self-tapping screws. (Installer may have to drill two holes in raceway to accommodate driver).



2. If no connector is found on driver, cut off blue and white wires from harness and connect to driver using Wago connectors or other Anthony approved connectors.

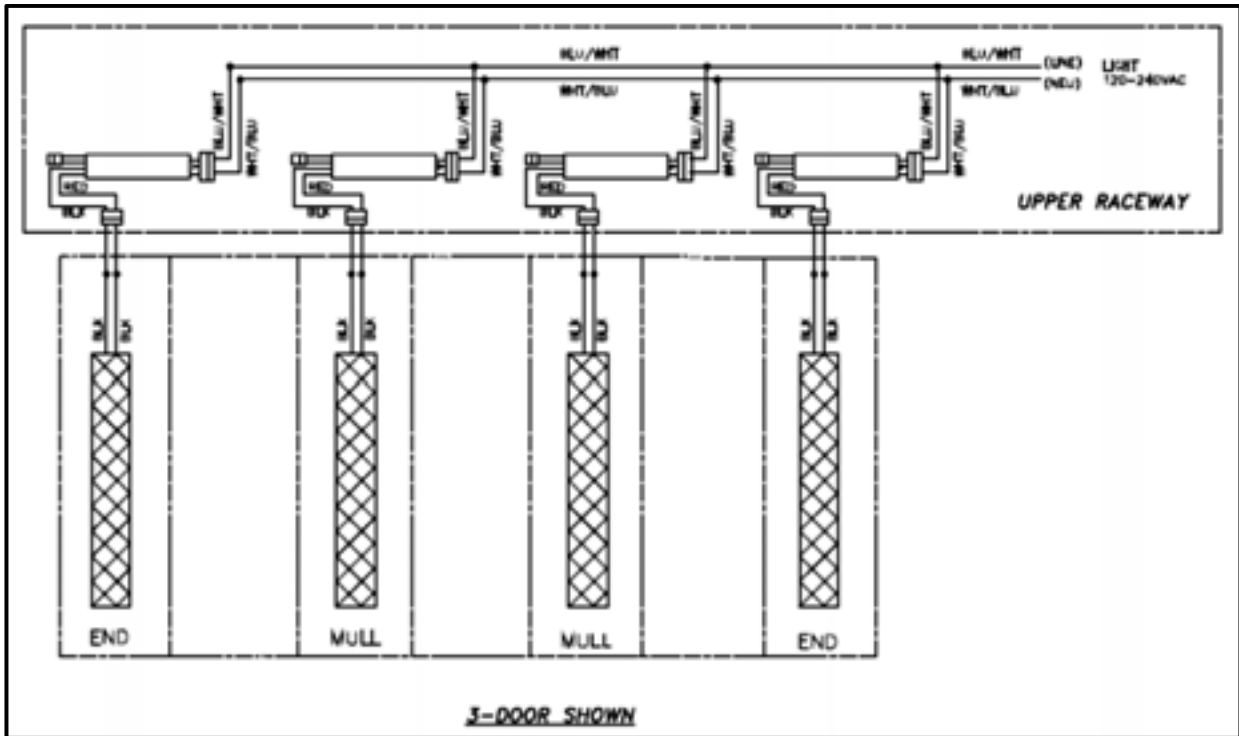


3. Connect light wires from LED fixture to red and black wires from driver.



4. Reinstall raceway covers and power up!

5. Wiring Diagram



6. REVISION HISTORY PAGE

REV	ORIGINATOR	DESCRIPTION OF CHANGE	EFFECTIVE DATE
	F. Carbajal	Initial Release	05/16/2012
	S. Fisher	Reformat from Framemaker to Word	12/18/2012