LEDALITE

Recessed

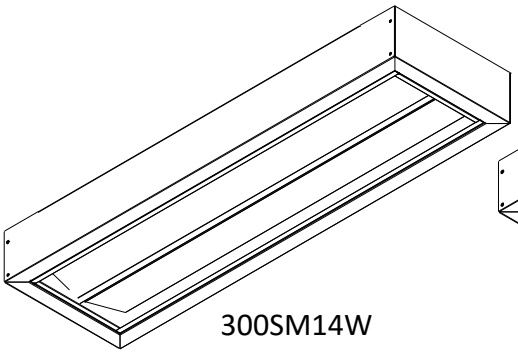
Duo Surface Mount Frame

IS-DuoSF

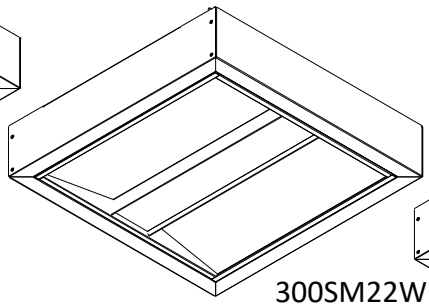
System Overview

These instructions review how to install the Ledalite Duo recessed fixtures into the Duo surface mount frame/box. The surface mount frame is offered in 1'x4', 2'x2', and 2'x4'. Please refer to the IS-Duo Installation Instructions and layout drawings supplied by Ledalite in conjunction with these installation instructions.

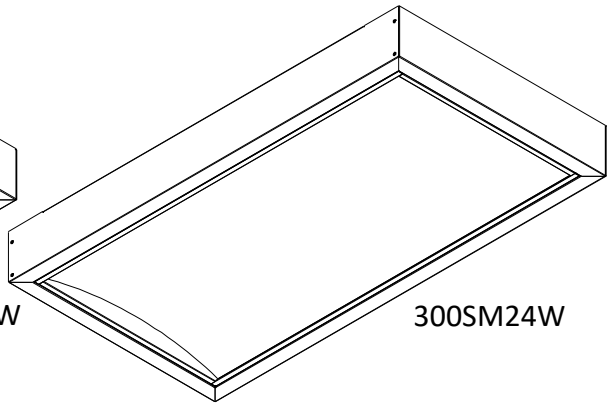
IMPORTANT: Read all instructions including fixture/sensor wiring AND mechanical details **before** beginning installation. Sensor wiring is found in the LEDALITE CONTROLS DESIGN GUIDE: SENSOR INSTALLATION AND SET-UP



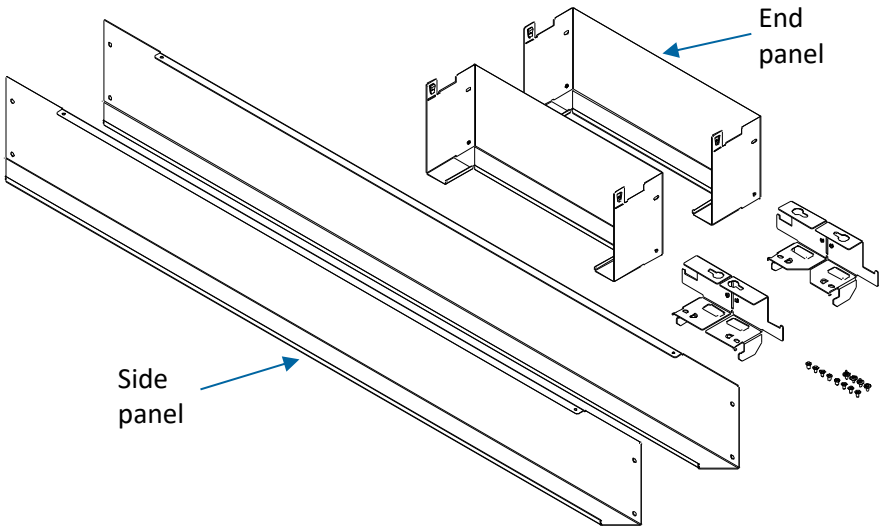
300SM14W



300SM22W



300SM24W



Kit Contains:

- End panel x2
- Side panel x2
- Break apart brackets x2
- 8-18 Phillips flat head screws, painted white x8
- 8-18 Phillips/Robertson pan head screws x4

Duo Recessed Installation Sheet

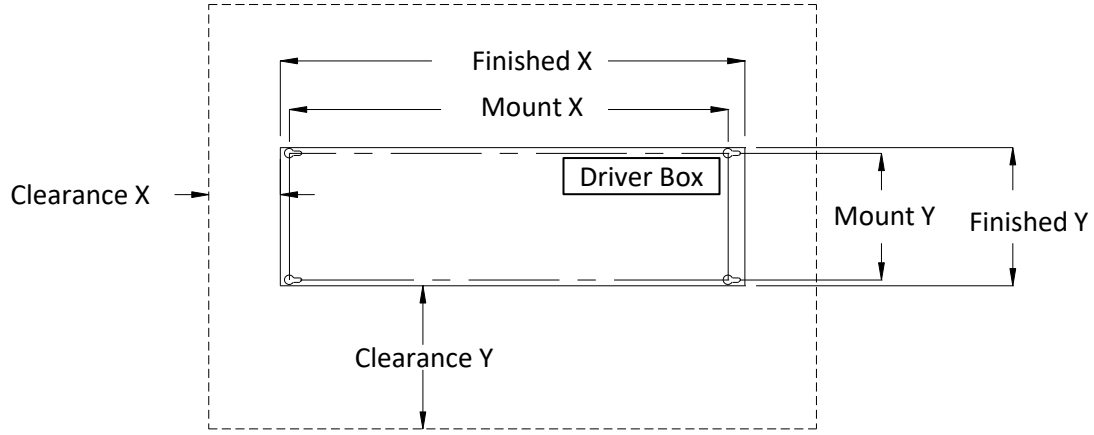
Scan or click Link

Tools required: #2 Phillips screwdriver, 3/8" socket wrench, and 7/16" hex x 3/8" drive socket with 4'' minimum extension.

Hardware required: 4x 1/4" hex head bolts; or 4x 1/4" studs, 4x 1/4" nuts, and 4x 1/4" washers

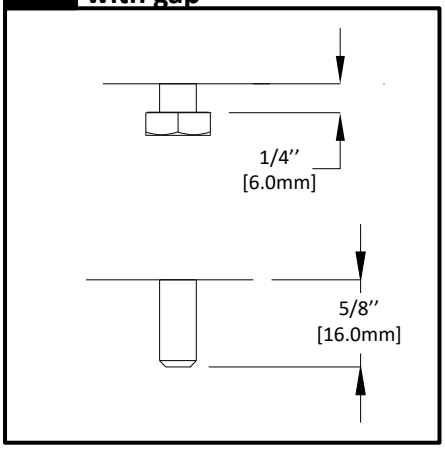
ATTENTION: Install in accordance with local and national building and electrical codes.

IS-DuoSF Duo Surface Mount Installation Sheet



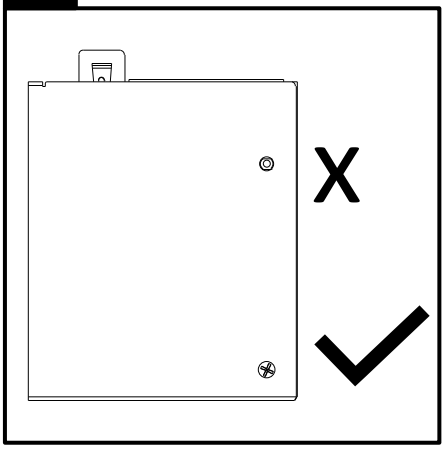
SIZE	Catalog Code	Mount X	Mount Y	Finished X	Finished Y	Clearance to install X	Clearance to install Y
2'x2'	300SM22W	24-5/16" [618mm]	25-7/8" [657mm]	27-1/8" [689mm]	27-1/8" [689mm]	8" [200mm]	16" [400mm]
1'x4'	300SM14W	48-5/16" [1227mm]	13-15/16" [354mm]	51-1/8" [1299mm]	15-1/8" [386mm]	8" [200mm]	16" [400mm]
2'x4'	300SM24W	48-5/16" [1227mm]	25-7/8" [657mm]	51-1/8" [1299mm]	27-1/8" [689mm]	8" [200mm]	16" [400mm]

1 Install mounting hardware with gap



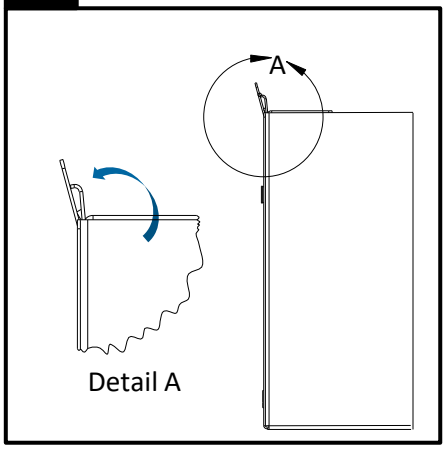
Install four ¼" hex head bolts or ¼" studs (supplied by others) in locations Mount X and Mount Y according to table above. Do not fully tighten. For bolts: leave a 6mm (1/4") gap to the ceiling. For studs: leave a minimum 16mm (5/8") gap to ceiling.

2 Install bottom screws



Arrange panels into a box. Install 4x 8-18 Phillips white painted screws at the bottom corners. Do not install top screws. Check that corners are tightly joined.

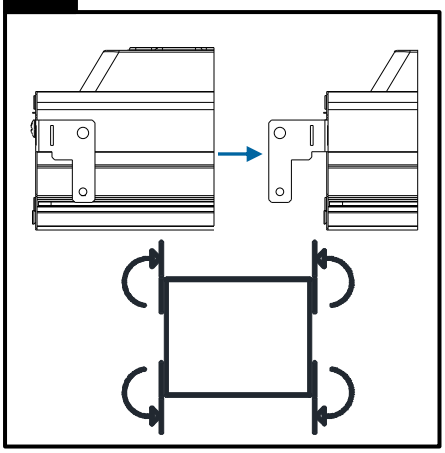
3 Bend tabs out



Bend all 4 tabs 10-15 degrees away from the box. This will make installation easier.

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

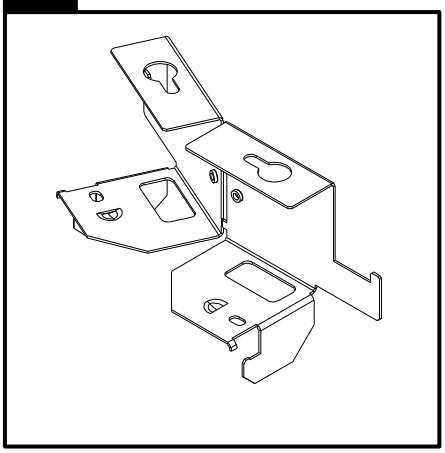
4 Bend mounting tab



Place the lighting fixture on a flat surface. The mounting tab will be bent close to the aluminum extrusion on the 4 corners.

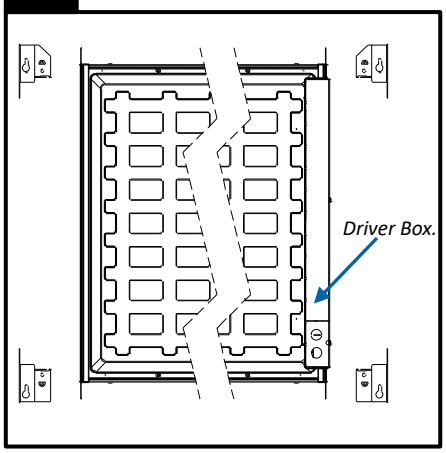
Pull the mounting tabs away from the sides of the fixture and bend them the opposite direction. All four mounting tabs will now be in-line with the aluminum extrusion.

5 Break apart brackets



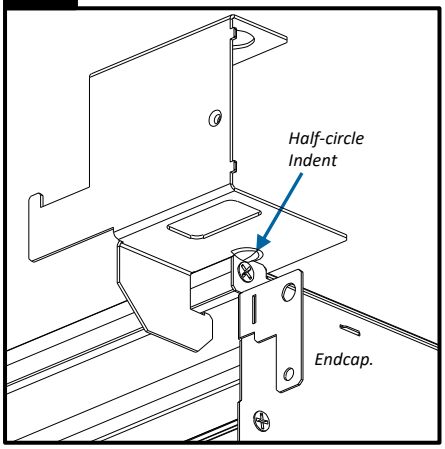
Bend brackets back and forth to weaken connector tabs and snap apart into two pieces. Repeat for second bracket. You will now have four pieces.

6 Align keyholes



Place one bracket beside each corner. Align keyholes to each other. Keyholes are oriented parallel to the driver box.

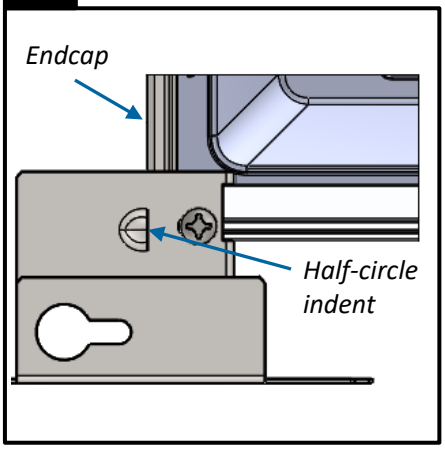
7 Engage half-circle indent



Rotate the bracket onto the extrusion. Adjust the position of the bracket until the half circle indent is touching the endcap.

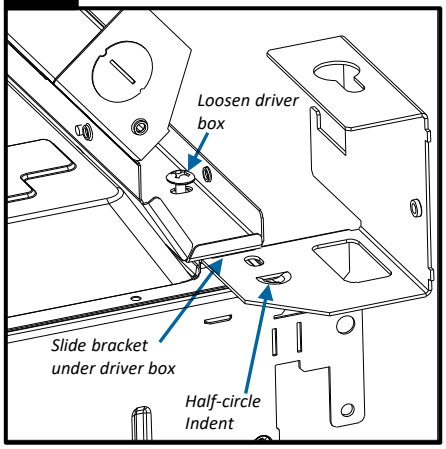
NOTE: Follow steps 8 and 8.1 closely to ensure proper engagement.

8 Install brackets



The bracket **MUST** fully rest on the aluminum extrusion, and the endcap **MUST** be touching the flat side of the Half Circle Indent on the bracket. Install a bracket at each corner with one 8-18 Phillips/Robertson pan head screw provided (***DO NOT overtighten***). Repeat for all four corners.

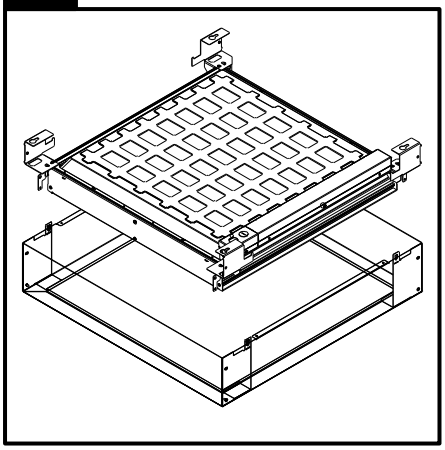
8.1! Install brackets



If the driver box prevents the Half-circle indent from touching the endcap, slightly loosen the screws fixing the driver box to the aluminum extrusion and slide the bracket underneath without unhooking the wiring. Lastly, retighten the driver box's screws and close it.

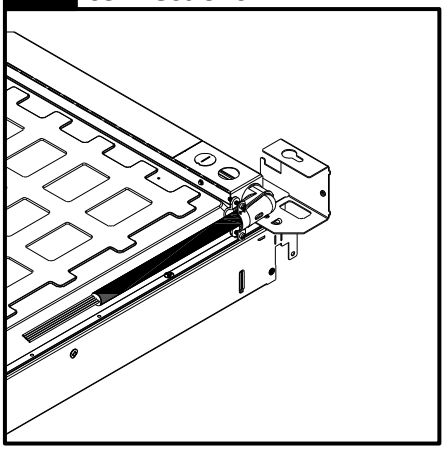
! ATTENTION: Install in accordance with local and national building and electrical codes.

9 Check bracket alignment



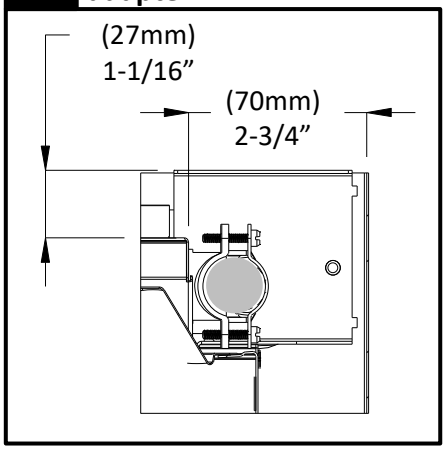
Dry fit the fixture with brackets into the assembled box (do not install top screws). Check bracket hole alignment with the holes in the box. The fixture will sit approximately 1mm above the bottom of the box. Remove fixture from assembled box.

10 Prepare electrical connections



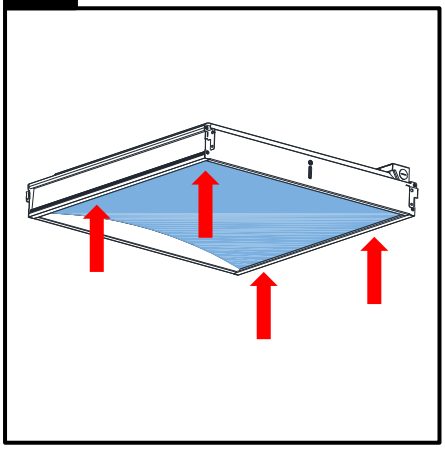
Prepare electrical conduit connections to the driver box. See installation sheet for electrical connections instructions for Duo Recessed Families - Installation Sheet*: IS-Duo (steps 5-7)*.

11 Install 90-degree conduit adapter



A 90-degree elbow, 3/4 female x 3/4 NPSM male conduit adapter is recommended. Clearance between driver box and cover is 2.75” (70mm). Clearance from the top of the standard driver box to ceiling is 1-1/16” (27mm). For the Emergency Driver box, the clearance to the ceiling is 3/8” (10mm).

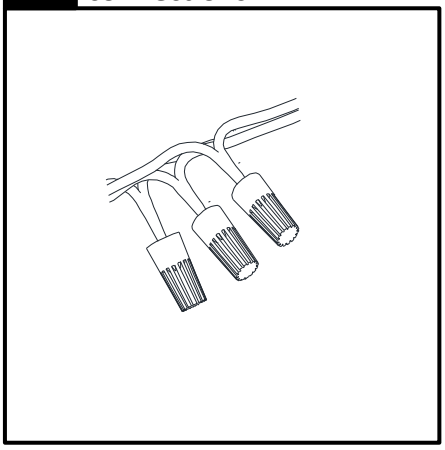
12 Handle with care!



NOTE: DO NOT PUSH ON FIXTURE LENS! ONLY SUPPORT FIXTURE BY SIDE ALUMINUM RAILS.

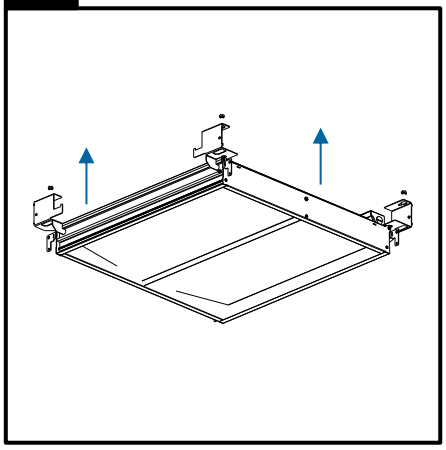
- **Do not put pressure on the lens during installation.**
- Lift using both hands from the edges only.

13 Make electrical connections



Support fixture assembly (without box) below the ceiling and make electrical connections.

14 Lift to ceiling

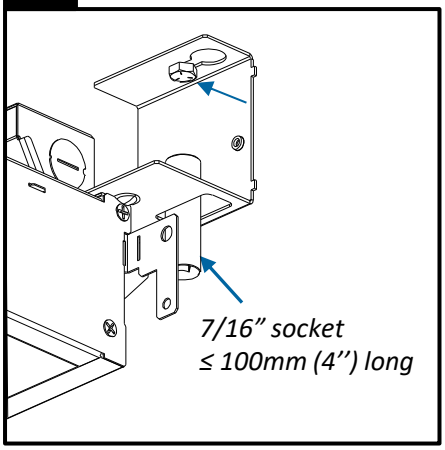


Line up the fixture assembly to the ceiling mounting locations and suspend with brackets through the keyholes onto the ceiling bolts.

NOTE: Two people are recommended for this step and following steps for 1’x4’ and 2’x4’ fixtures.

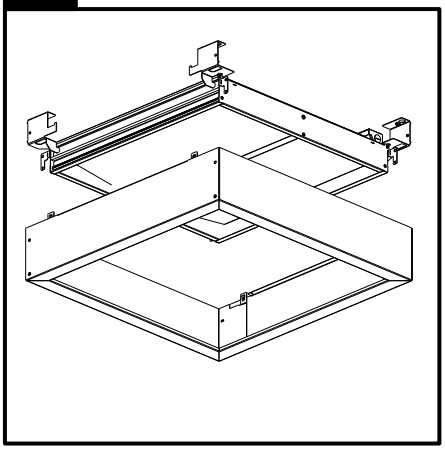
! ATTENTION: Install in accordance with local and national building and electrical codes.

15 Fully tighten bolts



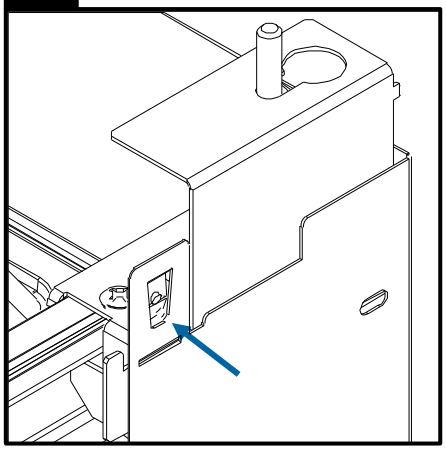
Slide fixture to the narrow end of the key holes. Fully tighten bolts. Use 7/16" socket x 3/8 sq drive with extension with minimum total length 100mm (4.0"). For studs, install washers and nuts and fully tighten.

16 Position Box



Lift box up around the suspended fixture with brackets. Tabs will prevent the box from reaching the ceiling.

17 Bend tabs



Push down the tabs over the bracket, about 120 degrees. The tabs prevent the box from falling during installation.

18 Bend tabs

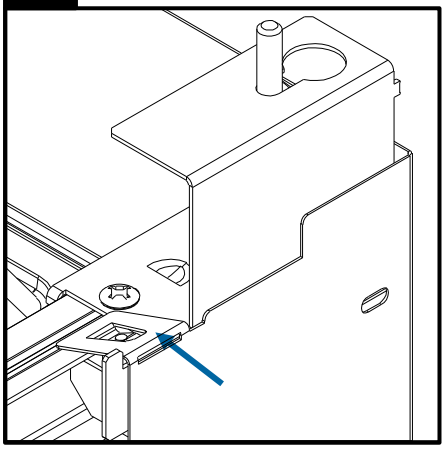
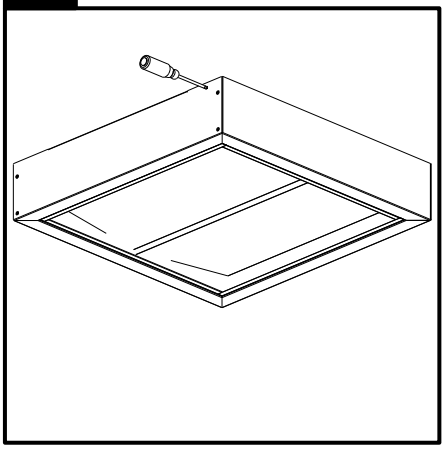


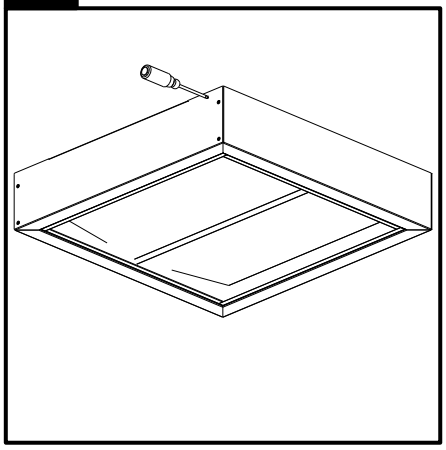
Illustration of bent tab.

19 Install top screws



Lift the box to have the bracket holes in line with the box top holes. Install 4x 8-18 Phillips white painted screws at the top corners, through the end panels to the brackets. Use #2 Phillips screwdriver. Installation is complete.

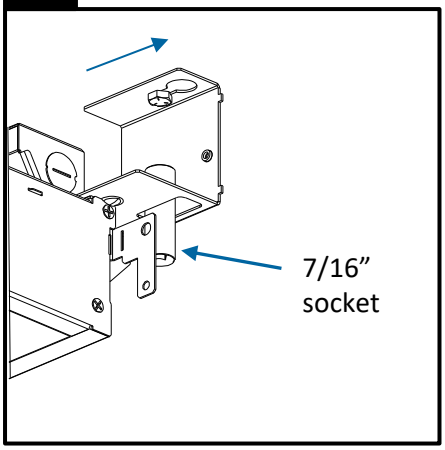
20 Uninstall directions (1/2)



To uninstall the surface mount frame and service the driver box, remove 4 screws from top of the box and lower the box. Unbend tabs at each corner and remove panels. **NOTE: Two people are recommended for this step and following steps for 1'x4' and 2'x4' fixtures.**

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

21 Uninstall directions (2/2)



Loosen hex head bolts with 7/16” socket with extension.

Slide fixture in key holes and lower.

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

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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