

Installation Instructions



ALPINE SURFACE DOWNLIGHT™

Solid State LED with Color Tuning



Warning



Hot Surface



Low Voltage

TOOLS NEEDED:		3/32" Allen Wrench
		Waterproof Wire Connectors
By Others		Mounting Hardware
		Mounting Hardware for Substrate
		Light Commissioning Tool (LCT)

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS

Lighted fixture is HOT!

WARNING - To reduce the risk of FIRE OR INJURY TO PERSONS:

Turn off/unplug and allow to cool before replacing LED. Fixture gets HOT quickly! Contact only switch/plug when turning on. Do not touch hot lens, guard, or enclosure. Keep fixture away from materials that may burn. Do not operate the luminaire fitting with a missing or damaged shield. Do not touch the source at any time. Use a soft cloth or gloves. Oil from skin may cause damage.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INFORMATION - READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS

- Product must be installed by a qualified person in a manner consistent with its intended use and in compliance with the National Electrical Code, Canadian Electrical Code, and all Local and Provincial Codes.
- Follow product label information and instructions.
- Qualified Personnel with appropriate personal protective equipment must perform all servicing of this product.
- Before wiring to power supply and during servicing, turn off and lock out power at fuse or circuit breaker before service.
- The use of accessory equipment not recommended by the manufacturer or installed contrary to instructions may cause an unsafe condition. The use of damaged components may cause an unsafe condition and void product warranty.
- Do not block light emanating from product in whole or part, as this may cause an unsafe condition.
- Never operate the fixture with missing or damaged lens. Lens must be cleaned on regular basis.
- Entire fixture may become extremely hot. Do not touch hot lens or fixture body.
- Replace LED assembly only with correct wattage and type of power supply appropriate for LED assembly.
- All gaskets, o-rings and sealing surfaces must be kept clean during installation and service; failure to do this may cause an unsafe condition and void product warranty.

IMPORTANT LISTINGS AND CERTIFICATIONS

- Suitable for wet locations

⚠ REMOTE WIRING

LED Driver

Remote driver installations require inter-connected wiring between the LED and driver (by others). Drivers have specific wiring requirements between these components. Driver manufacturers regularly recommend the following wiring details for such installations:

- Do not exceed 50 foot overall wiring distance using 12 gauge copper wire.

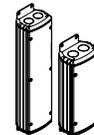
Failure to comply with specific wiring requirements will void product warranty.

⚠ DRIVER HOUSING REQUIRED

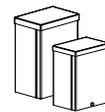
Please refer to specified remote driver housing documentation for detailed installation instructions.

REMOTE DRIVER HOUSINGS:

- PM3RM** - Universal Power Module 3 Remote
- PM3DRM** - Universal Power Module 3 Dual Remote
- RM** - Remote Wall Mount
- DRM** - Dual Remote Wall Mount



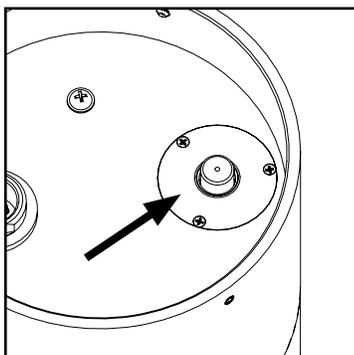
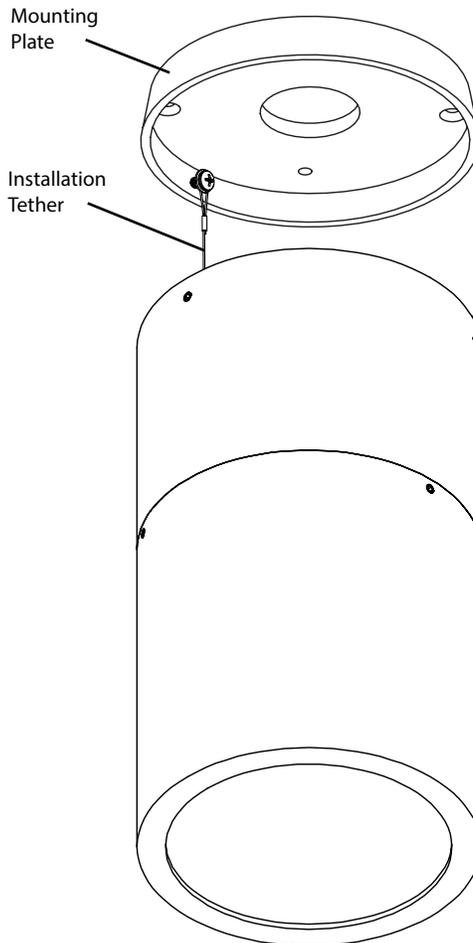
PM3RM & PM3DRM



RM & DRM

⚠ Wireless Requirements

- ⚠ **LCT (Light Commissioning Tool) is required for wireless operation. (Sold Separately). LCT must be within 10 meters range of fixture for wireless operation.**



ACV™ Valve (Interior View)

IMPORTANT SAFETY INFORMATION - READ, FOLLOW, AND SAVE THESE INSTALLATION INSTRUCTIONS

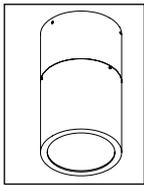
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Installation Instructions

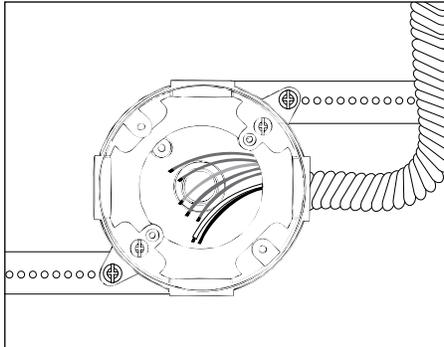


ALPINE SURFACE DOWNLIGHT™ Solid State LED with Color Tuning

⚠ LCT (Light Commissioning Tool) (Not Included) required for LCT option.

Phase 1 - Rough In

Installation of Back box

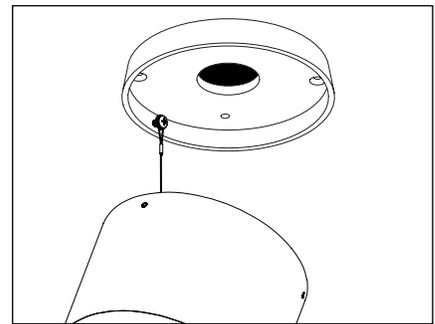
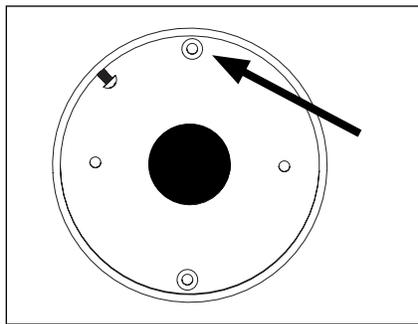
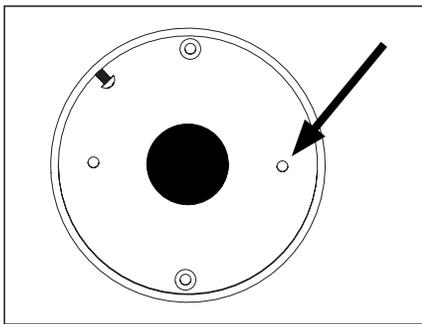


Additional Info

- Please follow National and Local electrical codes for your area.
- 4" round cast box is provided with Five (5) 1/2" threaded hubs for conduit entry (4 on sides and one on back of box).
- Suitable for through wire
- Suitable for installation into combustible materials.
- Rated for 90° C.
- Junction box, universal mounting ring screws, box mounting hardware and gaskets (By Others)

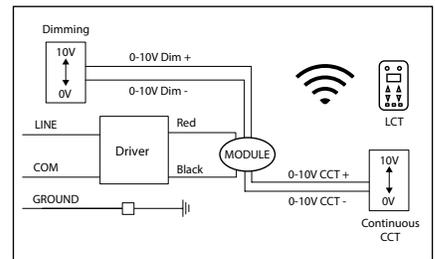
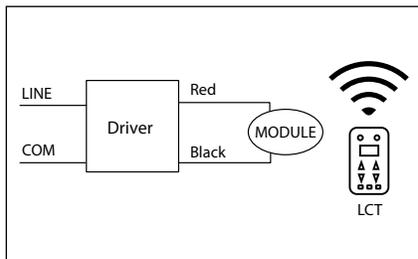
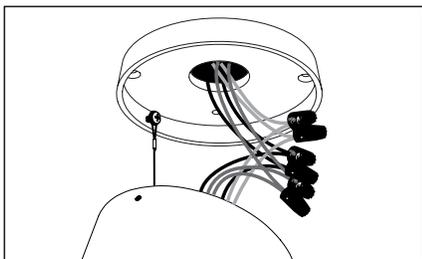
1. Install Conduit (By Others) to be used with this product.
2. Install junction box (By Others) so that front face is flush with finished ceiling. Seal building envelope as per NEC.
3. Connect box to conduit and pull wires for connections (See wiring diagram).

Phase 2 - Finish Installation of Fixture



1. There are two holes for junction box mounting in mounting plate. Install mounting plate to junction box with mounting hardware (Hardware By Others).
2. There are two holes for mounting the mounting plate to substrate. Secure mounting plate to substrate with mounting hardware appropriate for substrate material (Hardware By Others). Seal building envelope as per NEC.
3. Attach tether wire under screw head at the side of installed mounting plate. Slowly lower the fixture until tether is taut.

⚠ NOTE: Installation tether supplied is designed as an installation aid and NOT a safety cable. Do not add weight to, or drop fixture.



4. Pull remote wiring and external controls through mounting plate. Make watertight connections from remote driver to fixture leads using waterproof wire connectors (By Others). See wiring diagrams.

⚠ NOTE: Number of wires and connections varies with wiring as per lighting plan.

- 5a. Secondary wiring from driver connects to LED module leads. LCT controls dimming, CCT, Saturation, and Hue.

⚠ LCT (Light Commissioning Tool) must be within 10 meters range of fixture for wireless operation.

- 5b. Secondary wiring from remote driver connects to fixture leads. 0-10V dimming connects to module. 0-10V Continuous CCT connects to module. LCT controls Saturation, and Hue.

⚠ LCT (Light Commissioning Tool) must be within 10 meters range of fixture for wireless operation.

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READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS**

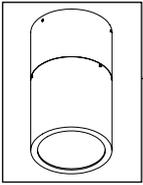


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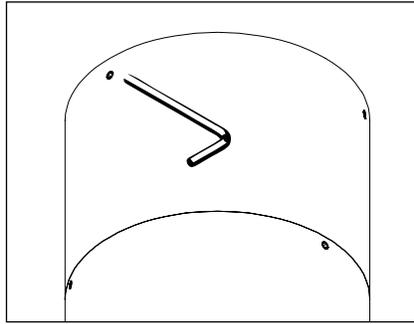
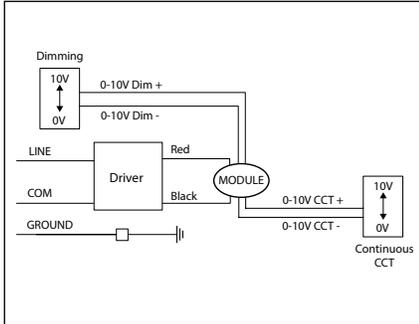


Installation Instructions



ALPINE SURFACE DOWNLIGHT™

Solid State LED with Color Tuning



WIRING DIAGRAM - 0-10V Wired

5c. Secondary wiring from remote driver connects to fixture leads. 0-10V dimming connects to module. 0-10V Continuous CCT connects to module and controls CCT.

6. Place connections through wireway into junction box. Mount fixture over mounting plate, then secure with three (3) #10-32 screws using 3/32" Allen wrench.

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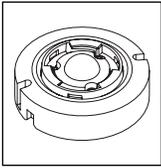


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Module Replacement



LED MODULE / OPTICS 5-1/2" Diameter Surface Mount



Warning



Hot Surface

TOOLS NEEDED:

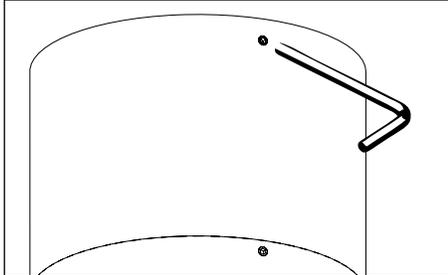
3/32" & .050" Allen Wrench

Thermal Paste (Supplied)

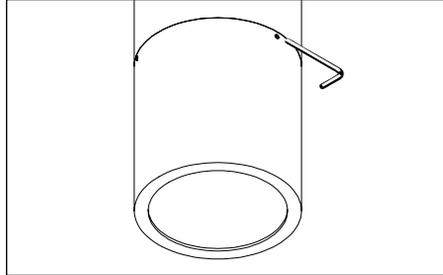
By Others

Phillips Screwdriver

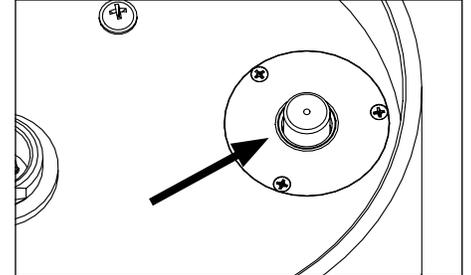
To Replace Components



1. Loosen (3) #10-32 set screws on base with 3/32" Allen wrench. Retain screws in fixture. Gently slide down fixture from mounting base to access ACV™ valve. Do not pull on install tether or leads.

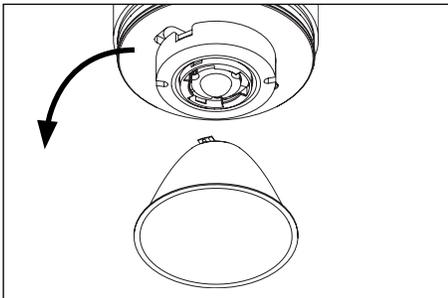


2. Loosen (3) #10-32 stainless steel set screws on cap with 5/32" Allen wrench. Retain screws in cap.

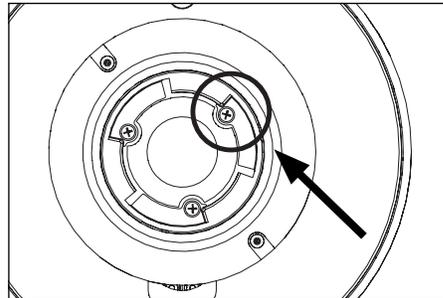


3. Press patented Anti-Condensation Valve (ACV™) to release vacuum created inside the fixture during normal use. The valve is spring-loaded, by depressing it, air is allowed to re-enter the chamber and the pressure is then equalized. When the air-pressure equalizes the cap will release from body to allow service.

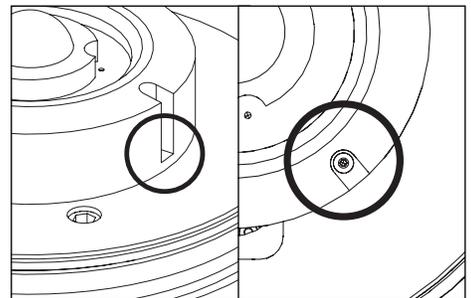
⚠ NOTE: Installation tether supplied is designed as an installation aid and NOT a safety cable. Do not add weight to, or drop fixture.



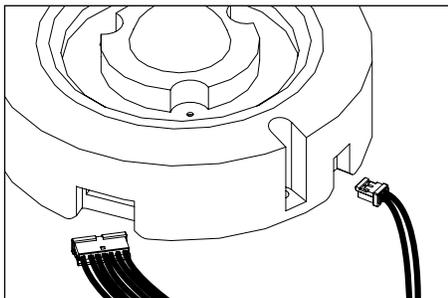
4. Gently twist optic to the left so optic tabs are clear of optic holder and carefully pull away.



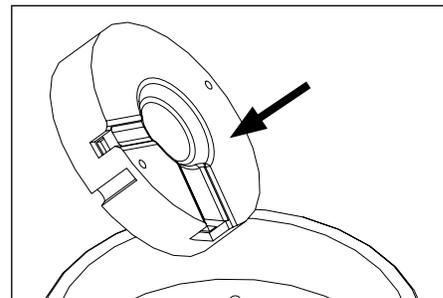
5. Loosen, then remove three (3) #2-28 screws from optic module using a Phillips screwdriver. Remove optic holder from module.



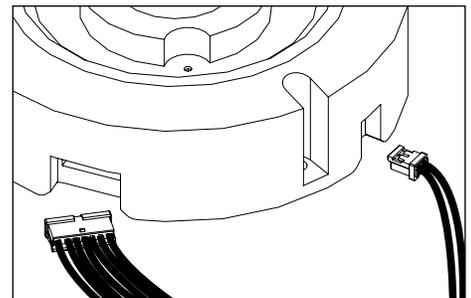
6. Loosen and remove two (2) #2-56 screws holding LED module to heatsink using 0.050" Allen wrench.



7. Carefully remove LED module from heatsink, then disconnect the quick disconnects for the wiring and the control wiring from the fixture to the LED module.



8. Spread thin, even layer of thermal paste on back of new LED module.



9. Connect new LED module to fixture via quick disconnects for wiring and for control wiring.

⚠ Do not pull on connectors or wiring. Handle with care.

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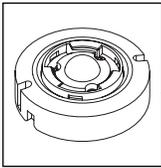
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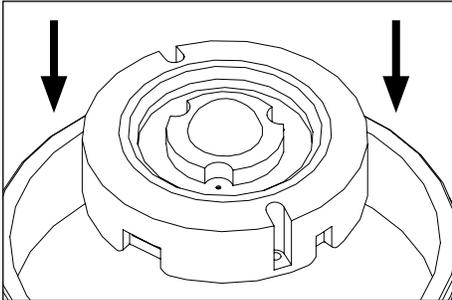
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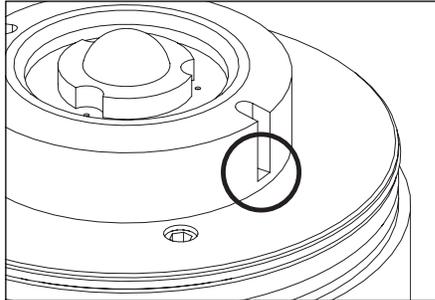
Module Replacement



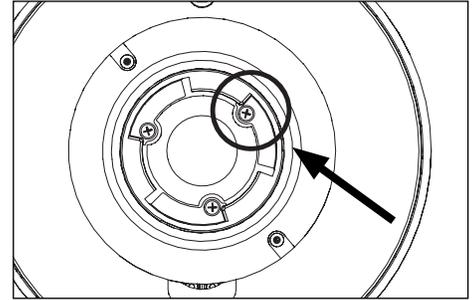
LED MODULE / OPTICS 5-1/2" Diameter Surface Mount



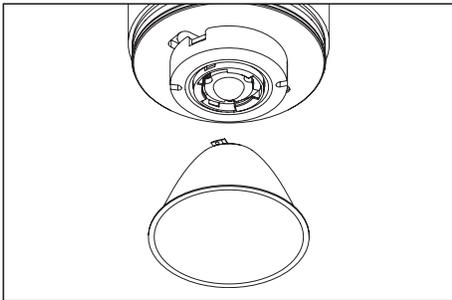
10. Place new LED module onto heatsink, lining up module with holes for screws.



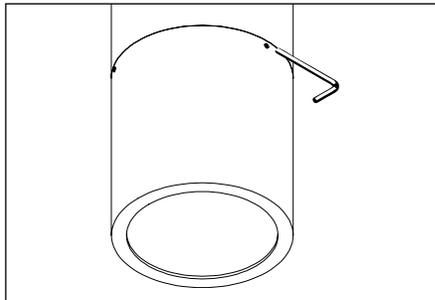
11. Secure LED module to heatsink with two (2) #2-56 screws using 0.050" Allen wrench.



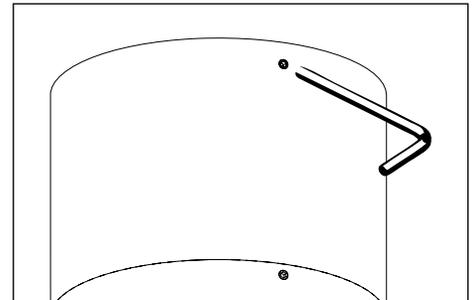
12. Place optic holder back on module. Tighten three (3) #2-28 screws on optic module using a Phillips screwdriver to secure.



13. Line up optic tabs in the optic holder, then gently twist to the right.



14. Place cap on fixture and tighten three (3) #10-32 set screws with 3/32" Allen wrench. Tighten screws to 1/2 in.-lbs. Top of screws should sit flush with fixture cap.



15. Place connections through wireway into junction box. Mount fixture over mounting plate, then secure with three (3) #10-32 screws using 3/32" Allen wrench. **Do not overtighten.**

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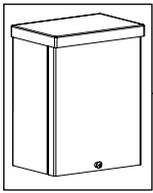
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NEMA 3R Remote Driver Inspiration Control System



Warning



High Voltage



Hot Surface

NEEDED FOR INSTALLATION:		1/8" Allen Wrench
		Phillips Screwdriver
By Others		Level
		Hammer
		Mounting Hardware
		Inspiration Control System on iOS Device

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS

Lighted lamp is HOT!
WARNING - To reduce the risk of FIRE OR INJURY TO PERSONS: Turn off/unplug and allow to cool before replacing lamp. Lamp gets HOT quickly! Contact only switch/plug when turning on.
 Do not touch hot lens, guard, or enclosure (see diagram/picture).
 Keep lamp away from materials that may burn. Do not touch the lamp at any time. Use a soft cloth. Oil from skin may damage lamp.
 Do not operate the luminaire fitting with a missing or damaged shield.

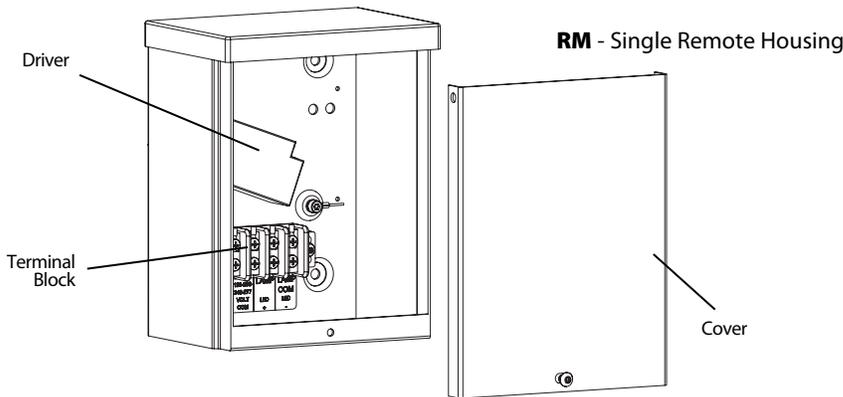
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- Follow product label information and instructions.
- Qualified Personnel must perform all servicing or relamping of this product.
- Before wiring to power supply and during servicing or relamping, turn off power at fuse or circuit breaker before service.
- The use of accessory equipment not recommended by the manufacturer or installed contrary to instructions may cause an unsafe condition. The use of damaged components may cause an unsafe condition and void product warranty.
- Do not block light emanating from product in whole or part, as this may cause an unsafe condition.
- Never operate the fixture with missing or damaged lens. Lens must be cleaned on regular basis.
- Entire fixture may become extremely hot. Do not touch hot lens or fixture body. Do not touch the lamp at any time. Use a clean, dry, soft cloth to handle the lamp. Oil from skin may damage the lamp and cause it to rupture.
- Replace lamp only with correct wattage and type of lamp marked on fixture label.
- All gaskets, o-rings and sealing surfaces must be kept clean during installation and service; failure to do this may cause an unsafe condition and void product warranty.

IMPORTANT LISTINGS AND CERTIFICATIONS

- Suitable for wet locations



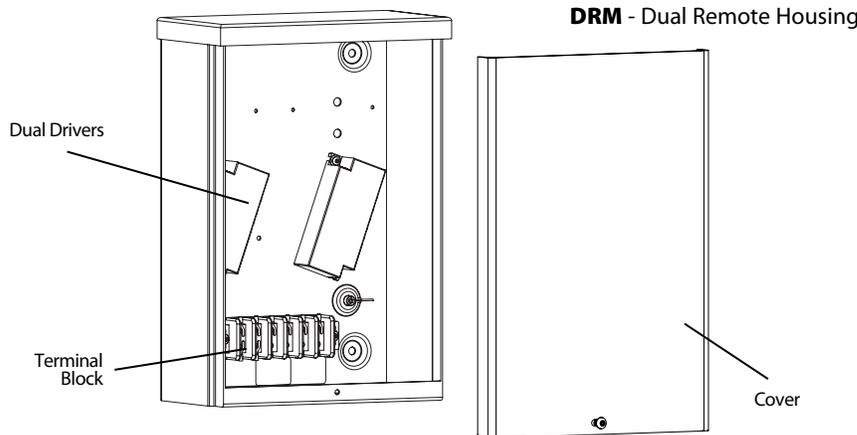
REMOTE WIRING

LED Driver

Remote driver installations require inter-connected wiring between the LED and driver (by others). Drivers have specific wiring requirements between these components. Driver manufacturers regularly recommend the following wiring details for such installations:

- Do not exceed 50 foot overall wiring distance using 12 gauge copper wire.

Failure to comply with specific wiring requirements will void product warranty.



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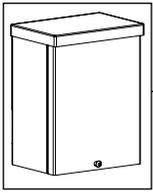
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RELEASE DATE
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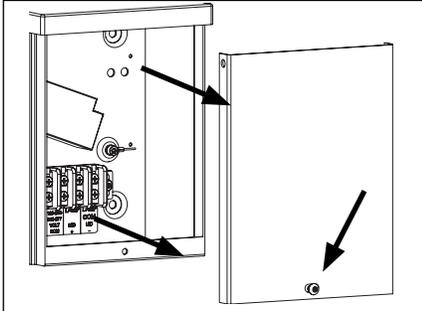
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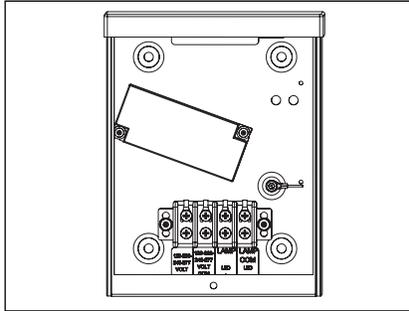


⚠️ iOS device (Not Included) with installed B-K Lighting Inspiration Application required for use.

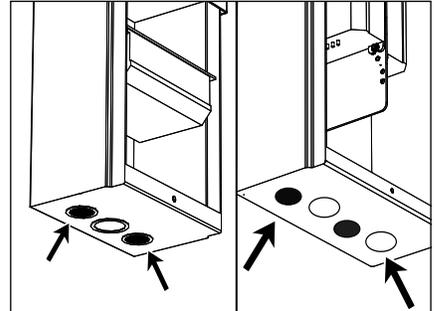
Housing Installation



1. Remove cover by removing #10-24 cover screw using a 1/8" Allen wrench.



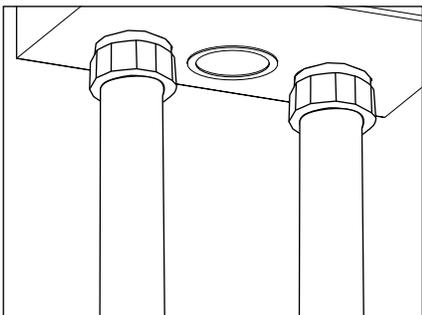
2. Attach the NEMA 3R housing at mounting holes with 1/4" fasteners (By Others). Use suitable mounting hardware for surface. Use level to ensure a level install.



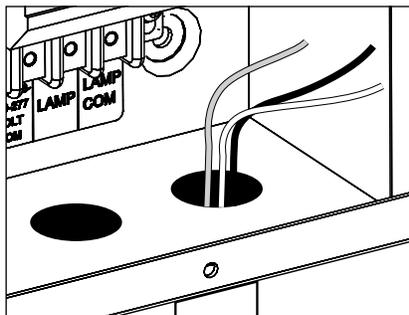
3. Remove Knockout(s) with hammer as needed from the NEMA 3R housing. Leave remaining unused knockouts in place to maintain seal.

⚠️ NOTE: Many methods exist to bolt to a flat surface. The housing is provided with mounting brackets with 1/4" holes.

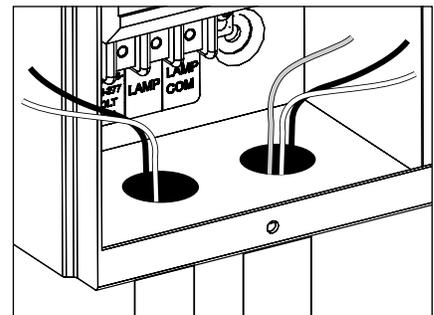
Single Remote Driver



4. Connect conduit connector through female threaded conduit entry.



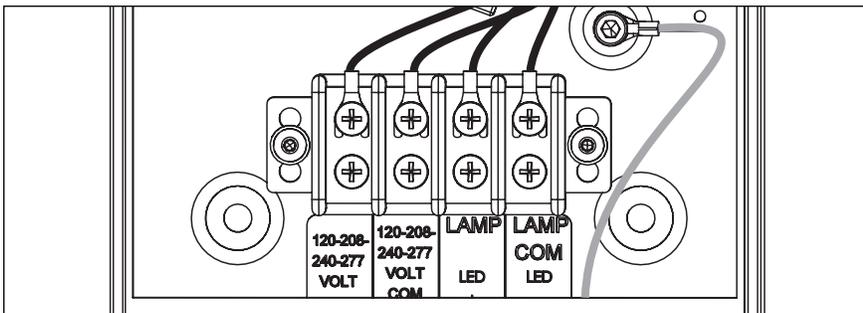
5. Pull branch circuit wiring necessary for installation (By Others).



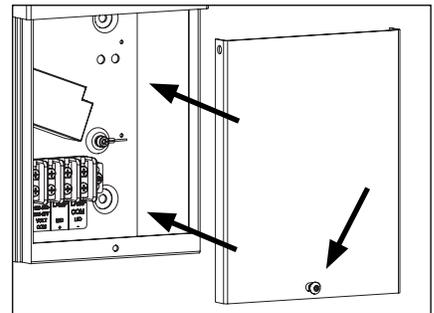
6. Pull secondary leads necessary for installation through dedicated conduit. (By Others).

⚠️ NOTE: Surface conduit is a common entrance for water if not properly sealed. Seal connector threads and conduit with a suitable sealant (Teflon tape, adhesive, etc.). Sealing the conduit after knockouts are removed is required to maintain warranty.

⚠️ NOTE: Failure to comply with specific wiring requirements will void product warranty.



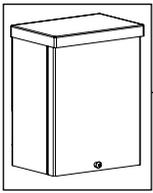
7. Connect branch circuit to terminal block. Connect incoming ground to ground wire provided on NEMA 3R housing. Connect secondary lamp leads to terminal. See labels on terminal block for additional information.



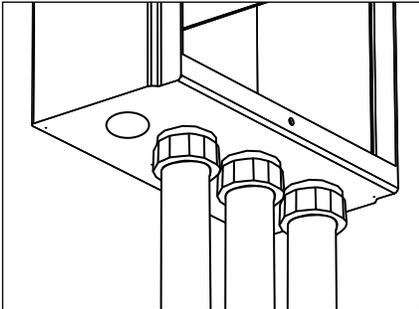
8. Re-attach cover. Tighten cover screw.

**IMPORTANT SAFETY INFORMATION LISTED ON REVERSE
READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS**



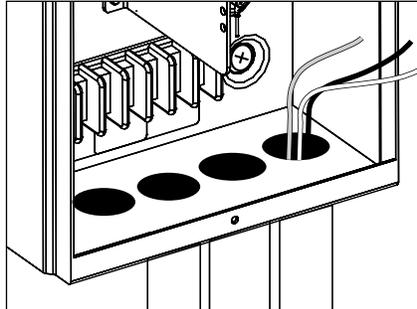


Dual Remote Driver

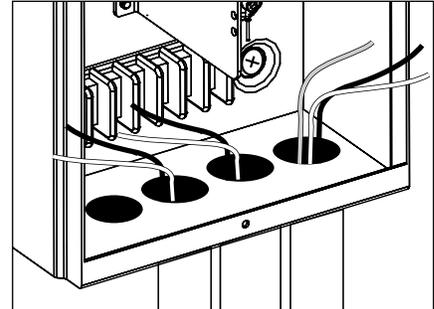


4. Connect conduit connector through female threaded conduit entry.

⚠ NOTE: Surface conduit is a common entrance for water if not properly sealed. Seal connector threads and conduit with a suitable sealant (Teflon tape, adhesive, etc.). Sealing the conduit after knockouts are removed is required to maintain warranty.

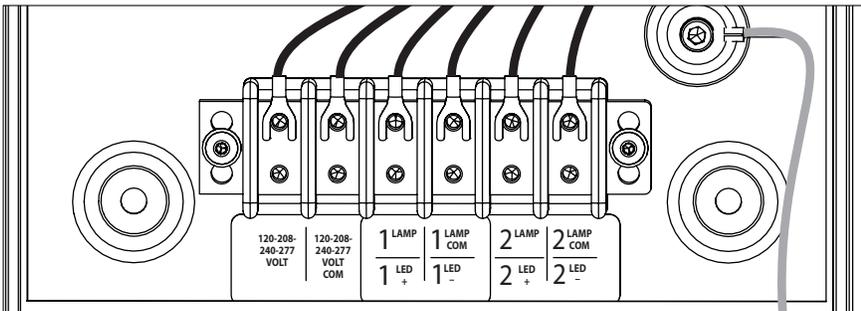


5. Pull branch circuit wiring necessary for installation (By Others).

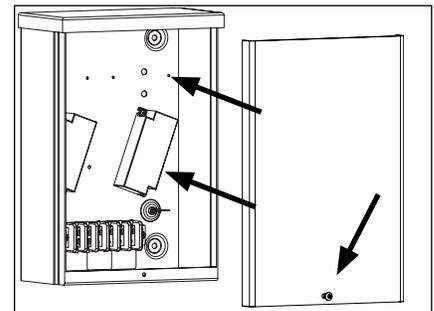


6. Pull secondary lamp leads necessary for installation through dedicated conduit. (By Others).

⚠ NOTE: Failure to comply with specific wiring requirements will void product warranty.



7. **Terminal Block Wiring** - Connect branch circuit to terminal block. Connect incoming ground to ground wire provided on NEMA 3R housing. Connect secondary lamp leads to terminal block. See labels on terminal block for additional information.



8. Re-attach cover. Tighten cover screw.

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