

SUITABLE FOR MODEL**PLEASE READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY**

IMPORTANT - An unswitched AC power source is required (120 to 277 volts, 50/60 Hz)

IMPORTANT- The emergency driver must be fed from the same branch circuit as the AC driver. Ensure the output current of the AC driver does not exceed 5A.

ATTENTIONS:

1. To prevent electric shock, switch off the mains power supply until installation is complete and AC power is supplied to this product.
2. This product requires an unswitched AC power supply of 120-277V, 50/60Hz.
3. Make sure all connections are in accordance with the National or Canadian Electrical code and any local regulations.
4. This product is suitable for use in dry or damp locations. Do not mount it near gas, heaters, air outlets or other hazardous locations.
5. Use this product in 32°F minimum, 104°F maximum ambient temperatures.
6. Do not attempt to service the batteries. A sealed, non-maintenance battery is used that is not field replaceable. Contact the manufacturer for information or service.
7. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
8. Do not use this product for other than intended use.
9. Installation and service should be performed by qualified service personnel.
10. This product should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.



Ni-MH

THIS PRODUCT CONTAINS A RECHARGEABLE NICKEL-METAL HYDRIDE BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

RISK OF ELECTRICAL SHOCK

Disconnect both normal and emergency power supplies and connector of this product before servicing.

Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements.

All wiring connections should be capped with UL approved wire connectors.

RISK OF INJURY

Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.

Avoid direct eye exposure to the light source while it is on.

Account for small parts and destroy packing material, as there may be hazardous to children.

RISK OF FIRE

Do not mount near gas or electric heaters.

Keep combustible and other materials that can burn away from luminaire and power supply cords.

Use minimum 194°F supply conductors

WIRE CONNECTION

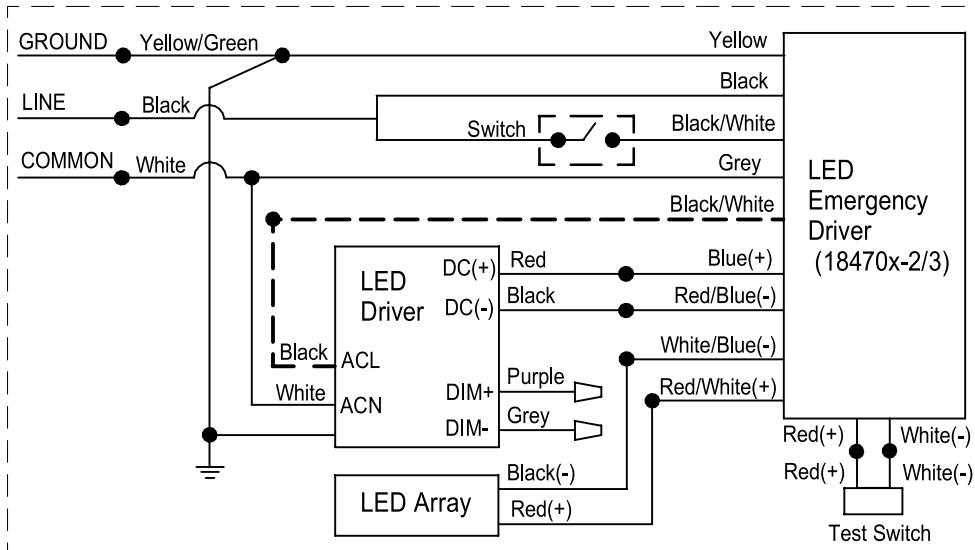
Universal voltage driver permits operation at 120V thru 277V, 50 or 60 Hz. 0-10V control wires must be rated for 300V minimum.

1. If switching, connect SWITCHED black/white lead to a switch.
2. If not using a switching method, connect the UNSWITCHED black/white and emergency driver black lead together.
3. Connect the UNSWITCHED black fixture lead to the LINE supply lead.
4. Connect the COMMON white fixture lead to the COMMON supply lead.
5. Connect the GROUND wire from fixture to supply ground.
6. If 0/1-10V dimming is used, connect the purple lead from fixture to the (V+) DIM lead.
7. If 0/1-10V dimming is used, connect the gray lead from the fixture to the (V-) DIM lead.

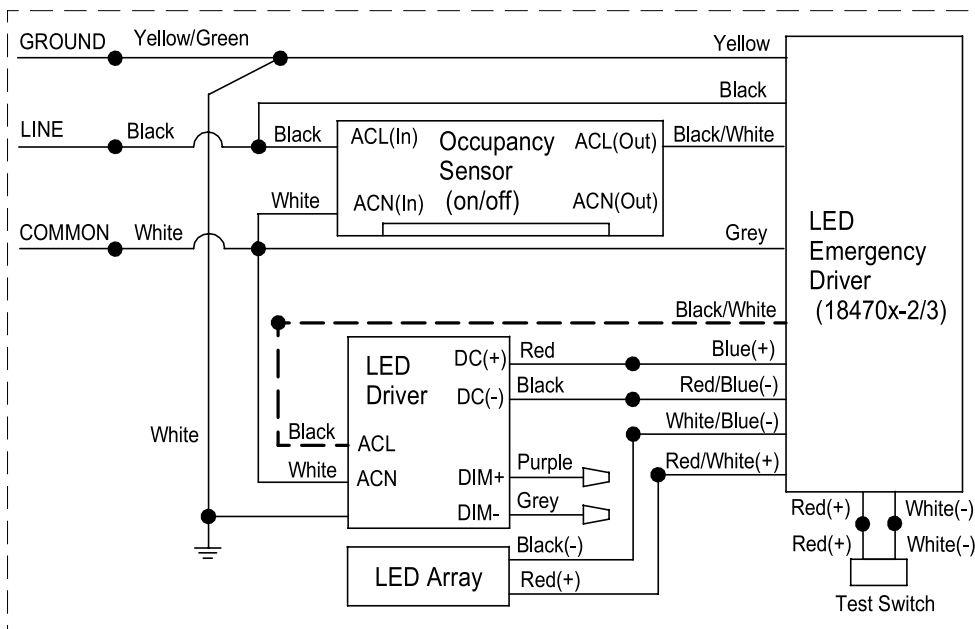
CAUTION:

1. All unused leads must be capped and insulated.
2. A short-term discharge test may be conducted after the emergency ballast has been charging for one hour. Charge for 24 hours before conducting a long-term discharge test.

Wiring diagram for Emergency battery back-up



Wiring diagram for Emergency battery back-up and occupancy sensor (On/Off)



INSTALLATION

ATTENTIONS:

The emergency test button is pre-installed on fixture. DO NOT remove the pre-installed emergency test button without factory permission. If need a remote test switch please contact factory.

ACCESSORY PACK



WIRE NUT X 5

INSTALLATION STEPS

Notes:

1. DO NOT attempt to remove the lens from the metal lens frame.
2. Make sure the safety ropes always are connected between luminaire base and lens frame assembly.

Step 1.

Locate the mounting points based on the Dimension Drawing. See Figure 1.

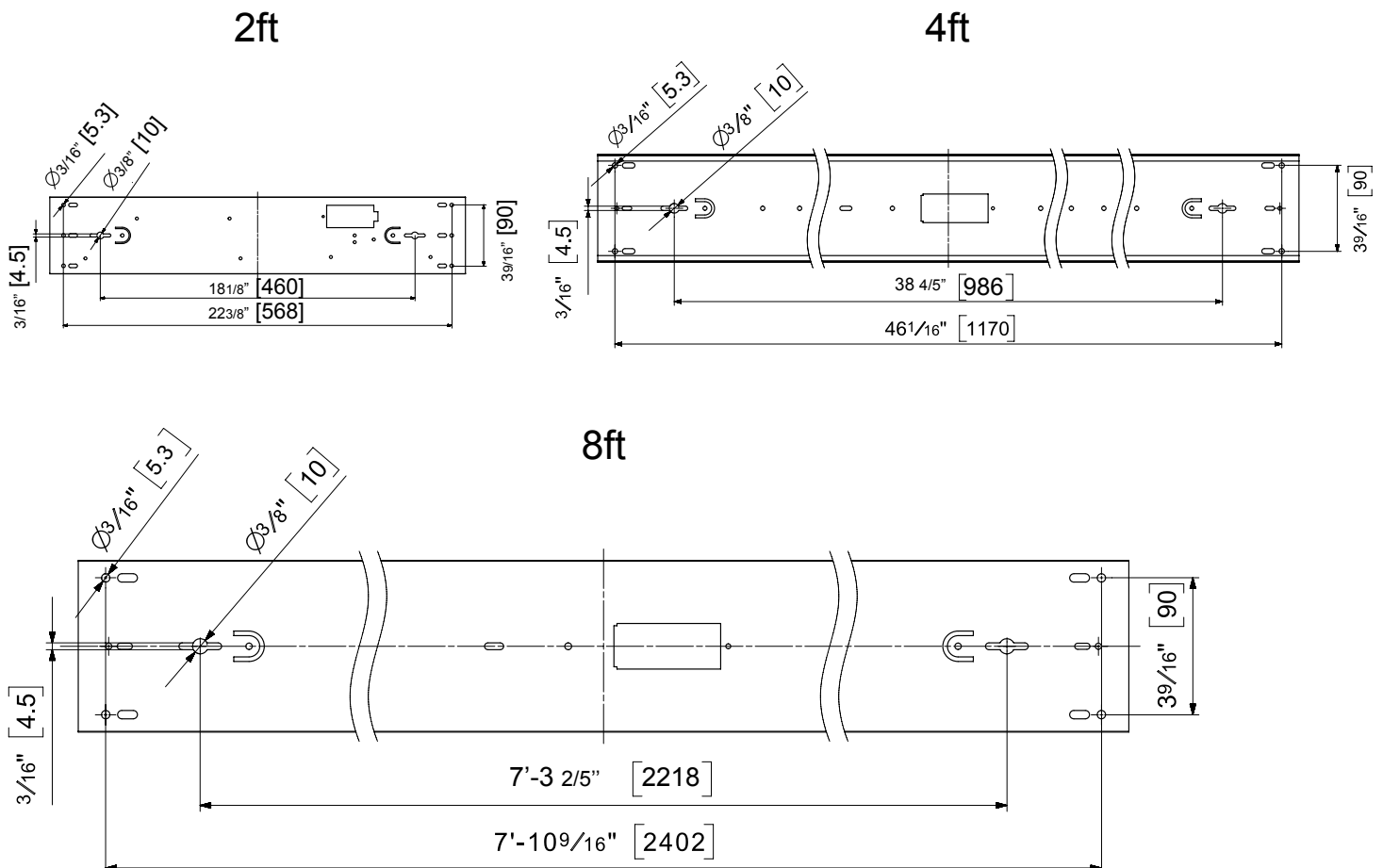


Figure 1



Step 2.

Remove the Lens Frame Assembly from the Luminaire Base by removing the four screws on the side of the base. See Figure 2.

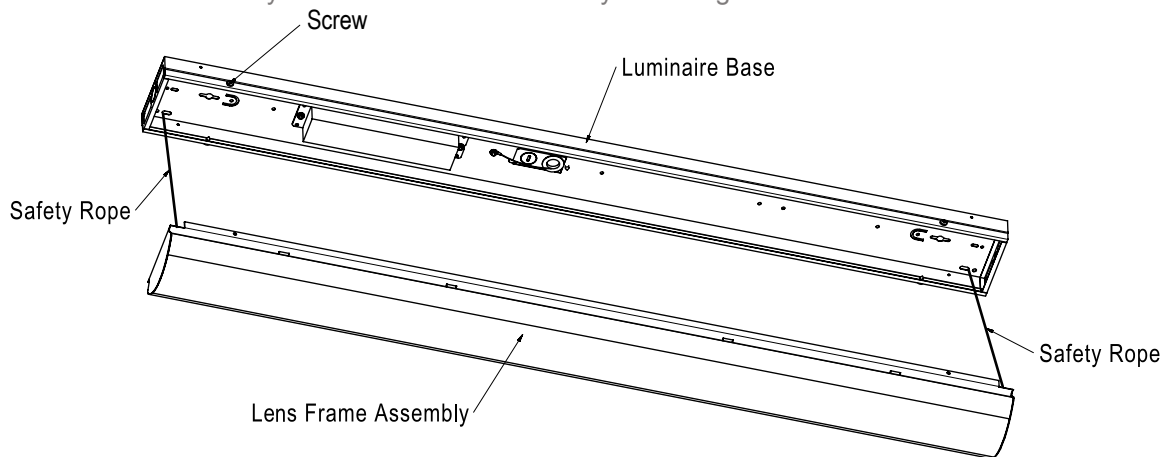


Figure 2

Step 3.

Bring customer supplied wires into luminaire through the Wiring Knockouts on the backside or end cap. See Figure 3.

Step 4.

Choose the proper installation method and prepare suitable installation tools and accessories.

SURFACE MOUNT

Depending on structural conditions, secure luminaire to mounting surface by customer supplied anchor screws, toggle bolts or suitable fasteners into Keyhole Slots. See Figure 3.

CHAIN MOUNT

Attach customer supplied V-hooks to each end of the luminaire base. See Figure 3.

Attach customer supplied Chain to the V-hooks and mount surface. Make sure the luminaire is balanced.

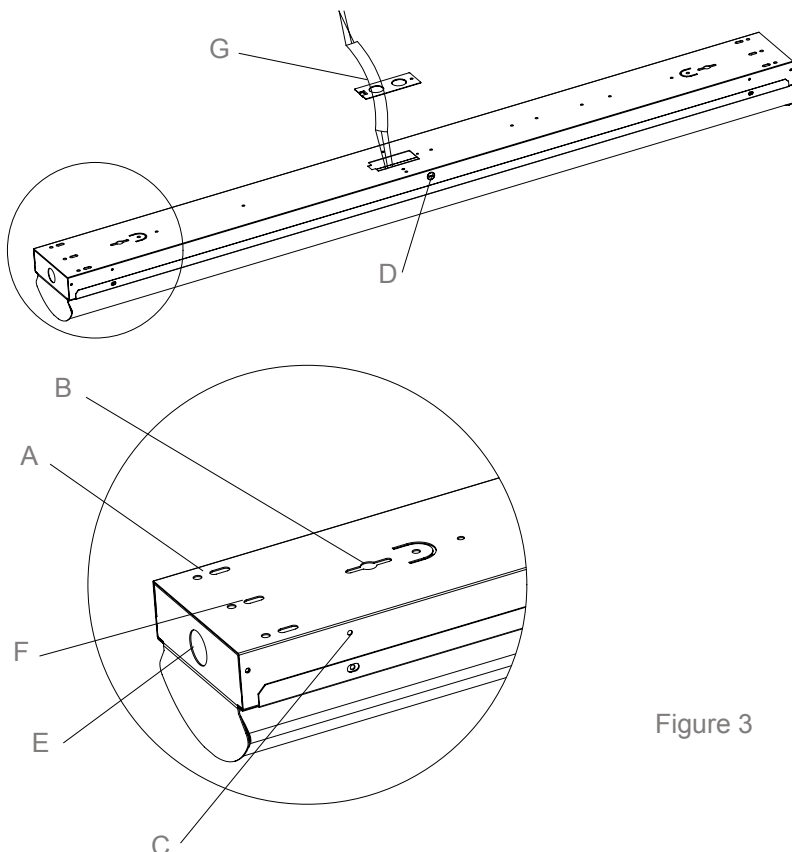


Figure 3

- A. V-hook Openings for Chain Mounting
- B. Keyhole Slots for Surface Mounting
- C. Wire Guard Openings
- D. Knockouts for Emergency Charging Indicator
- E. Wiring Knockouts
- F. Safety Chain Openings
- G. Wiring Cover with knockout

Step 5


Connect wires as shown in wiring diagram with wire nuts.

Step 6

Reattach Lens Frame Assembly to luminaire base by locking the removed four screws.

MICROWAVE ON/OFF SENSOR SETTING


By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

		1	2	
ON ↑ 	I	ON	ON	100%
	II	—	ON	75%
	III	ON	—	50%
	IV	—	—	10%

Detection Area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.


Default Setting: 100%

		3	4	5	
ON ↑ 	I	ON	ON	ON	5s
	II	—	ON	ON	30s
	III	ON	—	ON	90s
	IV	—	—	ON	3min
	V	ON	ON	—	20min
	VI	—	—	—	30min

Hold Time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

Default Setting: 3min

		6	7	8	
ON ↑ 	I	ON	ON	ON	2lux
	II	ON	ON	—	10lux
	III	—	ON	—	25lux
	IV	ON	—	—	50lux
	V	—	—	—	Disable


Daylight Sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

50lux, 25lux: twilight operation, 10lux, 2lux: darkness operation only.

Default Setting: Disable

		9	
ON ↑ 	I	ON	Constant ON
	II	—	Sensor

Mode

When set to "Constant ON", the microwave sensor function is inactive, lights turn on or off by switch.

When set to Sensor, the microwave sensor function is active.

Default Setting: Sensor

EMERGENCY SYSTEM OPERATION

1. When AC power is applied, the LED test switch is illuminated, indicating that the batteries are being charged.
2. When AC power fails, the 18470X-X automatically switches to emergency power, operating the LED array at rated power. The LED test switch is switched off.
3. When the AC power is restored the emergency module switches the system back to normal mode and resumes battery charging. The minimum emergency operation time is 90 minutes. The charging time for the full discharged battery is 24 Hours.

EMERGENCY SYSTEM TESTING AND MAINTENANCE

Following periodical tests are recommended to ensure the system is working well:

1. Visually inspect the LED test switch(LTS) monthly. It should be illuminated when AC power is applied.
2. Conduct a 30 seconds discharge test by switching off the mains power every month. The LTS is switched off and LED array should operate at reduced illumination.
3. Conduct a 90 minutes discharge test once a year. The LED array should operate at reduced illumination for at least 90 minutes
4. The 18470X-X series has Auto Test function which save the cost of manually maintenance.

LED TEST SWITCH (LTS) MANUAL

1. Press LTS one time, then go into emergency mode.
2. Press LTS 2 times continuously within 5 seconds, then go into monthly test. After finish, the next monthly test will count from this date.
3. Press LTS 3 times continuously within 5 seconds, then go into annual test, after finish, the next annual test will count from this date.
4. During the manual test, press LTS above 3 seconds, then the manual test can be terminated (The preprogrammed scheduled Auto Test time will not change).

LED TEST SWITCH (LTS) INDICATION

LTS on: Normal

LTS off: Power failure

LTS gradual change: In testing

LTS flickering: Abnormal