

Installation Instructions

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

(Failure to follow the warnings and instructions on this sheet could result in fire, injury, failure of product, and/or voiding of warranty.)

- Do not touch luminaire while lamp is on. 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, body, cap, faceplate, or housing.
- Keep lamp away from materials that may burn.
- Do not install fixture in contact with combustible materials.
- Do not touch lamp at any time. Use a soft cloth. Oil from your skin may damage lamp.
- Do not operate with damaged or missing parts.
- Do not disassemble beyond cap removal to facilitate wiring and installation, or as otherwise directed in the installation instructions below.
- Do not install within 10 feet of a pool, spa, or fountain.
- Have installed in accordance with all applicable installation codes and standards by a person familiar with the construction, operation, and hazards involved.
- Consult a qualified electrician to ensure correct branch circuit conductor.
- Use only cable properly rated for the application.
- Ballast is intended for use in wet locations, but should not be used in applications where it may be submersed in water or completely covered with soil.
- All conduit must be properly attached to the housing so that it is water tight. All unused conduit entry slip fittings must be plugged with PVC cement and the supplied plugs to make them water tight.
- Failure to follow these instructions can cause fire, injury, and/or void warranty.

Unpack:

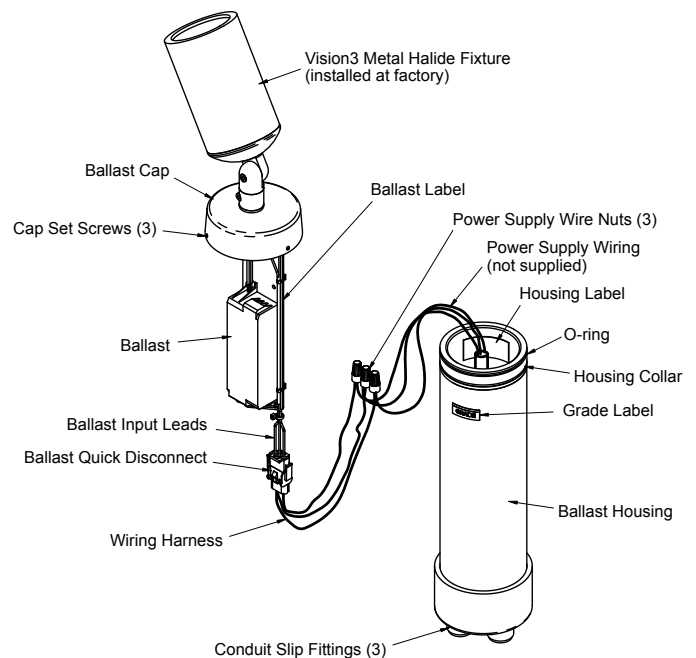
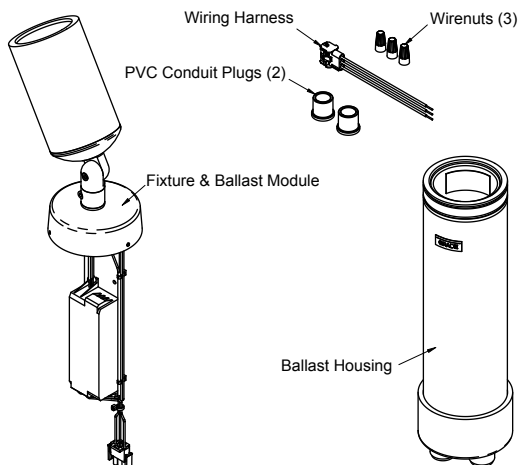
- Unpack the fixture from its box.
- Check through all packaging material to make sure there aren't any items hidden in it before discarding.
- Lay the components out in a clean and dry area so that they may be inspected.

Inspection:

- Inspect all parts for shipping damage, such as: broken lenses, broken lamps, cut or nicked leads, damage that could cause leaks, damaged gaskets, etc. If any damage is found, do not install fixture. Contact Vision3 lighting so that damaged items can be repaired or replaced.
- Double check the fixture with the packing list and order to ensure that all options and accessories are accounted for. Contact Vision3 lighting immediately if any discrepancies are found.
- Cover and store all parts in a clean, dry, and safe place until it is time for installation. Note: Plastic bags are handy for keeping parts organized and clean during storage.

Housing Installation:

- Examine the Ballast Housing to ensure that there is no damage, visible defects, or missing parts. Contact Vision3 lighting if any issues are found.
- Dig a hole approximately 12" dia. by 18" to 24" below grade and trench for conduit.
- Run conduit (not supplied) to the prepared hole. Note: Check all applicable building codes for requirements regarding conduit and wire.



- Place the Ballast Housing in the hole and attach the supply conduit to the Conduit Slip Fittings on the Ballast Housing using PVC cement appropriate for underground electrical conduit. Cap any unused Conduit Slip Fittings with the supplied PVC Conduit Plugs and PVC cement to prevent leaking. Note: All conduit must be properly attached to the housing and sealed at the fixture. Sealing the conduit entering each fixture prevents any leaks that may cause catastrophic ballast failures. Failure to cap unused conduit entry slip fittings or seal any conduit entering the housing will void the ballast warranty.
- Adjust the elevation of the Ballast Housing so that the line on the Grade Label is at grade. This will keep the cap slightly off of the ground. If necessary, ground covering, such as gravel, bark, or grass can be used to fill the area above grade and below the Ballast Cap, but the BMI should never be installed such that the Ballast Cap is covered by dirt, vegetation, ground coverings, or water. Failure to do so could reduce the life of the fixture and void the warranty.

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6. Begin filling in the hole around the Ballast Housing with soil in 1" to 2" increments, compacting as you go. Note: The housing should always be positioned such that water will drain or flow away from the top of the housing. If the local soil conditions prevent proper drainage, such as with clay, than it is recommended that sand or a loose soil/peat gravel mixture be used to backfill the hole. It may also be required to dig a deeper hole to allow for thorough drainage around fixture.
7. Fill in the conduit trenches.

Wiring to BM1 Housing:

1. Thoroughly clean any dirt, debris, or moisture out of the Ballast Housing.
2. Run the appropriately sized 3 conductor power cable through the Conduit to the Ballast Housing. Note: ensure that the power cable is properly sized for the load and adheres to any standards and/or regulations. Double check the Ballast Labels to make sure that the power being supplied matches the power requirements of the ballast.
3. It is a good idea to seal the conduit entering the housing, around the Power Supply Wiring with potting compound, silicone, etc (not supplied) to prevent any water that may leak in to the conduit system from entering the housing and damaging the ballast. Sealing the conduit entering each fixture prevents any leaks from traveling through the conduit system and causing catastrophic ballast failures.
4. Strip the ends of the Power Supply Wiring. Attach the Power Supply Wiring to the Leads on the Wiring Harness using the supplied Wirenuts (3).
5. Connect the power cable's ground wire (green or copper) to the Wiring Harness green lead. Connect the power cables black and white wires to the same colored leads on the Wiring Harness. Note: after all wires are connected, use a zip-tie to tie the Wiring Harness leads to the Power Supply Wiring for strain relief.

Fixture/Ballast Installation:

1. Make sure that the O-ring on the Ballast Housing is completely clean and free of dirt, debris, nicks, or cuts. If the O-ring is damaged, contact Vision3 lighting for a replacement. If the O-ring is dry, lubricate with Krytox brand lubricate or equivalent.
2. Connect the two halves of the Ballast Quick Disconnect together. Note: The connector halves are keyed and will only connect in one orientation. Do not pull on the leads!! Excessive stress could damage them, causing the fixture to short.
3. Fold up any slack in the wiring, and push in to the Ballast Housing.
4. Carefully slip the Ballast in to the Ballast Housing, being careful not to pinch or damage the wiring or connector.
5. Install the Ballast Cap over the O-ring, on to the Housing Collar. Be very careful to not cut or nick the O-ring. Rotating the Ballast Cap back and forth as you slide it over the O-ring makes it a little easier to install. Once over the O-ring, push the Ballast Cap down until it bottoms out.
6. Using a 3/32" hex tool, tighten each of the Cap Set Screws (3) until it just comes in contact with the Housing Collar. Be careful to not overtighten. There is a groove in the Housing Collar that will retain the tip of the set screw, so it does not need to be that tight.
7. Aim the fixture by loosening the knuckle, per its installation instructions. Note: the BM1 cap can also be rotated to aid in aiming, if necessary.
8. Add a lamp and accessories to the metal halide fixture, per its installation instructions.