

# Field Installable Accessory Kit for LPL

Note: Components shown in images are representative only and may vary based on the configuration ordered.

**The kit is intended for luminaire LPL, manufactured by CURRENT.**

**Le kit est destiné aux luminaires LPL, fabriqué par CURRENT.**



## BEFORE YOU BEGIN

Read these instructions completely and carefully.

### ⚠ WARNING / AVERTISSEMENT

#### RISK OF FIRE OR ELECTRIC SHOCK

- Turn power off before inspection, installation or removal.
- Properly ground electrical enclosure.
- Use only UL approved wires for input and output connections. Minimum size 18AWG (0.75mm<sup>2</sup>).
- LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

#### RISQUES D'INCENDIE OU DE DÉCHARGES ÉLECTRIQUES

- Coupez l'alimentation avant d'inspecter, installer ou déplacer le luminaire.
- Assurez-vous de correctement mettre à la terre le boîtier d'alimentation électrique.
- Utilisez uniquement des fils approuvés UL pour les connexions d'entrée et de sortie. Taille minimale 18AWG (0,75mm<sup>2</sup>).
- L'installation du kit de rénovation LED nécessite une connaissance des systèmes électriques des luminaires. Si vous n'êtes pas qualifié, ne tentez pas l'installation. Contactez un électricien qualifié.
- Installez ce kit uniquement dans des luminaires qui ont les caractéristiques de construction et les dimensions indiquées sur les photographies et/ou les dessins et où la valeur nominale d'entrée du kit de rénovation ne dépasse pas la valeur nominale d'entrée du luminaire.
- Seuls les trous ouverts indiqués sur les photographies et/ou les dessins peuvent être faits ou modifiés à la suite de l'installation du kit. Ne laissez aucun autre trou ouvert dans un boîtier de câbles ou de composants électriques.
- Pour éviter d'endommager le câblage ou de l'abrasion, n'exposez pas le câblage aux bords de la tôle ou à d'autres objets pointus.

## Save These Instructions

Use only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.

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. CAN ICES-005(A)/NMB-005(A)

**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.

## Prepare Electrical Wiring



### Electrical Requirements

- The LED luminaire must be connected to the mains supply according to its ratings on the product label.
- Class 1 wiring should be in accordance with NEC.



### Grounding Instructions

- The grounding and bonding of the overall system shall be done in accordance to local electric code of the country where the luminaire is installed.

## Tools and Components Required

- Screwdriver
- UL Listed conduit connections per NEC/CEC for nominal conduit trade size 1/2" or 3/4"
- UL Listed wire connectors

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

**FCC Radiation Exposure Statement:** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20 cm between the radiator and your body.

**ISED Radiation Exposure Statement:** This equipment complies with RSS-102 radio frequency radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

**Déclaration de mise en garde de la FCC:** Tout changement non expressément autorisé par le fabricant peut annuler l'autorisation d'utiliser cet équipement.

**Déclaration de la FCC sur l'exposition aux radiations:** Cet équipement est conforme aux limites d'exposition aux radiations fixées par la FCC pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre la source de rayonnement et votre corps.

**ISED Déclaration d'exposition aux radiations:** Cet équipement est conforme aux limites d'exposition aux rayonnements radioélectriques RSS-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

**THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.**

**LE KIT DE RETROFIT EST ACCEPTÉ COMME COMPOSANT D'UN LUMINAIRE OÙ LA PERTINENCE DE LA COMBINAISON SERA DÉTERMINÉE PAR LES AUTORITÉS COMPÉTENTES. LE PRODUIT DOIT ÊTRE INSTALLÉ PAR UN ÉLECTRICIEN QUALIFIÉ CONFORMÉMENT AUX CODES ÉLECTRIQUES APPLICABLES ET APPROPRIÉS. LE GUIDE D'INSTALLATION NE REMPLACE PAS LES RÉGLEMENTATIONS LOCALES OU NATIONALES POUR LES INSTALLATIONS ÉLECTRIQUES.**

## ① Disconnecting power

Ensure that the power to the unit be turned off. Use proper lockout / tagout procedures.

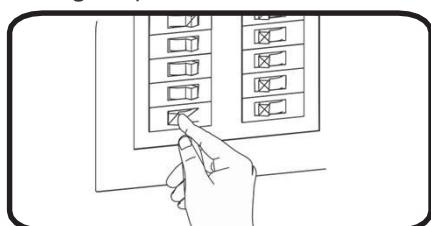
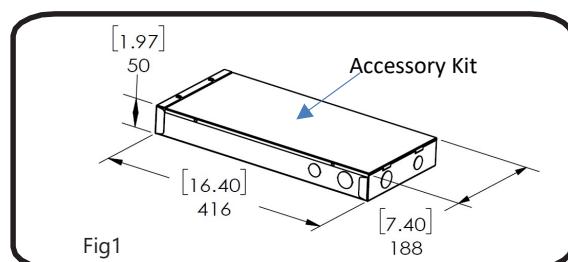


Fig 2



Part identification

## ② Opening KO and getting wires

**For basic version,** remove the screw (on the J-box cover) and open knockout holes ①②.

Take input wires and dimming wires from driver box through knockout holes:

- ① Input wires(L, N), Grounding;
- ② Dimming wires(Violet, Pink) if need dimming function (Optional)

Install the cover back to driver box and fix it with the screw and keep these wires outside of driver box.

See Fig3.

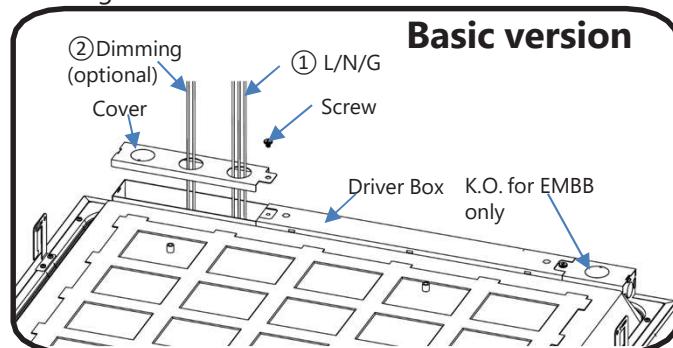


Fig 3

**For sensor version,** remove the screw on the Interface-housing cover, and open knockout hole ③.

Take the long conduit from box and install it and its fitting to hole ③.

Connect L/N/G wires via the connectors.

Install the cover back to Interface-Housing and fix it with the screws.

See Fig 4.

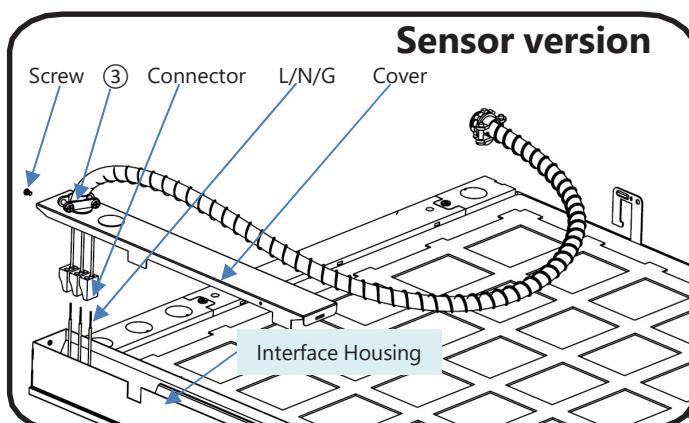


Fig 4

### ③ Opening K.O from box.

Loosen the screws and open cover by sliding it aside, then,

**For basic version**, open knockout holes ④⑤ for wires L/N/G and dimming.

**For sensor version**, open knockout holes ⑥ for wires L/N/G.

**NOTE:** Keep the screws for later use.

See Fig 5.

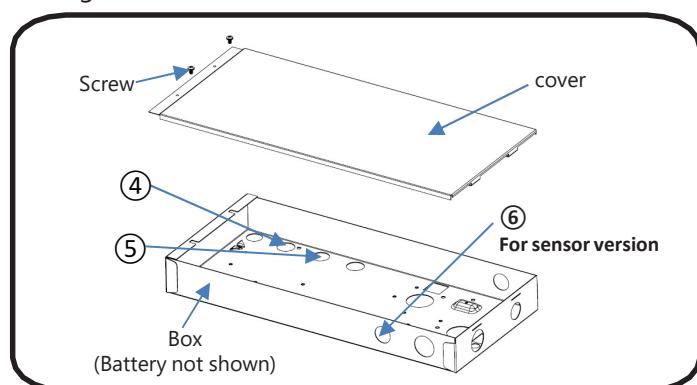


Fig 5

### ④ Cutting wires from LED/Driver

#### Only For EMBB:

Thread 3 wires (yellow, yellow/black, blue) of EMBB battery through the conduit, the fittings.

Open knockout holes ⑦ of Box. Then install the conduit with wires and its fitting to the holes ⑦.

See Fig 6.

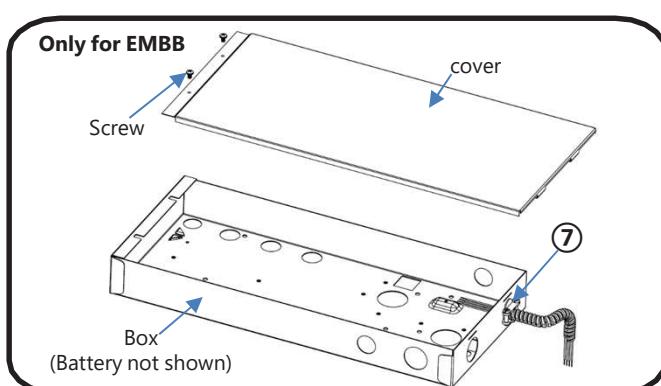


Fig 6

Remove the screw and open the small cover of driver-box, then cut wires at ⑧⑨ places.

⑧ White wires (Driver-/LED-). ⑨ Red wires (Driver+/LED+).

See Fig 7.

**NOTE:** Keep the screws for later use.

**Attention: Don't cut grey wires!**

#### Only for EMBB

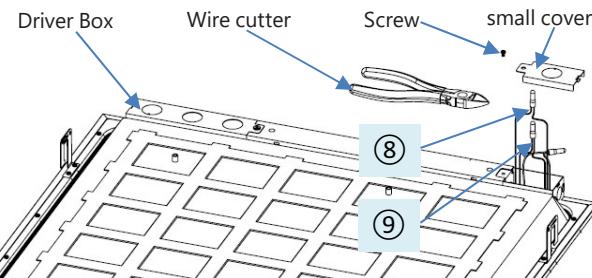


Fig 7

### ⑤ Connecting wires among LED/Driver/Battery

#### Only For EMBB:

**First**, Cut LED wires (red , white ) as step ④ , then strip the wire tips by 10mm.

**Second**, Make wire connection according to the appropriate wiring diagram on pages 5-6 with wire-nuts and lever connector.

**Third**, Fix the fitting of conduit to the cover of compartment. See Fig 8.

**Finally**, Put all wires and connectors back into compartment, then fix the cover back to driver box by tightening the screw.

**Note: Cap all wires with UL listed nuts after wiring connection.**

#### Attentions:

**Make sure EMBB wiring is correct according to the appropriate wiring diagram on pages 5-6, otherwise EMBB function will fail.**

**The test switch must be remote mounted.**

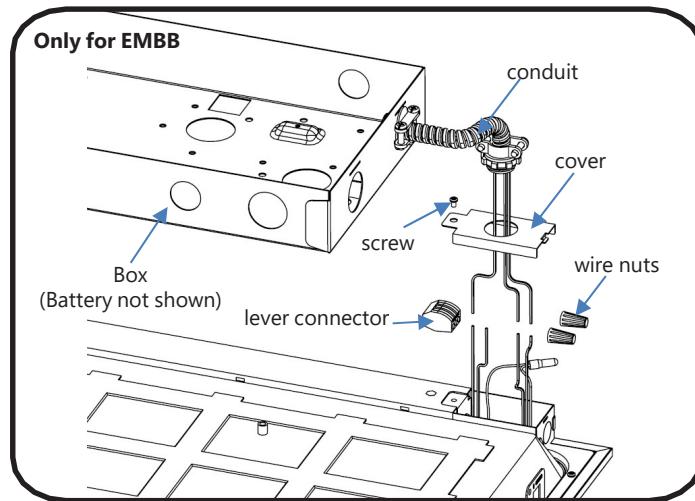


Fig 8

## ⑥ Installing box

Install box onto the back of the luminaire by keeping 2 holes of box matching with 2 nuts pre-placed on the back of luminaire housing.

Align the holes of box with driver box and keep wires through the holes.

Fix box with two M4\*6 screws (M4\*6 screws are in the bag of kit).

**For Basic version**, insert bushing into holes, and keep wires go through them. See Fig 9.

Bushings are in the bag of kit.

**For Sensor version**, install the long conduit and its fittings into holes ⑥ of box. See Fig 10.

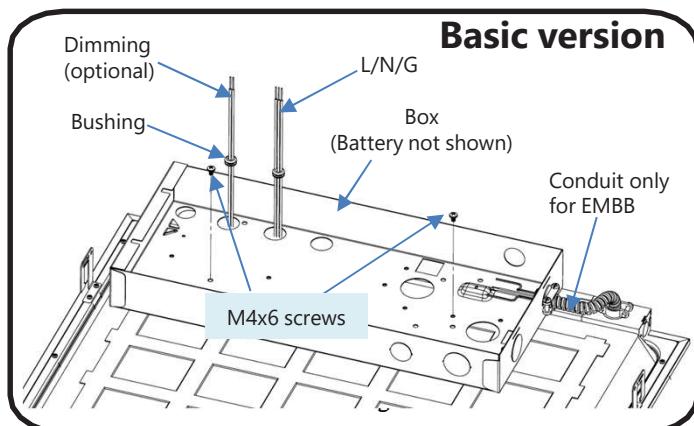


Fig 9

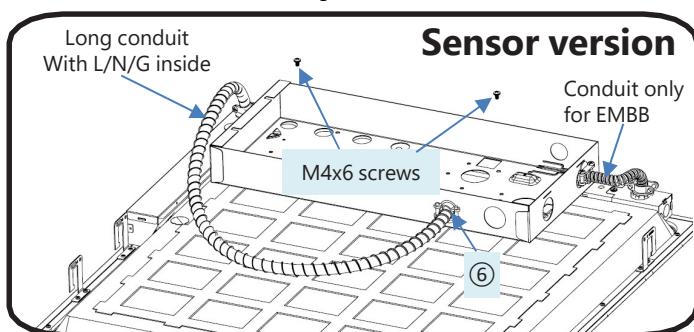


Fig 10

## ⑦ Wire connection of power supply

Install the conduit and its fitting on an appropriate knockout ⑩ or others knockout for power supply. See Fig 11 and Fig 12.

Connect power supply line to components inside the box assembly according to wiring diagram on page 9-10.

Make sure all the electrical wires are connected correctly according to the appropriate wiring diagram on page 9-10

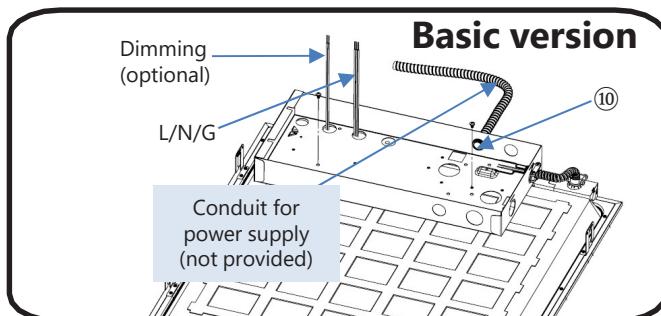


Fig 11

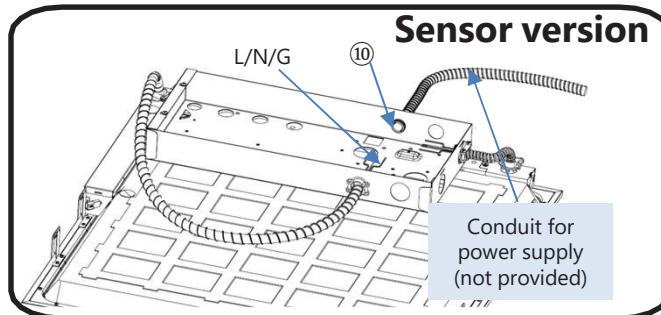


Fig 12

## ⑧ Installing cover

Fix the cover by the screws.

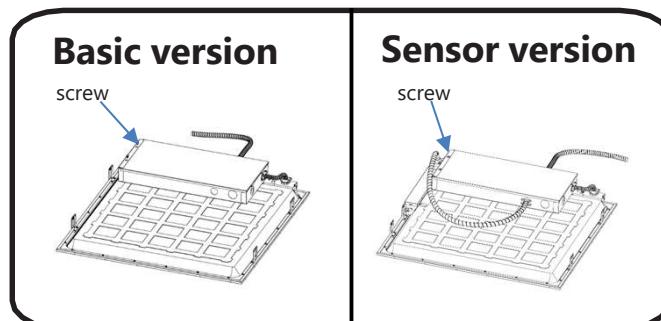
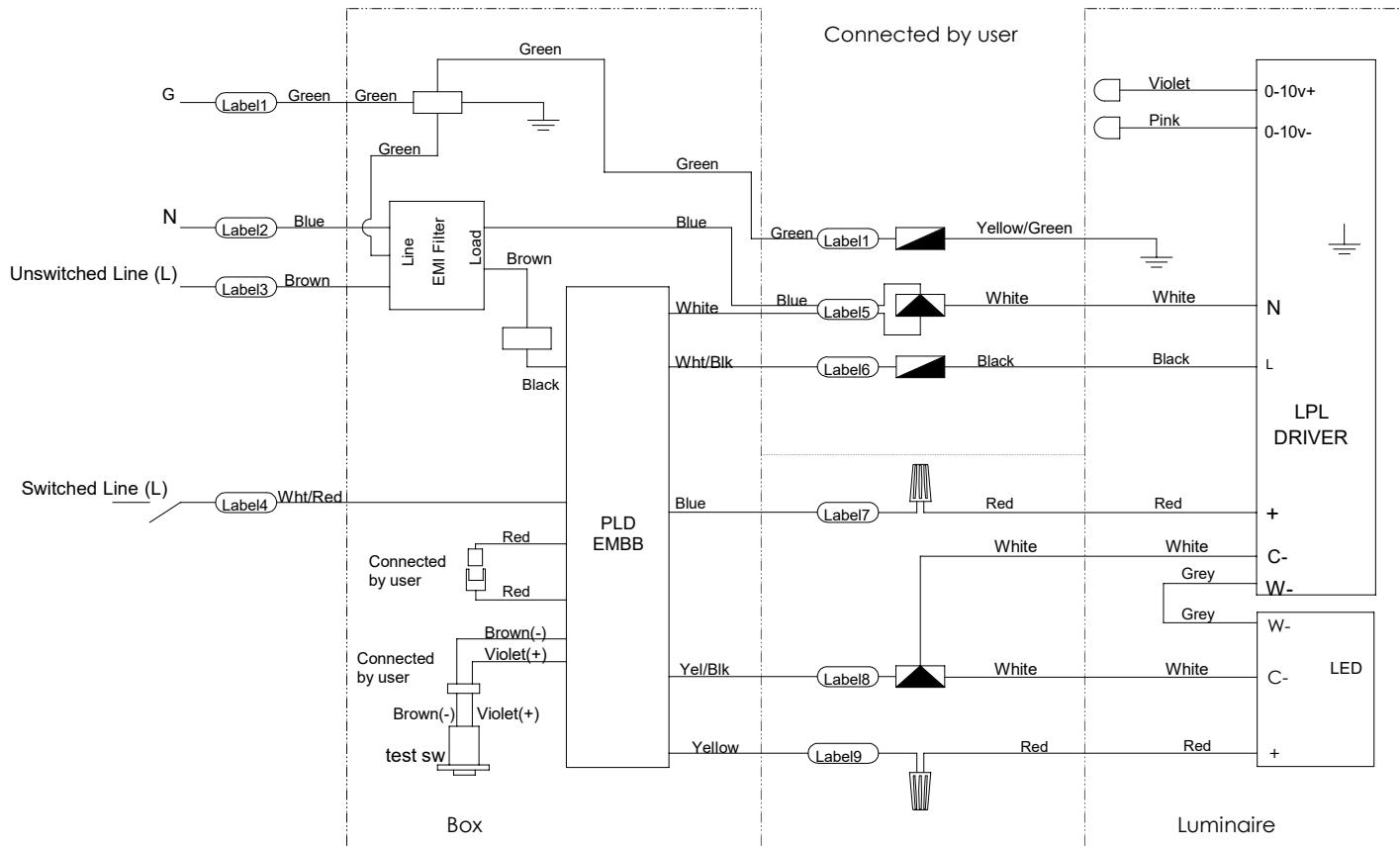


Fig 13

## ⑨ – Wiring Diagram

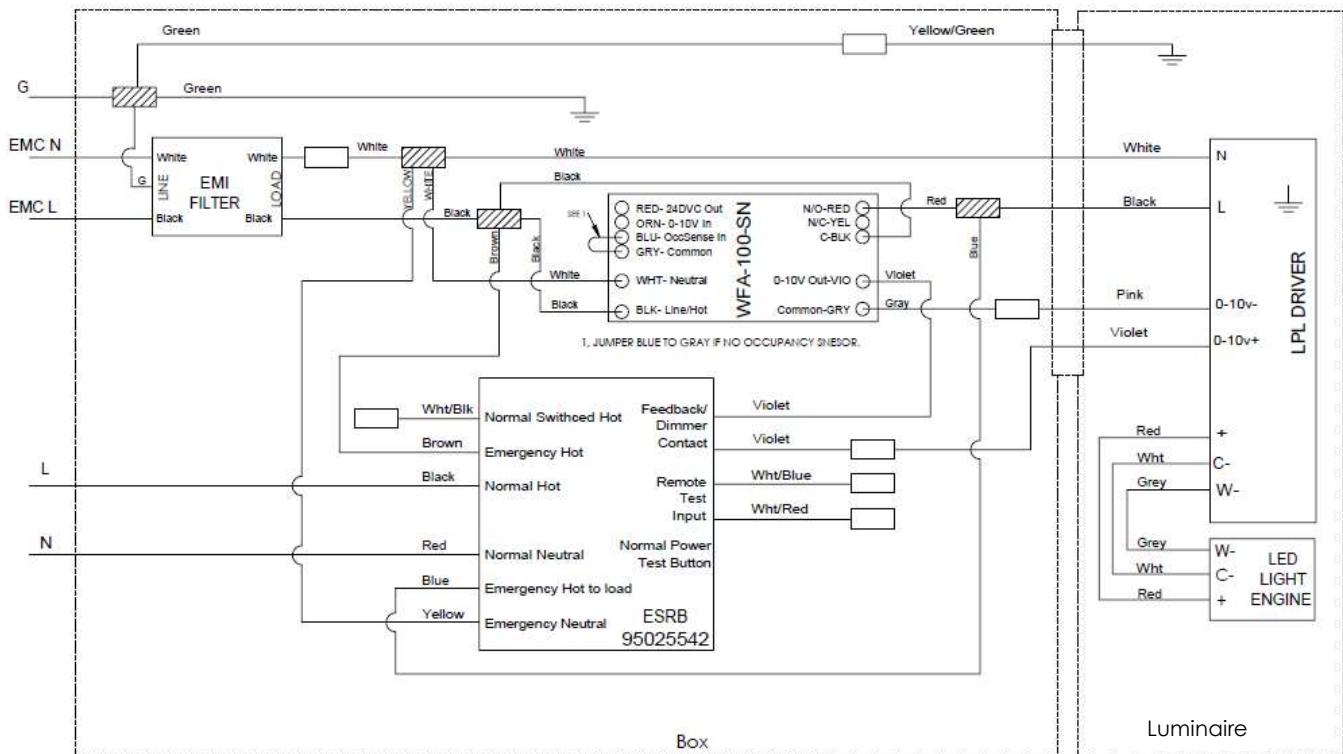
**A, EMBB wiring** ( █ is 2-Port lever connector, ▲ is 3-Port lever connector )



The test switch must be remote mounted.

**NOTE:** For further information refer to PLD EMBB installation instructions by searching for proper model number at <https://www.currentlighting.com/dual-Lite>.

## B, ESRB + WFA100 wiring



## C, 347V wiring

