LEDALITE

Linear

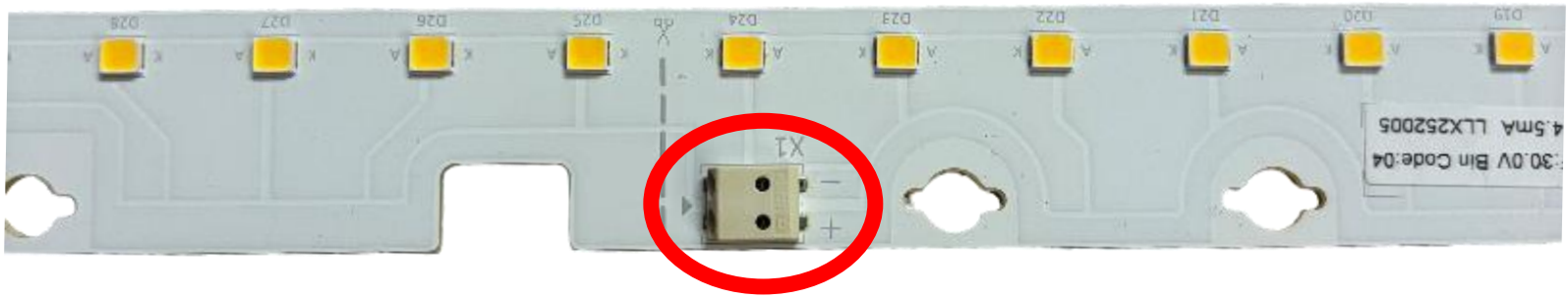
TruGroove Recessed Micro

IS-23 T-Grid

To ensure correct installation, please identify the LED board type by examining the connector on the board:

- New LED Boards feature new compact connectors. These boards are also visually thinner in width compared to the older version. (see image below)

- Old LED Boards use larger connectors (see image below):



If the fixture has the new compact connector, follow the installation instructions on page 2 (Section 1).

If the fixture has the large connectors, refer to the installation instructions on page 9 (Section 2).

Section 1

LEDALITE

Linear

TruGroove Recessed Micro

IS-23 T-Grid

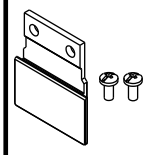
System Overview

These instructions review how to install TruGroove recessed micro fixtures in T-Grid ceilings. For continuous run lengths, Please refer to layout drawings supplied by Ledalite in conjunction with these installation instructions. The graphics below show the components required to install a run of TruGroove fixtures in T-Grid ceilings.

IMPORTANT: Read **ALL** instructions including fixture/sensor wiring, mechanical details and warnings **before** beginning installation. Sensor wiring is found in the LEDALITE CONTROLS DESIGN GUIDE: SENSOR INSTALLATION AND SET-UP

Ledalite Controls Design Guide

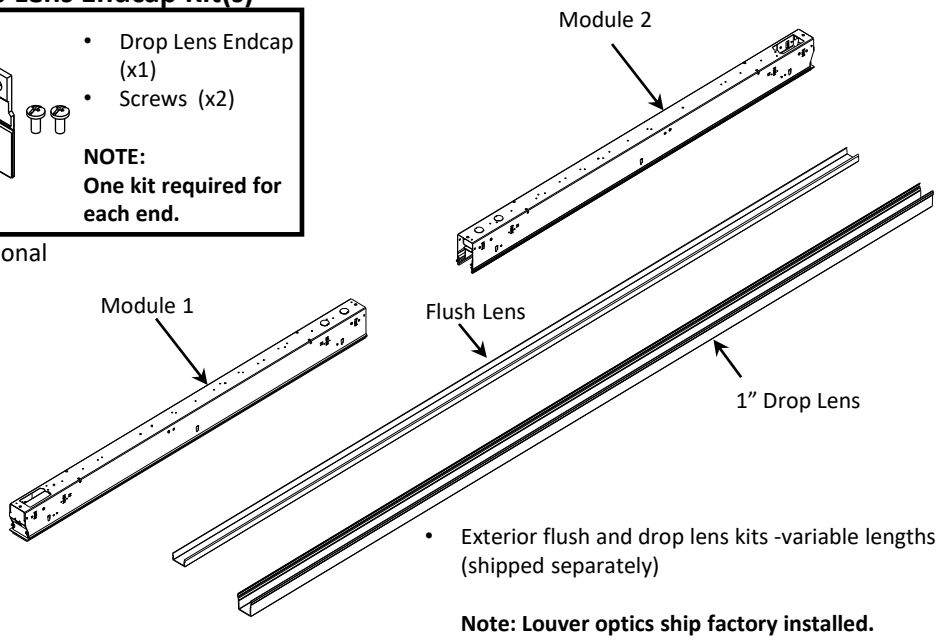
Drop Lens Endcap Kit(s)*



- Drop Lens Endcap (x1)
- Screws (x2)

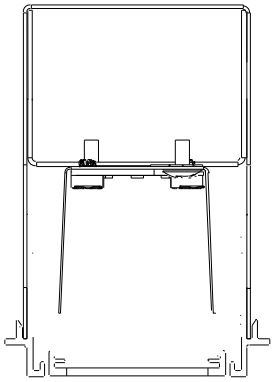
NOTE:
One kit required for each end.

*Optional

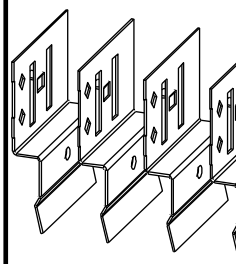


- Exterior flush and drop lens kits -variable lengths (shipped separately)

Note: Louver optics ship factory installed.



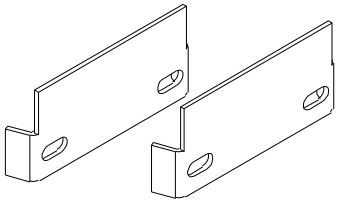
i Hanger Kit(s)

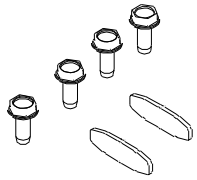


- Bracket (x4)
- Screws (x8)

NOTE:
One kit required for each module.

ii Joint Kit(s)





- Joiner Aligners (x2)
- Joiner Brackets (x2)
- Hex Bolts (x4)

NOTE: One (1) kit required for each module joint in continuous runs

Note: One kit required for each joint. Tools: Phillips screwdriver, 5/16" Nut Driver

! ATTENTION: Install in accordance with local and national building and electrical codes.

IS-23 TruGroove Recessed Micro T-Grid Installation Instructions

Note: This equipment has been tested and found to comply with the limits for a Class A digital service, 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, many 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.

CAN ICES (A) / NMB (A)

Warning, Shock Hazard

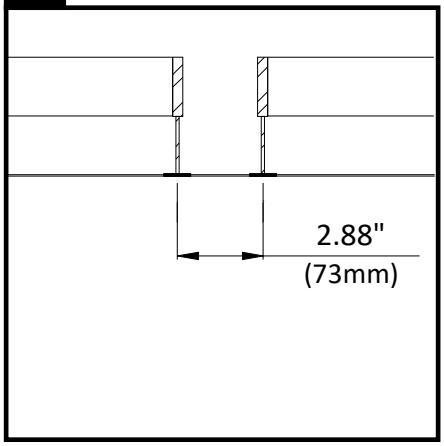
Fixture must be connected to building ground via the provided ground wire before connecting to mains power supply.

Disconnect or turn off power before attempting any installation, service or maintenance.

Prepare Fixtures

Arrange boxed fixtures on floor in specified mounting locations, based on supplied layout drawings.
Remove fixtures from boxes.
Remove plastic from fixtures.
Match up each fixture and lens based on the spec tag and ID number labelled on each fixture box for the specified run.

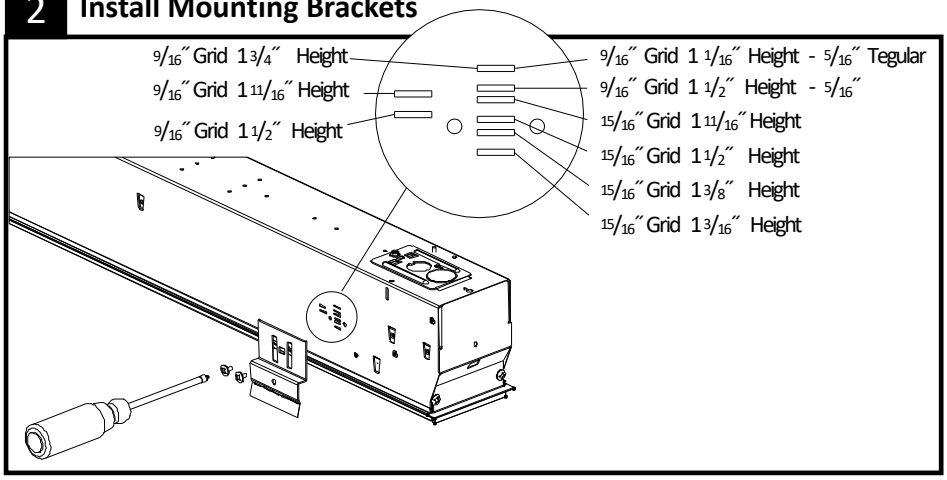
1 T-Grid



Install main tees, 2.88” on center. For continuous row lengths, refer to supplied layout drawings. Add 1/4 “ to the overall housing length indicated on your layout drawings. Position and secure the cross tees.

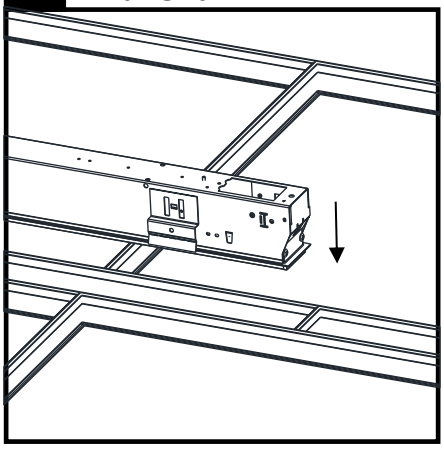
Install Fixtures

2 Install Mounting Brackets



Important: Install T-Grid mounting brackets to required height.

3 Install Fixture Above T-Bar Grid



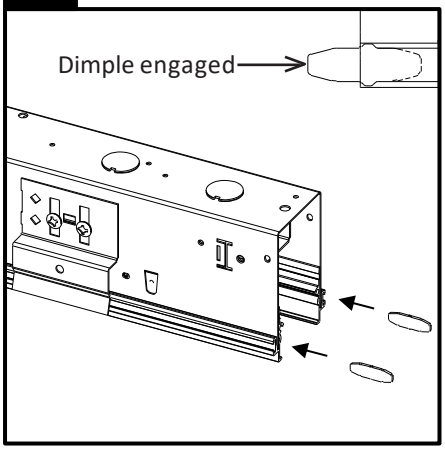
Install the first fixture (or Standalone Unit) from above the T-Bar Grid.

! ATTENTION: Install in accordance with local and national building and electrical codes.

IS-23 TruGroove Recessed Micro T-Grid Installation Instructions

NOTE: For Standalone fixtures skip to Step 8

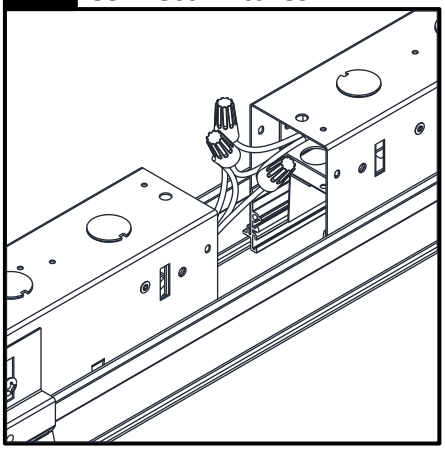
4 Install Joiner Aligners



In the joining fixtures install the joiner aligners in the trim extrusion just past the halfway point.

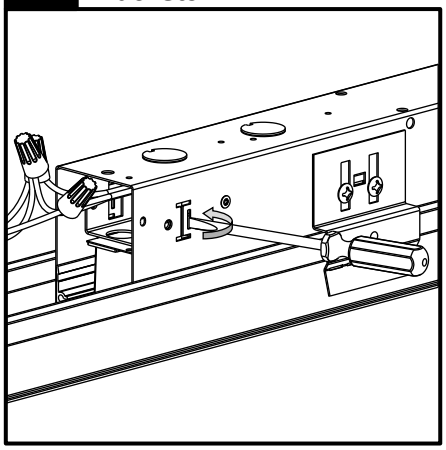
Important: To insert aligners, tap gently with a hammer until middle dimple is fully inserted into the joiner channel. Be sure to engage the dimple as shown.

5 Complete Wiring and Connect Fixtures



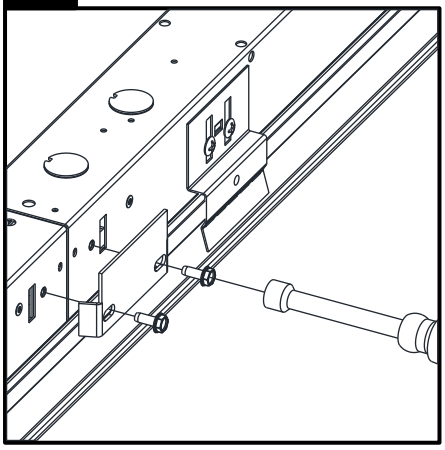
Install the joiner fixture into the T-Bar Grid from above. Complete wiring and slide the fixtures together.

6 Open Slots for Joiner Brackets



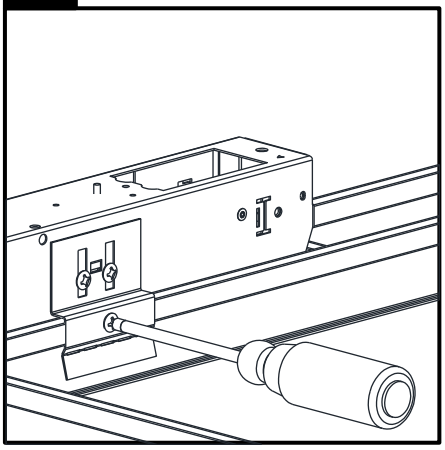
Snap off the safety cover on joiner brackets slots with a flat head screw driver. This only needs to be done one sides that require joining.

7 Install Joiner Brackets



Install supplied joiner brackets with 5/16" nut driver.

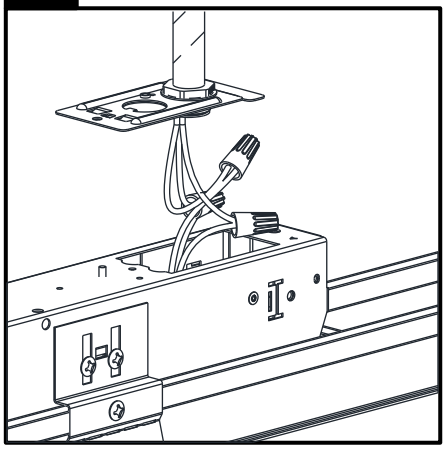
8 Secure Fixture on the Grid



Secure the fixture to T-bar grid.

For continuous runs, finish installing run first and then secure to the T-bar grid.

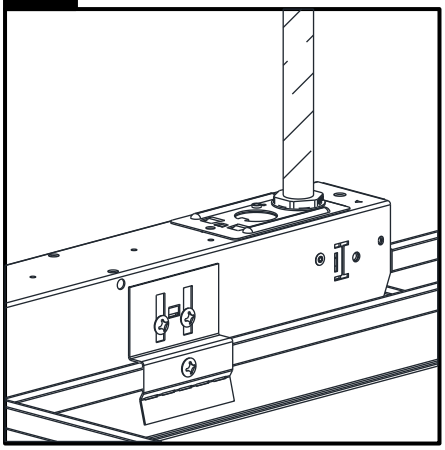
9 Install Power Drop



Install power drop at desired location. At power location(s), remove factory installed wire cover. Feed power wires through. Complete all wiring connections using wire nuts supplied by others.

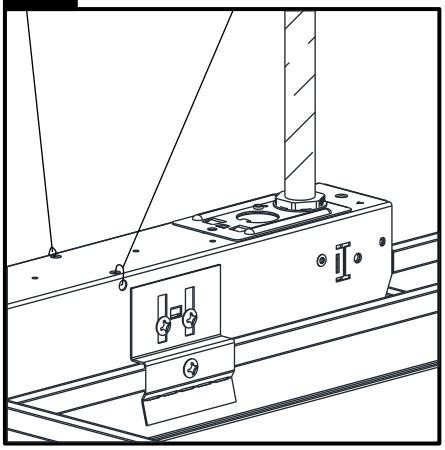
! ATTENTION: Install in accordance with local and national building and electrical codes.

10 Install Wire Access Cover



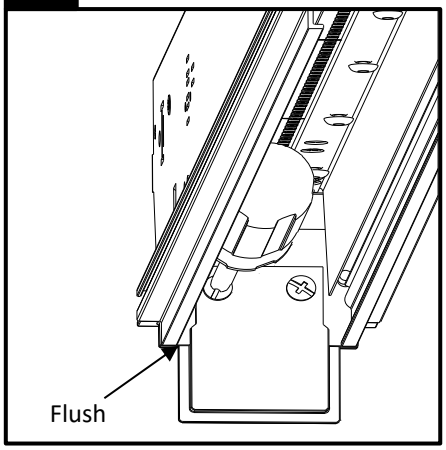
Install wire access cover to close the fixture.

11 Install Seismic Restraints



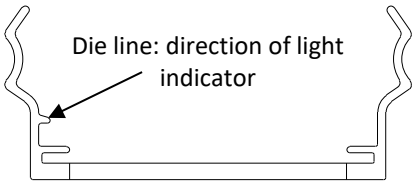
Install seismic restraints according to local building code requirements.

12 Install Drop Lens Endcap



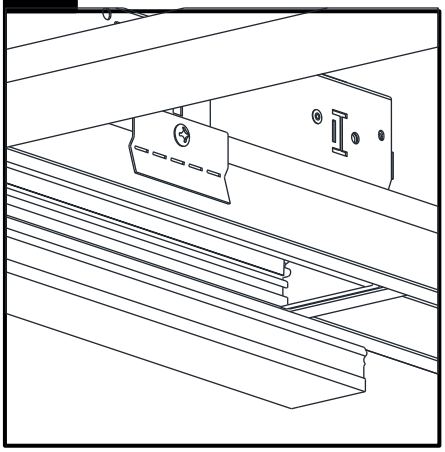
Push up drop lens endcap flush to bottom of trim while **hand tightening** with supplied screws.(8-18 x 3/8 Pan)

! Lens Orientation (Asymmetric Lens Only)



Note the knob on the inside of the lens. The asymmetric film directs to light in the direction of the knob. Always install in the fixture in the direction shown on the layout drawings.

13 Fixture Lens Installation



Snap in lens into fixture.

Note: Flush lens and drop lens are installed the same way. Flush lens is shown for reference.

!

Standalone Units: Lenses are supplied in 2’, 3’, 4’, 5’, 6’ or 8’ lengths.

Continuous Runs: Lenses are pre-cut to a maximum of 8’ lengths and are specific to run lengths. Consult layout drawings for placement

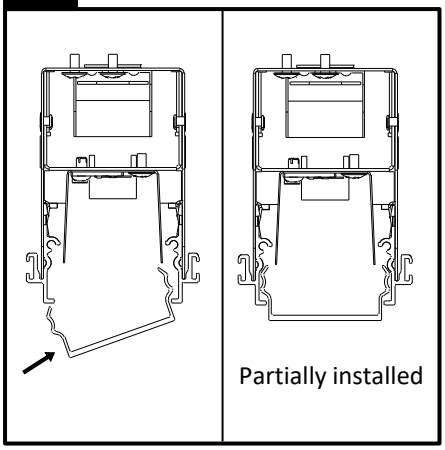
Installed lenses are removed in step 1.

Installation Tip: For easier installation, start at a housing end or a joint by placing lens at an angle and squeezing in slightly from the other side to guide inside housing.

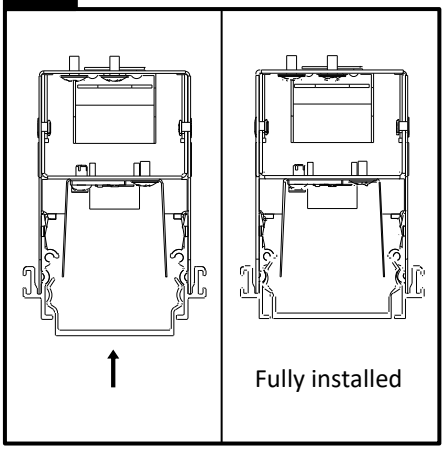
Once lens is positioned inside housing, starting on one end or joint, push upwards gently and work outward to complete the run.

! ATTENTION: Install in accordance with local and national building and electrical codes.

14 **Fixture Lens Installation**



15 **Fixture Lens Installation**



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INSTALLATION

WARNINGS AND INSTRUCTIONS FOR LUMINAIRES

IMPORTANT: THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

FOR YOUR PROTECTION, YOU MUST CAREFULLY READ ALL WARNINGS AND INSTRUCTIONS IN THEIR ENTIRETY PRIOR TO INSTALLATION, OPERATION, SERVICE OR MAINTENANCE. FAILURE TO DO SO CAN RESULT IN DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. If you do not understand these warnings and instructions, or if additional information is desired, please contact the Customer Care Call Center at 800-555-0050.

•Installation, service and maintenance of luminaires must be performed by a qualified professional and in accordance with all federal, state and local laws, regulations and electrical codes. This professional should be familiar with the construction and operation of this product and any hazards involved. If not qualified, do not attempt installation, service or maintenance.

•To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts, abrasions and other hazards, please read all warnings and instructions included with the luminaire, on the luminaire's packaging and affixed to the luminaire itself.

•Maintenance of the luminaires should be performed by person(s) familiar with the luminaire's construction and operation and any hazards involved.

WARNING
RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY

- Disconnect or turn off power before attempting any installation, service or maintenance.
- Verify that supply voltage is correct by referencing the luminaire label information.
- Make all electrical and ground connections in accordance with the National Electrical Code (NEC) and any other applicable laws, regulations or codes.
- All wiring connections should be capped with UL-approved wire connectors.

WARNING
RISK OF FIRE OR PERSONAL INJURY

- Keep combustible materials away from LED/lamp & lens.
- Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.

WARNING
RISK OF PERSONAL 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.

WARNING
RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY

- Allow LED/lamp & lens to cool before handling.
- Do not touch enclosure or light source.
- Do not exceed maximum wattage marked on luminaire label.
- Follow all manufacturer's warnings, recommendations, instructions and restrictions for driver type, burning position, mounting locations and replacement.

CAUTION
RISK OF PRODUCT DAMAGE

•Never connect luminaires and/or components under load with supply voltage turned on.
•Do not mount or support these luminaires in a manner that can cut the outer jacket or damage wire insulation.
•Do not restrict fixture ventilation. Allow for some volume of airspace around luminaire. Avoid covering luminaire with insulation, foam or other material that will prevent convection or conduction cooling.
•Do not exceed luminaire maximum ambient temperature.
•Do not modify the luminaire.
•Only use luminaire in its intended application and location.
•LED products are polarity sensitive. Ensure proper polarity before installation.
•Electrostatic Discharge (ESD) can damage LED. Personal grounding equipment must be worn during all installation and servicing of the luminaire.
•Do not touch individual electrical components as this can cause ESD, shorten LED life, or impact LED performance.
•Some components inside the luminaire may not be serviceable. In the unlikely event your luminaire may require service, stop using it immediately and contact the Customer Care Call Center at 800-555-0050.
•Always read the luminaire's complete installation instructions prior to installation for any additional luminaire specific warnings.
•In the case of HID or Fluorescent luminaires, regular re-lamping is required to keep luminaire operating within safe limits
•Do not install damaged product. Handling and installing damaged products can potentially increase the risks mentioned. In case of damage and/or missing parts upon arrival of the luminaire, please contact the Customer Care Call Center at 800-555-0050.
•These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation or maintenance. Should further information be desired, or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to the Customer Care Call Center at 800-555-0050. Please see luminaire specific Installation and Maintenance Instruction for additional warnings or any applicable FCC or regulatory statements. Failure to follow any of these instructions could void luminaire warranties.

Luminaire Maintenance

•Regular luminaire maintenance programs are recommended.
•It is recommended to clean the outside of the luminaire and the refractor/lens.
•Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user.
•If clean water is not sufficient for cleaning, use a neutral, synthetic, non-scratching and non-abrasive cleaning substance.
•Never use alkaline and/or acetous cleaning substances.
•Make sure that the cleaning substance is carefully removed by rinsing with lots of clean water.
•Signify recommends using a cleaning solution that has a PH between 5 and 8.
•Recycle: For information on how to recycle electronic products and components, please visit www.epa.gov.

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! ATTENTION: Install in accordance with local and national building and electrical codes.

Section 2

LEDALITE

Linear

TruGroove Recessed Micro

IS-23 T-Grid

System Overview

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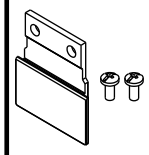
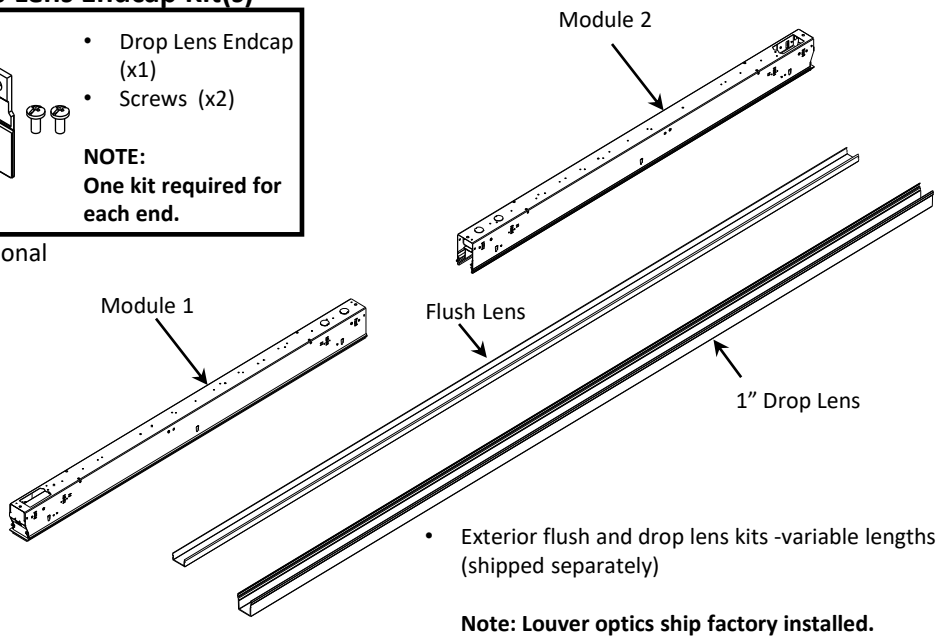


- Drop Lens Endcap (x1)
- Screws (x2)

NOTE:
One kit required for each end.

*Optional



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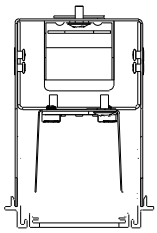

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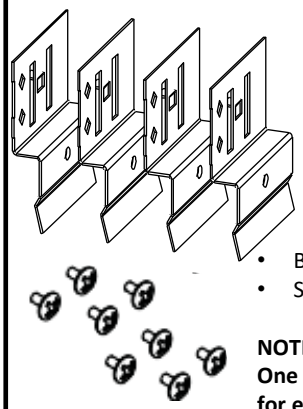
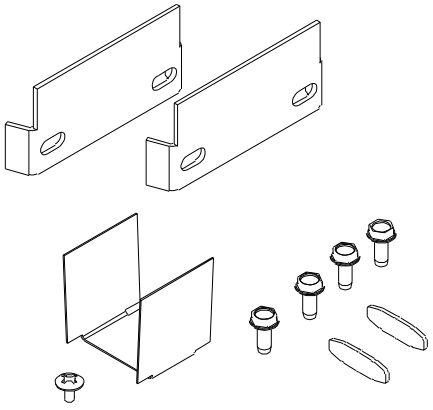


- Bracket (x4)
- Screws (x8)

NOTE:
One kit required for each module.

ii Joint Kit(s)



- Joiner Aligners (x2)
- Joiner Brackets (x2)
- Hex Bolts (x4)
- Screw(s)
  LED pan connectors (x1)

NOTE: One (1) kit required for each module joint in continuous runs

Tools required: Phillips screwdriver, 5/16" nut driver.

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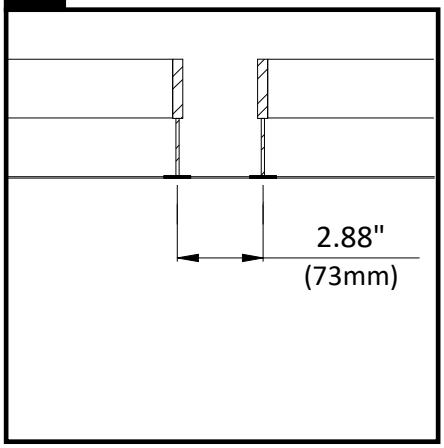
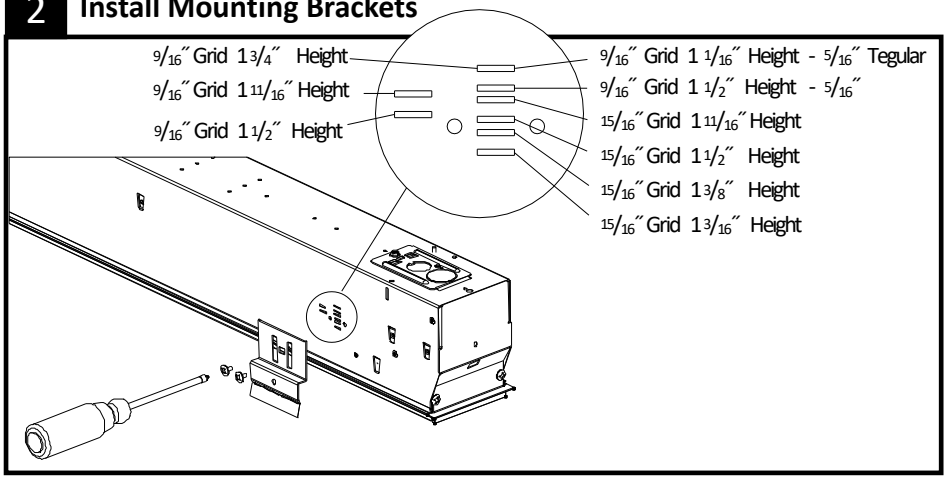


Install main tees, 2.88” on center. For continuous row lengths, refer to supplied layout drawings. Add 1/4 “ to the overall housing length indicated on your layout drawings. Position and secure the cross tees.

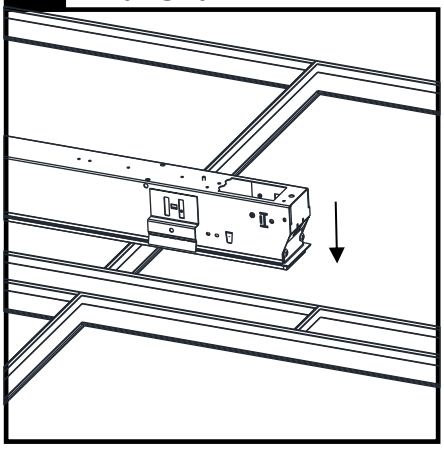
Install Fixtures

2 Install Mounting Brackets



Important: Install T-Grid mounting brackets to required height.

3 Install Fixture Above T-Bar Grid

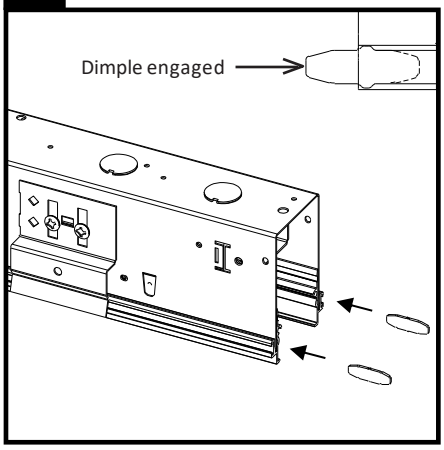


Install the first fixture (or Standalone Unit) from above the T-Bar Grid.

! ATTENTION: Install in accordance with local and national building and electrical codes.

NOTE: For Standalone fixtures skip to step 8

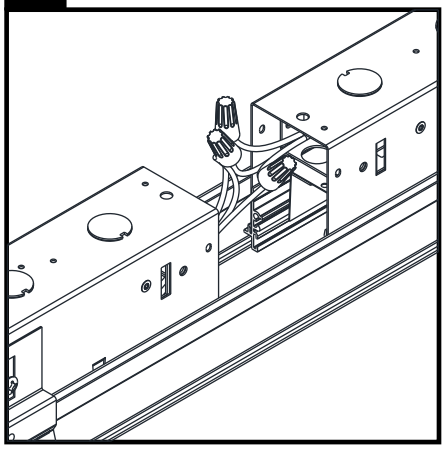
4 Install Joiner Aligners



In the joining fixtures install the joiner aligners in the trim extrusion just past the halfway point.

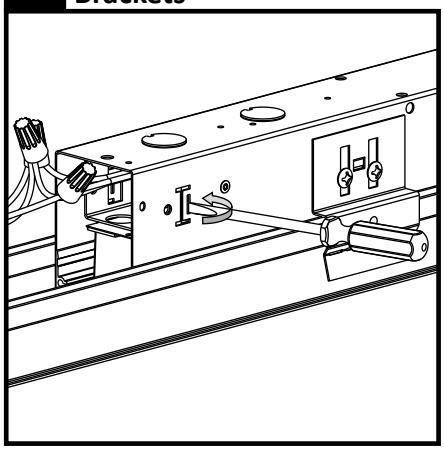
Important: To insert aligners, tap gently with a hammer until middle dimple is fully inserted into the joiner channel. Be sure to engage the dimple as shown.

5 Complete Wiring and Connect Fixtures



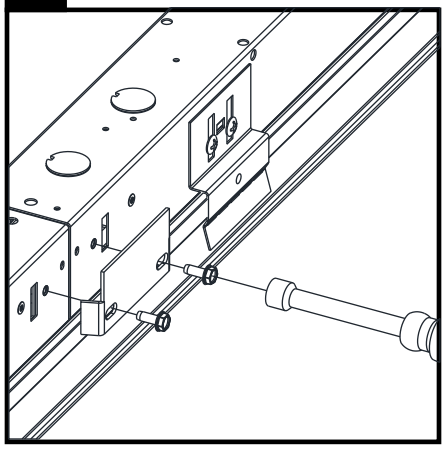
Install the joiner fixture into the T-Bar Grid from above. Complete wiring and slide the fixtures together.

6 Open Slots for Joiner Brackets



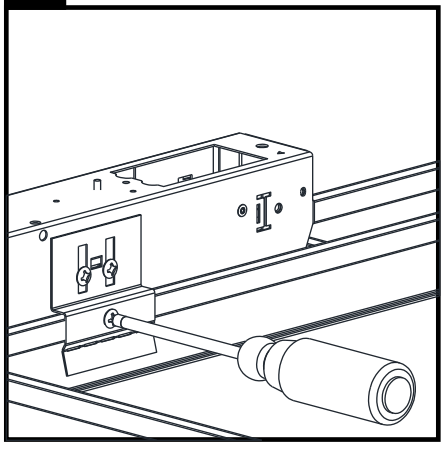
Snap off the safety cover on joiner brackets slots with a flat head screw driver. This only needs to be done one sides that require joining.

7 Install Joiner Brackets



Install supplied joiner brackets with 5/16” nut driver.

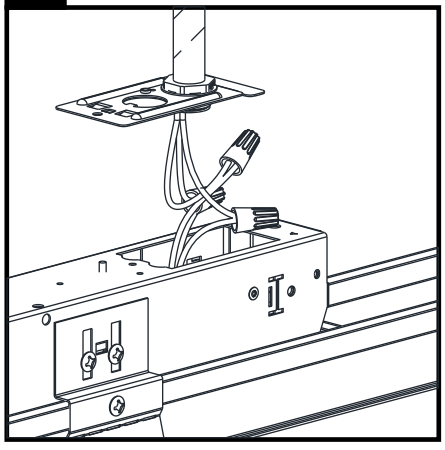
8 Secure Fixture on the Grid



Secure the fixture to T-bar grid.

For continuous runs, finish installing run first and then secure to the T-bar grid.

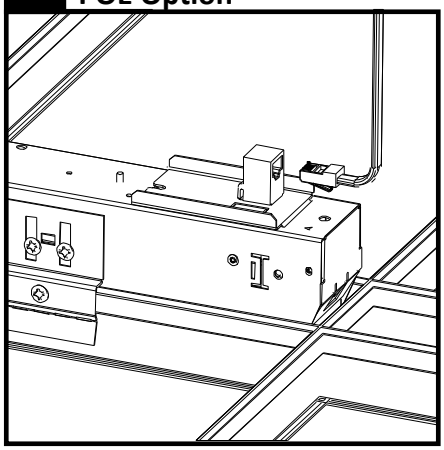
9 Install Power Drop



Install power drop at desired location. At power location(s), remove factory installed wire cover. Feed power wires through. Complete all wiring connections using wire nuts supplied by others.

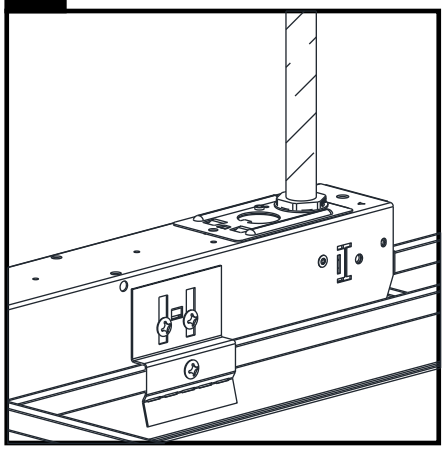
! ATTENTION: Install in accordance with local and national building and electrical codes.

9a Install CAT6 Cables for POE Option



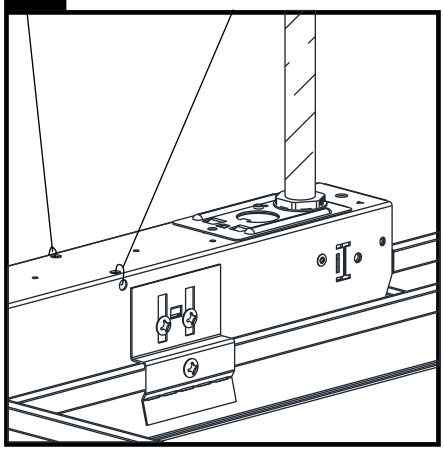
Install CAT6 cables and desired location.

10 Install Wire Access Cover



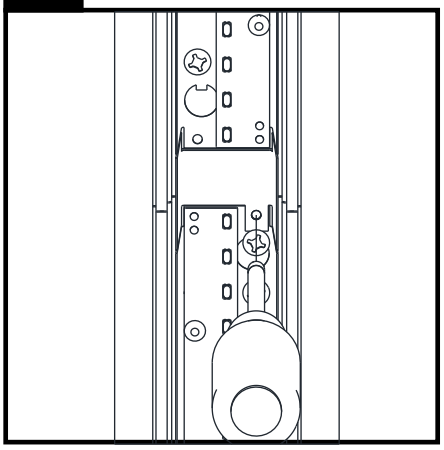
Install wire access cover to close the fixture.

11 Install Seismic Restraints



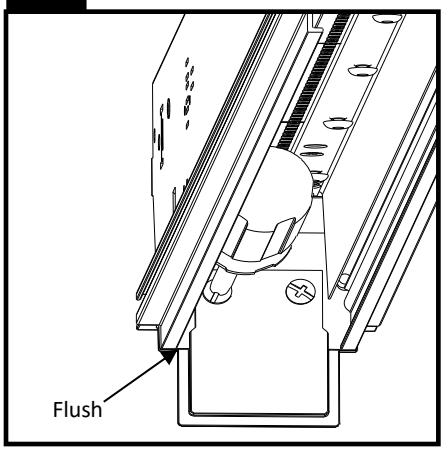
Install seismic restraints according to local building code requirements.

12a LED Pan Joiner - Symmetric



Mount the LED pan connector with the supplied screw in the joiner kit.
Note: This step is not required for louvers.

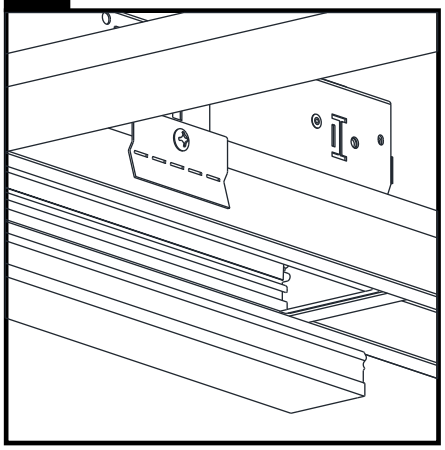
13 Install Drop Lens Endcap



Push up drop lens endcap flush to bottom of trim while **hand tightening** with supplied screws.(8-18 x 3/8 Pan)

! ATTENTION: Install in accordance with local and national building and electrical codes.

14



Snap in lens into fixture.
Note: Flush lens and drop lens are installed the same way. Flush lens is shown for reference.

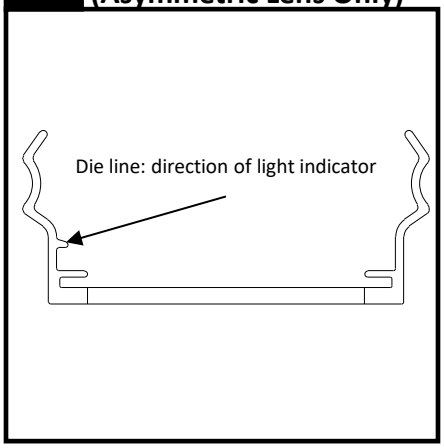
Standalone Units: Lenses are supplied in 2', 3', 4', 5', 6' or 8' lengths.

Continuous Runs: Lenses are pre-cut to a maximum of 8' lengths and are specific to run lengths. Consult layout drawings for placement.

Installed lenses are removed in step 1.
Installation Tip: For easier installation, start at a housing end or a joint by placing lens at an angle and squeezing in slightly from the other side to guide inside housing.

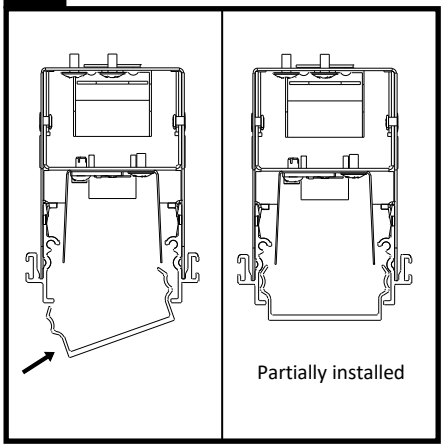
Once lens is positioned inside housing, starting on one end or joint, push upwards gently and work outward to complete the run.

15 Lens Orientation (Asymmetric Lens Only)

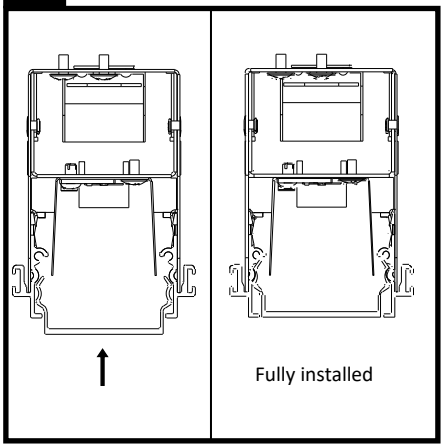


Orient the lens with the die line in the direction of light as per the layout drawings or building plans.

16 Fixture Lens Installation



17 Fixture Lens Installation



! ATTENTION: Install in accordance with local and national building and electrical codes.

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INSTALLATION

WARNINGS AND INSTRUCTIONS FOR LUMINAIRES

IMPORTANT: THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

FOR YOUR PROTECTION, YOU MUST CAREFULLY READ ALL WARNINGS AND INSTRUCTIONS IN THEIR ENTIRETY PRIOR TO INSTALLATION, OPERATION, SERVICE OR MAINTENANCE. FAILURE TO DO SO CAN RESULT IN DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. If you do not understand these warnings and instructions, or if additional information is desired, please contact the Customer Care Call Center at 800-555-0050.

•Installation, service and maintenance of luminaires must be performed by a qualified professional and in accordance with all federal, state and local laws, regulations and electrical codes. This professional should be familiar with the construction and operation of this product and any hazards involved. If not qualified, do not attempt installation, service or maintenance.

•To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts, abrasions and other hazards, please read all warnings and instructions included with the luminaire, on the luminaire's packaging and affixed to the luminaire itself.

•Maintenance of the luminaires should be performed by person(s) familiar with the luminaire's construction and operation and any hazards involved.

WARNING
RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY

- Disconnect or turn off power before attempting any installation, service or maintenance.
- Verify that supply voltage is correct by referencing the luminaire label information.
- Make all electrical and ground connections in accordance with the National Electrical Code (NEC) and any other applicable laws, regulations or codes.
- All wiring connections should be capped with UL-approved wire connectors.

WARNING
RISK OF FIRE OR PERSONAL INJURY

- Keep combustible materials away from LED/lamp & lens.
- Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.

WARNING
RISK OF PERSONAL 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.

WARNING
RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY

- Allow LED/lamp & lens to cool before handling.
- Do not touch enclosure or light source.
- Do not exceed maximum wattage marked on luminaire label.
- Follow all manufacturer's warnings, recommendations, instructions and restrictions for driver type, burning position, mounting locations and replacement.

CAUTION
RISK OF PRODUCT DAMAGE

•Never connect luminaires and/or components under load with supply voltage turned on.
•Do not mount or support these luminaires in a manner that can cut the outer jacket or damage wire insulation.
•Do not restrict fixture ventilation. Allow for some volume of airspace around luminaire. Avoid covering luminaire with insulation, foam or other material that will prevent convection or conduction cooling.
•Do not exceed luminaire maximum ambient temperature.
•Do not modify the luminaire.
•Only use luminaire in its intended application and location.
•LED products are polarity sensitive. Ensure proper polarity before installation.
•Electrostatic Discharge (ESD) can damage LED. Personal grounding equipment must be worn during all installation and servicing of the luminaire.
•Do not touch individual electrical components as this can cause ESD, shorten LED life, or impact LED performance.
•Some components inside the luminaire may not be serviceable. In the unlikely event your luminaire may require service, stop using it immediately and contact the Customer Care Call Center at 800-555-0050.
•Always read the luminaire's complete installation instructions prior to installation for any additional luminaire specific warnings.
•In the case of HID or Fluorescent luminaires, regular re-lamping is required to keep luminaire operating within safe limits
•Do not install damaged product. Handling and installing damaged products can potentially increase the risks mentioned. In case of damage and/or missing parts upon arrival of the luminaire, please contact the Customer Care Call Center at 800-555-0050.
•These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation or maintenance. Should further information be desired, or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to the Customer Care Call Center at 800-555-0050. Please see luminaire specific Installation and Maintenance Instruction for additional warnings or any applicable FCC or regulatory statements. Failure to follow any of these instructions could void luminaire warranties.

Luminaire Maintenance

•Regular luminaire maintenance programs are recommended.
•It is recommended to clean the outside of the luminaire and the refractor/lens.
•Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user.
•If clean water is not sufficient for cleaning, use a neutral, synthetic, non-scratching and non-abrasive cleaning substance.
•Never use alkaline and/or acetous cleaning substances.
•Make sure that the cleaning substance is carefully removed by rinsing with lots of clean water.
•Signify recommends using a cleaning solution that has a PH between 5 and 8.
•Recycle: For information on how to recycle electronic products and components, please visit www.epa.gov.

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! ATTENTION: Install in accordance with local and national building and electrical codes.