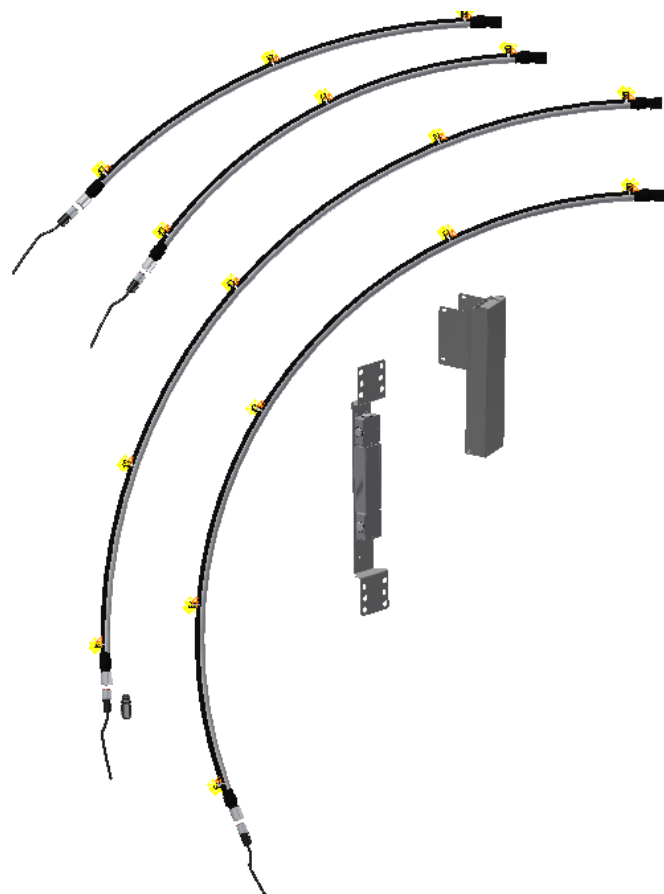




Models - 35000/36000/75000 LED Light Tube Installation

Page 2	Product Information
Page 3	Specifications
Page 4	Important Safety Instructions
Page 5-6	Product Dimensions
Page 7	LED Light Tube to Arch Installation
Page 9	Wiring of Power Supply 48VDC only
Page 10	48Vdc Swivel Arch Light Install Details
Page 11-12	48Vdc Round Pole Power Supply Insta
Page 13	<b>120Vac light install</b>
Page 14	Maintenance



# **PRODUCT INFORMATION**

Please take a moment to fill out the information below in order to aid us with any future sales or service inquiries. Model number and serial number information can be found on the power supply decal. Key number can be found on the packaging or order. There may be more than one key number depending on unit.

**Please keep this information with your records.**

**MODEL#:**\_\_\_\_\_

**POWER SUPPLY SERIAL#:**\_\_\_\_\_

**KEY NUMBER(S):**\_\_\_\_\_

**DATE PURCHASED:**\_\_\_\_\_

**DISTRIBUTOR:**\_\_\_\_\_

**J.E. Adams Industries  
1025 63rd Ave. S.W.  
Cedar Rapids, IA 52404  
1-800-553-8861  
[www.jeadams.com](http://www.jeadams.com)**

## Specifications

### **48" LED Light tube 120V**

Unit specifications: 35000-58HV-4, (base part # 35000-57-4HV)  
Voltage/Amps: Input: 120vac, .150A, 60hz (277Vac available)  
Wattage/ Lumens: 18 Watts / 2400 Lumens (color temp, 50K)

### **70" LED Light tube 120V**

Unit specifications: 35000-58HV-6, (base part # 35000-57-6HV)  
Voltage/Amps: Input: 120vac, .225A, 60hz (277Vac available)  
Wattage/ Lumens: 27 Watts / 3600 Lumens (color temp, 50K)

### **92" LED Light tube 120V**

Unit specifications: 35000-58-4A , 35000-58-4AS, 35000-58-4AF (base part # 35000-57-4)  
Voltage/Amps: Input: 120vac, .300A, 60hz (277Vac available)  
Wattage/ Lumens: 36 Watts / 4800 Lumens (color temp, 50K)

### **48" LED Light Tube 48VDC**

Unit specifications: 35000-58-4A , 35000-58-4AS, 35000-58-4AF (base part # 35000-57-4)  
Voltage: Input (requires power supply): 48VDC  
Wattage/ Lumens: 29 Watts / 4000 Lumens (color temp, 50K)  
Other single color lights available.

### **92" LED Light Tube 48VDC**

Unit specifications: 35000-58-8A , 35000-58-8AS, 35000-58-8AF  
Voltage: Input (requires power supply): 48VDC  
Wattage/ Lumens: 59 Watts / 8000 Lumens (color temp, 50K)

### **80 watt DC Power Supply**

Assembly specifications: 35000-59-80A or 35000-59-80AS (assemblies)  
Unit specifications: 35000-57-80WPS (power supply alone)  
Voltage: Input: 120-277vac, 60hz (80 Watt Power Supply.) Output: 48VDC  
Amperage: 1.6 amps @48VDC, .85 amps @120Vac, .43 amps @ 230Vac

### **240 watt DC Power Supply**

Assembly specifications: 35000-59-240A (assembly)  
Unit specifications: 35000-57-240WPS (power supply alone)  
Voltage: Input: 120-277vac, 60hz (240 Watt Power Supply.) Output: 48VDC  
Amperage: 5 amps @48VDC, 4.0 amps @120Vac, 2 amps @ 230Vac

Direct wire lights,  
no power supply

Low voltage lights,  
require power supply

# IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

## READ ALL INSTRUCTIONS BEFORE USING (THIS APPLIANCE)

### **WARNING – To reduce the risk of fire, electric shock, or injury:**

- Use only as described in manual. Use only manufactures recommended, do not overload power supply.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not use near flammable or combustible liquids, such as gasoline, or use in areas where they may be present.

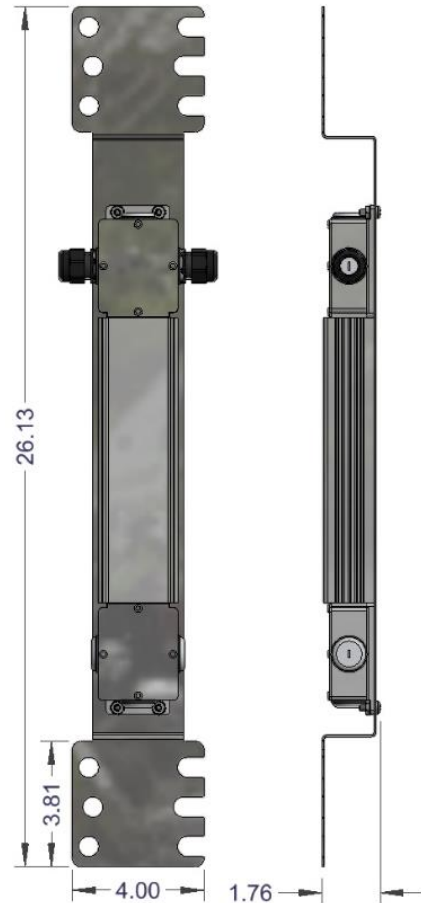
**SAVE THESE INSTRUCTIONS**



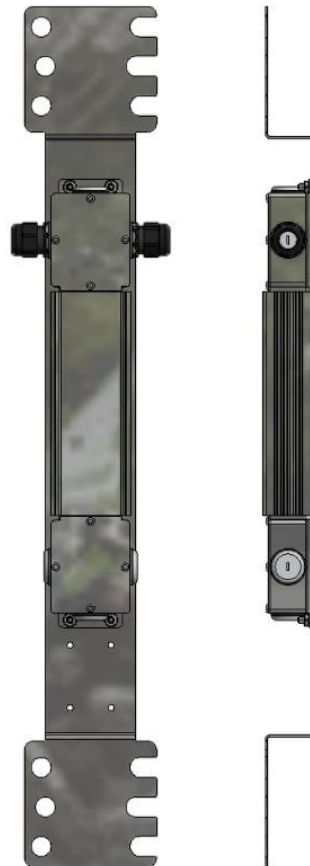
- **Installation Instructions:**
- Determine location to mount unit (“**DANGER**” “**THIS EQUIPMENT INCORPORATES PARTS SUCH AS SWITCHES THAT TEND TO PRODUCE ARCS OR SPARKS THAT CAN CAUSE AN EXPLOSION. WHEN LOCATED IN GASOLINE-DISPENSING AND SERVICE STATIONS INSTALL AND USE AT LEAST 20 FEET (6 M) HORIZONTALLY FROM THE EXTERIOR ENCLOSURE OF ANY DISPENSING PUMP AND AT LEAST 18 INCHES (450 MM) ABOVE A DRIVEWAY OR GROUND LEVEL.**”
- Run electrical service to that location (*NOTE POWER SUPPLY HAS JUNCTION BOX PROVIDED FOR ELECTRICAL CONNECTIONS*)
- **Grounding Instructions:** This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.
- All local and national electric codes must be followed for installation and use.
- Licensed electricians are recommended for installation.

## PRODUCT DIMENSIONS

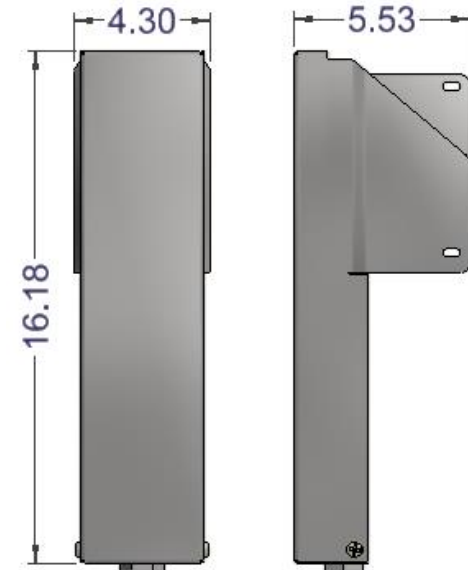
### Power supply assemblies for 48VDC lights only



240 W Power  
Supply assembly  
35000-59-240A

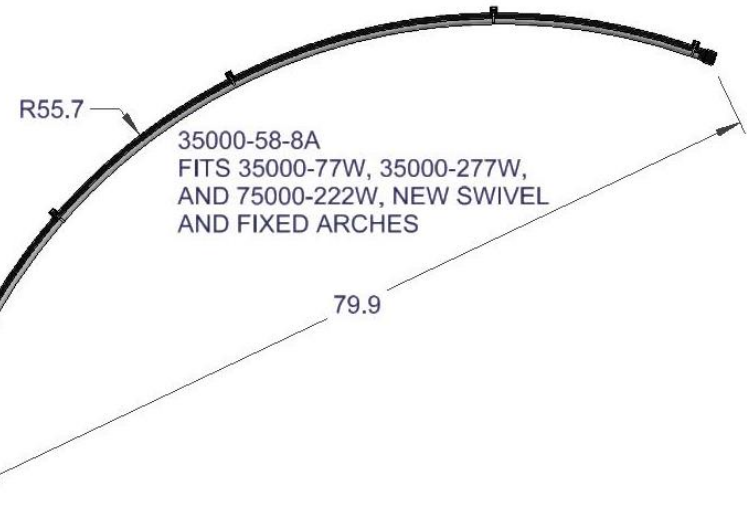
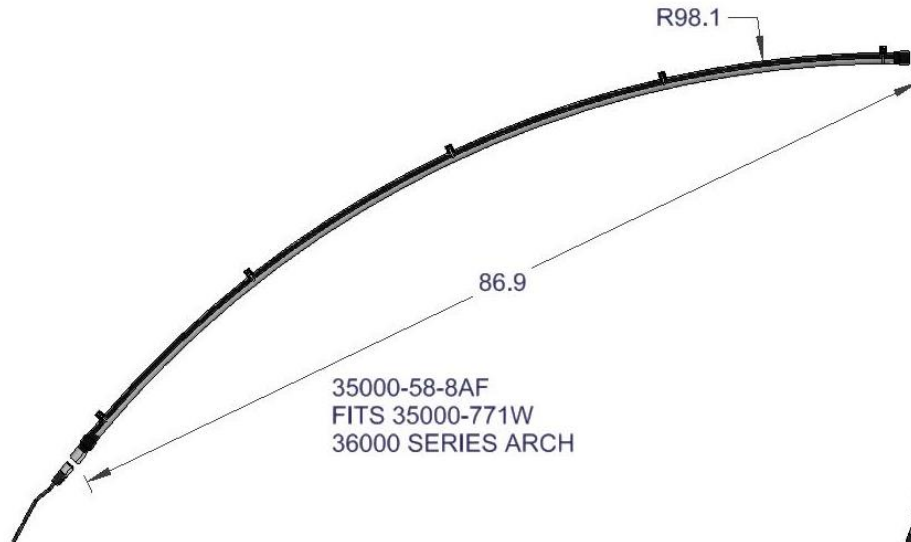
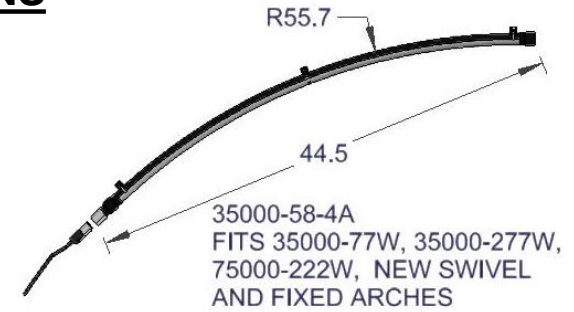
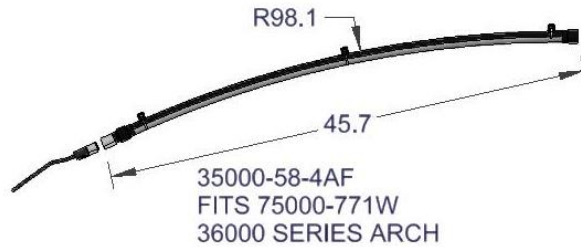


80 W Power  
Supply assembly  
35000-59-80A



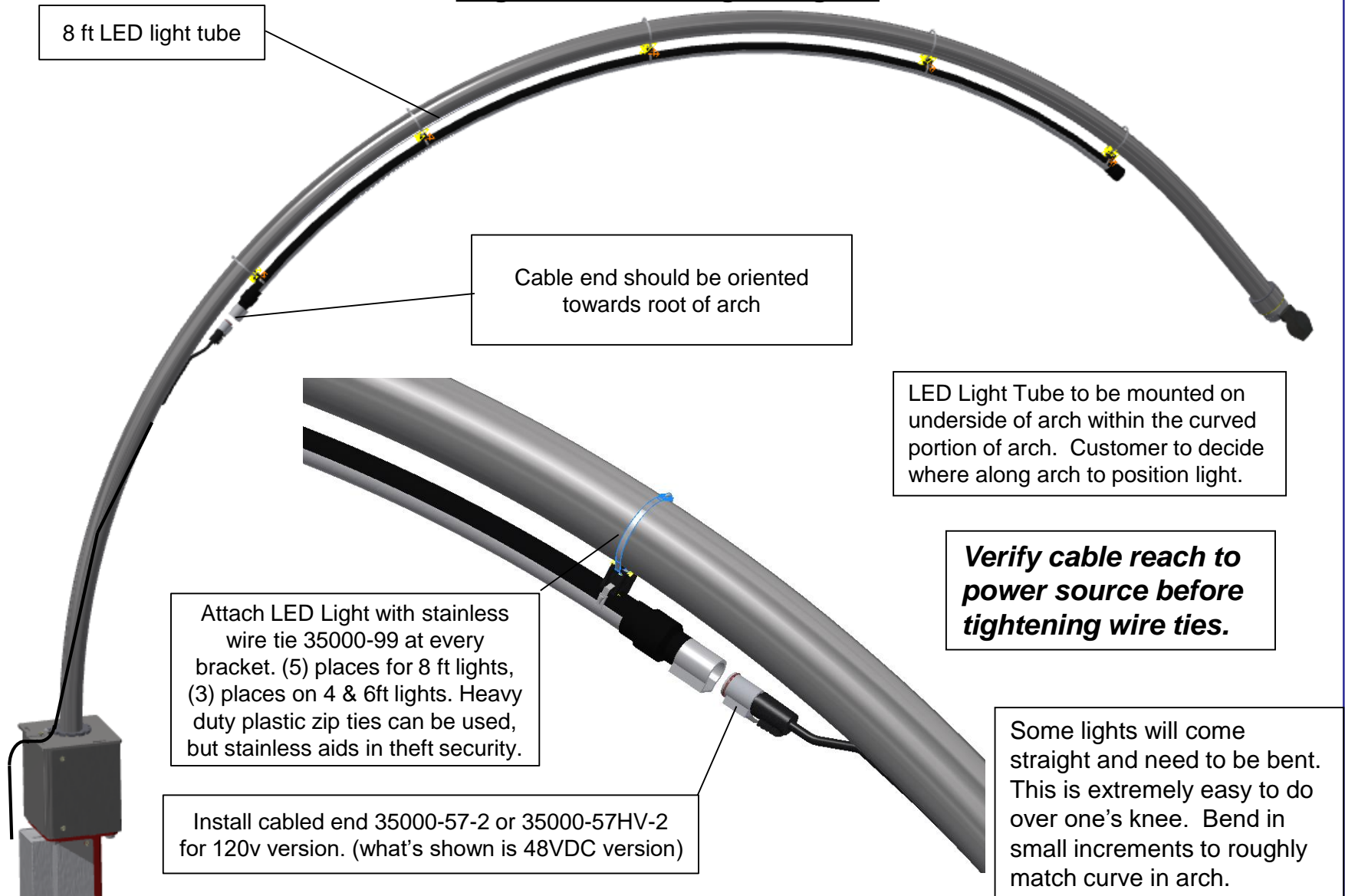
80 W Power  
Supply assembly  
35000-59-80AS

## PRODUCT DIMENSIONS



Lights will come straight and need to be bent. This is extremely easy to do over one's knee. Bend in small increments to roughly match curve in arch.

## Installation of LED Light Tube to All Arches Regardless of voltage of lights.



# **Installation of the 48VDC LED Light Tube that requires power supply.**

***Skip to page 13 for wiring steps for the 120VAC direct wire LED lights.***



## Wiring Power Supply on Square Pole, Fixed Bracket (Discontinued bracket) 75000 Series, 48VDC version

Zip tie cable here for fixed arch application

Rout wire down gusset and through right notch

Low voltage side of power supply up towards LED light.  
Red wire, +Vdc  
Black wire, -Vdc  
**Blue & White wire, not used & must be capped separate with wire nuts.**  
**Not all power supplies will have these two extra wires.**

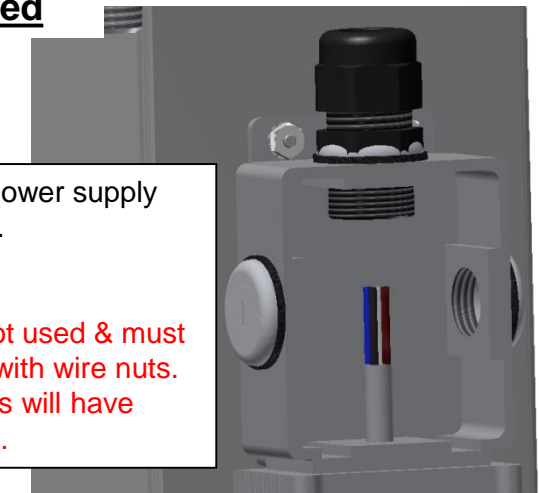
Cut Lead wire from LED light to length but Important to leave loop of wire in power supply enclosure so entire bracket can be removed in case access to vacuum hose is required

High voltage side down towards 115 Vac power source.  
Black wire, Hot  
White wire, Neutral  
Green wire, Ground

Attach Power Supply assembly to square pole utilizing lower side screws only. Remove and discard cover that comes with pole, but retain screws.

Flexible water tight conduit required, assembly needs to be removable to gain access to hose connection. Fitting supplied is 1/2" Hubbell Metallic liquid tight fitting, Fits Poly Tuff I and other conduits.

Attach cover with (4) phillips head screws



# Wiring Power Supply (Square Pole, Swivel Arch and New Fixed) Additional Details 75000 Series, 48VDC version (power supply)

Bracket 35000-57-7 installed under phillips head screw. Used on swivel arch only.

Keep top cable tie at least 8" above plate on swivel arch.

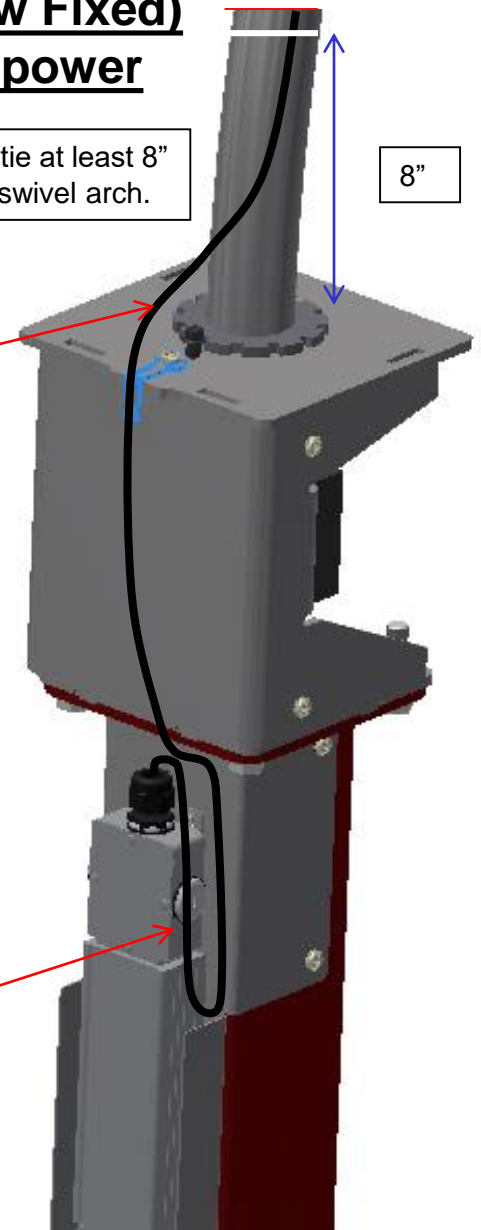
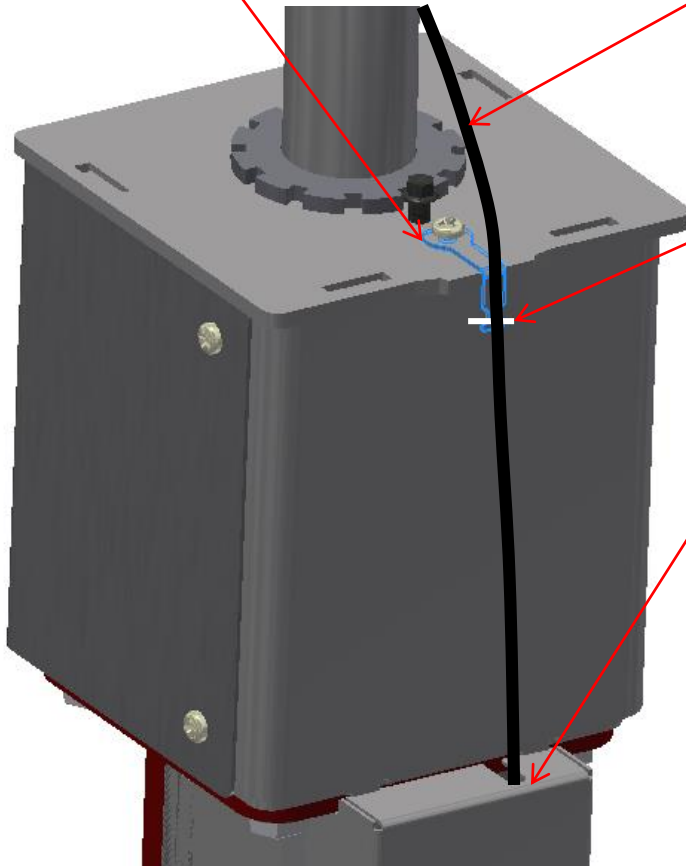
8"

LED lighting can only be installed on swivel arches limited to 180 degrees of rotation. Maintain enough cable slack so as not to bind cable with arch rotated to its stops.

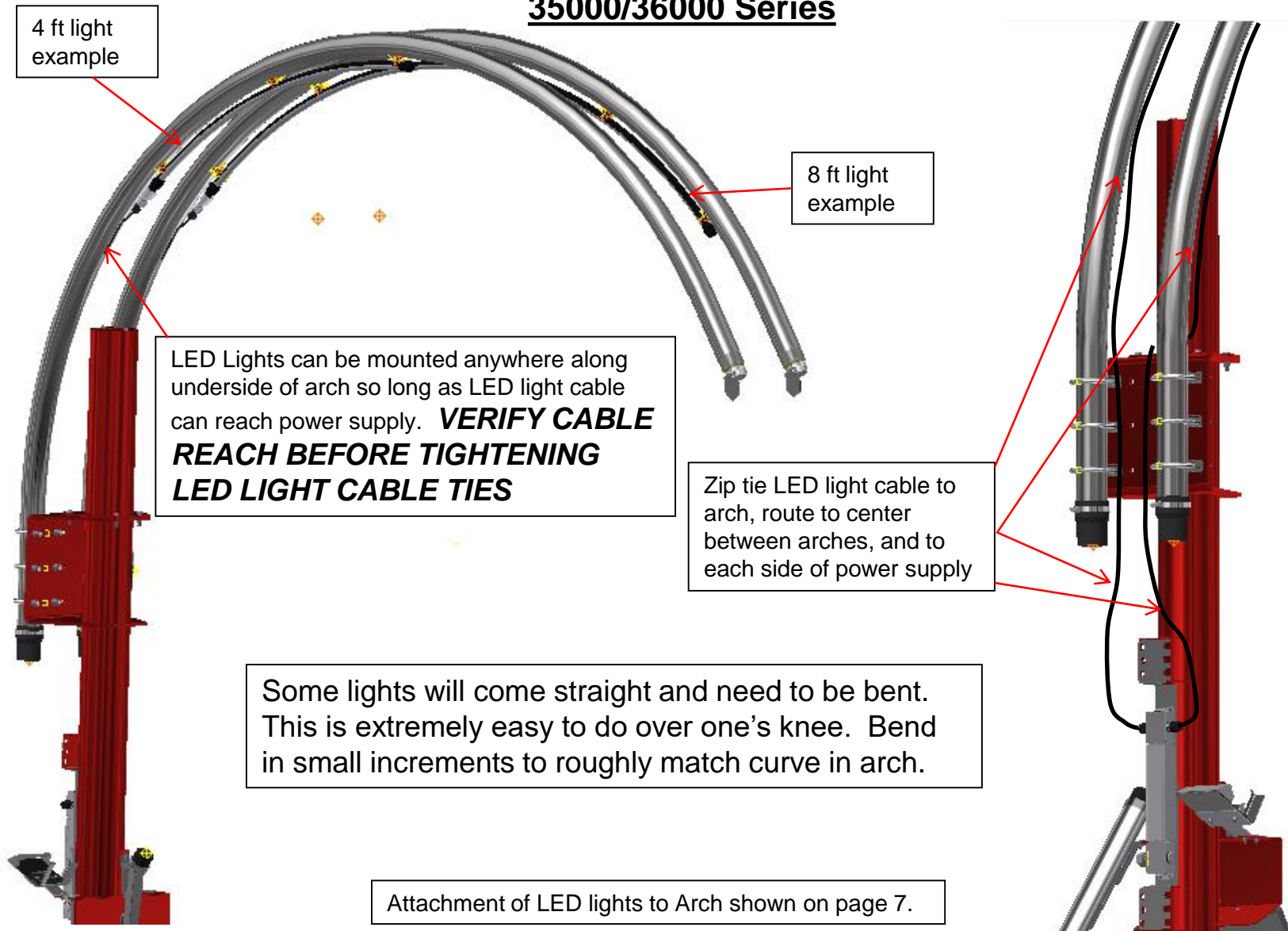
Use cable tie to attach cable to bracket at notch.

Add cable tie on cable just inside the notch of cover. This will prevent cable service loop from being pulled out.

Maintain cable service loop to allow bracket assembly to be removed if access to vacuum hose is needed.



## LED Lights with 48VDC Power Supply on Central Vac Stanchions 35000/36000 Series



## Wiring 48VDC Power Supply (Round Pole), 35000/36000 Series

***Verify light cable reach to power supply before tightening wire ties, adjust light position if needed.***

Pre-Collector removed  
In view for clarity.

Mounting LED Light System on round pole: In double arch (1 LED Light per arch) configuration, (2) 4' LED's (35000-58-4A) require 80 W Power Supply (35000-59-80A). (2) 8' LED's (35000-58-8A) requires 240 W Power Supply (35000-59-240A).

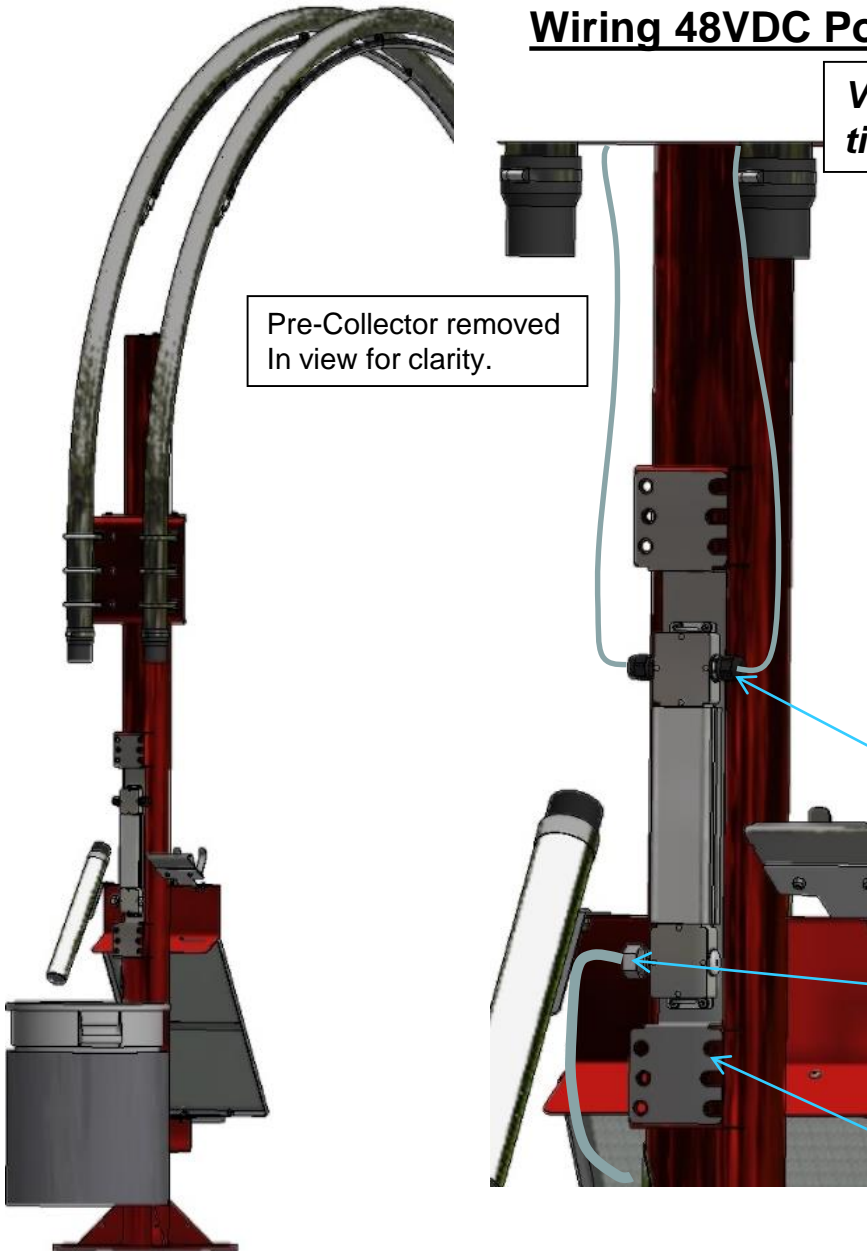
Low voltage side of power supply up towards LED light.  
Red wire, +Vdc  
Black wire, -Vdc

Extra blue and white wire may exist in DC side of power supply. If present be sure to cap wires off individually to prevent short.

Use supplied cable strain relief fittings for LED light cables, Route cables up along arches to end of light. Be sure to tighten cable fittings to prevent water penetration into power supply.

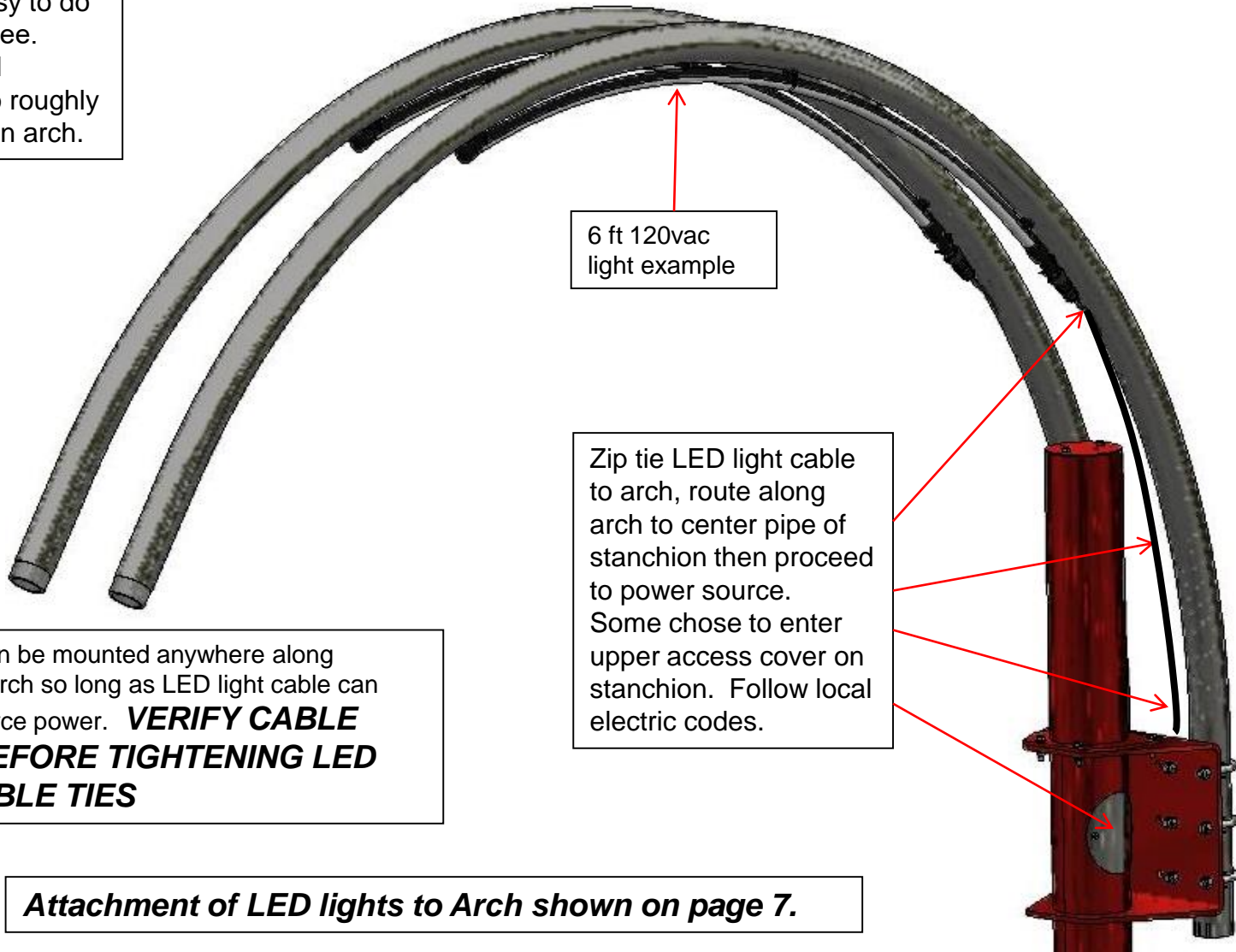
Incoming power can enter in lower connection box on either side of power supply. ½" trade sized conduit rigid or flexible conduit can be used.

Power Supply assembly is mounted between pole mounting pads and Collector Mount, utilizing same hardware.



## 120VAC Direct Wire LED Lights on Central Vac Stanchions, 35000/36000 Seriesffffff

Lights will come straight and need to be bent. This is extremely easy to do over one's knee. Bend in small increments to roughly match curve in arch.



LED Lights can be mounted anywhere along underside of arch so long as LED light cable can reach the source power. **VERIFY CABLE REACH BEFORE TIGHTENING LED LIGHT CABLE TIES**

***Attachment of LED lights to Arch shown on page 7.***

### **Lighting Operating Instructions:**

- 1) Read safety instructions on previous pages.
- 2) Customer to decide if lights are operated from switch, timer or light sensor. Controls should be installed by licensed professional.

### **Maintenance:**

- **All servicing of machine should be conducted by an authorized service representative!**
- Periodically inspect electrical wires and connections for wear or fatigue.
- Replacement parts can be ordered through JE Adams or your nearest dealer.

***WHEN PERFORMING MAINTENANCE OR TROUBLE-SHOOTING, TURN POWER OFF! QUALIFIED PERSONNEL ONLY!***

