

OPEN I/D and Direct, Wall Wash I/D and Direct

INSTALLATION INSTRUCTIONS

PIN006800 Rev. F

10/2021

OPM4/OPM4W/OPMW/OPMS

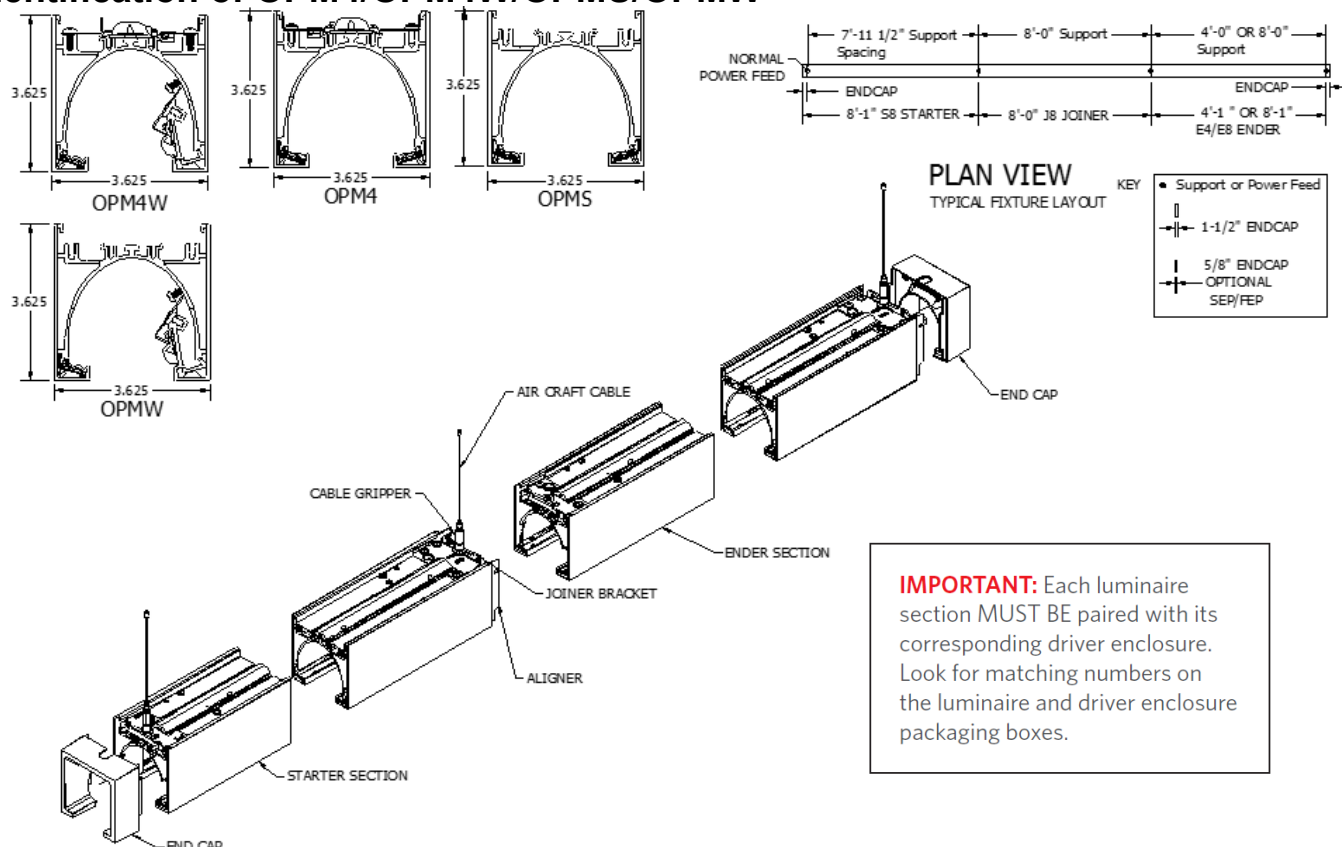
These installation instructions are used for installing the following luminaires and kits:

Fixture	Mounting Kit	Driver Kit
OPM4/OPM4W/ OPMS/OPMW	OPMFK,OPMSK	OPM4DK,OPM4WDK, OPMSDK,OPMWDK

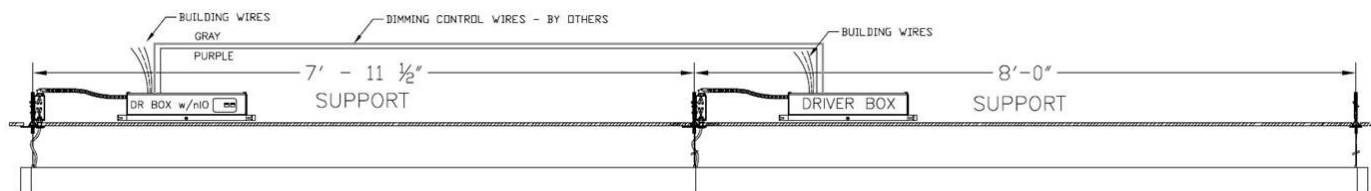
WARNING: Please read the “important safety instructions” prior to installation of this product.

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A) Identification of OPM4/OPM4W/OPMS/OPMW



B) Overview of Completed Installation

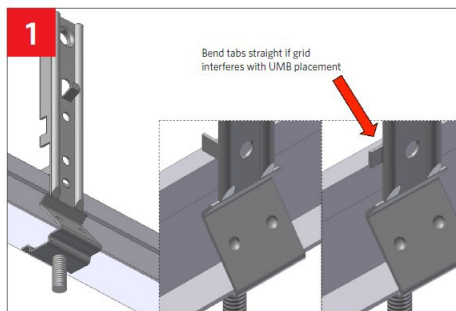


nLIGHT— One nIO control per 15 drivers or zone

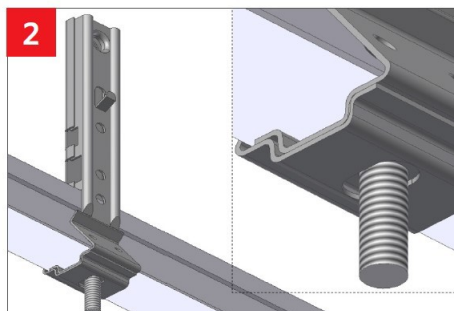
Dimming control wires — connected from driver box to driver box by others.

Each luminaire (4', 6' and 8') section requires its own driver enclosure.

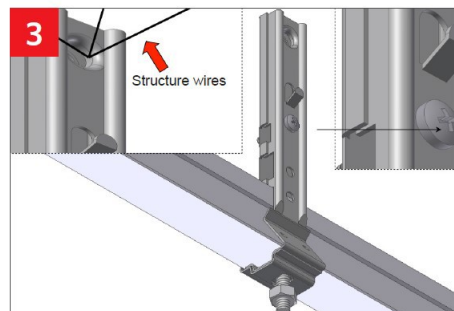
C) Remote Driver Installation for Grid Ceilings (F1)



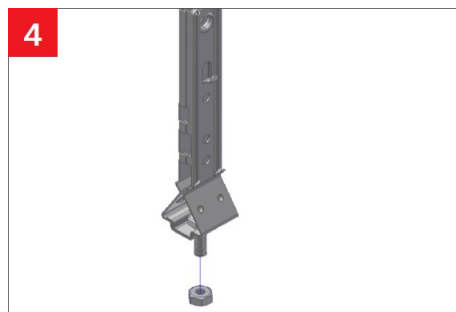
1 For On-Grid Installations follow Steps 1-3 then skip to Step 7: In an accompanying hardware box, locate a Universal Mounting Bracket (UMB). Insert bolt into bottom hole of Bracket A, then hook Bracket A onto grid.



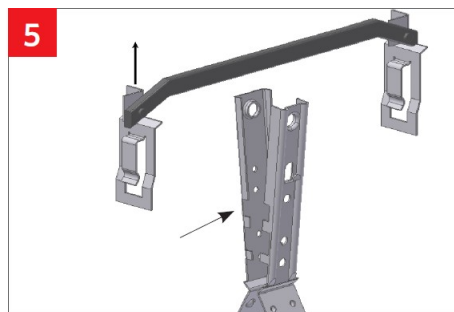
2 Hook Bracket B onto Bracket A. Letters are clearly marked on the UMB.



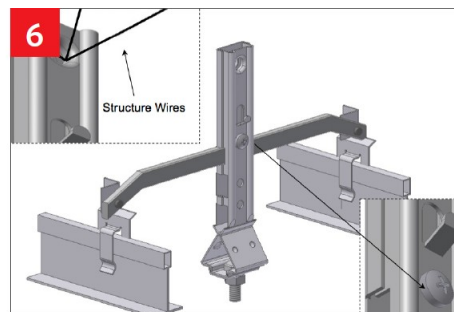
3 Adjust brackets to proper location along the ceiling grid then screw sides A to B together. Secure the brackets to the building structure per local building codes.



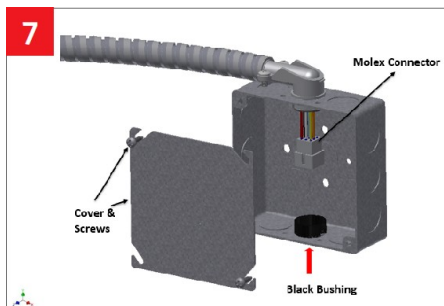
4 For Off-Grid Installations skip Steps 1-3 and begin here at Step 4: In an accompanying hardware box, locate a Universal Mounting Bracket. Insert bolt into Bracket A. Hook Bracket B onto Bracket A. Secure with nut (DO NOT TIGHTEN).



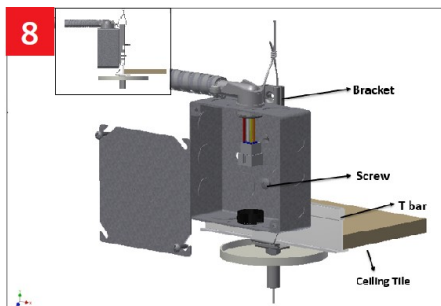
5 Slide hanger (by others) onto Caddy Bar and fit Caddy Bar into upper slots in bracket.



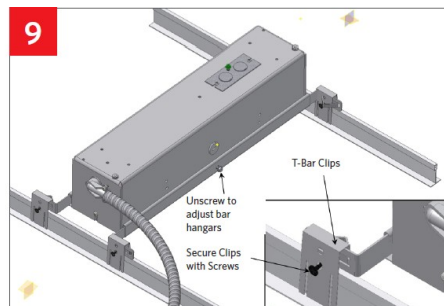
6 Adjust brackets to proper location along the ceiling grid then screw sides A to B together. Secure the brackets to the building structure per local building codes.



Locate the matching driver enclosure box for the luminaire section currently being installed. Remove cover from provided J-box by unscrewing (2) #8 screws. Attach black bushing to J-Box.

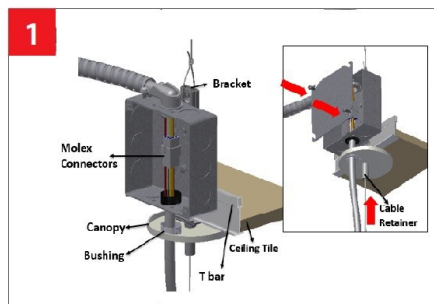


Hang J-box assembly onto Bracket A tab then screw J-box to bracket.

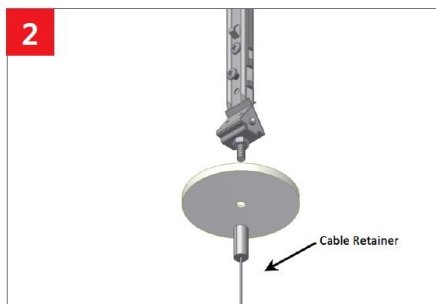


Position field mounting tray in desired locations across a 2' section of the ceiling grid. Adjust bar hangers to correct width by loosening side screw and then re-tightening to lock in place. Secure ends of bar hangers to T-bar using provided T-bar clips and screws. T-bar clips and #10 screws can be found in a prepacked plastic bag.

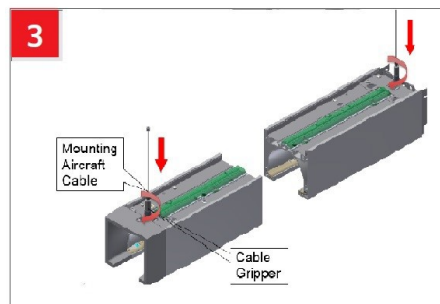
D) Luminaire Installation for Grid Ceiling (F1)



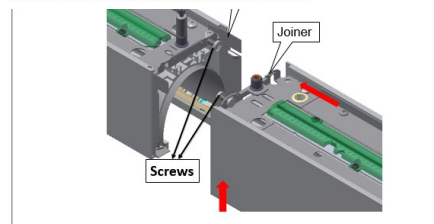
At power feed locations: Insert feed cord with pre-installed molex connectors (leading out from luminaire) into J-box through bushings and canopy. Place canopy flush with ceiling tile. Thread cable retainer onto bolt. Connect wire connectors and install the cover to the J-box with screws.



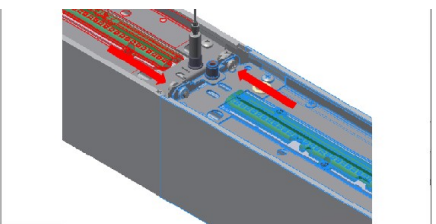
At non power feed locations: Assemble UMB onto grid (as in C1-3) or caddy bar (as in C4-6). Place canopy flush with ceiling tile. Thread cable retainer onto bolt no less than $\frac{3}{4}$ " of the way up.



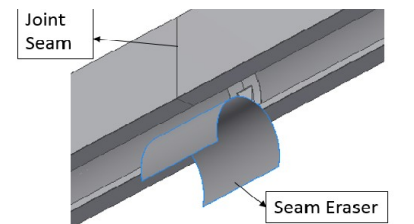
Raise starter (or individual) luminaire into position. Insert aircraft cable into gripper by loosening the safety cap atop the cable hanger. Re-tighten safety cap and insert extra cable into end cap hole. Repeat Step 3 on both ends of the luminaire.



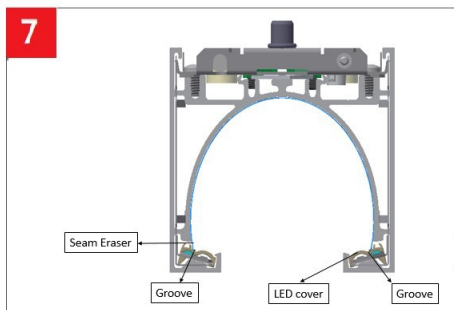
Lift the next unit to the same level as first unit, remove the screw from the joiner.



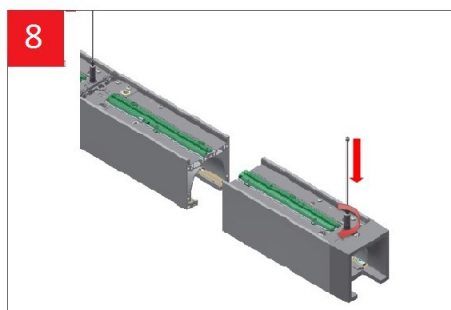
Align and push together the two units to join. Put the (2) #10 screws on to secure the two joiner brackets.



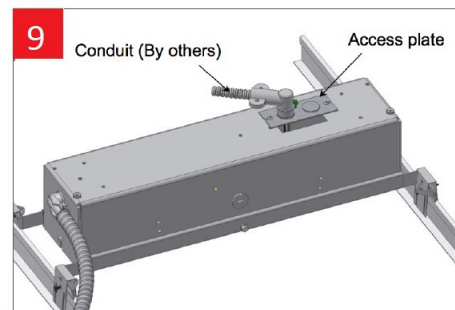
Install the seam eraser white optic piece in the down light housing across the joint seam between the two connected sections.



Adjust seam eraser to fit in the housing arch profile and sit the eraser on the LED cover groove not blocking emitting light.



Repeat step 3 to 8 as necessary to complete the installation of multiple sections run. Level the end unit by adjusting cable gripper and tighten all cable gripper caps.



Unscrew and remove access plate on driver box. Run building wires to driver box. Knock out one hole in access plate. Pass building wires through hole. Perform wire splices, insert wires back into enclosure and reattach access plate.

E) Driver Box Input Wiring (F1&F2)

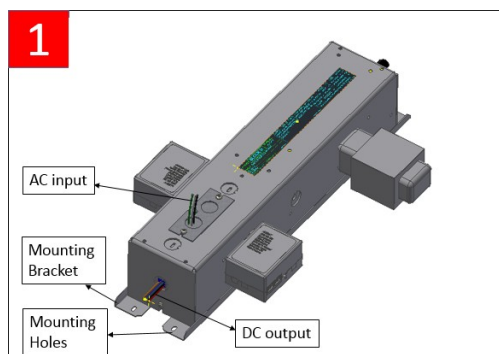
OPEN driver box runs on specific AC voltage (120,277,347 VAC) with a nomenclature label applied on top of driver box. Please validate the voltage against the label before power up any driver box to avoid any damage to driver box components. The access plate can be unscrewed to access the AC input wires and DC dimming input wires to the driver boxes.

AC Input Wires: **Black**--AC Hot #A, **Red**--AC Hot #B, **White**--Neutral, **Green**--Ground, **Orange**--Emergency Hot (Or Un-switched Line), **White/Orange stripe** --Emergency Neutral.

Dimming Input Wires: **Purple**--0-10V/DALI + (Dimming #A), **Pink**--0-10V/DALI – (Dimming #A), **Blue**--0-10V+ (Dimming #B), **White/Blue Stripe**--0-10V- (Dimming #B).

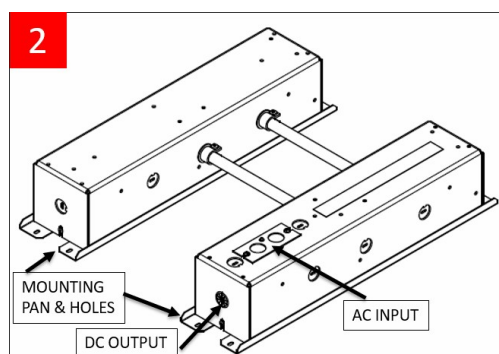
There is also tag label bundle onto the input wires at access plate. For Nlight-enabled driver boxes, the Nlight controller needs to connect to Nlight network through CAT5E cable (provided by others).

F) Remote Driver Installation for Hard Surface Ceilings (F2)



Locate matching driver enclosures for each luminaire and place in electrical room.

Secure the driver enclosure with mounting brackets (provided) and screws (by others).

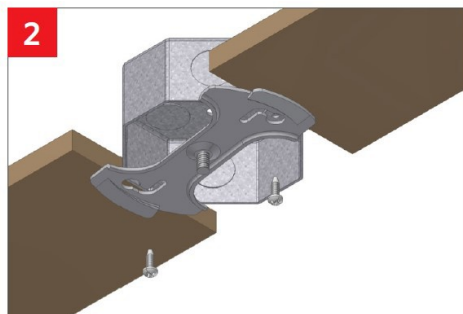


Alternate Double Driver Box.

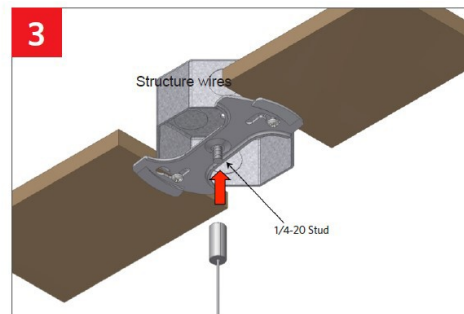
G) Luminaire Installation for Hard Surface Ceilings(F2)



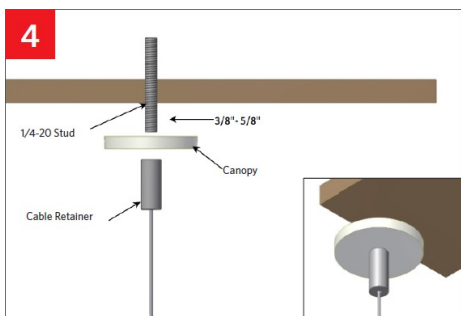
At power feed locations: Install a 4" octagonal J-box (by others) into the ceiling. Make sure the bottom edge sits flush with ceiling level. .



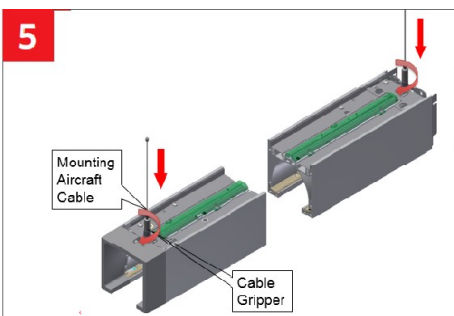
Attach a mounting strap to the J-box using (2) #8 screws and fasten securely..



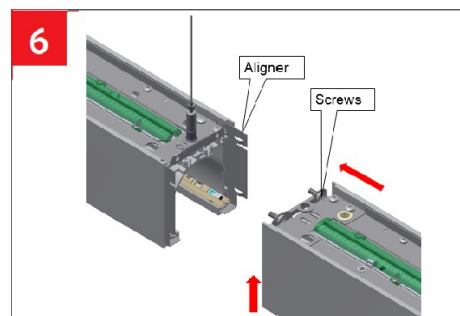
Secure the cable retainer to the 1/4-20 stud.



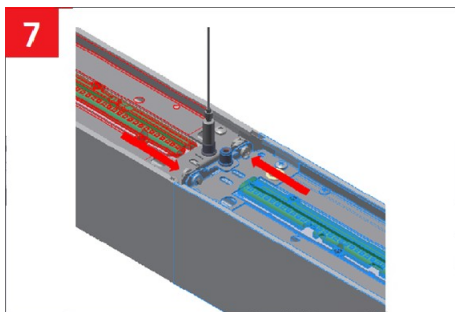
At non-feed locations: Secure 1/4-20 stud approximately 3/8" to 5/8" below ceiling. Insert canopy and securely fasten the cable retainer.



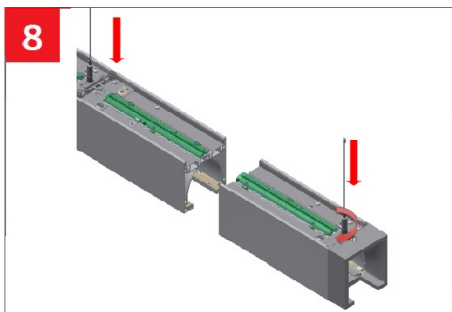
Raise starter (or individual) luminaire into position. Insert aircraft cable into gripper by loosening the safety cap atop the cable hanger. Re-tighten safety cap and insert extra cable into end cap hole. Repeat Step 3 on both ends of the luminaire.



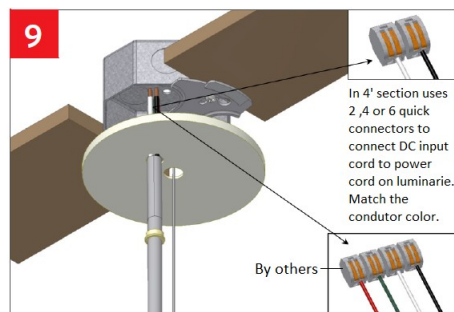
Lift the next unit to the same level as the front unit.



Align and push together the two units to join. Put the (2) #10 screws on to secure the two joiner brackets together. Put the seam eraser white optic piece in the down light housing across the middle beam between the two joined sections.

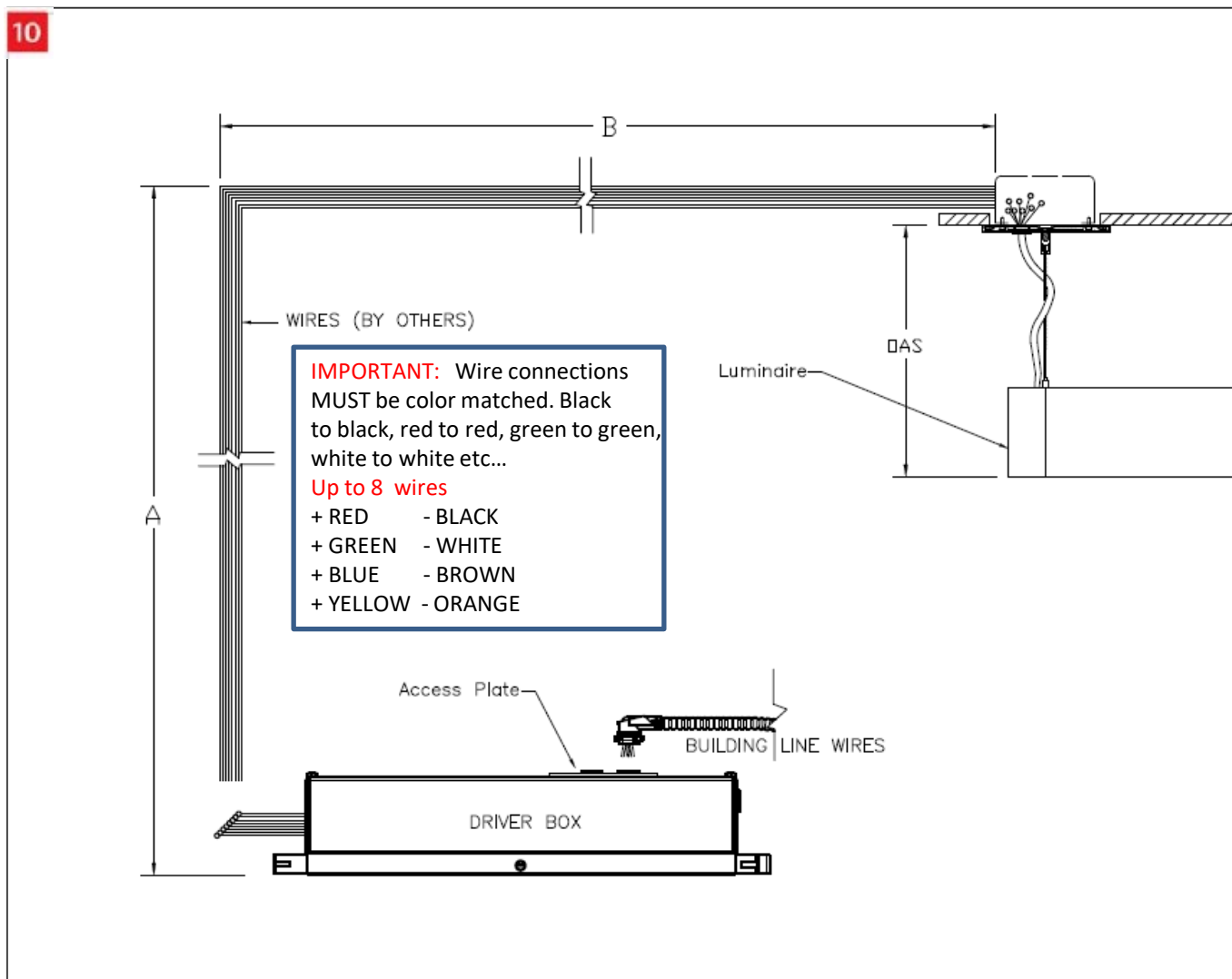


Repeat step 5 to 7 as necessary to complete the installation of multiple sections run. Level the end unit by adjusting the cable gripper and tighten all cable gripper caps afterwards. Hide extra length cable under mounting bracket.



Insert white 7/8" bushing on luminaire power cord. Remove canopy and pass the luminaire power cord through the canopy. Using wire connectors to connect matched color wires. Install the insulated crimp strain relief above the canopy. Reinstall the canopy to mounting strap.

10



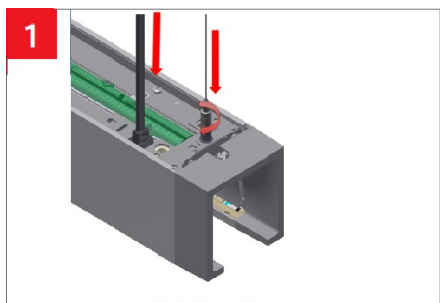
Connect red, black, green, white, blue, brown, yellow and orange wires coming out of the driver enclosure and into terminal blocks to matching set of colored wires (by others) leading to luminaire. Next, at the luminaire, connect run of wires (by others) to terminal blocks underneath J-box making sure colors match. Unscrew and remove access plate on driver enclosure. Run building wires to driver enclosure. Knock out one of the hole in access plate. Pass building wires through hole. Perform wire splices, insert wires back into enclosure and reattach access plate.

IMPORTANT:

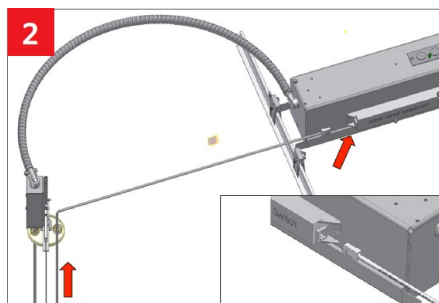
Run wires (by others) from the driver enclosure to the luminaire following these requirements below. Maximum distance must not be exceeded.

Wire Gauge	Maximum Distance (ft.)
18	$56 < (A + B + OAS)$
16	$102 < (A + B + OAS)$
14	$176 < (A + B + OAS)$
12	$272 < (A + B + OAS)$

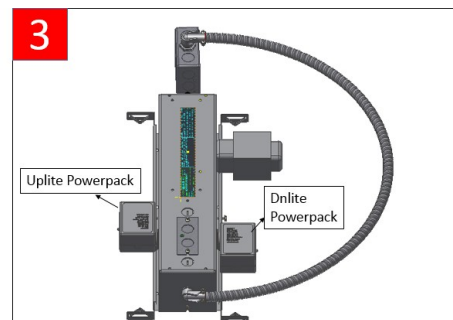
H) Cat-5e Installation for Integrated Sensor



Connect Cat-5e cable into receptacle of sensor on the topside of the luminaire.

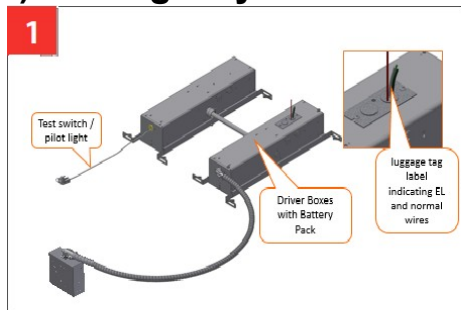


Connect other end of Cat-5e cable by passing cord through bushing on canopy then over and into the power pack attached on side of the driver enclosure. For hard ceiling installations, use longer Cat-5e cable (by others) to reach driver enclosure. A coupler is provided.

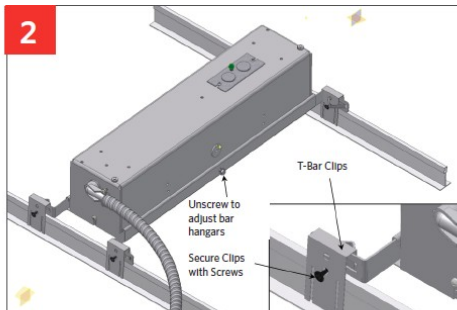


For Dual Circuit Control, the two power packs need to connect to each other with a CAT-5E cable. The third unused power pack port can be used to connect nlight network, the fourth port can be used to connect to embedded sensor from luminaire.

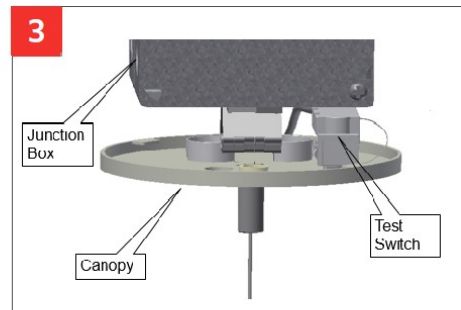
I) Emergency Power Installation



Identify the matching emergency driver enclosure for the section needs to be installed. Follow the instruction of Remote Driver Installation for Grid Ceilings step 1 to 8. Install test switch to the extension plug, shove the extra harness back to driver box.



Position field mounting tray in desired locations across a 2' section of the ceiling grid. Adjust bar hangers to correct width by loosening side screw and then re-tightening to lock in place. Secure ends of bar hangers to T-bar using provided T-bar clips and screws. T-bar clips and #10 screws can be found in a prepacked plastic bag.



Install the test switch for the emergency battery pack on the canopy which under the junction box. Connect the wires in the junction box according to the instruction of installing remote driver luminaire for grid ceilings.

The installation instruction sheet can be obtained from the mounting kits or downloaded from www.PeerlessLighting.com

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