

## Warning

- Carefully read these instructions before assembling and installing the luminaire, to assure its correct and safe working performance.
- Keep these instructions in a safe place for future consultation; contact your distributor in the event of malfunction.
- **Do not modify the luminaire. Modifying the luminaire in any way invalidates the guarantee of conformity with standards and directives in force and it could make the luminaire hazardous. Reggiani is not responsible for any damage or injury due through misuse of product.**
- The luminaire must be installed by qualified experts in accordance with industry best practice.
- System is intended for installation in accordance with National Electric Code, and local regulations. Consult with local inspector to assure compliance.
- As a safety guarantee, any components damaged while the luminaire is operating must be replaced with the same components before it is used again.
- **Turn off power at main switch before installing or modifying the system to prevent the risk of fire, electrical shock and injuries to persons.**
- Warning: (Risk of fire) do not install insulation within 3 inches around fixture, or junction box, or in a manner to entrap heat.

## Mood Installation

### Driver Installation

#### Notes

- Intended for installation in a stable ambient controlled temperature environment, such as an electrical or utility area, with access for serviceability.
- Where non-dimming application is required, dimming driver may be utilized and wired in line to a standard wall switch.
- Requires 3" clearance from any insulation

#### Remote Driver Installation

- Maximum Remote Driver Distance: 60 Ft for 18 Ga wire, 80 Ft for 16 Ga wire, and 100 Ft for 14 Ga wire.
- First remove the knockouts that will be used to bring building wire (VAC) in and to bring low voltage Fixture wiring (VDC) out (Fig 1).
- Next remove the four screws that secure the driver cover plate onto the driver (Fig 1).
- Finally wire driver accordingly using wire nuts. Depending on which driver is being used, wiring on the output of the driver (DC) may be different (Fig 2).
- **If Applicable**, Reggiani Fixtures may be wired in series or parallel back to one LED remote driver. Consult Fixture cutsheet and/or manufacturer to conform and refer to Trim/Trimless Luminaire installation section for wiring.

#### Semi Remote Driver Installation

- In non-IC applications a remote driver may be secured near the Fixture (ex. 1 foot away) if there is access for future driver maintenance. The driver must be accessible via a nearby ceiling access panel, through the aperture of the Fixture (if Trimless), or through the ceiling cutout (if Trim) (Fig 3).

### Trimless Luminaire Installation

- Make the appropriately sized cut out hole in the ceiling (Table 2).
- Pass remote wires through ceiling cut-out, leaving output ends outside of aperture for connection to Fixture (Fig. 4).
- Connect the trim wires and the driver-side wires with wire nuts (or terminal blocks) (Fig. 5).
- If the connection of driver to Fixture is 1 to 1 wire according to diagram 1, if there is more than one Fixture wired to one driver wire according to diagram 2.
- Tuck connected wires back into cut-out.
- Affix mud flange to ceiling with dry wall screws (not supplied) through the flange holes (Fig. 6).
- Apply joint compound and allow to dry, then paint (Fig. 7).

### Trim Luminaire Installation

- Make the appropriately sized cut out hole in the ceiling (Table 2).
- Pass remote wires through ceiling cut-out, leaving output ends outside of aperture for connection to Fixture (Fig. 4).
- Connect the trim wires and the driver-side wires with wire nuts (or terminal blocks) (Fig. 5).
- If the connection of driver to Fixture is 1 to 1 wire according to diagram 1, if there is more than one Fixture wired to one driver wire according to diagram 2.

- Tuck connected wires back into cut-out.
- Place trim in cut out and engage the mounting springs (Table 3).
- Decorative aperture cover plates or reflectors are held in place by magnets and or friction “O” rings.

## General Information

### Wiring

- The driver supplied with the LED luminaire is specially designed to maximize performance. Unless the Reggiani engineering department issues specific authorization, use of other drivers is prohibited. The correct wiring sequence is to wire the LED to the DRIVER, then connect the DRIVER to mains power. The LED may be permanently damaged if it is wired to the DRIVER when the DRIVER is connected to the mains power supply.

### Types of Dimming Drivers

#### Phase Cut

- A phase cut driver is wired in line with a phase dimmer and is only available in 120V input.

#### 0-10V

- A 0-10V driver contains two additional wires, usually grey and purple, that are wired to a 0-10V dimmer.

#### DMX

- A DMX driver is suitable for dynamic architectural lighting where quick changes in intensity and color are required.

#### Dali

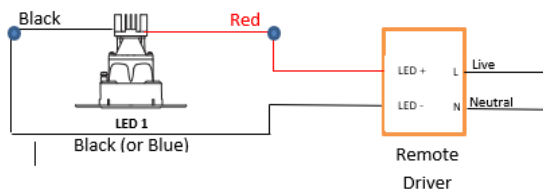
- The luminous flux is dimmed by sending a digital signal through a stranded cable that must be correctly wired to the (D+) and negative (D-) pole of the driver.

#### LED Emergency Lighting

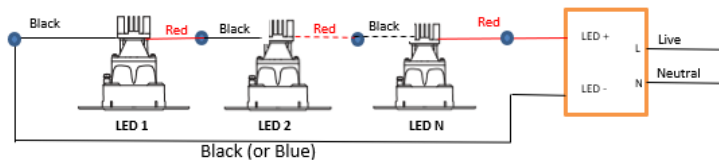
- In order to achieve egress safety requirements Reggiani luminaires may be installed with inverters or LED emergency drivers.

## Figures, Tables, and Diagrams

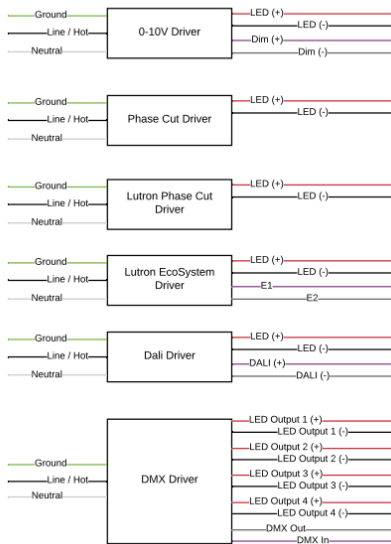
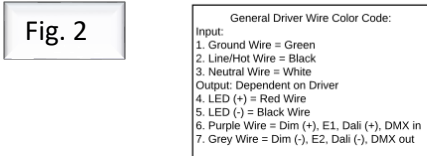
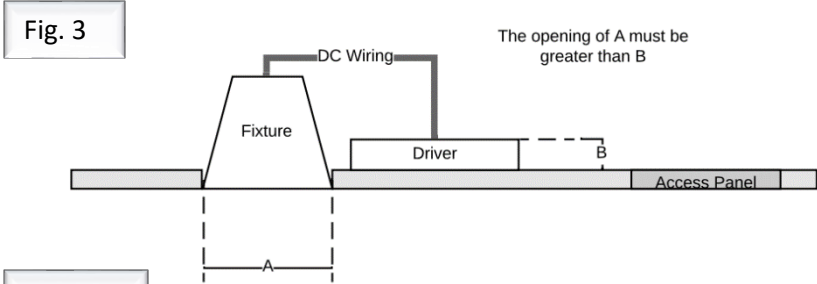
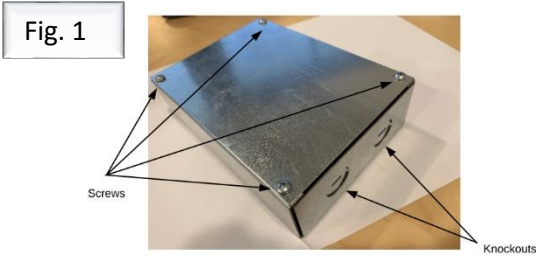
**Diagram 1: Single Fixture to Driver Wiring**



**Diagram 2: Multiple Fixtures (Series) to Driver Wiring**



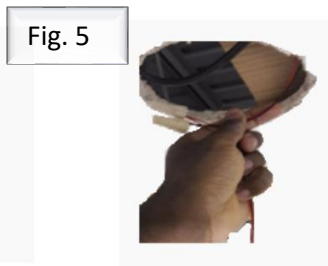
\*\* (Amount of fixtures used per driver may vary, however same layout applies)\*\*



**Table. 2**

**Table 2 – Cut Out Dimensions**

| Size   | Shape  | Type        | Cut-out Diameter | Clips used  |
|--------|--------|-------------|------------------|-------------|
| XSmall | Round  | Fixed       | 1.5"             | Spring Clip |
| XSmall | Square | Fixed       | 1.5"x1.5"        | Spring Clip |
| Small  | Round  | Fixed       | 2.25"            | Spring Clip |
| Small  | Round  | Adjustable  | 2.3"             | Triangle    |
| Small  | Round  | Wall-Washer | 2.5"             | Triangle    |
| Small  | Square | Fixed       | 2.25"x2.25"      | Spring Clip |
| Small  | Square | Adjustable  | 2.25"x2.25"      | Spring Clip |
| Small  | Square | Wall-Washer | 2.5"x2.5"        | Triangle    |



**Table. 3**

**Table 3 – Trim Clip Types**

|                |   |  |
|----------------|---|--|
| Butterfly      | Pull back wings and position into the surface cut-out. Release once luminaire is in place to secure.  |  |
| Screw in Latch | From the front face, insert screw in corner hole. On the reverse side, slide the latch through the hole with the scoop facing up. Slide the nut over the scoop and tighten. |  |
| Screw in Wing  | Remove face plate to expose wing screws, tighten until wings extend from fixture body and are secure.   |  |
| Triangle       | Compress and release to hold fixture with cut out   |  |
| Spring Clips   | Fold up and insert through cut out. <b>Caution! Do not release spring tension until springs are fully in cut-out.</b>   |  |

