

## 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 a luminaire while lamp is on. Turn off/unplug and allow to cool before replacing lamp.
- Lamps get HOT quickly! Contact only switch/plug when turning on.
- Do not touch hot lens, body, cap, faceplate, or ballast.
- Do not install fixture in contact with combustible materials.
- Do not operate luminaire or ballast with damaged or missing parts.
- Do not install within 10 feet of a pool, spa, or fountain.
- Have fixture and ballast installed in accordance with all applicable installation codes by a person familiar with the construction and operation of the fixture or ballast and the hazards involved.
- Consult a qualified electrician to ensure correct branch circuit conductor.
- Do not disassemble ballast beyond removal of cover for connecting supply wires. Disassembly may cause damage or injury, and voids warranty.
- Use only cable properly rated for this application.
- Failure to follow these instructions can cause fire, injury, and/or void warranty.

#### Un-assemble & Inspect:

- Unpack the BM4 Wall Mount Ballast from its shipping container. Note: The BM4 Ballast must be used with an approved Vision3 metal halide fixture, which is ordered separately. See the fixture installation instructions for information specific to its' installation.
- Check to make sure that there are no damaged or missing components.

#### Install Ballast on Wall:

- At the desired location, install four 1/4" Hex Head Mount Bolts (Not Supplied) in to the Mount Surface. Use the Mount Hole Pattern shown. Note: Use Bolts appropriate for the Mount Surface material.
- Tighten Mount Bolts into Mount Surface, but leave an 1/8" gap between bolt and surface.
- Slip slots in ballast Mount Bracket over the gap between the Mount Bolts and Mount surface. Note: Be sure all four slots are resting on the Mount Bolts.
- Using the appropriate size open end box wrench, tighten each of the four Mount Bolts.
- Run Conduit (not supplied) from the luminaire to the BM4 Ballast and attach using appropriate Conduit Connectors (not supplied). Check all applicable building codes for requirements regarding landscape conduit and cable. Note: see 'Wiring Guidelines' below to determine proper conduit and wiring.

#### Wiring Guidelines:

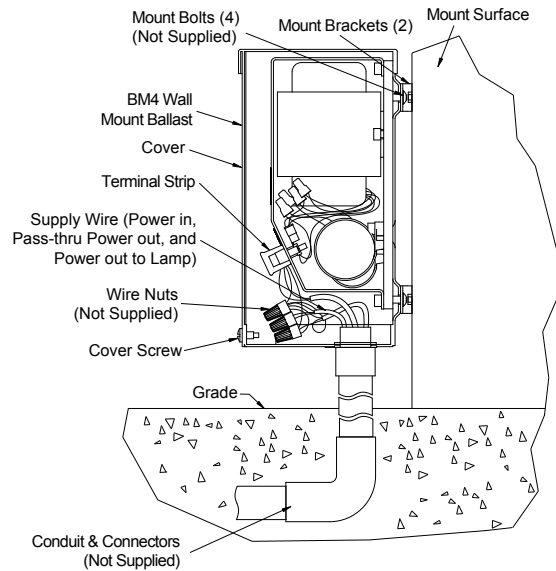
Note: Failure to follow these wiring and conduit guidelines may prevent the ballast or lamp from operating properly.

- To assure sufficient electrical and mechanical requirements are met, only individual lead wires for remote wiring extension leads are recommended and warranted.
- The individual lamp lead wires should be wire types SF-2 (equivalent to SEW-2 or 3071) or SFF-2 (equivalent to SEWF-2 or 3070) or alternatively, if approved by ballast manufacturer, high voltage fixture wire with a 18AWG conductor and a 1000VAC minimum voltage rating. Note: Use of service power cords (types SJ, SV, SO, etc) or MC-metal clad cable assemblies for lamp leads is not recommended or warranted.
- Each lamp's wire pair must be run in its own conduit, separately from input power leads or other lamp wire pairs, to minimize EMI interference and prevent starting problems. The minimum diameter of the pipe or conduit must be 1/2" minimum.

#### Electrical connections:

Note: When attaching wires to the Terminal Strip, wrap bare wire tightly around Terminal Screw clockwise (looking from the top of screw), and tighten Terminal Screw to securely hold wire. Make sure there are no loose wire strands sticking out that may cause a short.

- Remove Cover Screw and Cover from BM4 ballast. Run appropriately sized wire (Not Supplied) from luminaire to BM4 ballast. Connect wire



to luminaire per its installation instructions. Note: This ballast is for use with an appropriate Vision3 Lighting fixture only! Make sure ballast wattage and type matches the fixture wattage and type!!

2. Attach lamp wire to the 'Lamp' or 'Lamp 1' terminals on the terminal strip. Note: For screwshell base lamps, the wire from the lamp shell must be attached to the 'Lamp (shell)' terminal, and the wire from the lamp center contact must be attached to the 'Lamp (center post)' terminal. Failure to do this will cause damage or injury!! If the ballast is a dual ballast, repeat and attach the second set of lamp leads to the 'Lamp 2' terminal.

3. Run the supply power cable (not supplied) through its' conduit and in to the BM4 ballast. Make sure cable is properly sized for power supplied.

4. Attach ground lead from supply power cable to the 'Ground' terminal on the Terminal Strip.

5. Attach the common lead from the supply power cable to the 'Common' terminal on the Terminal Strip.

6. For electronic ballast BM4's: There will only be a 120V terminal. Make sure the supply voltage is 120VAC. Attach the remaining wire to the 120V terminal.

- For magnetic ballast BM4's: There will be 120V, 208V, 240V, and 277V input terminals. Attach the remaining wire to the appropriate terminal (For example, if the supply power is 208 volts, attach the remaining power supply to the '208V' terminal on the Terminal Strip.) Note: Attach only one wire to the input voltage terminals. Attaching more than one will cause damage or injury!!!

- Double check all connections to ensure they are correct and there is no possibility of a short.
- Replace Cover and Cover Screw.

