

MAXLITE RKL LED Retrofit Kit



Description and Intended Use

MaxLite's LED RKL Retrofit Kit Strips are economy level LED replacements for 2'x2' and 2'x4' existing recessed troffers in drop-in ceilings. The Strips can be easily field installed using simple hand tools with minimum modification to the existing housing, avoiding the removal of existing fixtures and associated asbestos abatement. The RKL LED Retrofit Kit Strips is suitable for office, school, hospital and medical facility applications. The retrofit kits are fully dimmable and compatible with building controls, motion sensors, timers, and daylight harvesting systems.



The design of the retrofit kit produces an even, consistent shadowless light. The LEDs enable long life, high lumen maintenance, high CRI, and low maintenance, and are constructed without hazardous materials.

Construction

Twin aluminum carrier angles are added for heat sinking and optic diffusion. Attached are four LED strips, constructed from FR4 resin boards, which are mounted onto the V-bar strips with a 45 degree optic angle of each strip for beam spread.

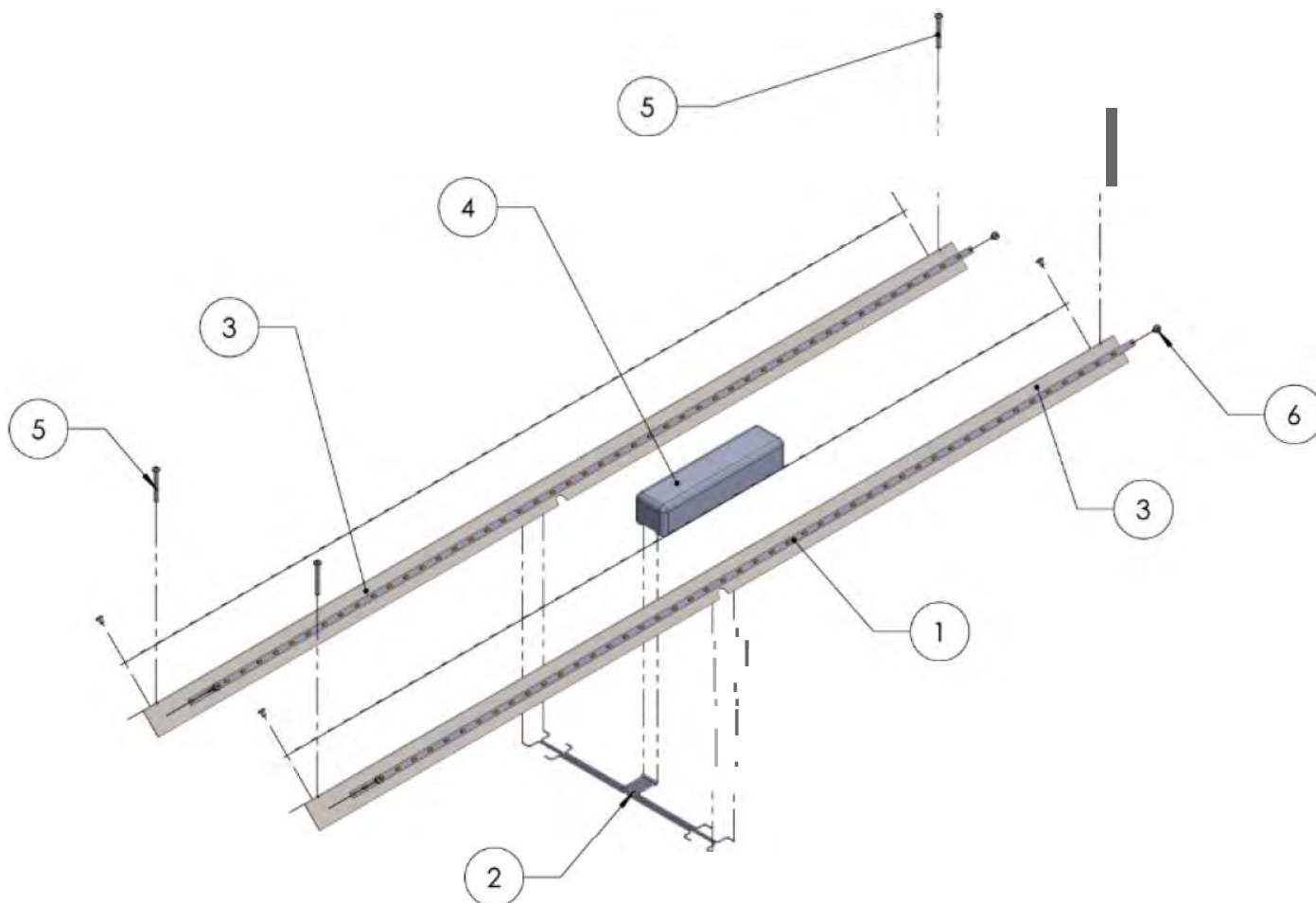
Control

With a standard integrated driver, the retrofit kits operate with a standard 0-10V wall control, (not included) for wall control dimming. Up to 20 retrofit kits can be linked to each master unit.

MAXLITE RKL LED Retrofit Kit



Maxlite RKT LED Retrofit Kit



ITEM NO.	DESCRIPTION	QTY.
1	LED Board	4
2	Wiring Harness	1
3	V-Bar	2
4	LED Driver	1
5	RFK to Fixture Fastner	4
6	LED Board to V-Bar Fastner	8



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General Safety Information

⚠ CAUTION

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Review the diagrams thoroughly before beginning. If you feel you do not have electrical wiring experience, have your fixture installed by a qualified licensed electrician.
3. All electrical connections must be in accordance with local codes, ordinance, and the National Electric Code. If you are unfamiliar with methods of installing electrical wiring, secure the services of a qualified licensed electrician.
4. Before starting the installation, disconnect the power by turning off the circuit breaker or by removing the appropriate fuse at the fuse box. Turning the power off using the light switch is not sufficient to prevent electrical shock.
5. Do not use outdoors.
6. Equipment should be mounted in location and at heights where it will not readily be subject to tampering by unauthorized personnel.
7. Do not use this equipment for other than intended use.
8. All servicing should be performed by qualified personnel only.

⚠ WARNING

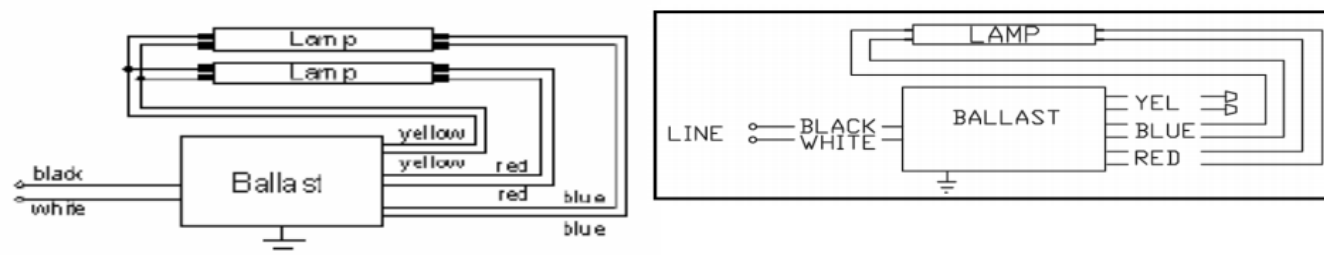
1. WARNING - Risk of fire or electric shock. Install this kit only in the luminaires that has the construction features and dimensions shown in the photographs and/or drawings.
2. WARNING - Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation
3. WARNING - Risk of fire or electric shock. Reflector kit installation requires knowledge of fluorescent lighting luminaires electrical systems. If not qualified, do not attempt installation. Contact qualified electrician.

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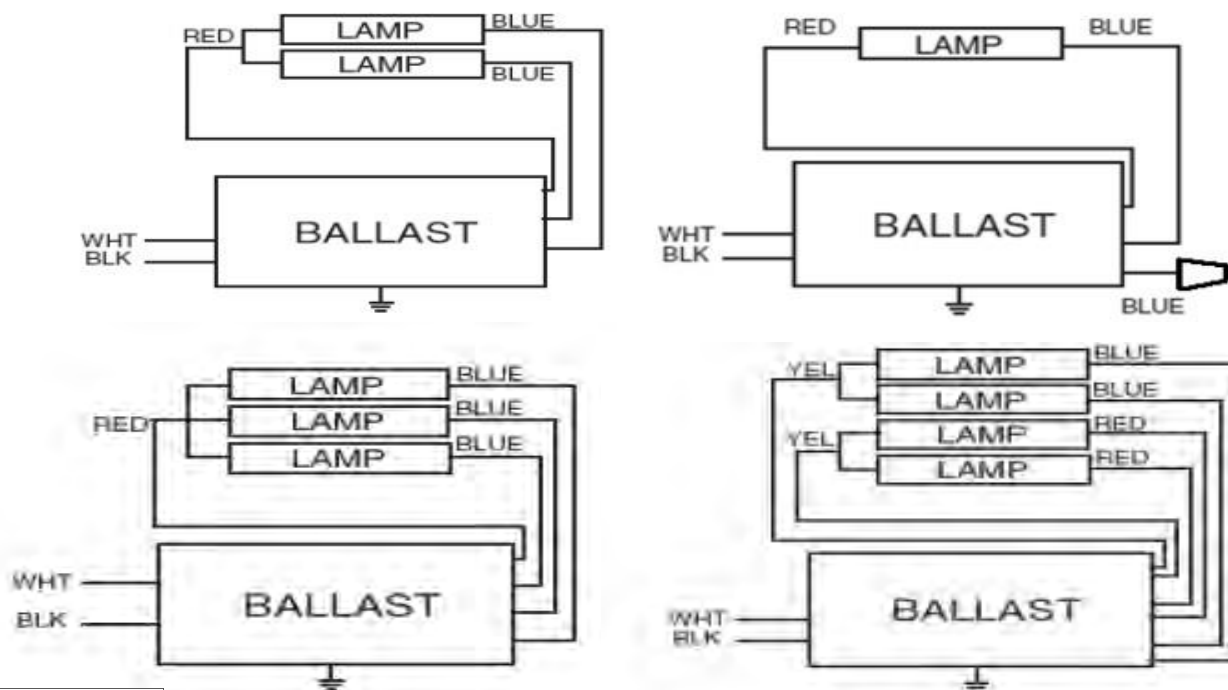


Fluorescent Wiring Diagram

Rapid Start:



Instant Start:



⚠ CAUTION

1. REMOVE WIRING, LAMPHOLDERS, BALLASTS, OR ANY OTHER ELECTRICAL COMPONENTS

ENLEVEY TOUTES LES CONNEXIONS, CABLES , DOUILLE DE LAMPE, BALLAST ET COMPOSANT ELECTRIQUE

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2. MIN LAMP COMPARTMENT DIMENSIONS (SEE PG.1 FOR KIT DIMENSIONS).

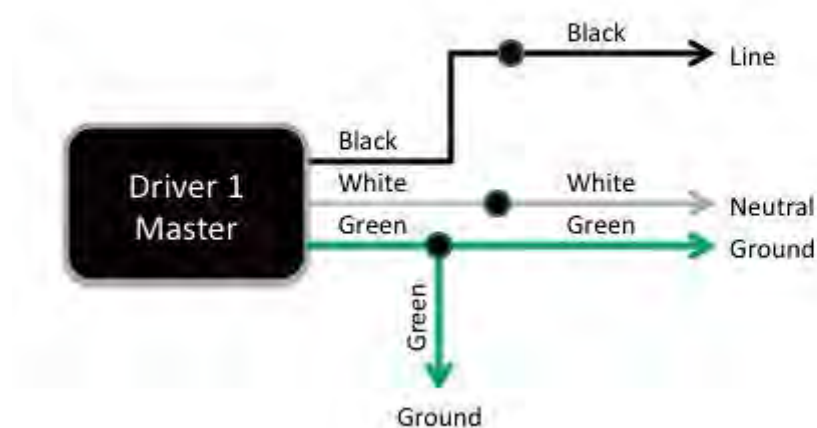
DIMENSIONS DE COMPARTEMENTS DE LAMPE MINIMUM (VOIRE PG.1 POUR DIMENSIONS)

Controls Installation & Operation

▲ WARNING

Disconnect the power before installing or serving.

Retrofit Kit Wiring Diagram



Connecting Retrofit Kits to AC source supply:

▲ WARNING

1. All units must be individually connected to the AC supply (120-277 VAC):
Black = Line
White = Neutral
2. Line connection to be made to switch lead from source.

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▲ CAUTION

INSTALLATION OF THIS RETROFIT ASSEMBLY REQUIRES A PERSON FAMILIAR THE CONSTRUCTION AND OPERATION OF FLUORESCENT LUMINAIRE ELECTRICAL SYSTEMS AND THE HAZARD INVOLVED

CONIFIER L'INSTALLATION DE CE NECESSAIRE DE MODERISATION A UNE PERSONNE CONNAISSANT LA CONSTRUCTION ET LE FONCTIONNEMENT DES INSTALLATIONS D'ECLAIRAGE FLUORESCENT ET CONSCIENTE DES RISQUES QU'ELLES COMPORTENT

UNLESS OTHERWISE INDICATED, DO NOT MAKE OR ALTER ANY OPENINGS IN THE COMPARTMENT OF WIRING OR ELECTRICAL COMPONENTS DURING INSTALLATION OF THIS RETROFIT ASSEMBLY. PLUG ALL UNUSED OPENINGS IN THE COMPARTMENT OF WIRING OR ELECTRICAL COMPONENTS

A MOINS D'INDICATION CONTRAIRE, NE PAS PRATIQUER NI MODIFIER DES OUVERTURES DANS LES COMPARTIMENTS CONTENANT DES CABLES OU DES COMPOSANTS ELECTRIQUES LORS DE L'INSTLLATION DE CE NECESSAIRE DE MODERISATION. BOUCHER TOUTES LES OUVERTURES COMPOSANTS ELECTRIQUES

▲ WARNING

TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS

POUR PREVENIR TOUT DOMMAGE ET USURE, NE PAS EXPOSER LES CIRCUITS AUX BORDS DEL TOLE OU D'AUTTRES OBJET POINTUS.

DISCONNECT THE POWER BY TURNING OFF THE CIRCUIT BREAKER OR BY REMOVING THE APPROPRIATE FUSE AT THE FUSE BOX. TURNING THE POWER OFF USING THE LIGHT SWITCH IS NOT SUFFICIENT TO PREVENT ELECTRICAL SHOCK.

DEBRANCHEZ L'ALIMENTATION EN ETEIGNANT LE DISJONCTEUR OU PAR ENLEVER LE CORRECT FUSIBLE DE LA BOITE A FUSIBLES. ETEIGNER L'ALIMENTATION EN UTILISANT L'INTERRUPTEUR N'EST PAS SUFFISANT OUR PREVENIR TOUT DANGER ELECTRIQUE

THE RETROFIT ASSEMBLY IS ACCEPTED AS A COMPONENT OF A FLUORESCENT LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR AUTHORITIES HAVING JURISDICTION

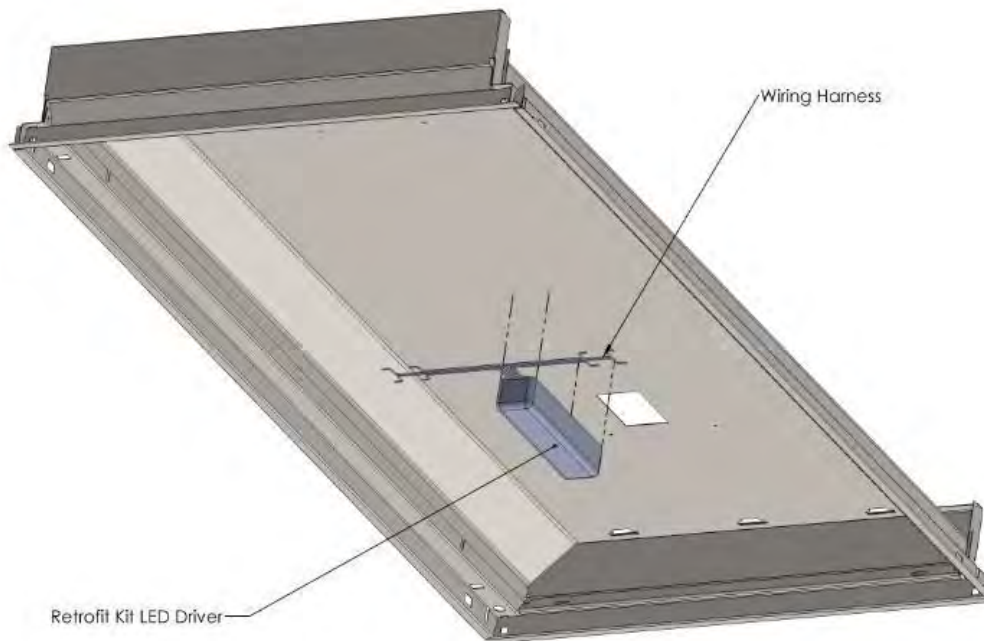
LE NECESSAIRE DE MODERNISATION EST ACCEPTE EN TANT QUE COMPOSANT D'UN LUMINAIRE FLUORESCENT, SOUS RESERVE D'APPROBATION DE L'ENSEMBLE PAR LA CSA OU PAR LES POUVOIRSDE REGLEMENTATION

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Mounting

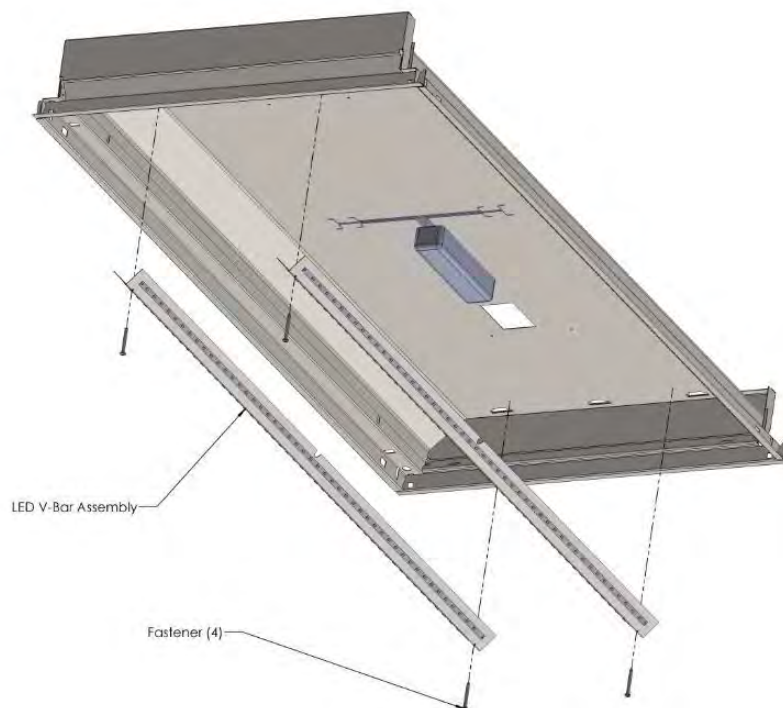
1. Remove diffuser, fluorescent tubes and all other internal components. Remove fluorescent ballast from power wires. Install RKL Driver with wiring harness into drop in ceiling troffer. Please note 2' models do not have wiring harness. Use screw and nuts provided with kit to install the driver.



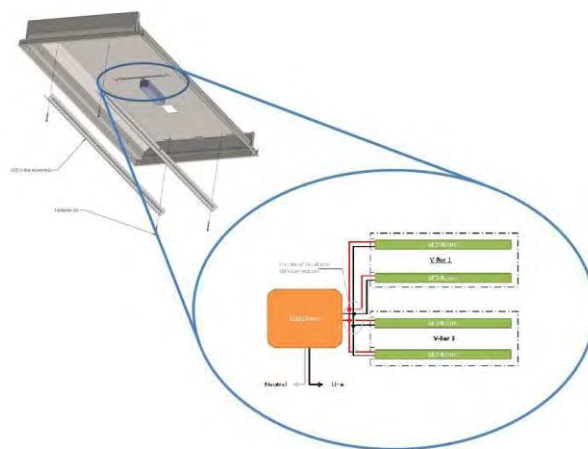
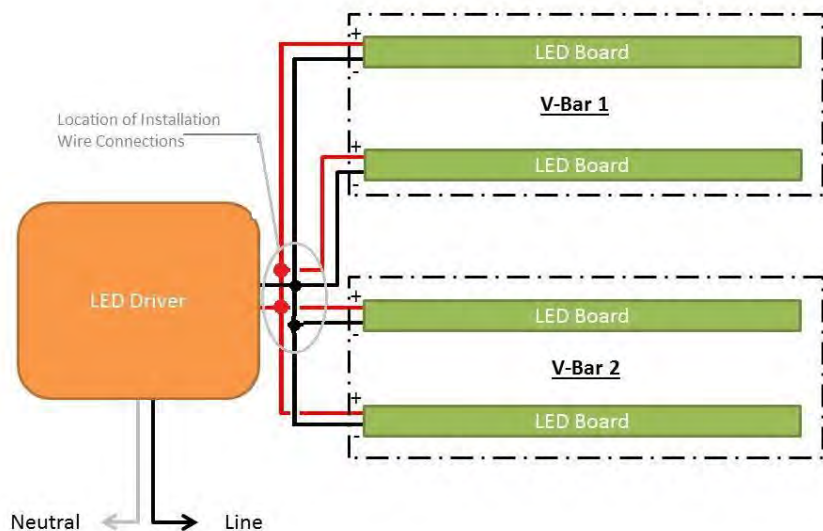
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2. Install the fasteners or self-tapping screws provided with the kit to secure the Retrofit kit to the bottom of existing fixture.



3. After installing the driver, please wire the output terminals of the driver to each RKL Strip as shown below.



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4. Reinstall fixture diffuser.



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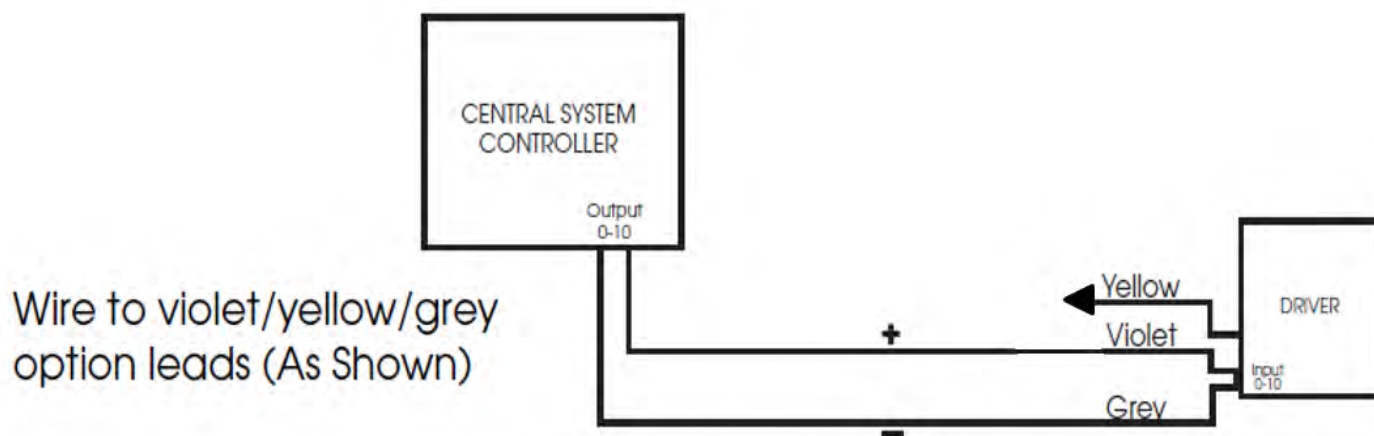
Controls Installation & Operation

⚠ WARNING

Disconnect the power before installing or serving.

Set-up for 0-10V ballast dimmer or building controls & Wall Dimming (0-10V Simple Dimming)

1. Open access cover
2. Follow connection power on page 5.
3. 0-10 connection as shown



Caution: Do NOT connect high voltage to option leads. Permanent damage will occur.

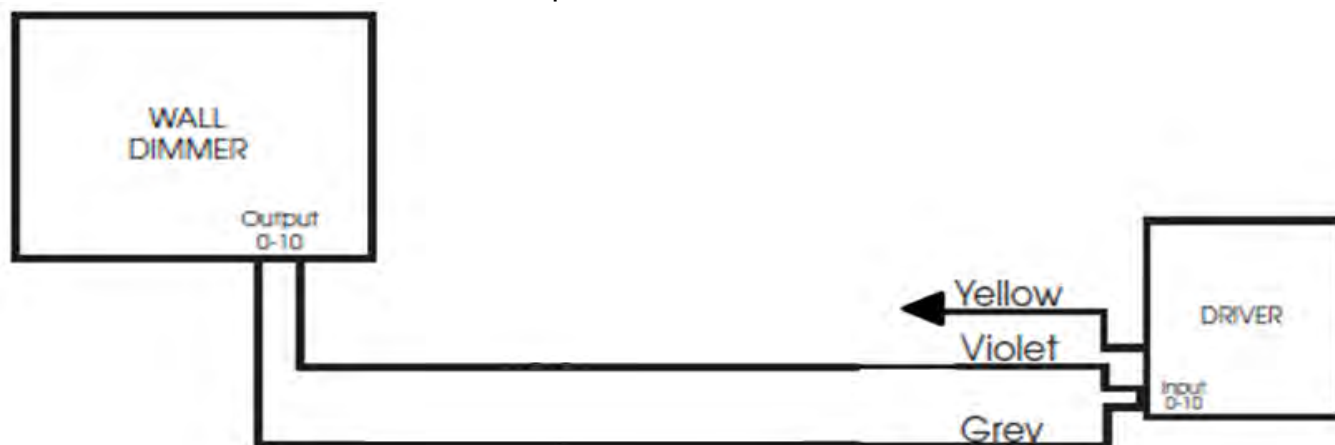
4. Mount retrofit kit and operate.

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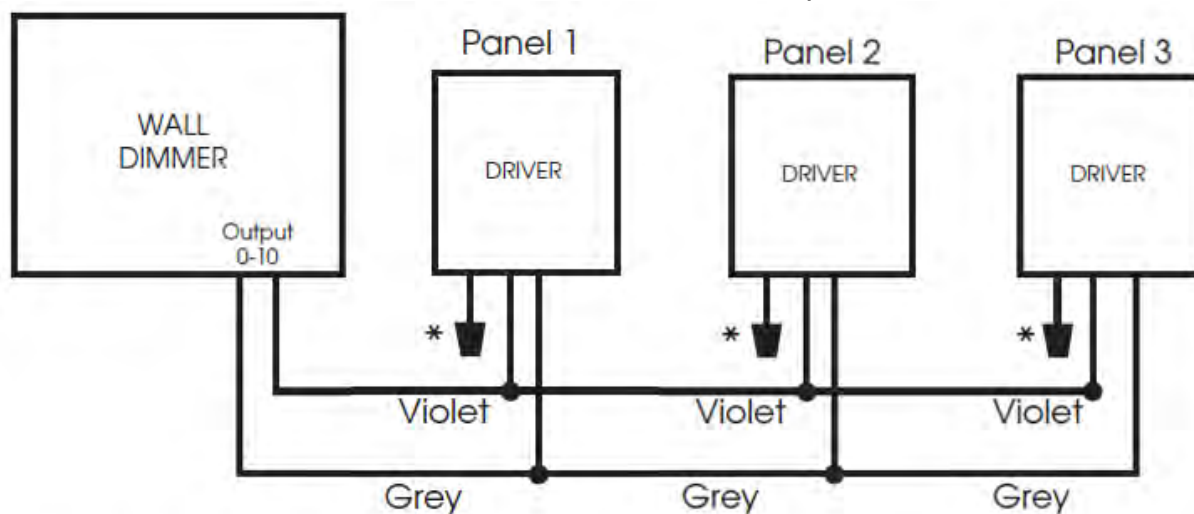


Set-up for linking retrofit kits:

1. Select one of the retrofit kits to be Master unit.
2. Master retrofit kit will have initial 0-10 option connect as shown



3. Connect by linking to option 0-10V input. Violet and grey wires are the 0-10 input wires.
*Caution: Do NOT connect high voltage to option leads. Permanent damage will occur.
4. Continue this for each additional retrofit kit up to 20 retrofit kits.



* Cap off un-used yellow leads

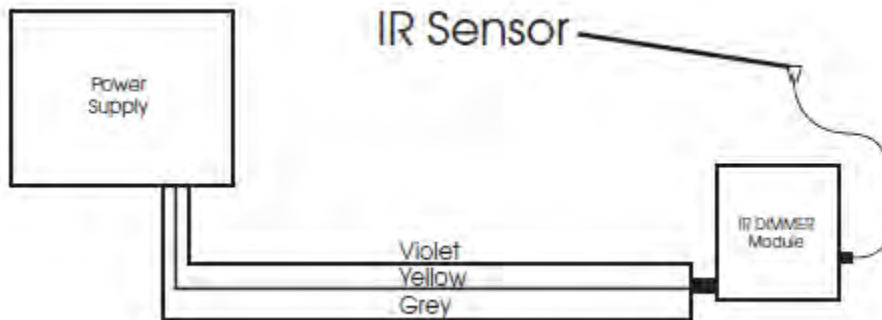
5. Mount retrofit kit and operate.

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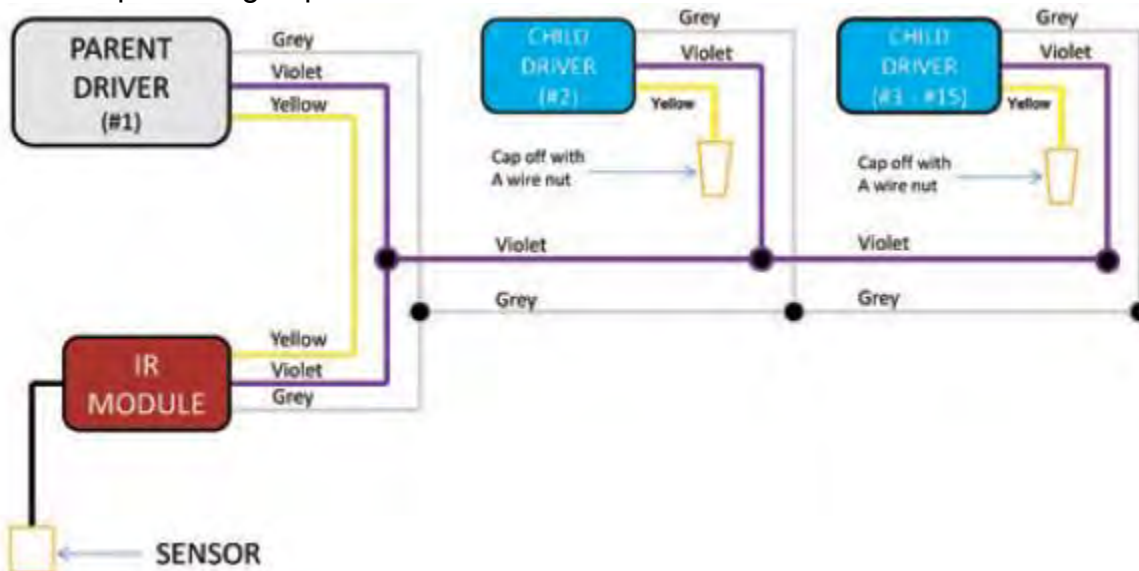


Set-up optional I.R. Remote

1. Open access cover
2. Follow connection power on page 5.
3. Connect option leads from dimmer control to driver violet, yellow, grey



- *Caution: Do NOT connect high voltage to option leads. Permanent damage will occur
4. Connect IR Sensor Cable to Dimmer controller input labelled IR after cover is reinstalled.
- Note: If building control or wall control for linking is used, do not use IR remote.
5. Position IR Sensor so it can be visible to the Remote Controller.
 6. If IR remote is to be used in the wall cradle accessory locate sensor in room.
 7. Multiple linking of panel to IR remote.



Note: The IR sensor must be positioned in close proximity to the remote.

8. Enjoy your new LED retrofit kit.

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Warranty

LIMITED WARRANTY FOR CERTAIN MAXLITE® LED LIGHTING FIXTURES, SPECIFICALLY LED TROFFERS; TROFFER RETROFITS; PANEL LUMINAIRES; DOWNLIGHTS; HIGH BAY; WRAP AND VAPOR TIGHT; PLUG & PLAY LIGHT BARS; EXIT SIGNS.

This limited warranty is provided by the MaxLite company described below ("Seller") to you as the original purchaser of the LED lighting product that is identified on Seller's invoice reflecting its original purchase (the "Product"). The Seller is the MaxLite Company identified as such on the invoice. This limited warranty may be transferred to subsequent purchasers of the Product, provided that such Product is resold in new condition and in its original packaging. Seller warrants that the Product, when delivered in new condition and in its original packaging, will be free of defects in material and workmanship for a period of FIVE (5) YEARS from the date of original purchase or the number of hours used has not exceeded the L70 life stated for each LED fixture. The determination of whether the Product is defective shall be made by Seller in its sole discretion with consideration given to the overall performance of the Product. A Product shall not be considered defective solely as a result of the failure of individual LED components to emit light if the number of inoperable components is less than 10% of the total number of LED components in the Product.

If Seller determines the Product is defective, Seller will elect, in its sole discretion, to refund you the purchase price of the Product, repair the Product or replace the Product. This limited warranty does not apply to loss or damage to the Product caused by: negligence; abuse; misuse; mishandling; improper installation, storage or maintenance; damage due to fire or acts of God; vandalism; civil disturbances; power surges; improper power supply; electrical current fluctuations; corrosive environment installations; induced vibration; harmonic oscillation or resonance associated with movement of air currents around the Product; alteration; accident; failure to follow installation, operating, maintenance or environmental instructions prescribed by Seller or applicable electrical codes; or improper service of the Product performed by someone other than Seller or its authorized service provider. This limited warranty excludes field labor and service charges related to the repair or replacement of the Product. THIS LIMITED WARRANTY IS VOID IF THE PRODUCT IS NOT USED FOR THE PURPOSE FOR WHICH IT IS DESIGNED.

Seller reserves the right to utilize new, reconditioned, refurbished, repaired or remanufactured products or parts in the warranty repair or replacement process. Such products and parts will be comparable in function and performance to an original product or part, as determined by Seller in its sole discretion, and warranted for the remainder of the original warranty period.

In order to make a warranty claim, you must notify Seller in writing within sixty (60) days after your discovery of the defect, provide proof of purchase such as the invoice and comply with Seller's other warranty requirements. Upon receiving that notice, Seller may require you to promptly return the Product to Seller, or its authorized service provider, freight prepaid. Your warranty claim should be addressed to MaxLite, Inc., 12 York Ave. West Caldwell NJ 07006.

This limited warranty only applies to specified LED fixtures. Backup batteries, photocells and other fixture accessories can be found at www.MaxLite.com/lighting/products/warranty.

THE FOREGOING WARRANTY PROVISIONS ARE EXCLUSIVE AND ARE GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY AGAINST INFRINGEMENT AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SELLER BE LIABLE FOR INCIDENTAL, COMPENSATORY, CONSEQUENTIAL, INDIRECT, SPECIAL OR OTHER DAMAGES. SELLER'S AGGREGATE LIABILITY WITH RESPECT TO A DEFECTIVE PRODUCT SHALL IN ANY EVENT BE LIMITED TO THE MONIES PAID TO SELLER FOR THAT DEFECTIVE PRODUCT.

This warranty is effective for purchases of Product on or after the effective date set forth below. Seller reserves the right to modify this warranty from time to time. Any modification of this warranty shall be effective for all orders placed with Seller on or after the effective date of such revised warranty.

Effective Date: June 13, 2014.