


## LLF10, LLF20, LLF30, LLF40, LLF50, LLF60 HID to LED Upgrade Kit

For use in Rough-In Sections 85146 LED Installation Instructions


 **WARNING:** Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.


 **AVERTISSEMENT:** Les appareils doivent être mis à la terre en conformité avec le Code canadien de l'électricité et les codes locaux. Une non-conformité pourrait conduire à des blessures graves.

**KEEP THIS SHEET FOR FUTURE REFERENCE.**

**Tool Required:**  Flat Head Screwdriver  Phillips Screwdriver  1/8" Allen Wrench

**Parts List:** Complete LED Kit (Includes LED's and driver assembly), Screws

**Installation:**  **WARNING:** Make certain all electrical supply is OFF before starting installation or beginning maintenance procedures.

 **AVERTISSEMENT:** S'assurer que toute alimentation possible est COUPÉE avant de commencer l'installation ou l'entretien.



1. Unscrew (4) Allen screws securing door frame.



2. Remove door frame.



3. Unscrew and remove HID lamp.



4. Remove (4) Phillips screws holding reflector in housing



5. Remove reflector



6. Remove (4) Flat Head screws securing ballast tray. Disconnect ballast wiring from line voltage.

**NOTE:** Field upgrade installation follows the same steps as lab assembly shown in these instructions.

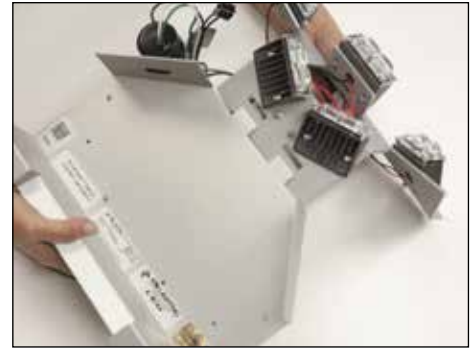
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7. Remove ballast assembly.



8. Begin installation of LED upgrade by connecting electronic driver wiring to line voltage



9. Insert two tabs from driver bracket into LED bracket and place LED assembly into housing.



10. Secure (4) screws holding LED assembly in place



11. Secure door frame with (4) existing screws.

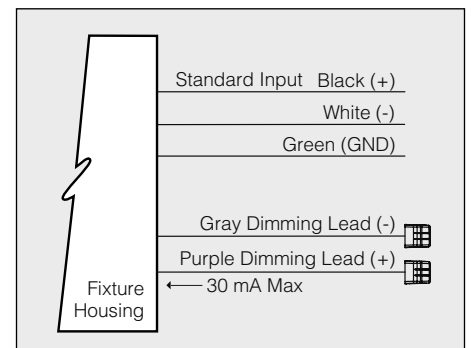
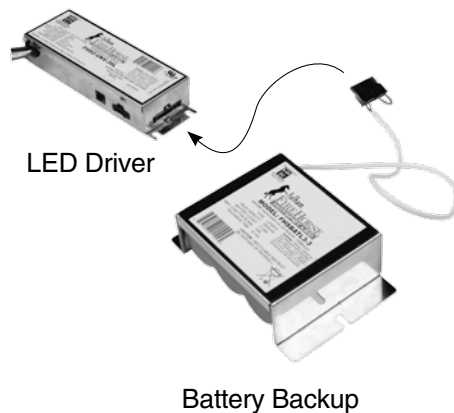


12. Dispose of obsolete magnetic ballast, HID lamp and reflector in an environmentally friendly manner

## OPTIONAL BATTERY BACKUP INSTALLATION:

Connect wire from battery into emergency LED driver before proceeding with installation. Battery packs are pre-installed in factory.

**NOTE:** Upon connection of battery, light may go on if there is a charge.





**0-10V Dimming** – Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.


The Retrofit Kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by CSA or authorities having jurisdiction.


## Installation warnings and cautions for upgrade kits


Avertissements et précautions pour l'installation de kits de mise à niveau.


 **WARNING:** Make certain all electrical supply is OFF before starting installation or beginning maintenance procedures.


 **AVERTISSEMENT:** S'assurer que toute alimentation possible est COUPÉE avant de commencer l'installation ou l'entretien.


 **WARNING:** Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.


 **AVERTISSEMENT:** Les appareils doivent être mis à la terre en conformité avec le Code canadien de l'électricité et les codes locaux. Une non-conformité pourrait conduire à des blessures graves.


 **WARNING:** To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.


 **AVERTISSEMENT:** Pour empêcher l'endommagement ou l'éraflure des fils, empêchez tout contact avec les rebords des parties métalliques.


 **MAINTENANCE:** A regularly scheduled maintenance program should be established to retain optimum light output and reduce heat retention. Dusting with a soft, clean, dry cloth is normally sufficient for the reflector.


 **ENTRETIEN:** Un programme d'entretien régulier devrait être établi pour conserver la luminosité optimale et réduire l'accumulation de chaleur. Un chiffon doux et propre est normalement suffisant pour dépoussiérer le réflecteur optique.

 **NOTE:** All wiring must be done by a qualified electrician.

 **REMARQUE:** Tout le câblage doit être fait par un électricien certifié.


 **CAUTION:** LED fixtures are available in 120 volt input or 277volt input. Please verify before wiring fixture to field wires. (see lamp label to verify).


 **MISE EN GARDE:** Les appareils d'éclairage à DEL sont offerts pour alimentation à 120 V ou 277 V. Veuillez vérifier avant de raccorder (voir l'étiquette de l'appareil pour confirmer).


 **WARNING: RISK OF FIRE OR ELECTRICAL SHOCK.** Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings. Luminaires wiring, power supply, or other electrical parts may be damaged when drilling for installation of retrofit assembly hardware. Inspect all wiring and components for damage.


 **AVERTISSEMENT: DANGER DE CHOC ÉLECTRIQUE OU D'INCENDIE.** N'installez cette trousse que sur les luminaires qui sont construits pour l'accepter et qui ont les dimensions montrées sur les photographies et/ou dessins. Il y


a risque d'endommagement du câblage, du bloc d'alimentation ou d'autres parties lors du perçage pour installer la quincaillerie pour modification. Vérifiez qu'aucun dommage aux fils ou composants n'a été fait.


 **CAUTION:** Unless otherwise specified, 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.


 **ATTENTION:** Pour cette modification, ne pas percer ou modifier toute ouverture du compartiment de connexion des câbles ou celui des composants électriques sauf si clairement indiqué dans une autre directive. Bouchez toutes les ouvertures du compartiment de connexion ou des composants électriques qui ne sont pas utilisées.


 **CAUTION:** Only the 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.


 **ATTENTION:** Seuls les trous indiqués dans les photographies et/ou les dessins peuvent être percés ou modifiés pour installer la présente tousse. Les compartiments de connexion ou des composants électriques ne doivent comprendre aucune ouverture non obstruée autre que celles requises au câblage.


 **CAUTION:** Installation of this retrofit assembly requires a person familiar with the construction and operation of LED luminaire electrical systems and the hazards involved

 **ATTENTION:** installation de ce nécessaire de modernisation a une personne connaissant la construction et le fonctionemnet des installations d eclairege fluorescent et consciente des risques qu elles comportent.

 **CAUTION:** Do not alter, relocate, or remove wiring, lampholders, ballasts, or any other electrical components.

 **ATTENTION:** Ne pas modifier, déplacer ni enlever de cable, de douille de lampe, de ballast ou autre composant électrique.

 **WARNING:** The H.I.D./Fluorescent fixtures utilizes a lamp that may contain mercury. For information on disposal of lamp go to website: [www.lamprecycle.org](http://www.lamprecycle.org).

 **AVERTISSEMENT:** Les appareils d'éclairage à décharge à haute intensité ou à fluorescents peuvent contenir du mercure. Pour l'information de disposition des ampoules/tubes, visitez le site Web: [www.lamprecycle.org](http://www.lamprecycle.org).

**CONSERVER LA PRÉSENTE FEUILLE POUR RÉFÉRENCE ULTÉRIEURE.**

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## KIM LIGHTING LIMITED WARRANTY

When installed in accordance with Kim Installation Instructions and accepted trade practices, the following shall apply:

### General Product Limited Warranty Coverage

All material and component parts used in the manufacture of Kim Products, are warranted to be free from defects of material and/or workmanship for a period of 1 year from date of sale, with the following exceptions:

### Auxiliary Equipment

All auxiliary equipment (such as lamps, ballasts, and transformers) provided by and/or included in Kim Products shall carry the component manufacturer's warranty.

### Copper and Bronze Landscape Components

Copper and Bronze Landscape fixture components shall be warranted against defects of material and/or workmanship, and failure due to corrosion, for a period of 25 years from date of sale.

### Composite In-Grade Components

Composite In-Grade fixture components installed below grade, shall be warranted against defects of material and/or workmanship, and failure due to corrosion, for a period of 7 years from date of sale.

### Aluminum Landscape Components

Aluminum Landscape fixture components not in direct contact with soil, shall be warranted against defects of material and/or workmanship for a period of 3 years from date of sale. Aluminum fixture components in direct contact with soil shall be warranted from defects of material and failure from corrosion for a period of 1 year from date of sale.

### Limit of Liability and General Conditions

Only products which are installed, used and maintained in accordance with applicable Kim instructions, specifications and accepted trade practices, are covered by the Kim Warranty. During the warranty period, with proof of purchase, Kim will repair or replace with the same or similar product, at Kim's option, without charge. Labor costs are the owner's responsibility and are excluded from this warranty. This warranty is void if the product is modified, tampered with, misapplied, poorly installed, improperly maintained, or subjected to abnormal conditions.

Repair or replacement as provided under this warranty is the exclusive remedy of the purchaser. This warranty is in lieu of all other warranties, expressed or implied, including any implied warranty of fitness for a particular application. Kim Lighting shall not be liable to the purchaser for indirect or consequential damages.

How may we serve you better?

Please let us know. Visit our website at [www.kimlighting.com](http://www.kimlighting.com)

Your concerns are important to us.