HOWARD™
LIGHTING PRODUCTS

VHA1 Series Vaporproof Fluorescent HiBay
INSTALLATION INSTRUCTIONS

⚠ **WARNING:**

Disconnect power during installation and before servicing. Wear gloves to prevent cuts/abrasions from sharp edges when removing from carton, handling, and maintaining this fixture.
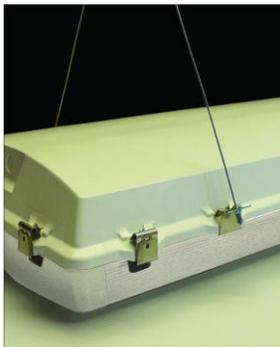
⚠ **SAFETY:**

This fixture must be wired in accordance with the National Electric Code and applicable local codes or ordinances. All work should be performed by a qualified electrician. To insure personal safety, proper grounding is required (connect green fixture lead to supply ground).

IMPORTANT:

Read all instructions carefully before attempting installation. If you do not understand these instructions, please consult your local distributor.

Thoroughly inspect the fixture for any freight damage; freight damage should be reported to the delivery carrier.

MOUNTING:

1. VHA1 Series luminaires are designed to be chain or cable mounted. There are four mounting bails attached to the fixture that will accept a hanging bracket (if provided) or a wire hanging kit. Please refer to the Mounting Accessory kit for detailed instructions.

Hanging Bracket

Wire Hanging

WIRING CONNECTIONS: (Use only approved connectors for all electrical connections.)

1. VHA1 Series luminaires utilize a geartray that is supported by four stainless steel fittings. It can be opened from either side for easy installation and maintenance. Geartray should be "eased" down; DO NOT allow the reflector to 'drop free' and swing.

2. Connect the black fixture wire to the black supply wire (line).
3. Connect the white fixture wire to the white supply wire (neutral).
4. Connect the supply ground wire to the green fixture wire (or GRD screw if provided).
5. Ballast Voltage: This fixture is typically provided with a multi-volt ballast (120-to-277v), but may have a single tap ballast (such as 120v only). Ensure that the supply voltage is correct for the ballast in this fixture.

Instructions Continued on Reverse.

REASSEMBLY / LAMP INSTALLATION:	**ENSURING VAPOR-TIGHT SEAL**:
1. Reinstall the geartray; carefully placing it back into the latches insuring that no wiring is pinched. <u>Remove protective film from reflector (if provided)</u>. 2. Install Fluorescent lamps. Insert each lamp into sockets and turn until the lamp 'snaps' into place. If lamp replacement is necessary, insure that the lamp is the same wattage and type as indicated on the ballast label. 3. Replace the lens ensuring that all 12 latches are fully engaged.	1. Ensure that all 12 latches are fully engaged. 2. Vapor-tight bonding between conduit and connections is not automatic and must be provided as a part of the installation. This should be achieved by appropriate application of gasket material or RTV Silicone (or equivalent). 3. Do not cut or drill holes into housing, lens, or gasket. If it is necessary, due to unique circumstances, to do so, the fixture should be well sealed with RTV Silicone (or equivalent).

TROUBLESHOOTING TIPS: If the fixture fails to operate properly, check the following:
- ✓ Verify the correct lamp type is used and properly installed.
- ✓ Verify the lamp is not defective (try known good lamp).
- ✓ Verify proper line voltage is present.
- ✓ Verify fixture wiring (refer to schematic printed on ballast label).
- ✓ Verify that the fixture geartray is grounded.

⚡ **WARNING:** Improper seating of lamps can create a fire hazard. Whether field or factory installed, ensure lamp position is correct before energizing fixture. See Diagrams 1 and 2.

Diagram 1-T8 lamp seating

Diagram 2-T5 lamp seating

The dimple on the lamp base is aligned with the slot in the lamp holder.	The flat surface of the lamp base is perpendicular to the slot in the lamp holder

⚡ **WARNING:** These procedures should only be performed by a qualified electrician. Supply power should be turned off when replacing components or checking connections. Never perform maintenance or cleaning while fixture is energized. Disconnect power and allow lamp to cool before replacing.