

## LED Lighting Fixture

### SAVE THESE INSTRUCTIONS



#### BEFORE YOU BEGIN

Read and follow all safety instructions



### WARNING

#### RISK OF FIRE, EXPLOSION AND ELECTRIC SHOCK

- This product should be installed, inspected, and maintained by a qualified electrician only, in accordance with the NEC (National Electric Code) and all local codes.
- This person should be familiar with the construction and operation of the product and the hazards involved.
- This light is for outdoor use and should not be used in areas of limited ventilation or high ambient temperature.
- Turn off electrical power before inspection, installation or removal.
- Disconnect the power by turning off the circuit breaker - turning the power off by using a light switch is not sufficient to prevent electrical shock.
- Make sure the fixture is cool to the touch before performing maintenance.



### Prepare Electrical Wiring



#### Electrical Requirements

- The fixture must be supplied with a voltage within the specified rating on the product label.
- The fixture must be connected to an individual, grounded branch circuit protected by a properly sized circuit breaker.
- Only use UL (or other NRTL) approved wire for supply connections - minimum 18 AWG, 75°C rated supply wire.



#### Grounding Instructions

- The grounding and bonding of the overall system shall be done in accordance with NEC Article 600 and local codes.

TABLE OF CONTENTS

Preparation ..... 3

**Fixture Installations**

    Recessed Flangeless (Mud-flange) ..... 4

    Recessed Flange ..... 7

    Recessed T-Grid ..... 10

**Additional Diagrams**

    Assembly..... 12

    Accessory..... 15

    Mount Spacing ..... 16

    Wiring ..... 19

## PREPARATION

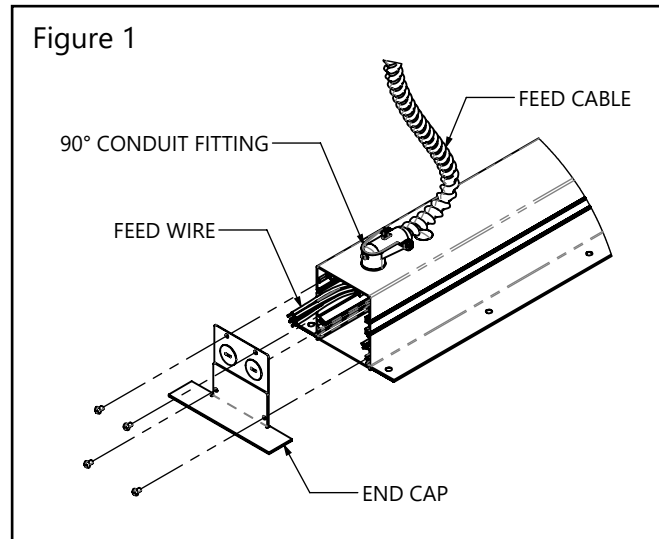
**CAUTION:**

Ensure the branch supply power is shut off at the breaker panel before continuing with the installation.

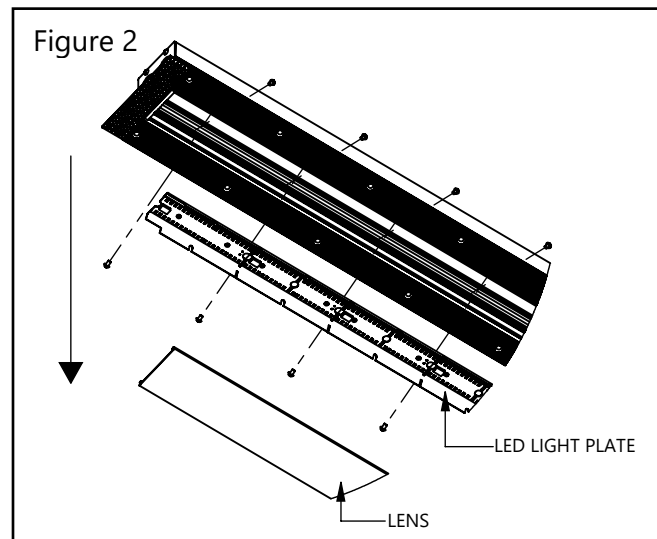
- Ensure there is no visible damage to the fixture housing, accessories or electrical wires.
- Refer to the **Assembly** section for labeled callouts of main components.
- Refer to the **Accessory** section for the components included with your specific mounting kit.
- Refer to the **Mount Spacing** section for specific spacing dimensions. Be sure all measurements are precise for an easy installation. Determine and clearly mark all mounting locations prior to starting the installation.
- All fixtures are pre-wired for input power on one side of the fixture. This side is labeled "AC Input", and will be referred to as **Side A** of the fixture throughout this document. The other end of the fixture will be referred to as **Side B**.
- This installation requires a minimum of two (2) people to reduce risk of injury and/or damage to the fixture(s).
- For fixtures pre-installed with an Emergency Backup Battery (EM) or Transfer Device (GTD), refer to the additional instructions included with the fixture.

## RECESSED FLANGELESS (MUD-FLANGE)

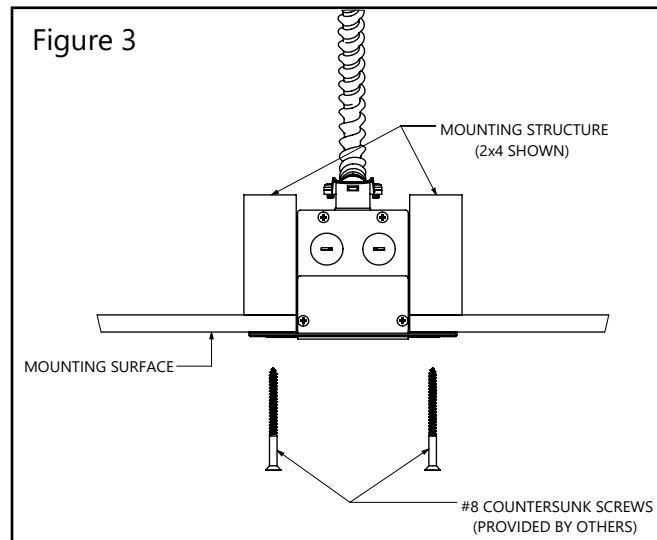
1. Make rough-in cutout in mounting surface for the fixture and ensuring mounting structure is available on each side of the opening. Refer to the Additional Dimensions section for rough-in width and length.



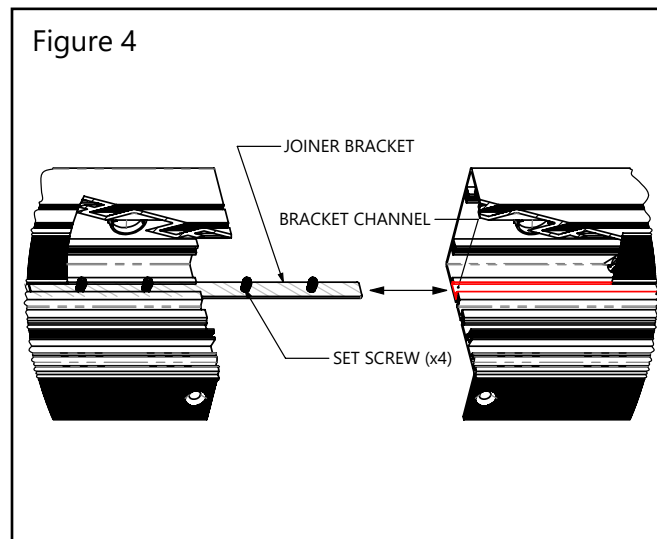
2. Remove the End Cap (Figure 1) from Side A of a Stand-Alone or Starter fixture, pull out harness wires through opening, install conduit fitting (provided in Starter Kit) into 1/2" KO (conduit provided by others) on top of fixture and make wiring connections to wire harnesses (provided in Starter Kit). Carefully push all wire connections back into fixture and replace End Cap.
  - For Continuous Rows continue to step 3. For Stand-Alone fixtures skip to step 4.



3. Remove the Lens and disconnect and remove LED Light Plates from each fixture to be installed (Figure 2).



4. Insert fixture into opening and secure to mounting structure via pre-drilled countersunk holes using #8 flat head screws (by others) suitable for mounting structure (Figure 3). Ensure that the screws are installed straight in order to sit flush with Mud Flange. Warning: if screws are not straight, fixture opening can be affected, not allowing the Lens to fit properly. Skip to step 10.
5. Remove End Cap from Side B of Starter fixture, insert into opening and install #8 flat head screws (by others) suitable for mounting structure, but do not completely tighten. Ensure the screws are installed straight in order to sit flush with Mud Flange. Warning: if screws are not in straight, fixture opening can be affected, not allowing Lens to fit properly.



6. Remove both End Caps from Middle fixture(s), insert into opening and attach to previous fixture by sliding Joiner Brackets into their respective slots, halfway between each fixture. Ensure fixture ends are flush and tighten Joiner Bracket set screws using the provided hex key (Figure 4). Secure fixture with #8 flat head screws (by others) suitable for mounting structure but do not completely tighten. Ensure the screws are installed straight in order to sit flush with Mud Flange. Make thru-wire connections between fixtures using provided quick connectors.

7. Remove the End Cap from Side A of End fixture, and insert into opening with a pair of Joiner Brackets fully inserted into the slots. Slide each Joiner Bracket halfway between Middle and End fixture. Ensure fixture ends are flush and tighten Joiner Bracket set screws. Secure fixture with #8 flat head screws (by others) suitable for mounting structure but do not completely tighten. Ensure the screws are installed straight in order to sit flush with Mud Flange. Make thru-wire connections between fixtures using provided quick connectors.
  8. Tighten all #8 flat head screws.
  9. Re-connect and re-install all LED Light Plates. Re-install Lens.
  10. Protect the Lens with a covering and mud, sand, texture and paint the finished edges.
  11. Ensure the Lens are free of dirt, smudges and debris.
  12. Restore branch supply power and ensure fixture functions properly. If fixture does not turn on or function properly, shut off branch supply power and check all electrical connections.
- 

- Intentionally left blank -

## RECESSED FLANGE

Figure 5

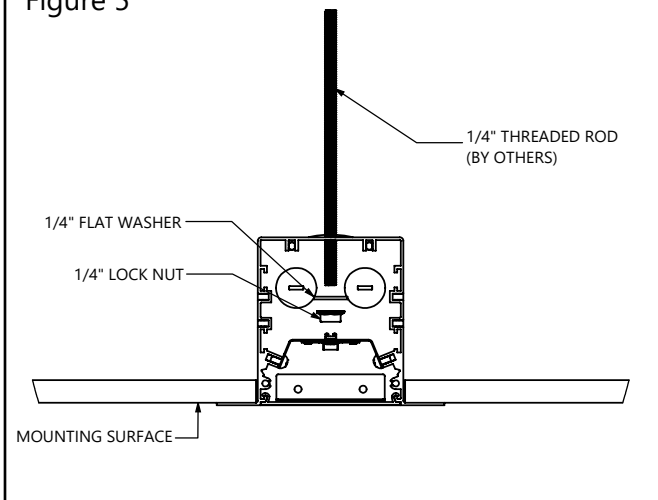


Figure 6

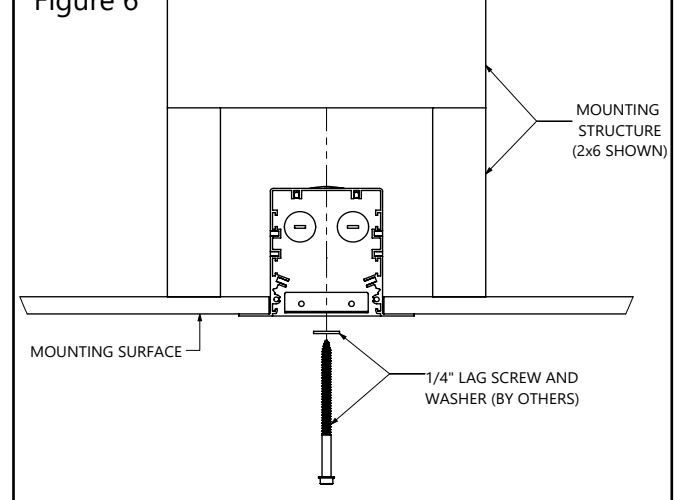
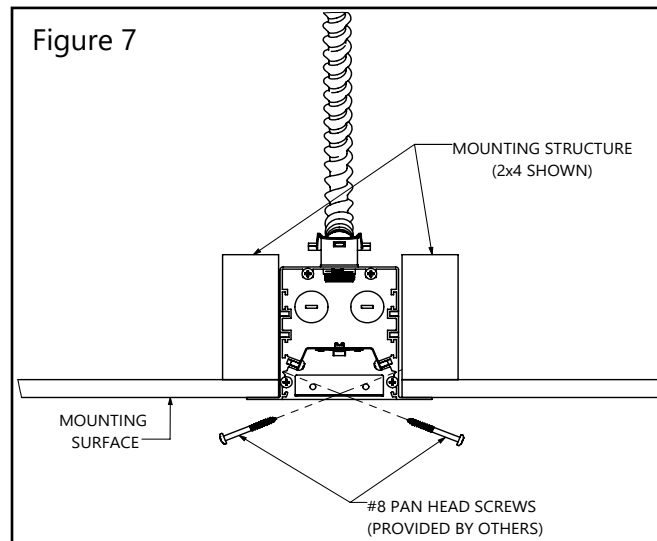
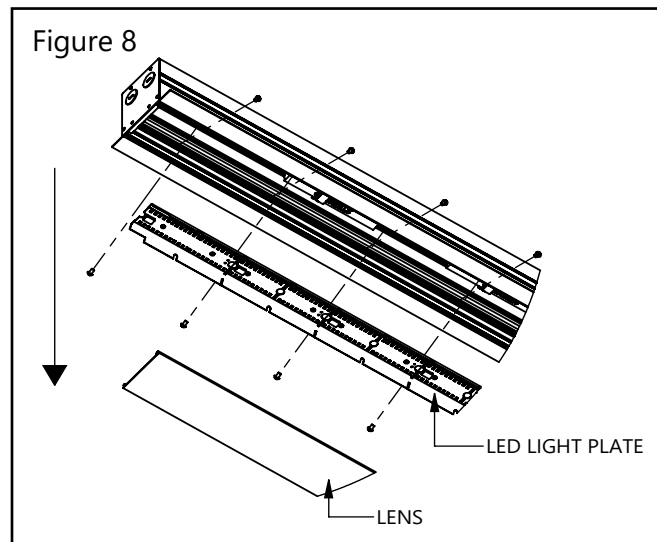


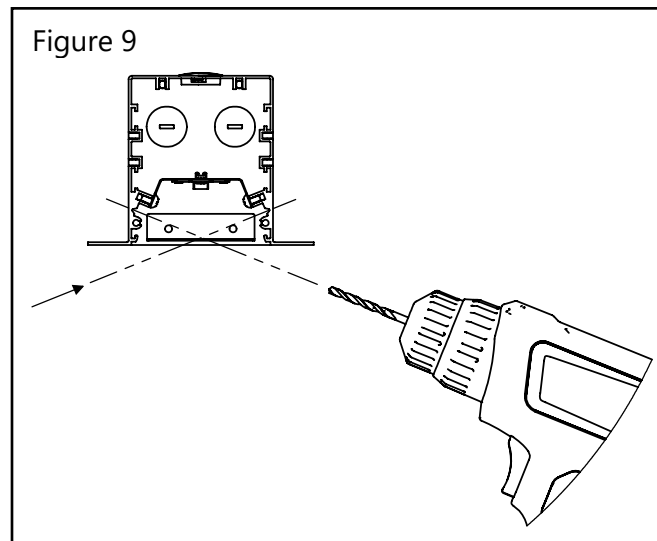
Figure 7



1. Determine mounting method, 1/4-20 threaded rod, nut & washer (by others) (Figure 5), 1/4" lag bolt & washer (by others) (Figure 6), or direct mount (Figure 7) via pre-drilled holes using #8 pan head screws (by others) suitable for mounting structure.
2. Make rough-in cutout in surface for the fixture. Refer to Mount Spacing section for rough-in width and length.
3. Install structure above rough-in cutout over fixture mounting points. Refer to Mount Spacing section for mounting centers. For 1/4-20 threaded rod method, attach threaded rods to structure. Make rough-in cutout in mounting surface for the fixture and ensuring mounting structure is available on each side of the opening.



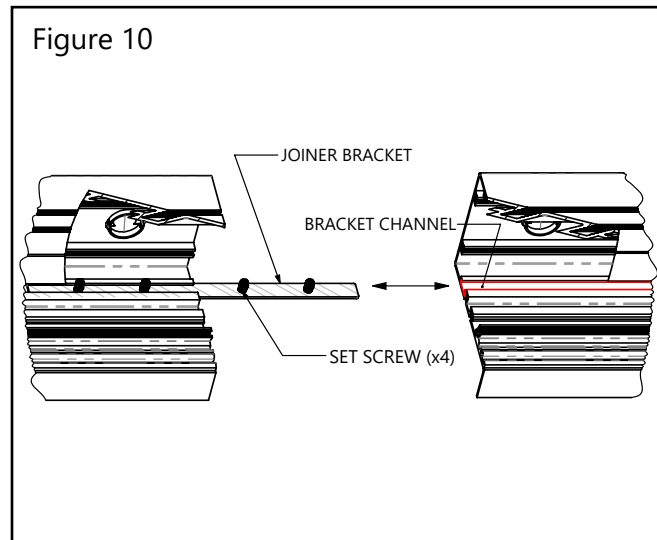
4. Remove the Lens and disconnect and remove LED Light Plates from each fixture to be installed (Figure 8).
5. Install conduit fitting (provided in Starter Kit) into 1/2" KO (conduit provided by others) of a Stand-Alone or Starter fixture



6. If installing Direct Mount, drill pilot holes into fixture housing along mounting channel for each #8 screw to be used for installation (Figure 9).
  - For Stand-Alone fixtures continue to step 7. For Continuous Rows skip to step 8.



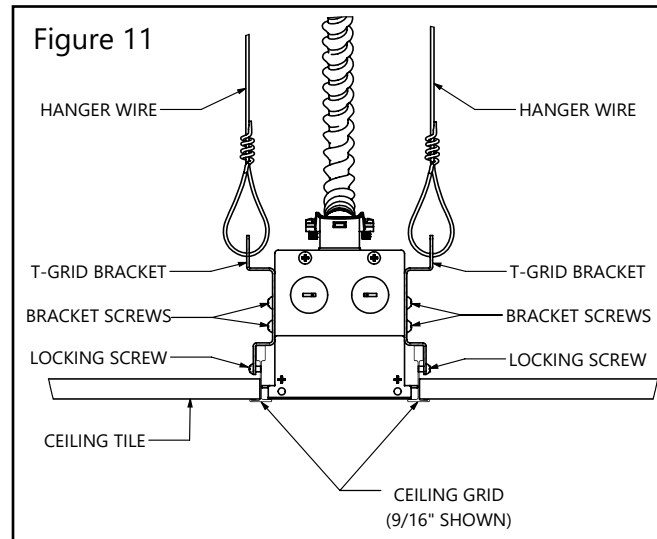
7. Insert fixture into opening and secure to mounting structure. Make wiring connections to wire harnesses (provided in Starter Kit). Skip to step 11.
8. Remove End Cap from Side B of Starter fixture, insert into opening and install to mounting structure.



9. Remove both End Caps from Middle fixture(s), insert into opening and attach to previous fixture by sliding Joiner Brackets into their respective slots, halfway between each fixture. Ensure fixture ends are flush and tighten Joiner Bracket set screws using the provided hex key (Figure 10). Secure fixture to the mounting structure and make thru-wire connections between fixtures using provided quick connectors.
10. Remove End Cap from Side A of End fixture, and insert into opening with a pair of Joiner Brackets fully inserted into the slots. Slide each Joiner Bracket halfway between Middle and End fixture. Ensure fixture ends are flush and tighten Joiner Bracket set screws. Secure fixture to the mounting structure and make thru-wire connections between fixtures using provided quick connectors.
11. Re-connect and re-install all LED Light Plates. Re-install Lens.
12. Ensure the Lens are free of dirt, smudges and debris.
13. Restore branch supply power and ensure fixture functions properly. If fixture does not turn on or function properly, shut off branch supply power and check all electrical connections.

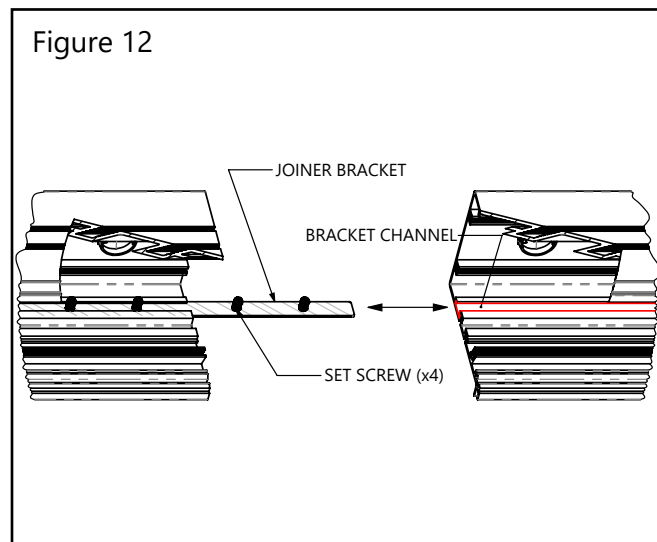
## RECESSED T-GRID

1. Reference Mount Spacing section for T-grid Center Dimensions. Note: The T-grid must be installed to accommodate the width of the specific fixture that was ordered.



2. Install T-grid Brackets using provided Bracket Screws (Figure 11). T-grid Brackets can be used for 9/16" or 15/16" grids. Ensure brackets are oriented correctly for the T-grid installed.
  - For stand-alone fixtures continue to step 3. For Continuous Rows skip to step 7.
3. Loosen Locking Screws and place fixture in T-grid. Ensure flanges are resting on T-grid.
4. Tighten Locking Screws to secure T-grid brackets to T-grid.
5. Attach hanger wires (by others) to T-grid Brackets.
6. Remove the End Cap (Figure 1) from Side A of Stand-Alone fixture, pull out fixture harness wires through opening, install conduit fitting (provided in Starter Kit) into 1/2" KO (conduit provided by others) on top of fixture and make wiring connections to wire harnesses (provided in Starter Kit). Carefully push all wire connections back into fixture and replace End Cap. Stand-Alone installation is complete.
7. For Continuous Rows, remove all Lens and LED Light Plates from each fixture
8. Remove End Cap from Side B of Starter fixture, loosen Locking Screws and place Starter fixture in T-grid. Ensure flanges are resting on T-grid.
9. Tighten Locking Screws to secure T-grid Brackets to T-grid.
10. Attach hanger wires (by others) to T-grid Brackets.

11. Install conduit fitting (provided in Starter Kit) into 1/2" KO (conduit provided by others) on top of fixture and make wiring connections to wire harnesses (provided in Starter Kit).

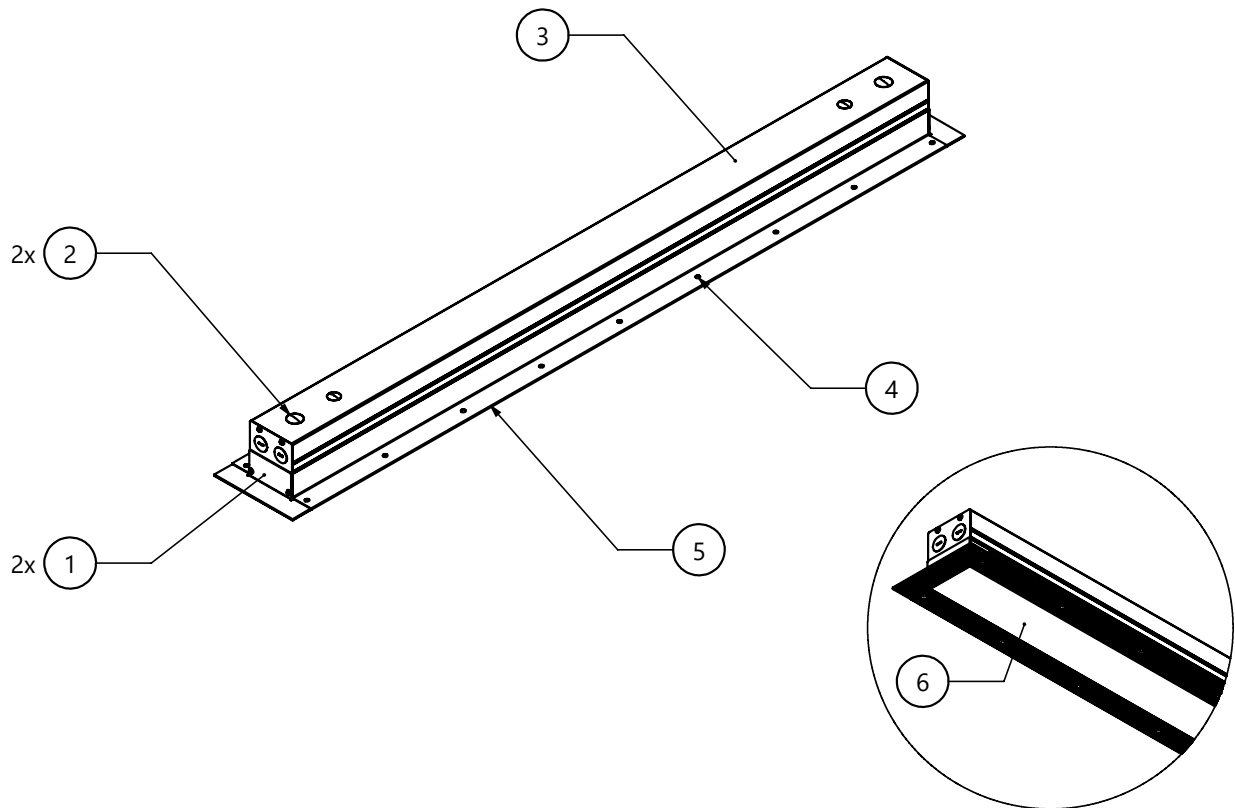


14. Remove both End Caps from Middle fixture(s), loosen Locking Screws and place Middle fixture(s) in T-grid. Ensure flanges are resting on T-grid. Attach to previous fixture by sliding Joiner Brackets into their respective slots, halfway between each fixture. Ensure fixture ends are flush and tighten Joiner Bracket set screws using the provided hex key (Figure 12). Make thru-wire connections between fixtures using pre-installed wire harness/quick connectors.
15. Tighten Locking Screws to secure T-grid brackets to T-grid.
16. Attach hanger wires (by others) to T-grid Brackets.
17. Remove End Cap from Side A of End fixture, loosen T-grid set screws and place End fixture in T-grid. Ensure flanges are resting on T-grid. Attach to previous fixture by sliding Joiner Brackets into their respective slots, halfway between each fixture. Ensure fixture ends are flush and tighten Joiner Bracket set screws. Make thru-wire connections between fixtures using pre-installed wire harness/quick connectors.
18. Re-connect and re-install all LED Light Plates. Re-install Lens.
19. Ensure the Lens are free of dirt, smudges and debris.
20. Restore branch supply power and ensure fixture functions properly. If fixture does not turn on or function properly, shut off branch supply power and check all electrical connections.

## Assembly Diagrams

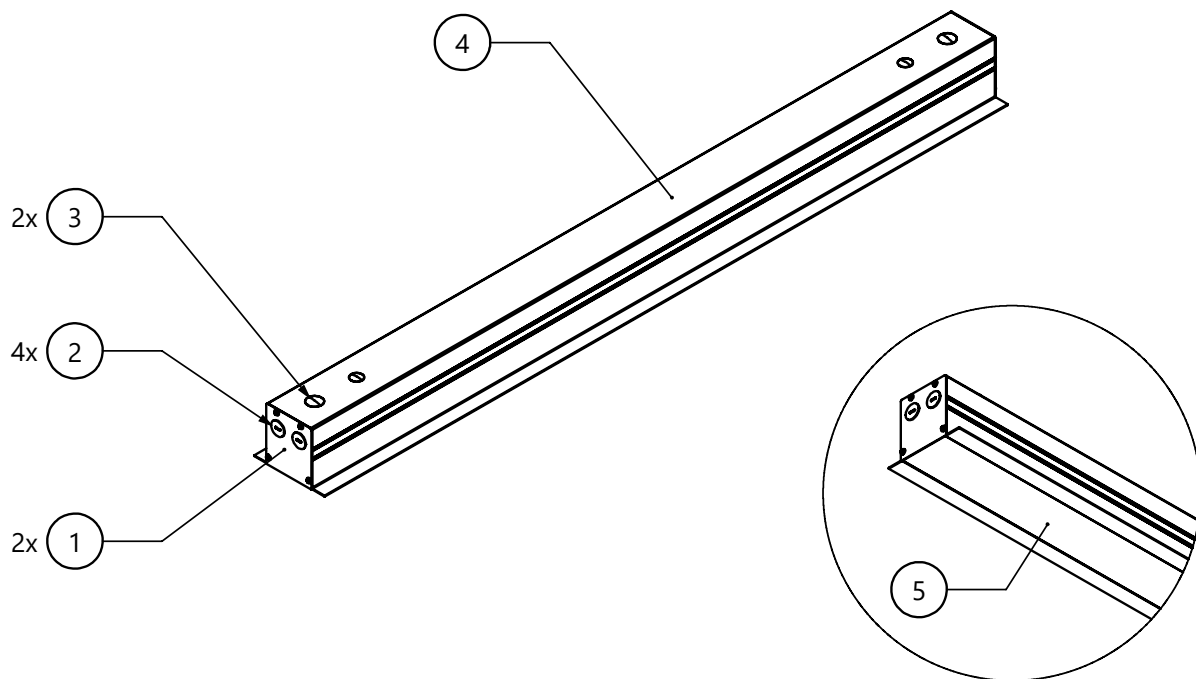
### Flangeless (Mud-flange)

- |                         |  |
|-------------------------|--|
| 1. End Cap              | 4. Mounting Holes (qty varies by length) |
| 2. 1/2" KO (Power Feed) | 5. Mud Flange                            |
| 3. Recessed Housing     | 6. Lens                                  |



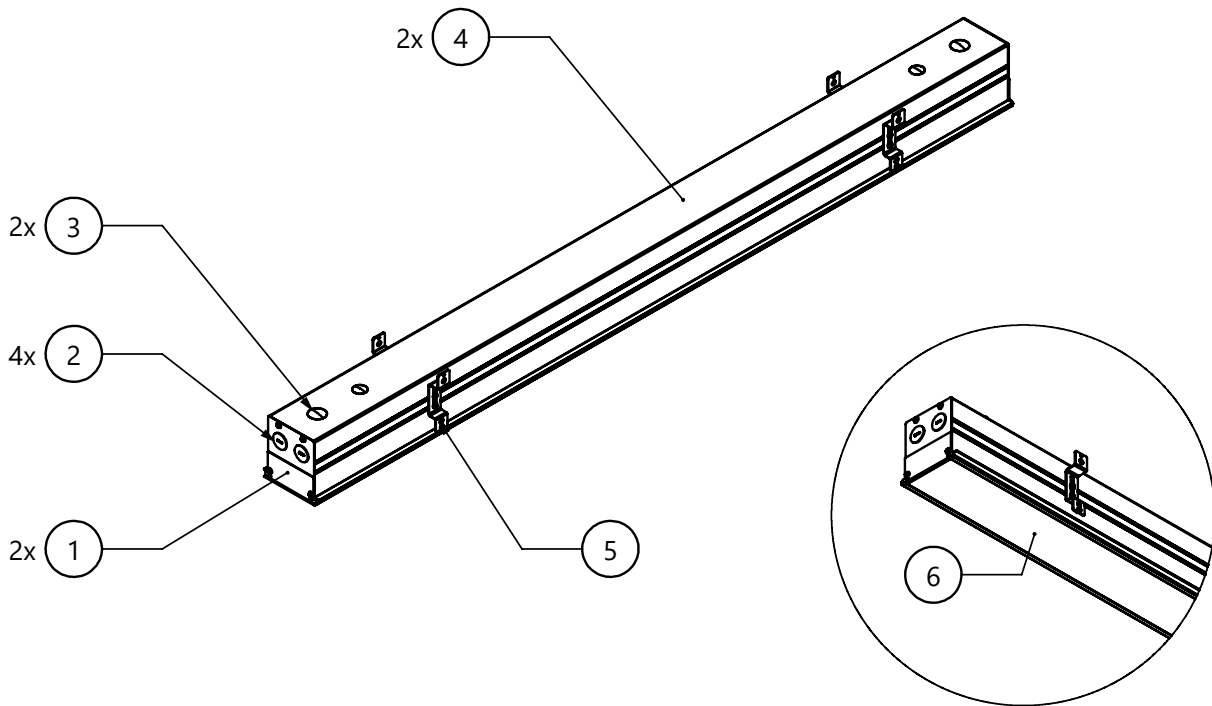
## Flange

- |                                       |                     |
|---------------------------------------|---------------------|
| 1. End Cap                            | 4. Recessed Housing |
| 2. Side 1/2" KO (Optional Power Feed) | 5. Lens             |
| 3. 1/2" KO (Power Feed)               |                     |



## T-Grid

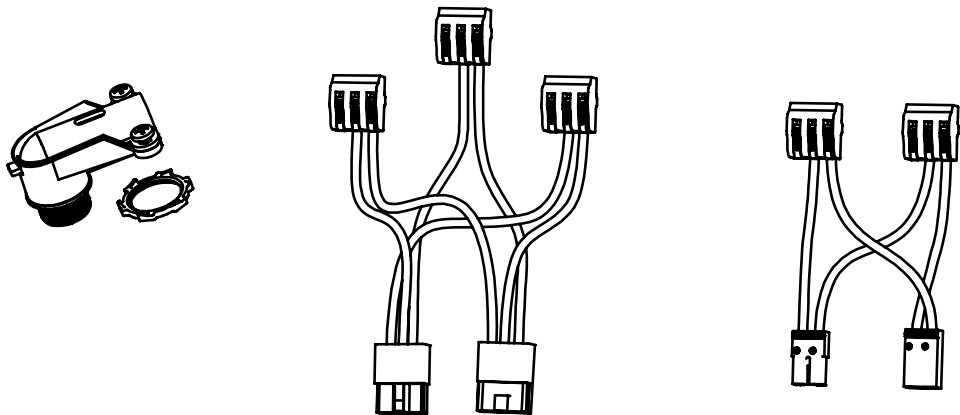
- |                                       |  |
|---------------------------------------|--|
| 1. End Cap                            | 4. Recessed Housing                      |
| 2. Side 1/2" KO (Optional Power Feed) | 5. T-Grid Bracket (qty varies by length) |
| 3. 1/2" KO (Power Feed)               | 6. Lens                                  |



Accessory Diagrams

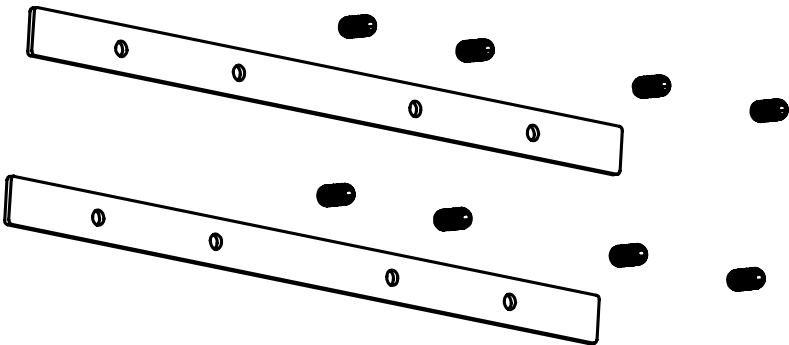
Starter Kit

#	DESCRIPTION	QTY
1	90° Elbow Conduit Fitting	1
2	Power Wire Harness (3C)	1
3	Dimming Wire Harness (2C)	1



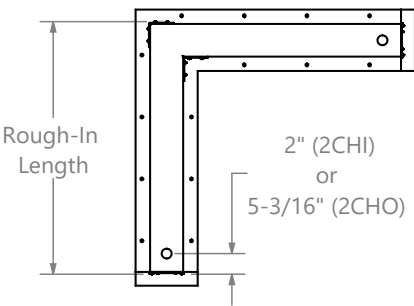
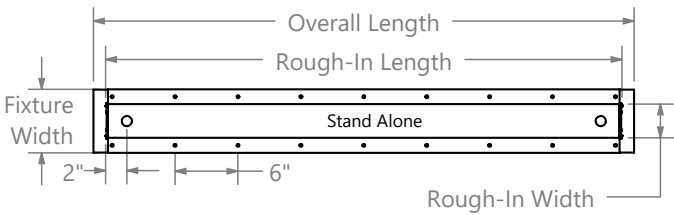
Joiner Kit

#	DESCRIPTION	QTY
1	Joiner Bracket	2
2	Set Screw	8

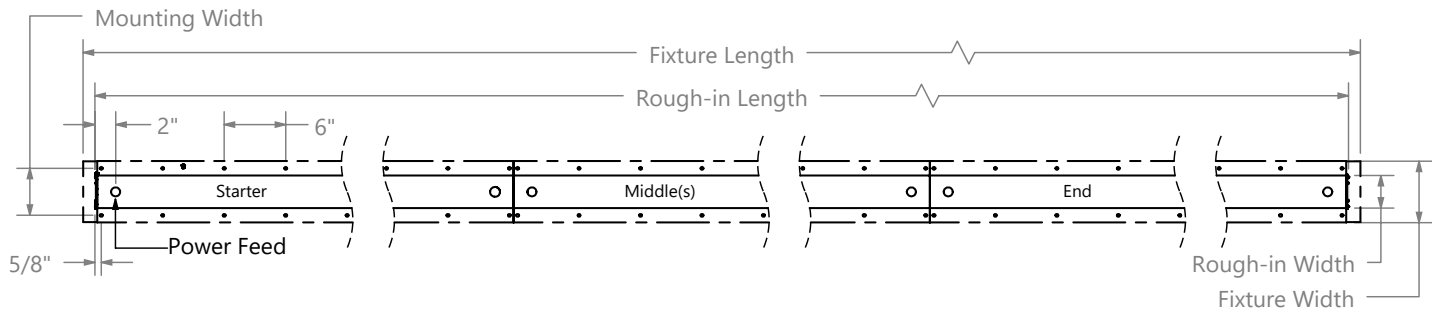


Mount Spacing: Flangeless (Mud-Flange)

	3" Nominal
Rough-in Width	3-11/16"
Fixture Width	5-15/16"
Mounting Width	4-9/16"



Continuous Row (typical)



Nominal Length (ft)	Rough-in Length	Fixture Length
2	24-1/2"	26-5/8"
3	36-1/2"	38-5/8"
4	48-1/2"	50-5/8"
5	60-1/2"	62-5/8"
6	72-1/2"	74-5/8"
7	84-1/2"	86-5/8"
8	96-1/2"	98-5/8"
2 [part no. 2CHI]	21-3/8"	26-3/4"
2 [part no. 2CHO]	24-1/2"	30"
Continuous Row	*	†

\* For Continuous Row **Rough-In Length**, add Nominal Lengths for all fixtures in run and add 1/2".

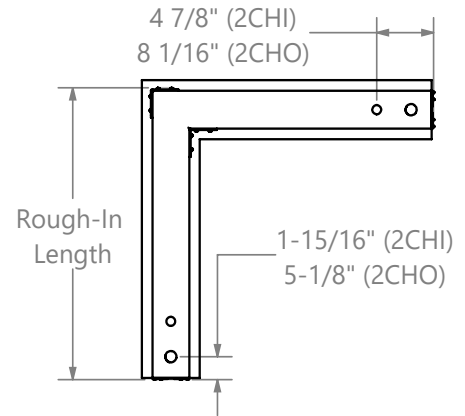
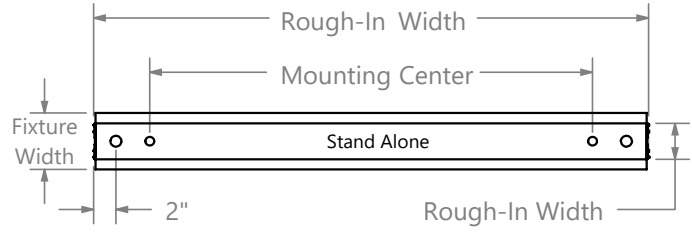
† For Continuous Row **Fixture Length**, add Nominal Lengths for all fixtures in run and add 2-1/4".

Note: For Continuous Runs with Corners, refer to diagram for conduit access dimensions.

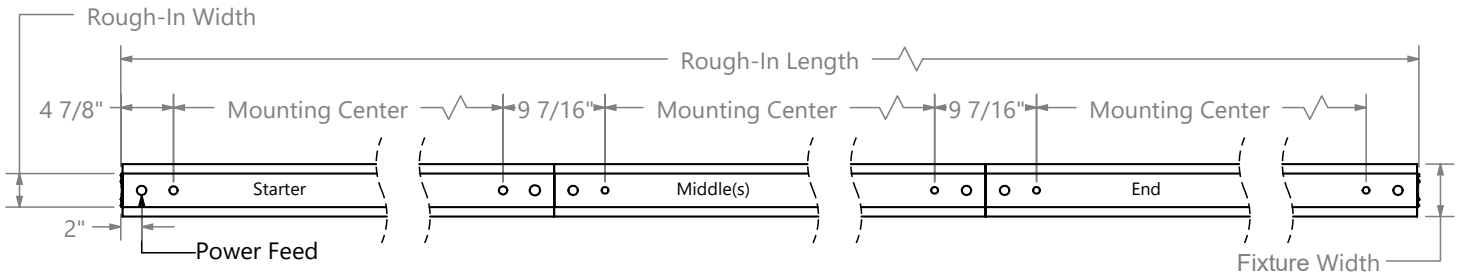


## Mount Spacing: Flange

	3" Nominal
Rough-in Width	3-11/16"
Fixture Width	4-15/16"



### Continuous Row (typical)

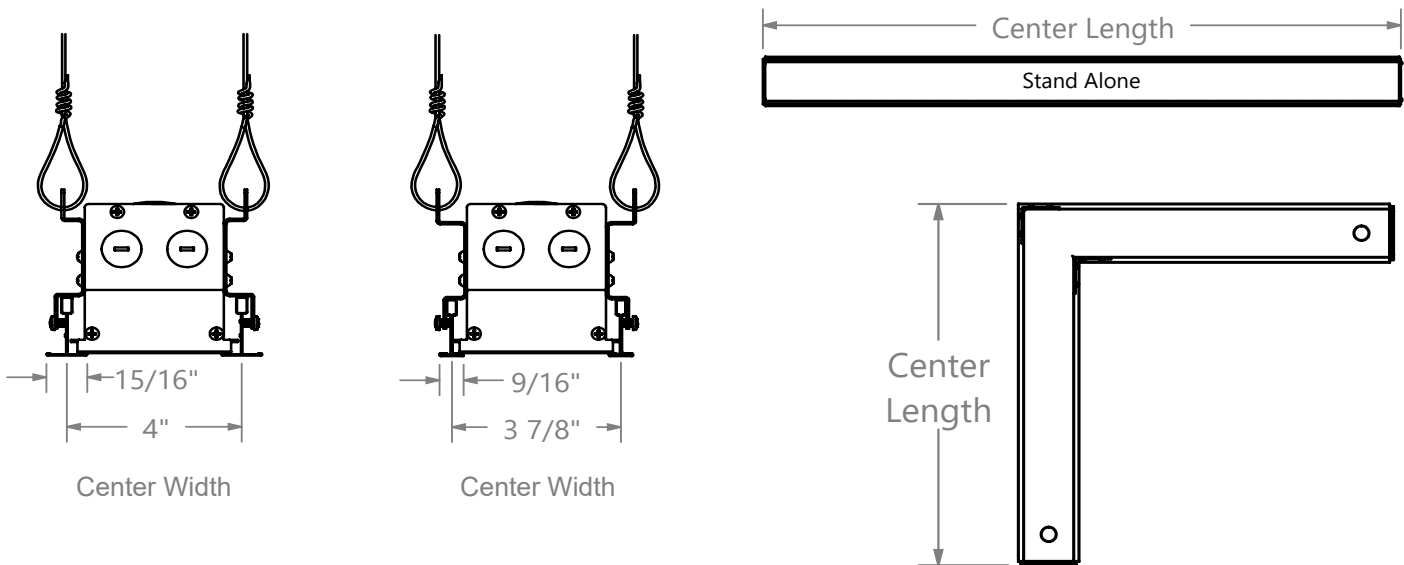


Nominal Length (ft)	Rough-in Length	Mounting Center
2	24-5/16"	14-5/8"
3	36-5/16"	26-5/8"
4	48-5/16"	38-5/8"
5	60-5/16"	50-5/8"
6	72-5/16"	62-5/8"
7	84-5/16"	74-5/8"
8	96-5/16"	86-5/8"
2 [part no. 2CHI]	24-5/16"	*
2 [part no. 2CHO]	27-9/16"	*
Continuous Row	†	-

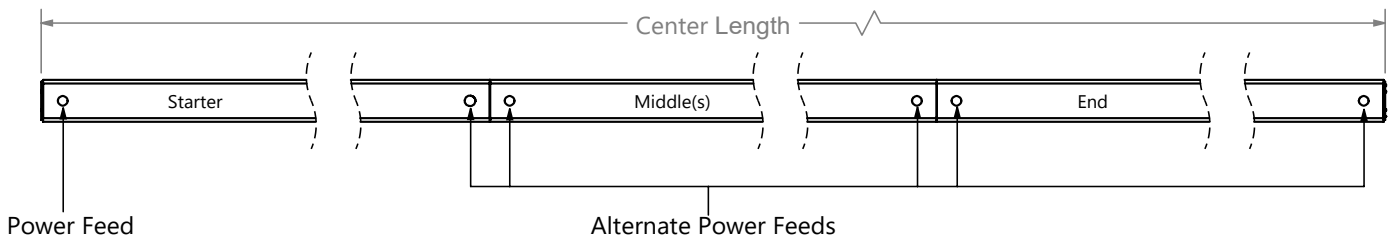
\*For Continuous Runs with Corners, refer to diagram above for conduit access and mounting dimensions.

† For Continuous Row **Rough-In Length**, add Nominal Lengths for all fixtures in run and add 5/16".

## Mount Spacing: T-Grid



Continuous Row (typical)



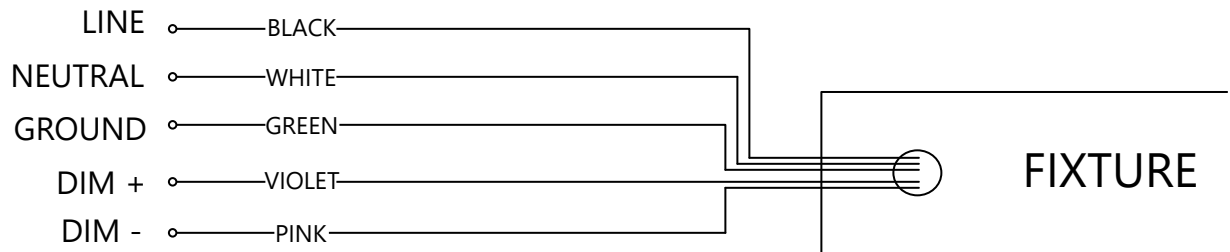
Nominal Length (ft)	Center Length
2	23-3/4"
3	35-3/4"
4	47-3/4"
5	59-3/4"
6	71-3/4"
7	83-3/4"
8	95-3/4"
2 [part no. 2CHI]	23-3/4" (per side)*
2 [part no. 2CHO]	27-3/8" (per side)*
Continuous Row	†

\*For Continuous Runs with Corners, refer to diagram above for dimensions.

† For Continuous Row **Center Length**, add Nominal Lengths for all fixtures in run and subtract 3/8" for each fixture in run.

## Wiring Diagrams

### Standard



### Emergency Driver Backup



### GTD (GENERATOR TRANSFER DEVICE)

