

## IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

## INSTALLATION INSTRUCTIONS INSTRUCTIONS D'INSTALLATION

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

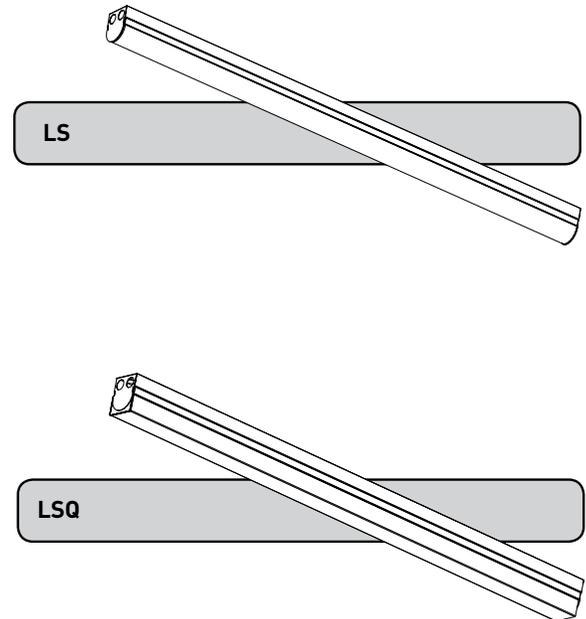
- DANGER**- Risk of shock- Disconnect power before installation.  
**DANGER - RISQUE DE CHOC - COUPER L'ALIMENTATION AVANT L'INSTALLATION**
- This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician.  
*Ce produit doit être installé conformément à NEC ou votre code électrique local. Si vous n'êtes pas familier avec ces codes et ces exigences, veuillez contacter un électricien qualifié.*
- To reduce the risk of electric shock, disconnect both standard and emergency power supplies and converter connector of the emergency driver before servicing.  
*Pour réduire le risque de décharge électrique, vous devez déconnecter à la fois le disjoncteur divisionnaire ou les fusibles et les alimentations d'urgence avant l'entretien.*
- Do not use outdoors.  
*Ne pas utiliser à l'extérieur.*
- Do not let power supply cords touch hot surfaces.  
*Ne laissez pas les cordons d'alimentation toucher les surfaces chaudes.*
- Do not mount near gas or electric heaters.  
*Ne montez PAS près des appareils de chauffage de gaz ou électriques.*
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush acid with fresh water and contact a physician immediately.  
*Faites preuve de prudence lors de l'entretien des batteries. L'acide de batterie peut provoquer des brûlures de la peau et les yeux. Si l'acide est versé sur la peau ou les yeux, rincer à l'eau acide frais et contacter un médecin immédiatement.*
- Equipment should be mounted in locations and heights where it will not readily be subjected to tampering by unauthorized personnel.  
*L'équipement doit être monté dans des endroits et à des hauteurs où il ne sera pas soumis à des altérations par des personnes non autorisées.*
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.  
*L'utilisation d'accessoires non recommandés par le fabricant peut causer une situation dangereuse.*
- Max. mounting height: 10 ft.  
*Hauteur de montage max.: 10.*

### SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

#### NOTES:

- The LS Series is for non-insulated ceiling applications using surface mount, T-Bar ceiling grid, suspended cable, chain and pendant mount accessory (not included).
- Designed for use in 120-277V 60Hz protected circuit (fuse box, circuit breaker). Supply wire size as per NEC or governing code(s), 90C rated.

- Available luminaire lengths are 4' and 8'.
- Suitable for Damp Locations.
- Figures below show LS luminaire for illustration purposes only.

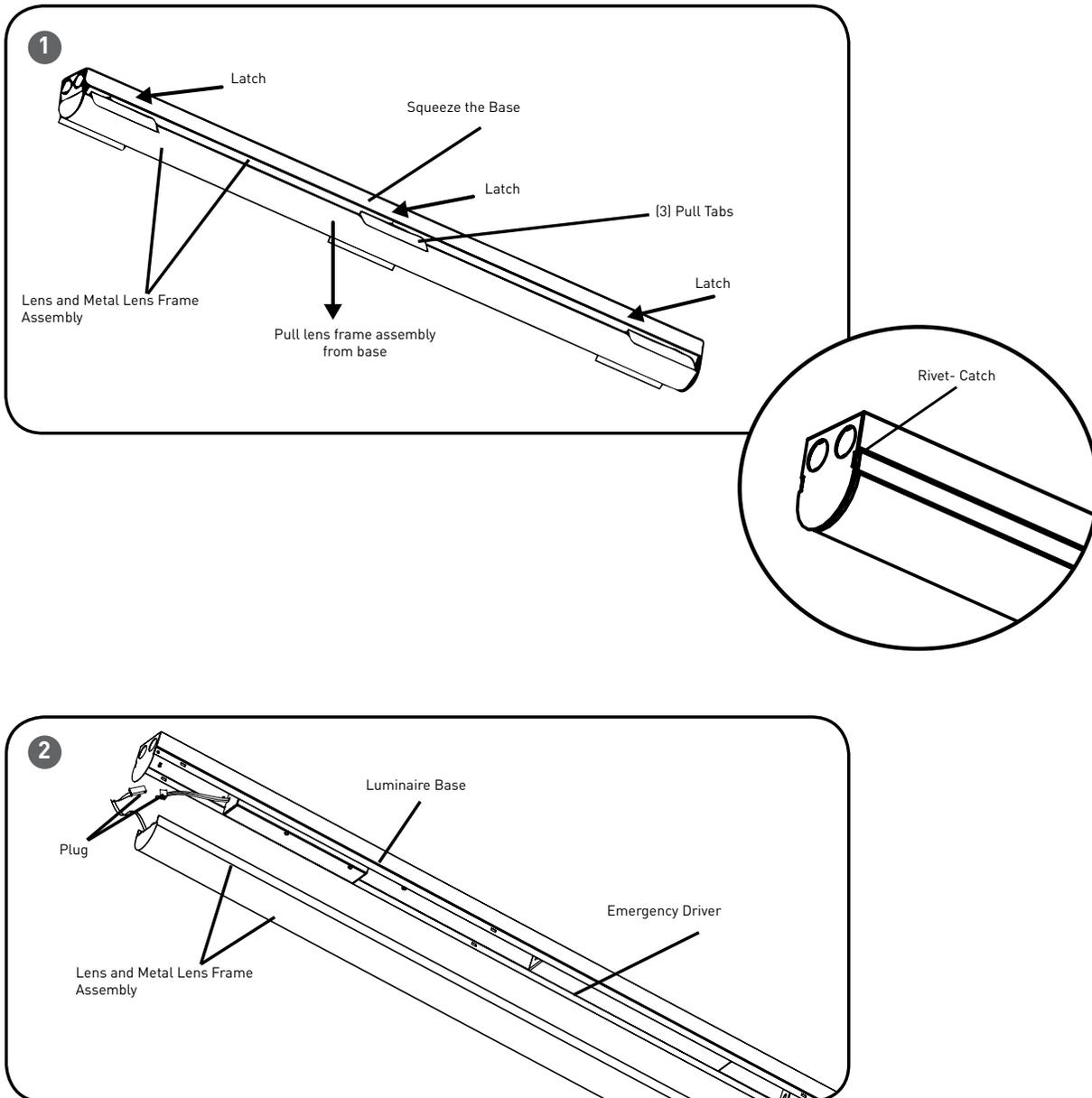


#### Cree Accessories (ordered separately):

##### SUSPENDED MOUNT

- AC5-12/3-48-Q14B-JB**- 48" Power Feed, #12/3 SJT Cord with Cable Support for J-Box
- AC5-18/5-48-Q14B-JB**- 48" Power Feed, #18/5 SJT Cord with Cable Support for J-Box
- AC5-18/2-48-Q14B-JB**- 48" Power Feed, #18/2 SJT Cord with Cable Support for J-Box
- AC5-48-Q14B-TB**- 48" Cable Support for T-bar mount.
- B=LS-M**- Optional Mounting Bracket

## TO INSTALL:



## LUMINAIRE INSTALLATION

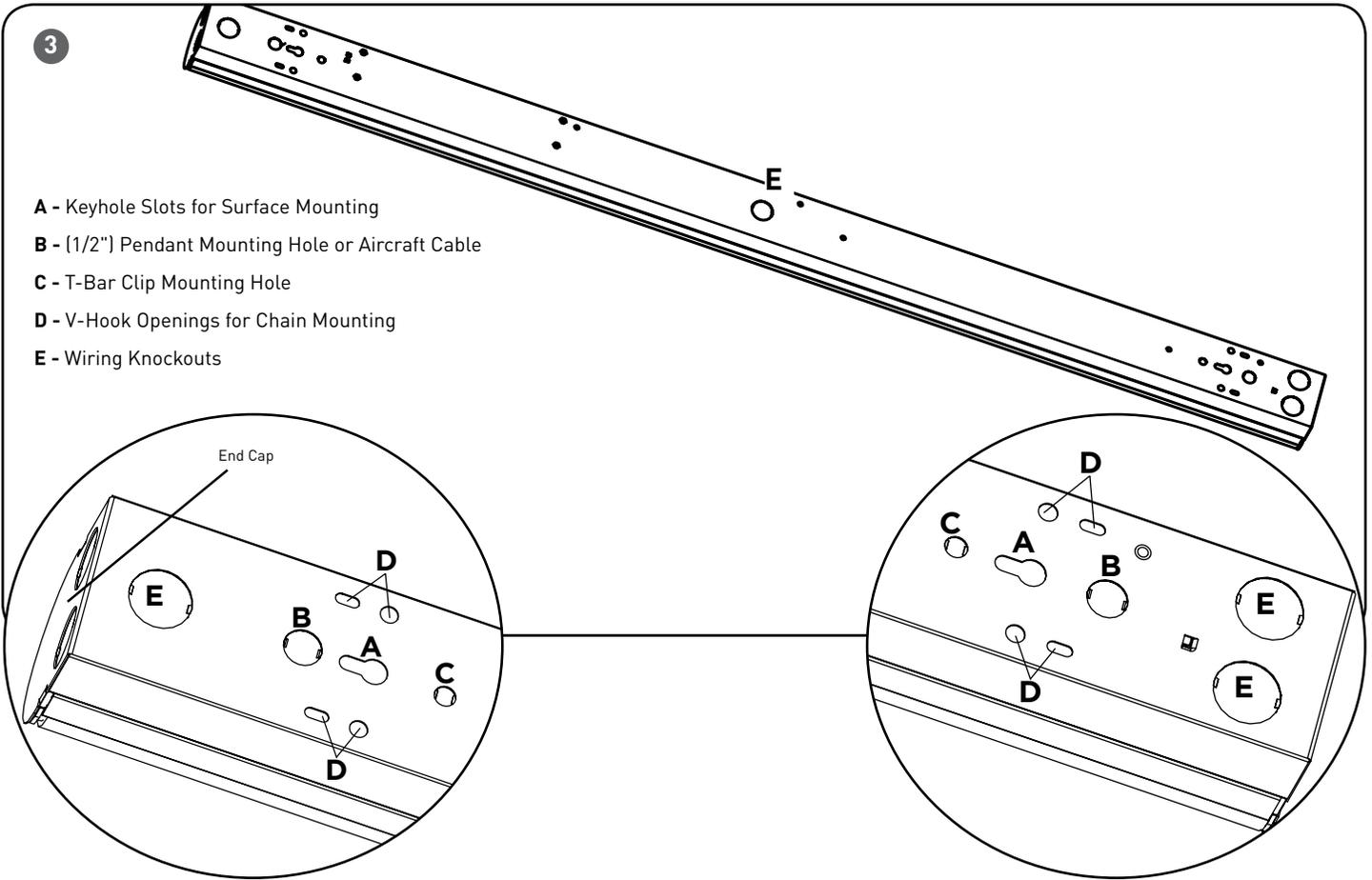
**NOTE:** Multiple luminaire installation can consist of Non-Emergency Driver LS luminaires with Emergency Driver LS luminaire. An additional 2 -wire power feed is needed for the emergency driver luminaire. Refer to non emergency LS luminaire installation sheet for electrical wiring.

### STEP 1:

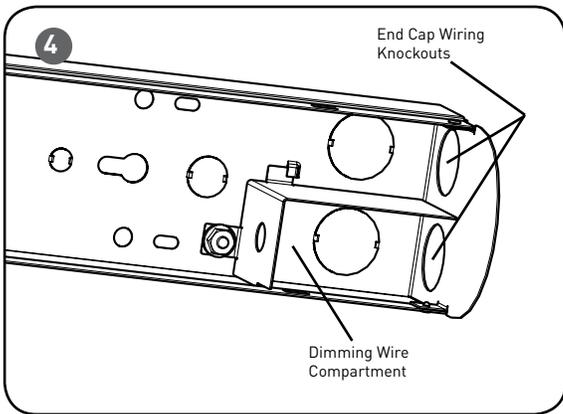
Remove the lens/ frame assembly from the housing by pulling up on the three pull tabs. After releasing the tabs, release latches along length of luminaire by pressing on designated areas of base and pull top lens frame assembly away from base. Pull tabs can be discarded once lens/ frame assembly is removed. If the lens/frame needs to be removed in the future, once pull tabs have been discarded, then use a non-marring tool or by hand and release the rivet-catch on each end of the luminaire. After releasing rivet-catches, [See **Figure 1, 2,** and to the right

**NOTE:** The lens and metal lens frame is a single assembly and does not come apart. DO NOT attempt to remove the lens from the metal lens frame.

- **LS4:** Press in the center and on each end [22" away from the center] of the base. Total of 3 designated areas to press.
- **LS8:** Press in the center and every 23" away from the center, two per each end. Total of 5 designated areas to press.



- A** - Keyhole Slots for Surface Mounting
- B** - (1/2") Pendant Mounting Hole or Aircraft Cable
- C** - T-Bar Clip Mounting Hole
- D** - V-Hook Openings for Chain Mounting
- E** - Wiring Knockouts



**STEP 2:**  
Mount the luminaire base to mounting surface using one of the following methods:

**A - Surface Mounting**  
Secure luminaire base to mounting surface by inserting (2) customer supplied #8 anchor screws, toggle bolts or suitable fasteners, into key hole slots on the top side of the luminaire base. See **Figure 3**.

**B - Pendant Mounting**  
Attach luminaire base to (2) customer supplied 1/2" diameter pendant using the pendant holes on the top side of the luminaire base shown in **Figure 3**.

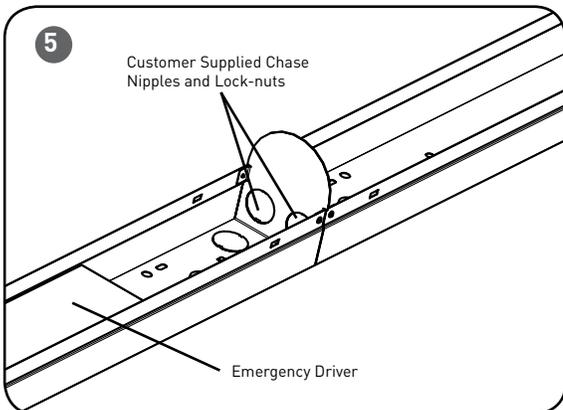
**B - Aircraft Cable Mounting**  
Attach (2) customer supplied aircraft cable to the designated opening on the top side of the luminaire base as shown in **Figure 3**.  
**NOTE:** 8' luminaires will have

**C - T-Bar Ceiling Grid Mounting With T-Bar Clips**

Attach (2) customer supplied T-Bar clips to the designated opening on the luminaire as shown in **Figure 3**. Bring luminaire into T-Bar ceiling grid and secure luminaire to grid.  
**NOTE:** 8' luminaires will have (4) designated openings for customer supplied T-Bar clips.

**D - Chain Mounting**  
Attach (2) customer supplied V-hooks to each end of the luminaire base. Attach customer supplied chain to the V-hooks and mounting surface. See **Figure 3**.

**STEP 3:**  
For single luminaire installation proceed to the next Step. For multiple luminaire installation, insert customer supplied chase nipple and lock nuts into the knockout on the end cap located on each end of the luminaire. See **Figure 5**.



#### STEP 4:

Bring customer supply wires into luminaire through the wiring knockouts on the backside (E) or on the end caps and make electrical connections per "ELECTRICAL CONNECTION" section. See Figure 3.

**NOTE:** When connecting multiple luminaires together bring leads from adjoining luminaire into first luminaire through the end cap wiring knockouts and make wiring connections per electrical code. See Figure 4.

**NOTE:** If dimming is an option make electrical connection for dimming in the dimming compartment. See Figure 4.

#### STEP 5:

Reattach lens and metal lens frame assembly to luminaire base by connecting the plug together shown in Figure 2 and carefully push and metal lens frame assembly up into the base until it snaps in place.

#### EMERGENCY DRIVER CHECK

**NOTE:** For short-term testing of the emergency function, the battery must be charged for at least one hour. The emergency driver must be charged for at least 24 hours before conducting a long-term test.

#### STEP 1:

When AC power is applied, the charging indicator light is illuminated, indicating the battery is being charged. When power fails, the emergency driver automatically switches to emergency power, operating the LED array. When AC power is restored, the emergency driver returns to the charging mode.

#### STEP 2:

Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

- Visually inspect the charging indicator light monthly. It should be illuminated.
- Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds. When the test switch is depressed, the LED array should operate.
- Conduct a 90-minute discharge test once a year. The LED array should operate for at least 90 minutes.

If the luminaire fails any of these checks, consult service personnel.

REFER ANY SERVICING INDICATED BY THESE CHECKS TO QUALIFIED PERSONNEL

EMERGENCY DRIVER AND AC DRIVER MUST BE FED FROM THE SAME BRANCH CIRCUIT

#### ELECTRICAL CONNECTIONS-

**NOTE:** The emergency driver must be fed from the same branch as the AC Driver.

#### STEP 1:

Using customer supplied 90°C minimum rated wire connectors, make the following electrical connections:

- Connect the black luminaire lead to the unswitched voltage supply lead.
- Connect the white/red luminaire lead to the supply switched hot.
- Connect white luminaire lead to the neutral supply lead.
- Connect ground green/yellow wire lead to the supply ground lead.
- If 0/1-10V Dimming is used, connect the violet lead to the supply positive dimming lead. If dimming is not being used ensure to cap off the violet lead.
- If 0/1-10V Dimming is used, connect the grey lead to the supply negative dimming lead. If dimming is not being used ensure to cap off the grey lead.

#### STEP 2:

Locate the two red leads coming off of the Emergency Driver and connect them using supplied connector. See Figure 2 on page 1.

