

# VF1 & VF2 LED SERIES

## INSTALLATION INSTRUCTIONS



### WARNING:

- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- Make sure all electrical power is turned off while installing the fixture.
- This luminaire must be adequately grounded for protection against shock hazards and to assure proper operation.
- Disconnect power before servicing.
- Suitable for wet location.

### TOOLS/FASTENERS REQUIRED:

- Torque Wrench with range of 15-125 lb-in.
- 3/32 Hex Key (curved arm fixture mounting only)
- #1 Phillips Screwdriver (field-installed accessories only)

VF1	VF2
1/8" Hex Key	3/16" Hex Key
3/16" Hex Key	7/32" Hex Key

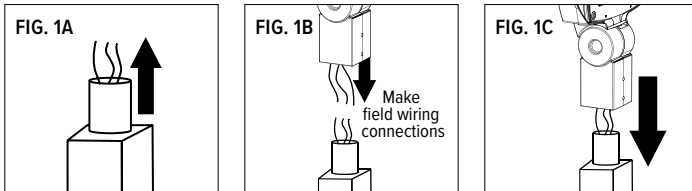
Take precautions not to scratch lens or finish during installation process. Verify the black wire, labeled with the incoming voltage, is correct before proceeding with installation. NOTE: There is no need to access the inside of fixture when mounting, as all wiring was made at the factory per order.

**FIXTURE NOT DESIGNED TO BE MOUNTED IN HORIZONTAL ORIENTATION WITH GLASS FACING UPWARDS AT 0 DEGREES.**

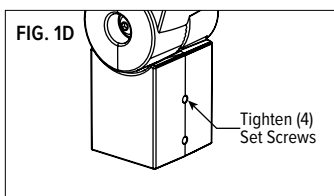
## STRAIGHT ARM FIXTURE MOUNTING

### A. STRAIGHT ARM MOUNTING TO TENON

1. Feed incoming power supply wires through the tenon (FIG. 1A). Make field wiring connections to the fixture (FIG. 1B).  
**NOTE:** Fixture is equipped with two wires marked for (0-10 volt) dimming control device. If not used, wires must be capped off with wire nuts. See "WIRING DIAGRAM" on page 4.
2. Feed wires and connectors back into tenon as you slip the fixture mounting arm over the tenon, making sure not to pinch the wires (FIG. 1C).



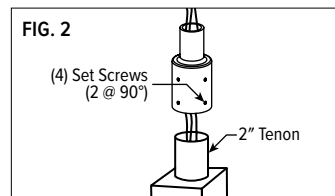
3. Level and direct fixture, then tighten (4) 1/4-20 (VF1) or 3/8-16 (VF2) set screws. Torque to 45-55 lb-in. (VF1) or 115-125 lb-in. (VF2) (FIG. 1D). **NOTE:** To prevent fixture rotation, remove one set screw, drill a recessed screw point into the tenon, being careful to avoid damaging the threads in the slipfitter. Replace the set screw, ensuring proper torque.



4. For fixture adjustment, proceed to page 3.

### B. STRAIGHT ARM MOUNTING TO TENON REDUCER (VF1 ONLY)

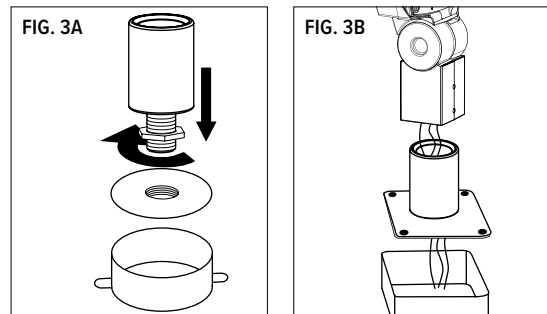
1. Feed incoming power supply wires through tenon reducer. Place the tenon reducer on any 2" (2-3/8" O.D.) tenon. Level and secure using (4) 1/4-20 set screws (FIG. 2). Torque to 60-70 lb-in. (VF1).



2. See STRAIGHT ARM MOUNTING TO TENON, Step 1 to make field wiring connections and complete fixture mounting.

### C. STRAIGHT ARM MOUNTING TO THREADED ADAPTER (VF1/VF2):

1. Attach the threaded adapter to any electrical box or fitting with a 1/2" female thread. **To prevent water intrusion, add thread sealant (by others).** Tighten hex locknut (FIG. 3A).
2. Feed fixture wires through adapter and fitting, into electrical box. (FIG. 3B).



3. Make field wiring connections. **NOTE:** Fixture is equipped with two wires marked for (0-10 volt) dimming control device. If not used, wires must be capped off with wire nuts. Carefully tuck wires and connectors into electrical box. See "WIRING DIAGRAM" on page 4.
4. Securely attach threaded adapter assembly to electrical box.
5. Slip the fixture mounting arm over the adapter, making sure not to pinch the wires (FIG. 1C).
6. See Step A-1, STRAIGHT ARM MOUNTING TO TENON to make field wiring connections and complete fixture mounting.

# VF1 & VF2 LED SERIES

## INSTALLATION INSTRUCTIONS

### CURVED ARM FIXTURE MOUNTING

**NOTE:** For Downlight orientation and direct mounting to vertical surface or pole only.

**IMPORTANT:** Mounting hardware is determined and supplied by a professional installer due to various mounting surface building substrates (Examples: metal, cement, stone, wood, etc.). Attachment strength and liability is the responsibility of the installer. Building codes (state and local) may apply and must be followed. Check before proceeding with installation. It is advised to use stainless steel fasteners to prevent corrosion.

#### VF1 & VF2 CURVED ARM DRILL TEMPLATE

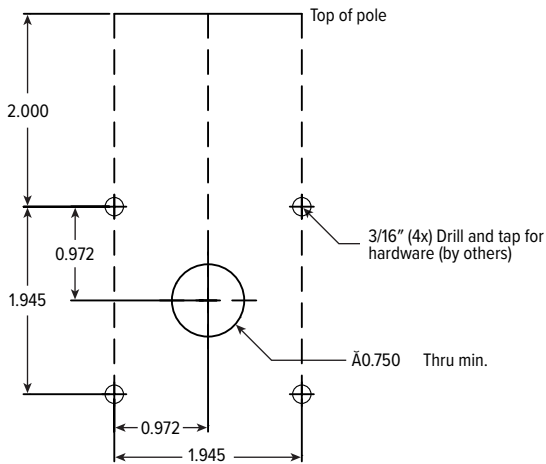


FIG. 4A VF1 Cast Adapter

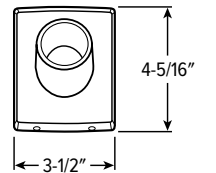


FIG. 4B VF2 Cast Adapter

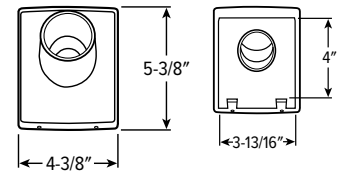


FIG. 4C

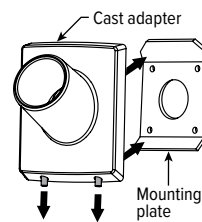
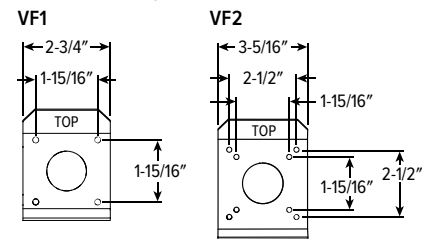


FIG. 4D Mounting Plates



#### A. STANDARD CURVED ARM MOUNTING

1. Remove mounting plate from cast adapter (FIG. 4A-4C) by loosening (2) 10-24 set screws at bottom (FIG. 4C) using 3/32'' hex key. It is not necessary to remove the screws.  
**NOTE:** VF1 recommended for use with standard 3-1/2'' octagonal electrical box (FIG. 4E).
2. Feed power supply wires through center of mounting plate. Using (4) mounting plate holes provided (FIG. 4D), secure the mounting plate to pole or structure (hardware by others). **NOTE:** Hardware must be adequate to support the weight of the fixture (VF1 @ 8 lbs., VF2 @ 20 lbs.). Mounting plate must be installed with chamfered corners at top and must be level. Before tightening the mounting hardware, add sealant (by others) between plate and mounting surface.
3. Feed power supply wires through cast adapter. Slip the adapter over the top of the mounting plate and tighten (2) set screws at bottom to secure adapter (FIG. 4F). Torque to 15-20 lb-in.
4. Make field wiring connections to the fixture. **NOTE:** Fixture is equipped with two wires marked for (0-10 volt) dimming control device. If not used, wires must be capped off with wire nuts. See "WIRING DIAGRAM" on page 4.
5. Carefully tuck wires into cast adapter and slip the fixture mounting arm over the adapter, making sure not to pinch the wires (FIG. 4G).
6. Make sure fixture is level and tighten (3) set screws. Torque to 45-55 lb-in. (VF1) or 115-125 lb-in. (VF2) (FIG. 4H). **NOTE:** To prevent fixture rotation, remove one set screw, drill a recessed screw point into the tenon, being careful to avoid damaging the threads in the slipfitter. Replace the set screw, ensuring proper torque.
7. For fixture adjustment proceed to page 3.

FIG. 4E VF1 Octagon Box (by others)

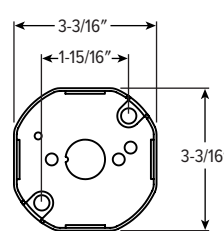


FIG. 4F

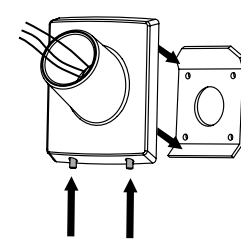


FIG. 4G

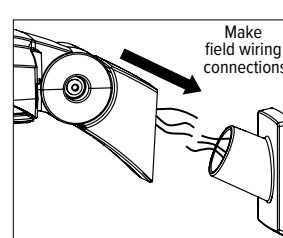
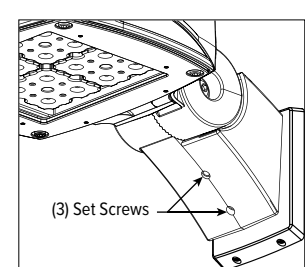


FIG. 4H



# VF1 & VF2 LED SERIES

## INSTALLATION INSTRUCTIONS

### B. ALTERNATE CURVED ARM MOUNTING (VF1 & VF2)

1. Remove and discard or recycle mounting plate from cast adapter by loosening the (2) 10-24 set screws at bottom (Fig 5A). Adjust (do not remove) screws to be flush with cast adapter, acting as plugs to prevent insects and water from entering fixture.
2. Locate (4) dimpled drill points (one near each corner) inside cast cover (FIG. 5B). Drill completely through (4) drill points with appropriate bit to accommodate mounting hardware (by others). **NOTE:** Mounting hardware is determined for strength and supplied by a professional installer due to the various mounting surface building substrates.
3. Cast adapter must be installed level, and with tenon orientation facing upwards (FIG. 5C). Use the (4) drilled holes as a template for placement of securement hardware, (examples are cement anchor threaded inserts, etc.). Feed wires through the cast adapter. Secure adapter to surface. Add sealant (by others) all around the outside perimeter of the adapter and mounting surface to prevent insects and water from entering.
4. See Step A-4 STANDARD CURVED ARM MOUNTING on page 2 to make field wiring connections and complete fixture mounting.

FIG. 5A

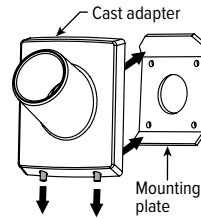


FIG. 5B

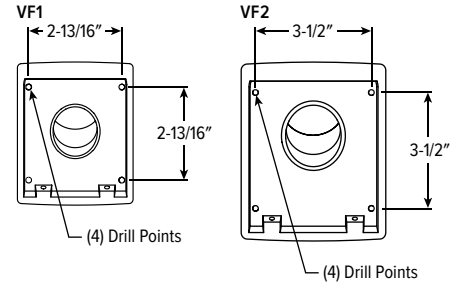
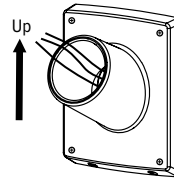
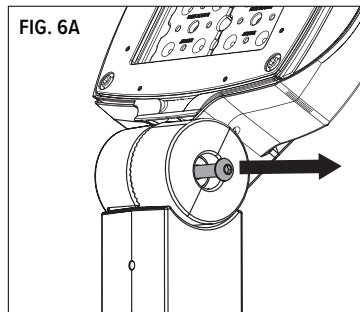


FIG. 5C



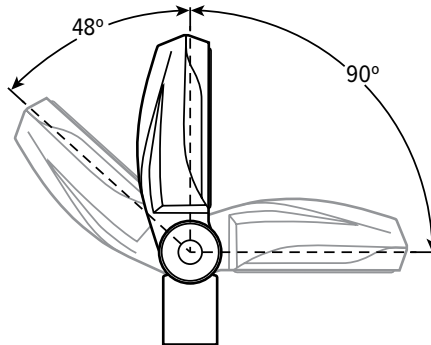
### FIXTURE ADJUSTMENT

- A. With fixture securely fastened, make the final fixture head adjustment by loosening (do not remove) the single hex bolt on side of fixture (FIG. 6A). **IMPORTANT NOTE: Do not remove the bolt.**
- B. Support the fixture weight with one hand while loosening the bolt until fixture is free to move on axis. The locking teeth are spaced in 6° increments (FIG. 6B). Hold fixture to desired orientation and tighten hex bolt.
- C. Torque to 45-55 lb-in. (VF1) or 115-125 lb-in. (VF2). For best results, floodlight aiming angles should be verified by lighting designers at night.

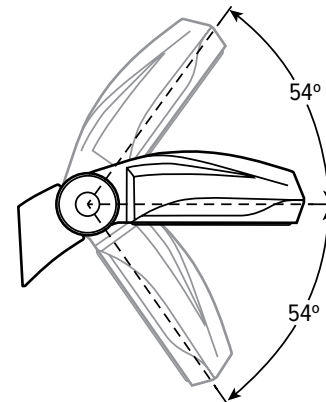


FIXTURE	BOLT SIZE	HEX KEY
VF1	5/16"	3/16"
VF2	3/8"	7/32"

FIG. 6B



STRAIGHT ARM SHOWN



CURVED ARM SHOWN

# VF1 & VF2 LED SERIES

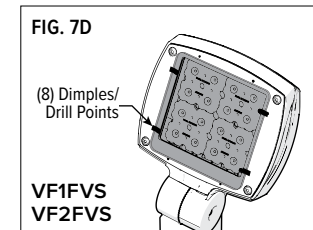
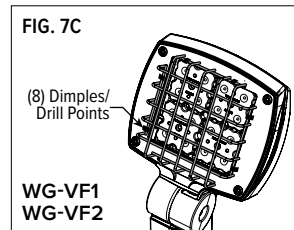
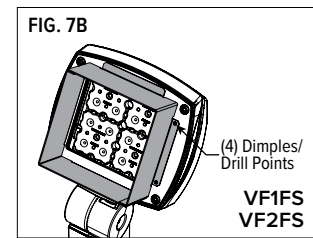
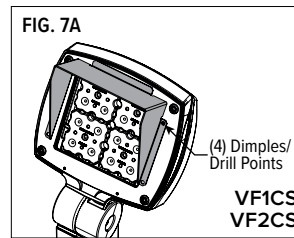
## INSTALLATION INSTRUCTIONS

### ACCESSORY INSTALLATION

**IMPORTANT SAFETY NOTE:** For optimum performance and fixture life, do not install the wireguard, cutoff shield, and full cutoff shield accessories onto fixtures that are located under foliage as debris may become trapped and cover the glass lens. The lens must be kept clear and clean for proper fixture operation.

FIXTURE	CATALOG NUMBER	DESCRIPTION
VF1	VF1CS	Cutoff shield, 1/16" thick aluminum, field-installed
	VF1FS	Full cutoff shield, 1/16" thick aluminum, field-installed
	WG-VF1	Wireguard kit, 11-gauge tempered steel with chrome powder-coat finish, field-installed
	VF1FVS	Flush vandal shield kit, 3/16" thick clear polycarbonate, field-installed
VF2	VF2CS	Cutoff shield, 1/16" thick aluminum, field-installed
	VF2FS	Full cutoff shield, 1/16" thick aluminum, field-installed
	WG-VF2	Wireguard kit, 11-gauge tempered steel with chrome powder coat finish, field-installed
	VF2FVS	Flush vandal shield kit, 3/16" thick clear polycarbonate, field-installed

- Carefully unpack accessory from carton taking precautions not to scratch lens or finish during the installation process.  
**NOTE:** Flush vandal shield accessory requires removal of the protective plastic film cover before installing.
- Place the accessory over the top of floodlight lens, paying attention to the required orientation for proper shielding, as shields can be rotated every 90 degrees. Make note of mounting holes required for proper installation.
- With a #31 (.120" dia.) bit, drill appropriate number of holes 1/4" deep on selected dimple locations around the floodlight lens perimeter. Clear away any chips or debris (FIG. 7A-7D).
- Apply sealant (by others) on screw or inside hole and secure the accessory with self-threading screws (provided). Torque to 15-20 lb-in. Flush vandal shield and wireguard accessories require the use of retainer clips (provided).



### WIRING DIAGRAM

Make electrical connections in accordance with NEC and local codes.

