

Lumination® LED Luminaire

EMBB Retrofit

(LRX Series - LRXEMBBKIT07HE/LRXEMBBKIT07/LRXEMBBKIT10)



BEFORE YOU BEGIN / AVANT DE COMMENCER

Read these instructions and IOTA ILB-CP instruction manual completely and carefully.
Wear work gloves to prevent dirt and oil from being transferred to the luminaire.



IMPORTANT SAFEGUARDS / MESURES DE SÉCURITÉ IMPORTANTES

- Turn power off before inspection, installation or removal.
- Install this kit only in the luminaires that has the construction features and dimensions shown in the photographs and /or drawings.
- Installation of this retrofit assembly requires a person familiar with the construction and operation of the luminaire's electrical system and the hazard involved. If not qualified, do not attempt installation. Contact a qualified electrician.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- To prevent electrical shock, do not mate unit connector until installation is complete and A.C. power is supplied to the unit.
- This kit provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency sources by turning off the A.C. branch circuit and by disconnecting the unit connector.
- Battery is a sealed unit. Components are not replaceable. Replace the entire unit when necessary.
- Installation and servicing should be performed by qualified personnel only. De-energize before opening.
- The kit is for use with grounded LED luminaires listed to UL standards. Not for use in heated air outlets or hazardous locations.
- The kit requires an unswitched A.C. power source of 120 to 277 volts, 50/60Hz.
- Do not mount near gas or electric heaters.
- The use of accessory equipment not recommended by manufacturer may cause unsafe condition.
- The kit should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The kit and frame will supply output listed as bellowing for 90 minutes.
- For use in 0°C minimum, 40°C maximum ambient temperatures.
- Do not use this equipment for other than intended use.
- Install in accordance with the National Electrical Code and local regulations.
- Lighting fixture manufactures, electricians, and endusers need to ensure product system compatibilit before final installation.
- Couper l'alimentation avant l'inspection, l'installation ou d'effectuer de la maintenance.
- Installer cette trousse seulement avec des luminaires possédant les caractéristiques et dimensions montrées dans les photographies et / ou dessins.
- L'installation de cet assemblage rétro-fit requière une personne familière avec la construction et les modes d'opérations du système électrique du luminaire ainsi que la connaissance des dangers inhérents à ce type d'installation. Ne pas installer si non qualifié, contacter plutôt un électricien qualifié.
- Pour prévenir les dégâts ou l'abrasion du câblage électrique, éloigné ceux-ci des rebords de métal et autre objets tranchants.
- Ne pas perforer ou altérer le boîtier électrique ou tout autres composantes durant l'installation de la trousse.
- Pour prévenir les chocs électriques, ne pas connecter le connecteur de l'unité de la batterie avant que l'installation ne soit complétée et que le C.A. ne soit fourni à l'unité.
- Cette trousse fournie plus d'une source de sortie d'alimentation. Pour réduire les risques d'électrocution, déconnecter toutes les sources de courant en débranchant le C.A. de la dérivation et aussi en déconnectant le connecteur de l'unité de la batterie.
- La batterie est une unité scellée dont les composantes ne sont pas remplaçables. Remplacer l'unité entière lorsque nécessaire.
- L'installation et la maintenance doivent être effectuée par du personnel qualifié seulement. Couper la tension avant de procéder.
- Cette trousse a été conçue pour être utilisé avec des luminaires DEL possédant une mise à la terre et listé sous un standard UL. Ne pas utiliser pour un usage dans un conduit d'air chaud ou dans des emplacements dangereux.
- Cette trousse requière une source d'alimentation en C.A. de 120 à 277 volts sans interrupteur à 50/60Hz.
- L'utilisation d'équipement accessoire non recommandé par le fabricant peut causer des conditions dangereuses.
- Cette trousse devrait être installée dans un emplacement adéquat et à une hauteur appropriée dans le but d'empêcher toute manipulation non autorisée.
- Il y a un risque de chute du luminaire s'il n'est pas installé correctement, suivre les instructions d'installation avec attention.
- Cette trousse et ce châssis fourniront la source lumineuse répertoriée pour 90 minutes.
- Peut-être utilisé à une température ambiante entre 0°C minimum et 40°C maximum.
- Ne pas utiliser cet équipement pour autre chose que pour l'utilisation prévue.
- Installer en conformité avec le code électrique national et la réglementation locale.
- Les fabricants d'appareils d'éclairage, les électriciens et les utilisateurs finaux doivent s'assurer de la compatibilité du produit avant l'installation finale.

**CAUTION / ATTENTION**

- Fixture may fall down if not installed properly, follow installation instructions.
- Wear safety glasses and proper aid during installation and maintenance.
- Use only UL certified copper wire, wire connectors, minimum 18AWG, minimum rated 75°C.
- Porter des lunettes de sécurité et utiliser des outils adéquats durant l'installation et la maintenance.
- Utiliser seulement du câblage de cuivre classé 75°C et approuvé par UL pour les connexions d'entrées et de sorties.
- Utiliser des conducteurs de grosseur 18AWG minimum ou de grosseur 14AWG dans le cas de montage en rangée continue.

Save These Instructions

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

NOTE: LRXEMBBKIT07HE, LRXEMBBKIT07 and LRXEMBBKIT10 are suitable for wet locations and are intended for covered ceiling installation only. The retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by UL or authorities having jurisdiction.

Wear work gloves to prevent dirt and oil from being transferred to the luminaire.

Kit vs Fixture

LRXR EMBB Fixture SAP Description	LRXR EMBB Frame Kit SAP Description	LRXS EMBB Fixture SAP Description	LRXS EMBB Frame Kit SAP Description
LRXR410ABBCCEL	LRXEMBBKIT07HE	LRXS410ABBCCEL	LRXEMBBKIT07HE
LRXR610ABBCCEL	FRAME6REL07	LRXS610ABBCCEL	FRAME6SEL07
LRXR618ABBCCEL	FRAME6REL10	LRXS618ABBCCEL	FRAME6SEL10
LRXR618ABBCCEL	FRAME6REL10	LRXS618ABBCCEL	FRAME6SEL10
LRXR810ABBCCEL	FRAME8REL07	LRXS810ABBCCEL	FRAME8SEL07
LRXR818ABBCCEL	FRAME8REL10	LRXS818ABBCCEL	FRAME8SEL10
LRXR830ABBCCEL	FRAME8REL10	LRXS830ABBCCEL	FRAME8SEL10
LRXR840ABBCCEL		LRXS840ABBCCEL	

Nomenclature for LRX Series:

I - "A" Denotes color rendering index (CRI)

8 - 80

9 - 90

II - "BB" Denotes correlated color temperature (CCT)

27 - 2700K

30 - 3000K

35 - 3500K

40 - 4000K

50 - 5000K

• LRXEMBBKIT07HE shall be mounted Max. 20.11 ft (6.12 m)

• LRXEMBBKIT07 shall be mounted Max. 22.71ft (6.92m)

• LRXEMBBKIT10 shall be mounted Max. 25.99ft (7.92m)

III - "CC" Denotes dimming type

MD - 0-10V Dimming

PH - Phase cut Dimming

Thickness of ceiling is listed below:

LRXREL Fixture SAP Description	Thickness of Ceiling Max.(mm)	LRXSEL Fixture SAP Description	Thickness of Ceiling Max.(mm)
LRXR410ABBCCEL	15	LRXS410ABBCCEL	15
LRXR610ABBCCEL		LRXS610ABBCCEL	
LRXR618ABBCCEL		LRXS618ABBCCEL	
LRXR618ABBCCEL	20	LRXS618ABBCCEL	20
LRXR810ABBCCEL		LRXS810ABBCCEL	
LRXR818ABBCCEL		LRXS818ABBCCEL	
LRXR830ABBCCEL		LRXS830ABBCCEL	
LRXR840ABBCCEL		LRXS840ABBCCEL	

Prepare Electrical Wiring



Electrical Requirements

- The luminaire must be supplied with 120-277 VAC, 50/60 Hz (In 120-277V application).
- Connected to an individual properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker. Use min. 75°C supply conductor.



Grounding Instructions

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

Fixture Requirements

The units covered by this install instruction are intended to retrofit listed surface mounted luminaires, as well as type Non-IC recessed mounted fluorescent type luminaires. Please review Step 1 for an example existing fixture depiction.

Components List

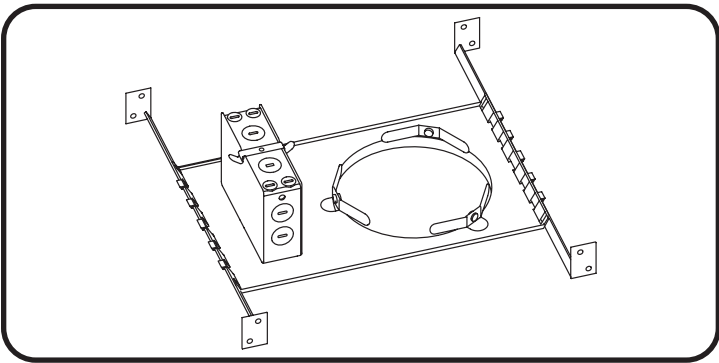
Provided Item	Qty.
1 LRX EMBB Frame Kit	1
2 LRX EMBB Fixture	1

Provided Components

The components have been properly packed to avoid damage during transit. Inspect the components to confirm there is no physical damage. Do not install damaged components.

LRXEMBBKIT07HE/LRXEMBBKIT07/LRXEMBBKIT10 Installation

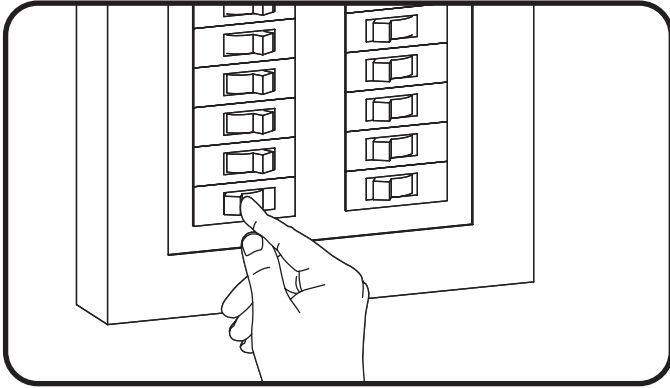
Frame Installation



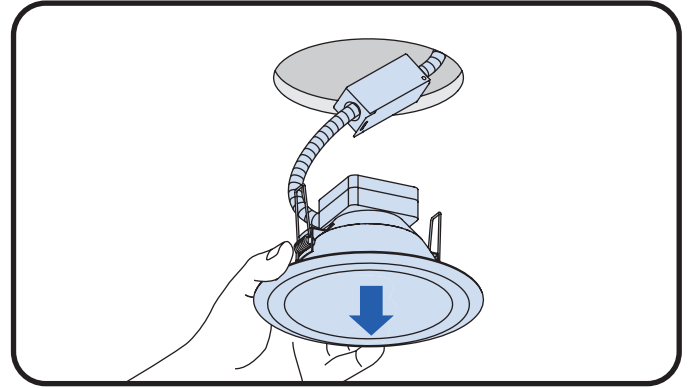
Suitable Frame		Bracket	Hole	Suitable
Size (in.)	Shape	Dimensions (in.)	Size (in.)	Fixture
4	Round	12.60 x 7.64 x 3.54	4.20-5.50	LRXR4xxxxxxx
6	Round	12.60 x 7.64 x 3.54	5.91-6.50	LRXR6xxxxxxx
8	Round	15.55 x 11.34 x 3.54	7.68-8.27	LRXR8xxxxxxx
4	Square	12.60 x 7.64 x 3.54	4.20-5.50	LRXS4xxxxxxx
6	Square	13.35 x 11.34 x 3.54	5.95-7.50	LRXS6xxxxxxx
8	Square	13.35 x 11.34 x 3.54	7.95-9.50	LRXS8xxxxxxx

- 1 Before retrofit, verify that the junction box and bracket in the existing installation are metal and are constructed similarly to the illustration above.

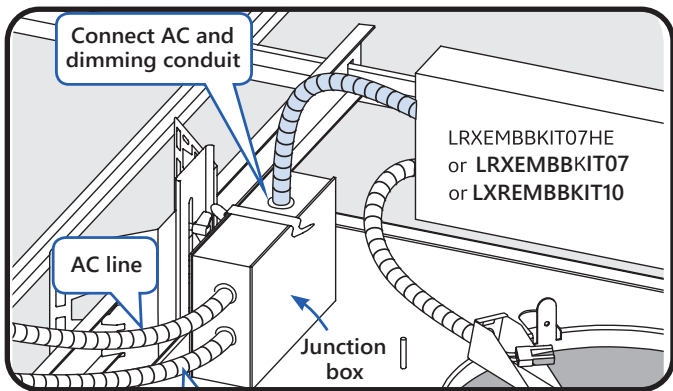
Frame Installation



- ② Ensure that the power to the unit is turned off. Use proper lockout and tagout procedures.



- ③ Remove existing downlight fixture. Leave wiring in Junction box. Verify that the AC supply line is provided with a ground wire connected to the luminaire.

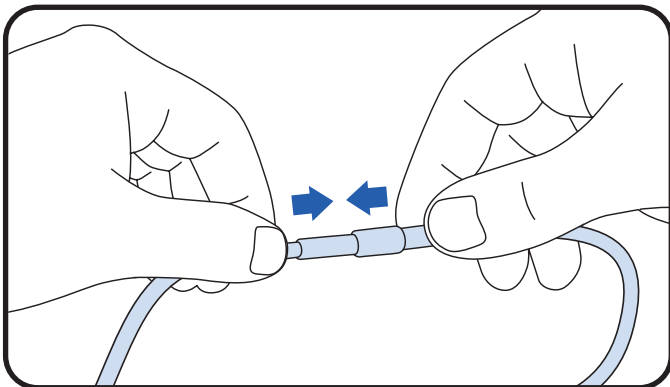


Unswitched Power (L1)	—●—	Black
Common (N)	—●—	White
Switched Power (L2)	—●—	Red
Grounding	—●—	Yellow-Green
Dimming (+)	—●—	Violet
Dimming (-)	—●—	Gray

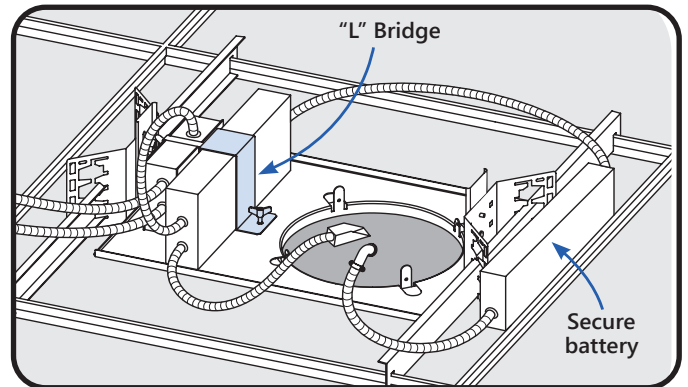
- ④ Connect the conduit for the fixture AC and dimming leads to the junction box. Verify that the AC supply line and dimming leads are connected properly (see wiring diagram).

Note: For phase cut dimming product, dimming leads can be disconnected

- If dimming leads will not be utilized, please do not remove the wire connectors.
- Dimming compatibility for both 0-10V and phase cut, please refer to Current's website: www.LED.com

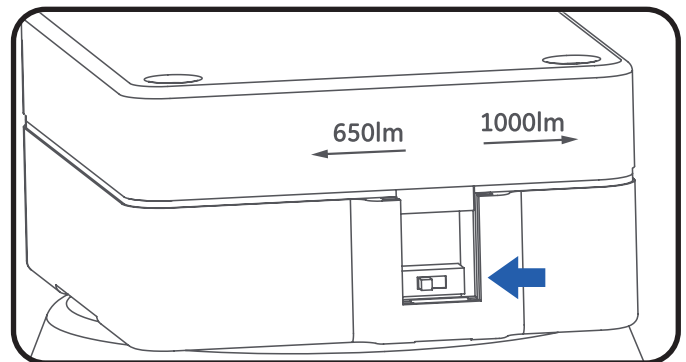
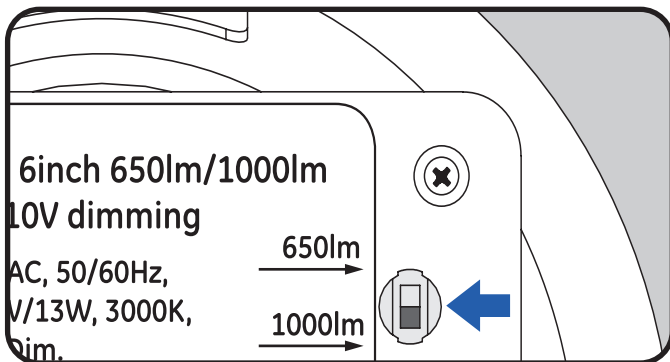


- ⑤ Connect male and female ends of the battery unit connector. Then the battery will discharge. Please refer to the picture shown above.

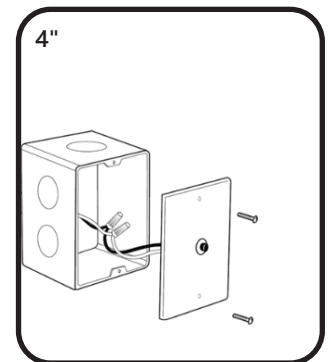
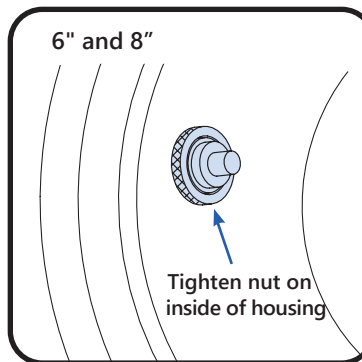
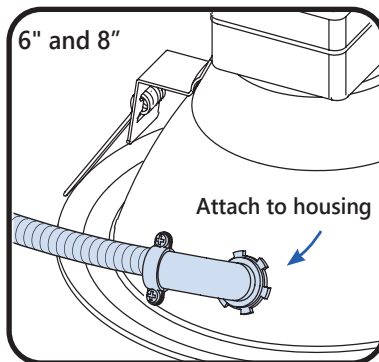
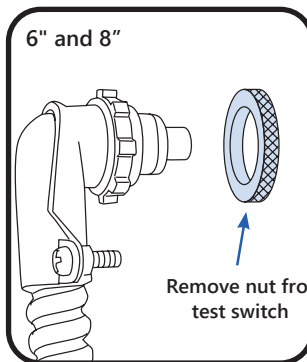


- ⑥ Attach LRXEMBBKIT07HE, LRXEMBBKIT07 or LRXEMBBKIT10 to existing frame with "L" bridge and secure IOTA battery to the ceiling.

Lumens Setting Switch

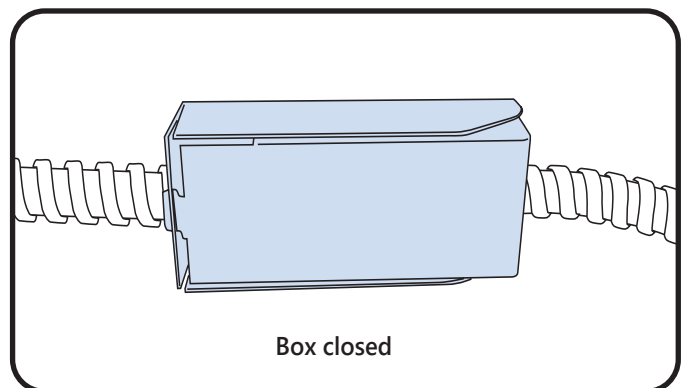
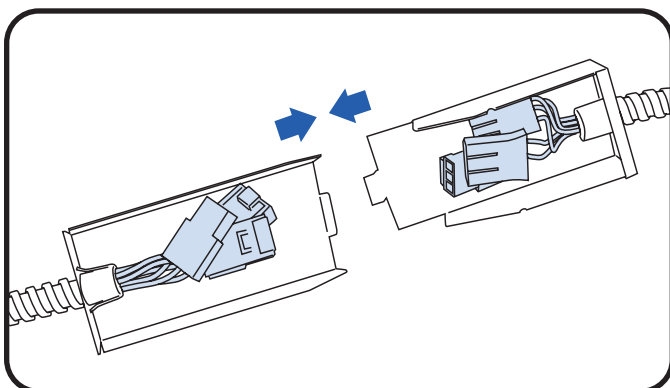


NOTE: For 1000/650lm product, default output lumen is 1000lm. Push switch up or left to activate 650lm. For 4000/3000lm product, default output level is 4000lm.



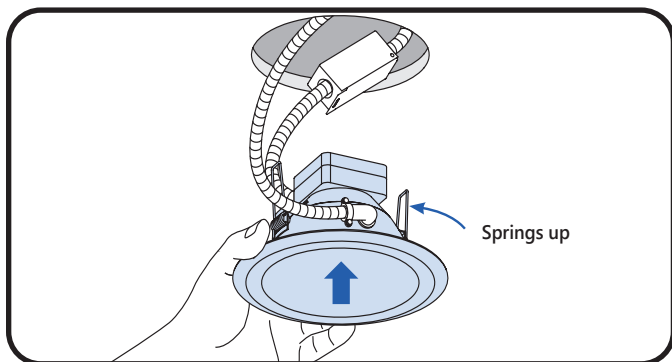
- 7** Attach the test switch to the LRX EMBB fixture or junction box. If the fixture is 6" or 8", first remove the nut from the end of test switch, and put test switch through the hole of fixture, then thread nut to test switch. If the fixture is 4", mount to the junction box and provided flexible conduit for remote mounting of the test switch.

NOTE: For phase cut dimming product, dimming leads (violet and gray wires) are disconnected.



- 8** Connect the quick connector of LRX EMBB fixture and LRXEMBBKIT07 (or LRXEMBBKIT07HE, or LRXEMBBKIT10) and close quick connector box well.

NOTE: For phase cut dimming product, dimming leads (violet and gray wires) are open.



- ⑨ Load springs into upright position by twisting the springs upward and carefully insert the fixture to the hole of the frame. Ensure fixture is secure.

- All kit and frame will be completely addressed on ceiling.

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.