

# 230LED MANOR LIGHTED BOLLARD

# SPECIFICATIONS

## GENERAL

The Model 230LED decorative lighted bollard shall be cast aluminum, one-piece construction. The 7 1/2" diameter cast aluminum base shall be constructed with a 5 1/4" diameter straight fluted cast aluminum shaft. The Model shall be Sternberg Lighting #230LED lighted bollard. The bollard shall be U.L. or E.T.L. listed in U.S. and Canada.\*

## CONSTRUCTION

The base shall be designed with a rounded lower base and upper base having fourteen flutes and be made of heavy wall, alloy cast aluminum. It shall have a 3/4" thick floor cast as an integral part of the base. The bollard cap will be cast aluminum. The overall height of the bollard shall be 28".

## ELECTRICAL/ LED

The optical assembly shall be constructed of twelve (12) fluted openings with a white acrylic lens. The LED light source shall have an IP65 rated assembly. The assembly shall consist of highly efficient, three (3) sided extruded aluminum heat sink, three (3) LED boards with 6 each high brightness LEDs and a sealed acrylic tube. The bollard shall be supplied with electrical surge protection in accord with IEEE/ANSI C62.41.2 and shall be U.L. or E.T.L. Listed in U.S. and Canada. The LED lighted bollard shall have an L70 expected life of 70,000 hours with the LED life ratings determined in accordance with IESNA LM-80. The electronic LED driver shall be a U.L. Recognized, constant current design with THD<20%.

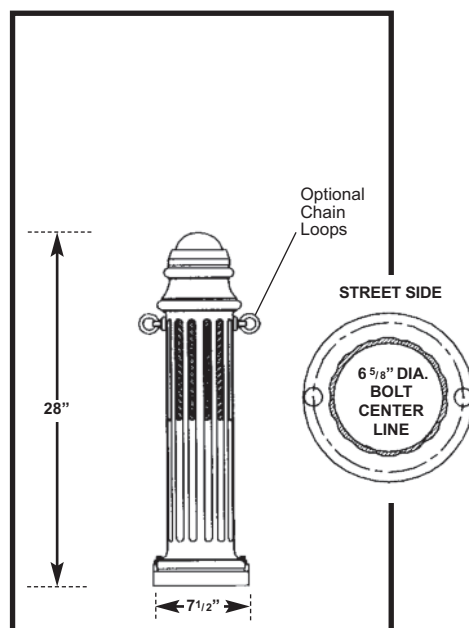
## FINISH

Prior to coating, each assembly shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse osmosis water rinsing, and non-chrome sealing to ensure corrosion resistance and excellent adhesion for the finish coating. The finish coating shall be electrostatically applied semi-gloss, super durable polyester powder baked at 400 degrees for a durable and superior, color retentive finish. Our optional antique Verde Green finish and Swedish Iron finish are hand brushed using a 3-step process. The total assembly shall be wrapped in shockproof wrapping or fully enclosed in corrugated cartons.

## INSTALLATION

Two, hot-dipped galvanized "L" type anchor bolts shall be provided with the post for non-quick release bollard anchorage. Quick release anchorage requires no anchor bolts. Bollard will be provided with a grounding stud.

**WARRANTY** Seven (7) year limited warranty. See product and finish warranty guide for details.



See installation template for exact door position.

## BUILDING A PART NUMBER

## PART NUMBER SELECTIONS

BOLLARD MODEL	OPTIONAL CHAIN LOOP	LIGHT SOURCE	DRIVER	OPTIONS	FINISH
230LED	CL2	3S45TLCA	ML	FHD	BK



### MODELS

- 230LED

### DRIVERS

- ML-120-277V
- MDL - Dimming 120-277V

### OPTIONAL CHAIN LOOP

- CL1 Chain Loop
- CL2 Chain Loops 180°

### LIGHT SOURCES

- 3S 60TLCA 23W 6000K Type V
- 3S 45TLCA 23W 4500K Type V
- 3S 35TLCA 23W 3500K Type V

TO ORDER CHAIN: Specify total length of chain required for project.

### STANDARD FINISHES\*

- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

\*Smooth Finishes are available upon request

### CUSTOM FINISHES

- OI Old Iron

### OPTIONS

- PEC1' Photocell-Bimetal 120 Volt
- PEC2' Photocell-Bimetal 208-277 Volt
- PEC1-E' Photocell-Electronic 120 Volt
- PEC2-E' Photocell-Electronic 208-277 Volt
- LP Low Power/ Reduced Output 11W
- FHD Dual Fuses and Holder
- GFI Ground Fault Interrupter Duplex Outlet<sup>1</sup>
- 1GFI not available with QR option

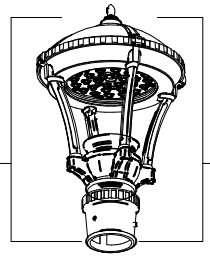
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

### STERNBERG SELECT FINISHES

- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

### \* NOTES

<sup>1</sup>U.L. listed components only. Bollard is not U.L. or E.T.L. listed with a photocell.



# LED Upgrade Kit Installation Guide

Fixture: PROS™ - Providence Small



**WARNING:** Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

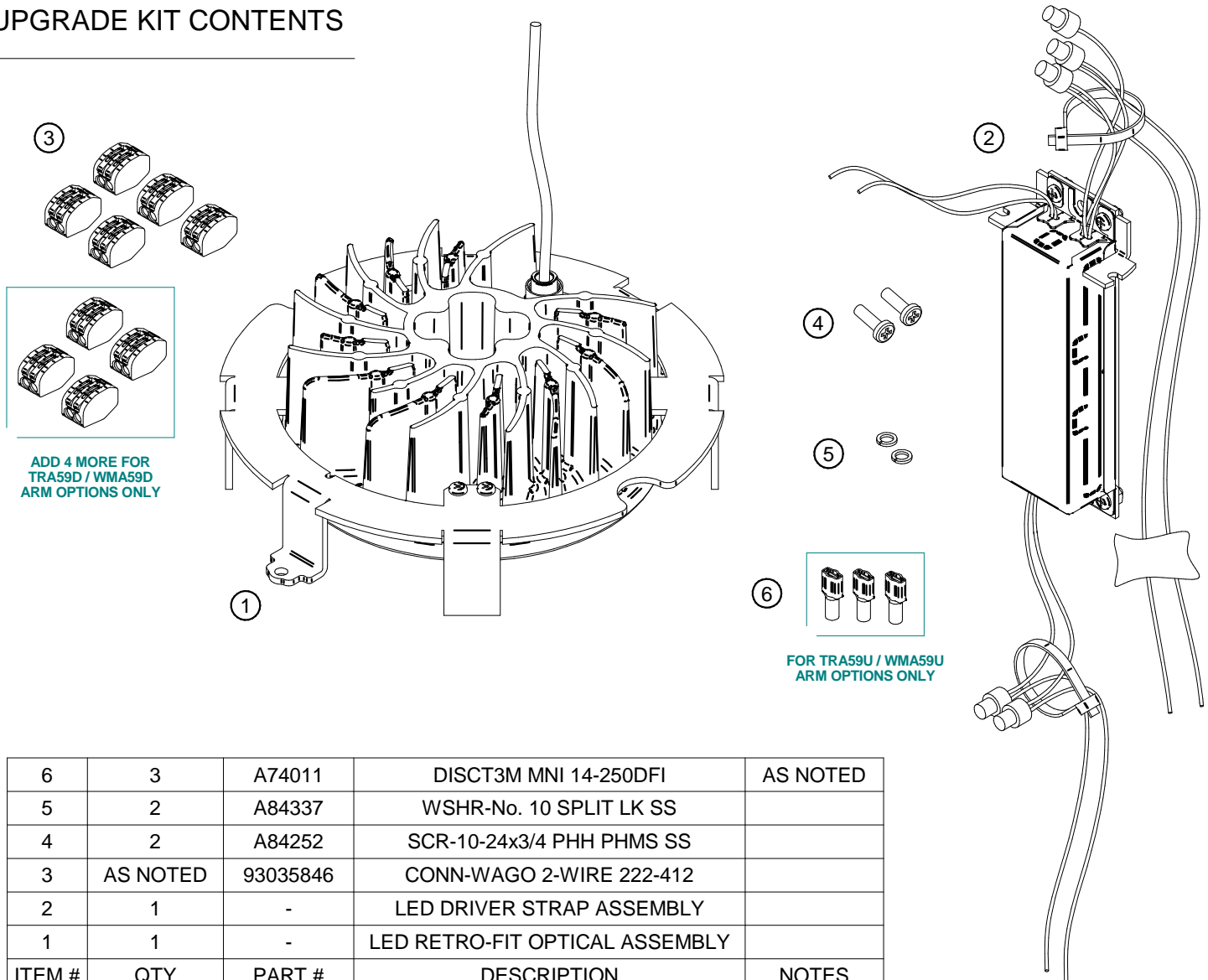
**MAINTENANCE:** A regularly scheduled maintenance program should be established to retain optimum light output and reduce heat retention. Dusting with a soft, clean, dry cloth is normally sufficient for the optics.

**CAUTION:** All wiring must be done by a qualified electrician. KEEP THIS SHEET FOR FUTURE REFERENCE.

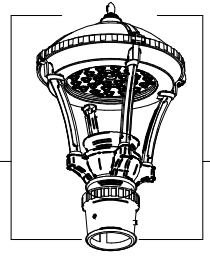
Examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damage parts prior to installation of the retrofit.

Examinez toutes les parties qui ne sont pas destinées à être remplacé par le kit d'adaptation pour les dommages et remplacer les pièces endommagées avant l'installation du kit de renovation.

## UPGRADE KIT CONTENTS



6	3	A74011	DISCT3M MNI 14-250DFI	AS NOTED
5	2	A84337	WSHR-No. 10 SPLIT LK SS	
4	2	A84252	SCR-10-24x3/4 PHH PHMS SS	
3	AS NOTED	93035846	CONN-WAGO 2-WIRE 222-412	
2	1	-	LED DRIVER STRAP ASSEMBLY	
1	1	-	LED RETRO-FIT OPTICAL ASSEMBLY	
ITEM #	QTY	PART #	DESCRIPTION	NOTES



## LED Upgrade Kit Installation Guide

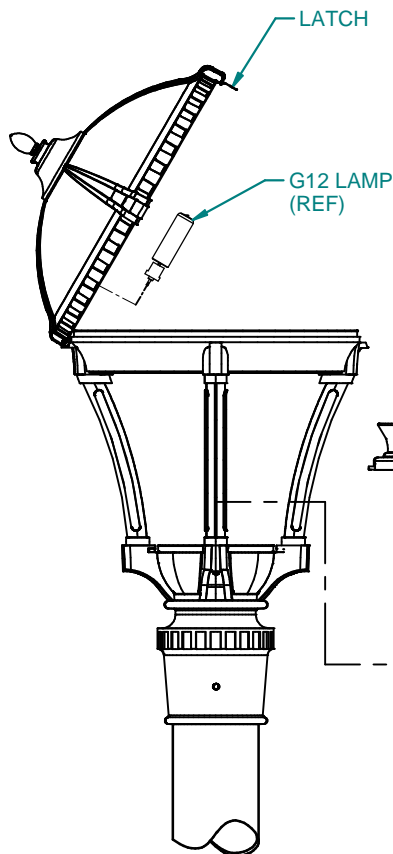
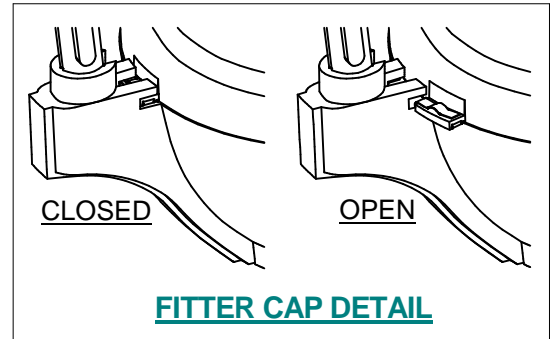
Fixture: PROS™ - Providence Small



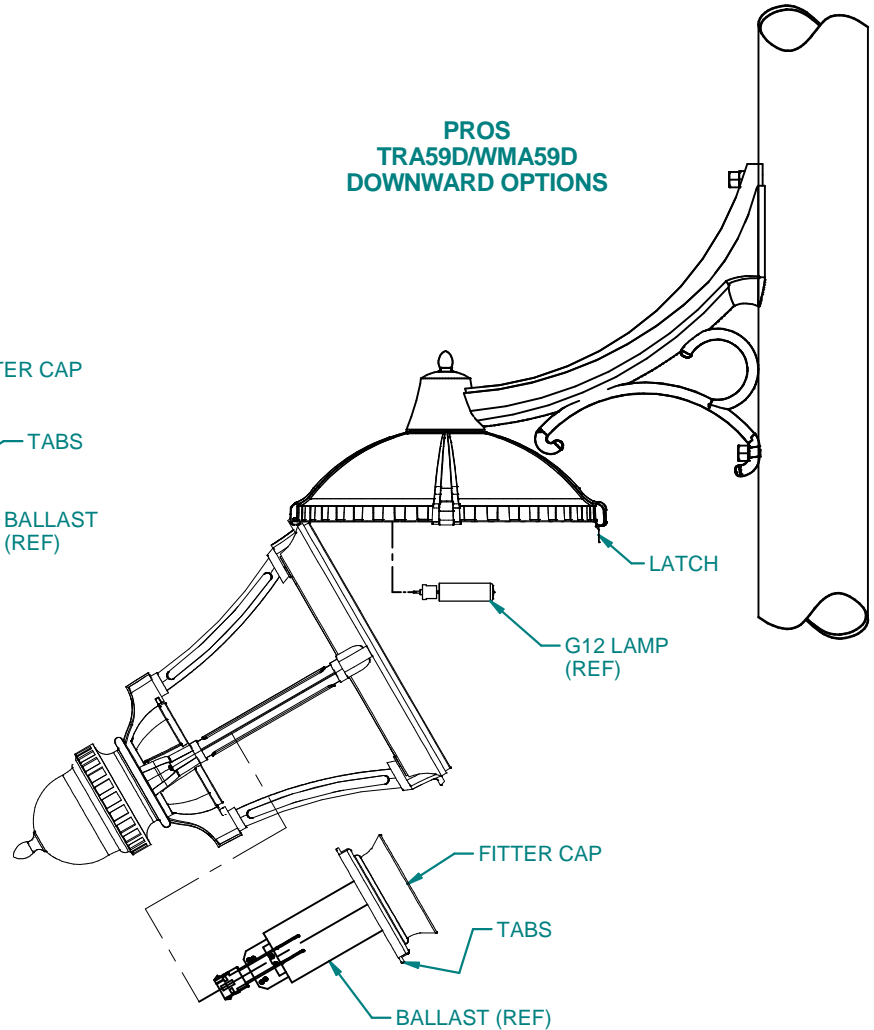
TURN OFF ALL POWER TO THE UNIT AND TAKE PROPER SAFETY PRECAUTIONS. FAILURE TO DO SO MAY RESULT IN SERIOUS PERSONAL INJURY.

### **STEPS: TO DIS-ASSEMBLE EXISTING ASSEMBLY:**

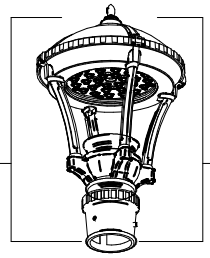
1. Pull latch (as shown on the illustration) unplug all connectors, remove guts and discard.
2. Rotate fitter cap counter clockwise, until free from fixture (See fitter cap detail) unplug all connectors, remove guts and discard.



**PROS  
POST TOP/TRA59U/WMA59U  
UPWARD OPTIONS**



**PROS  
TRA59D/WMA59D  
DOWNWARD OPTIONS**



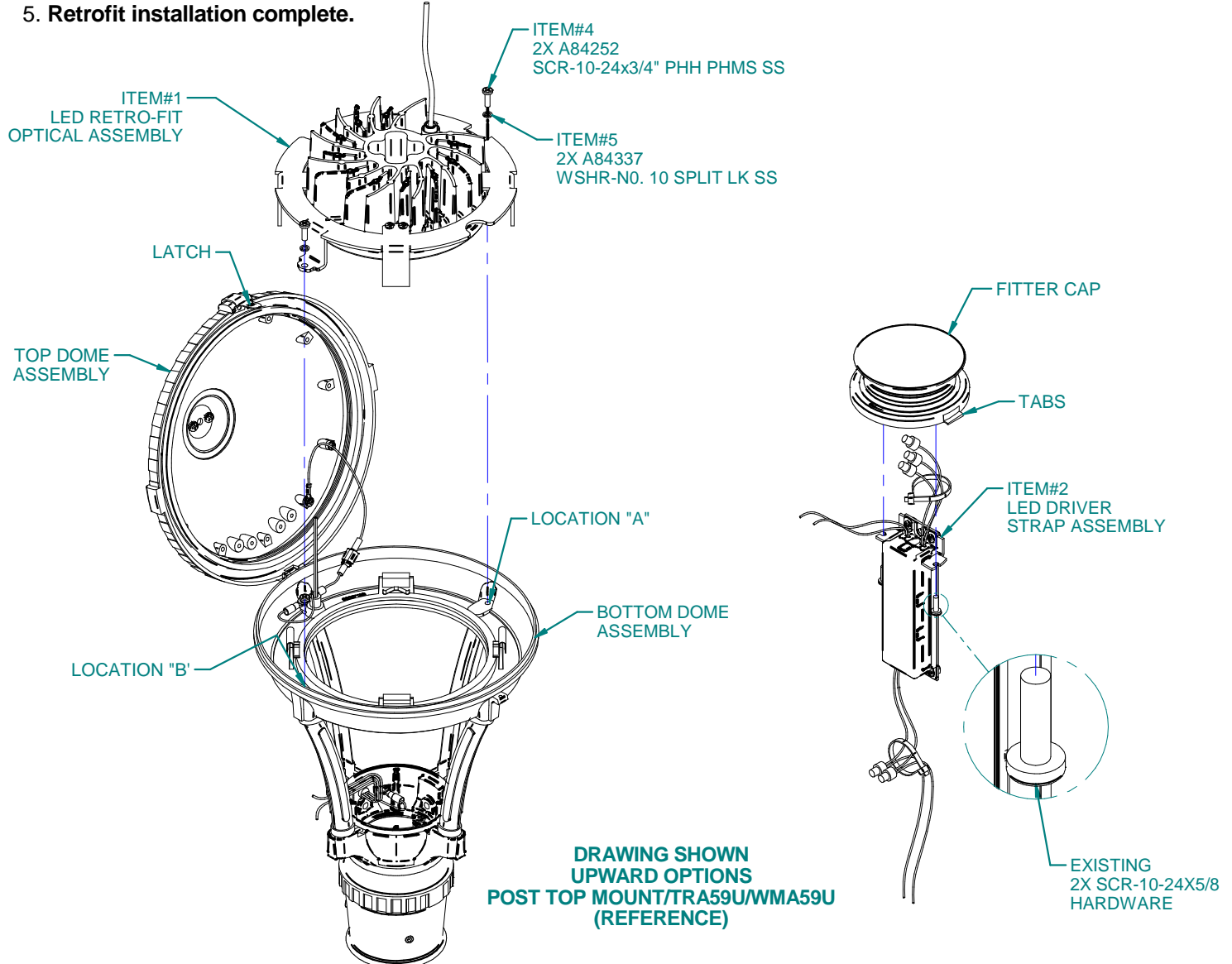
# LED Upgrade Kit Installation Guide

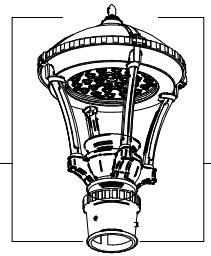
Fixture: PROS™ - Providence Small

## STEPS: TO RETROFIT LED

1. Remove existing screws on each side as shown in location "A" and "B", assemble LED retro-fit optical assembly with new produced two washers and two 10-24 x 3/4" screws provided by A.A.L. as shown on the illustrations below.
2. To assemble LED driver strap assembly, remove existing two 10-24 screws and assemble LED driver strap assembly to fitter cap with same hardware as shown in the illustration below.
3. For wiring diagrams:  
**POST TOP MOUNT / TRA59U ARM / WMA59U ARM (UPWARD OPTIONS)** see page 4.  
**TRA59D ARM / WMA59D ARM (DOWNWARD OPTIONS)** see page 5.
4. Close top dome by snapping latch securely to bottom dome assembly, Place LED driver assembly carefully inside fitter cap assembly rotate fitter cap clockwise until tabs snap securely into fitter.

## 5. Retrofit installation complete.

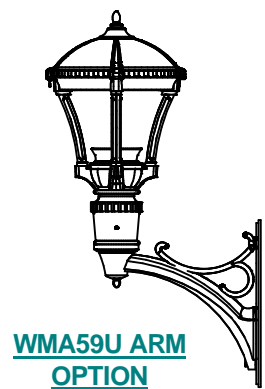
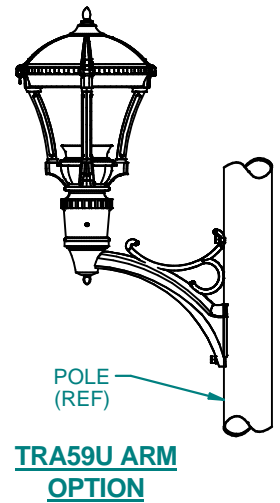
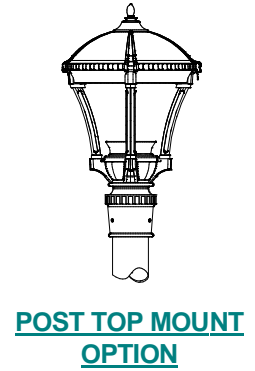
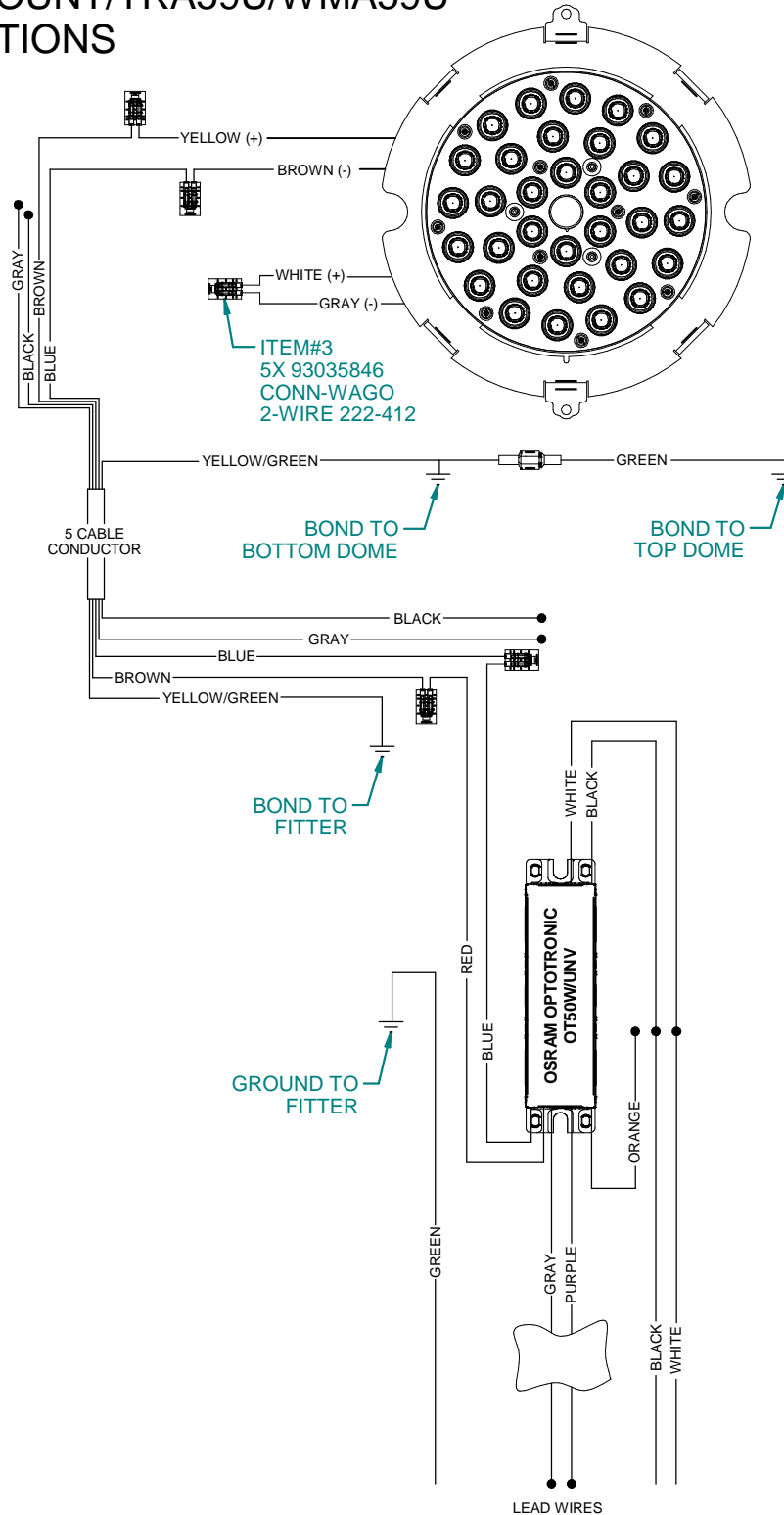




## LED Upgrade Kit Installation Guide

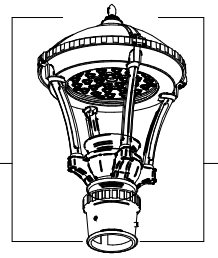
Fixture: PROS™ - Providence Small

### WIRING DIAGRAM POST TOP MOUNT/TRA59U/WMA59U UPWARD OPTIONS



# LED Upgrade Kit Installation Guide

Fixture: PROS™ - Providence Small

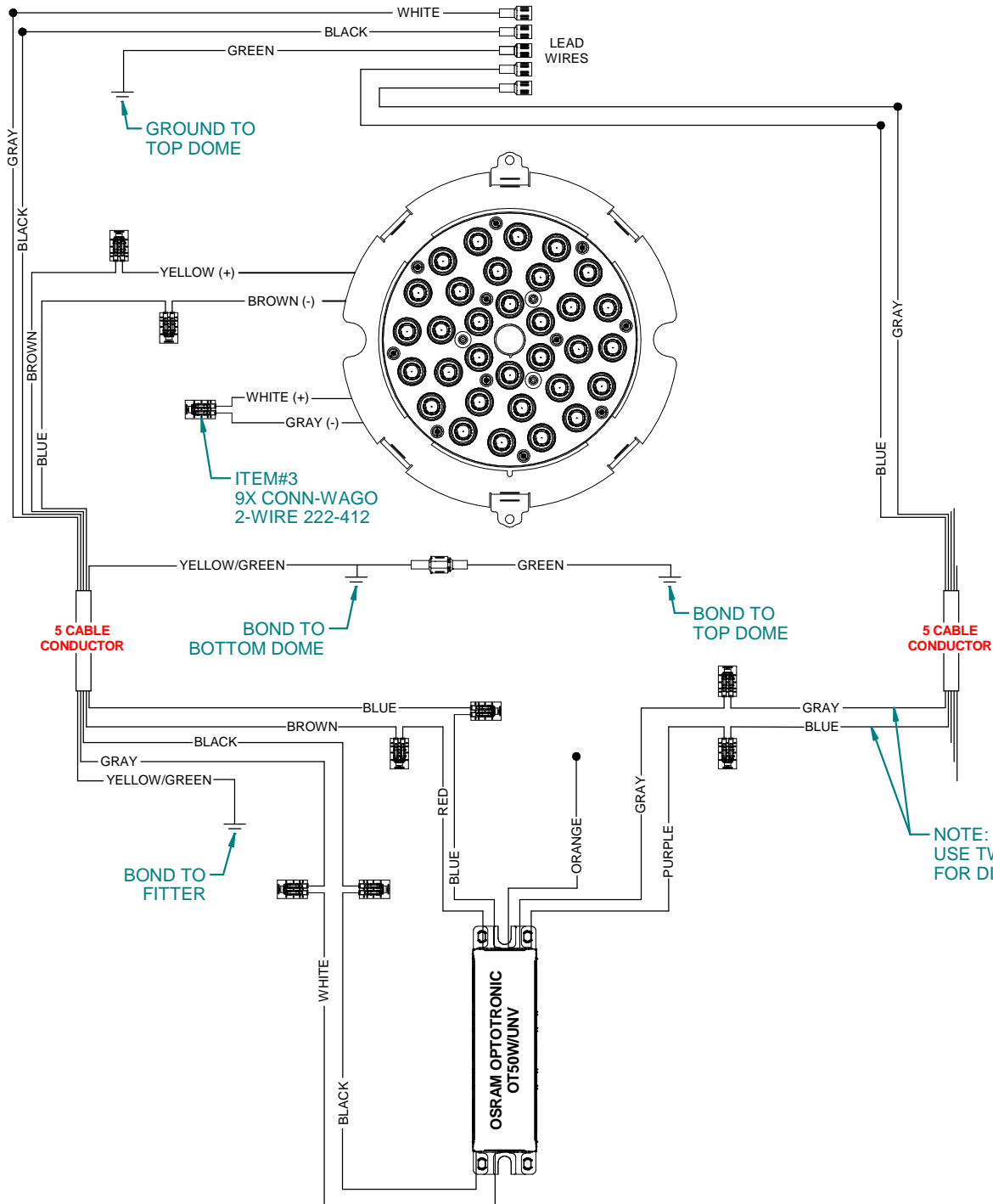


## WIRING DIAGRAM

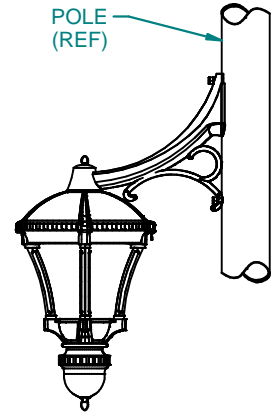
TRA59D ARM / WMA59D ARM

DOWNWARD OPTIONS

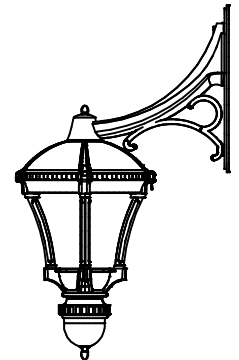
**(WITH TWO 5 CABLE CONDUCTOR)**



POLE  
(REF)



TRA59D ARM  
OPTION



WMA59D ARM  
OPTION

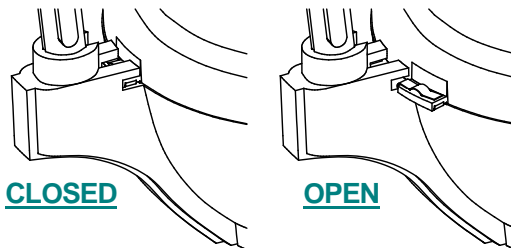
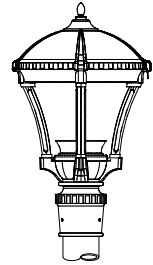
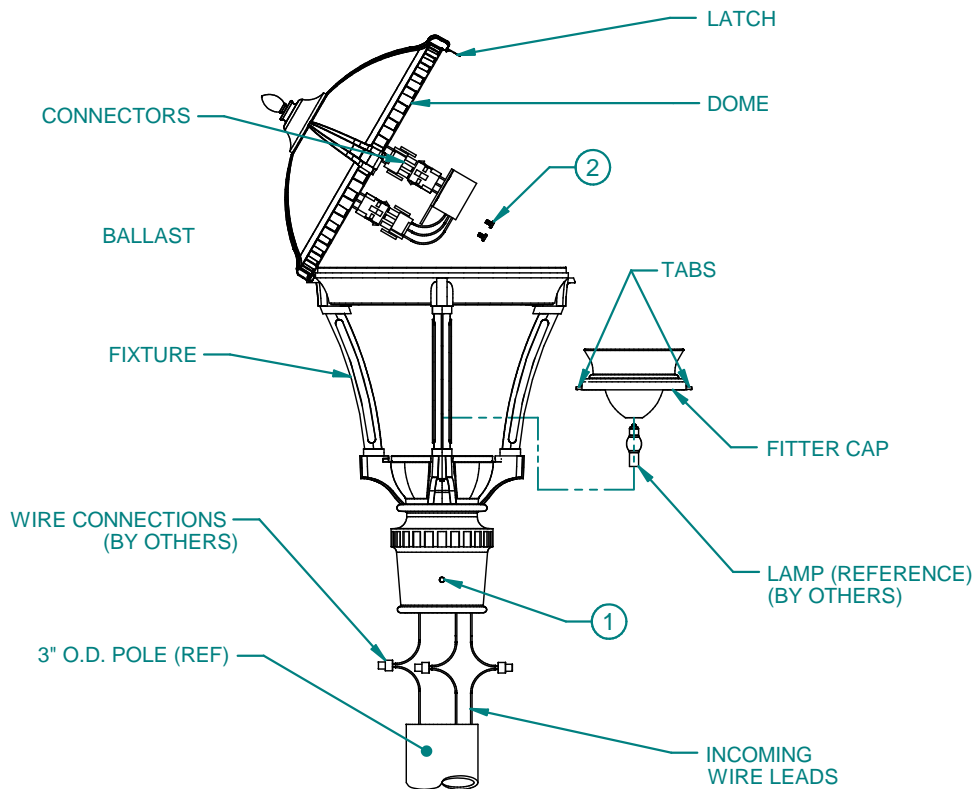


# INSTALLATION INSTRUCTIONS

CATALOG NUMBER

PROS IND

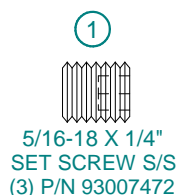
WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.



## FITTER CAP DETAIL

### INSTALLATION STEPS:

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. SLIP FIXTURE OVER POLE, AND SECURE FIXTURE TO POLE WITH (3) 5/16-18 x 1/4" SET SCREWS.
4. INSTALLATION COMPLETE.

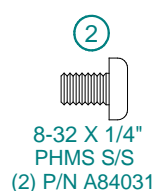


### BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND RAISE DOME TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST AND SECURE WITH (2) SCREWS. CLOSE DOME AND LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

### LAMP SERVICING:

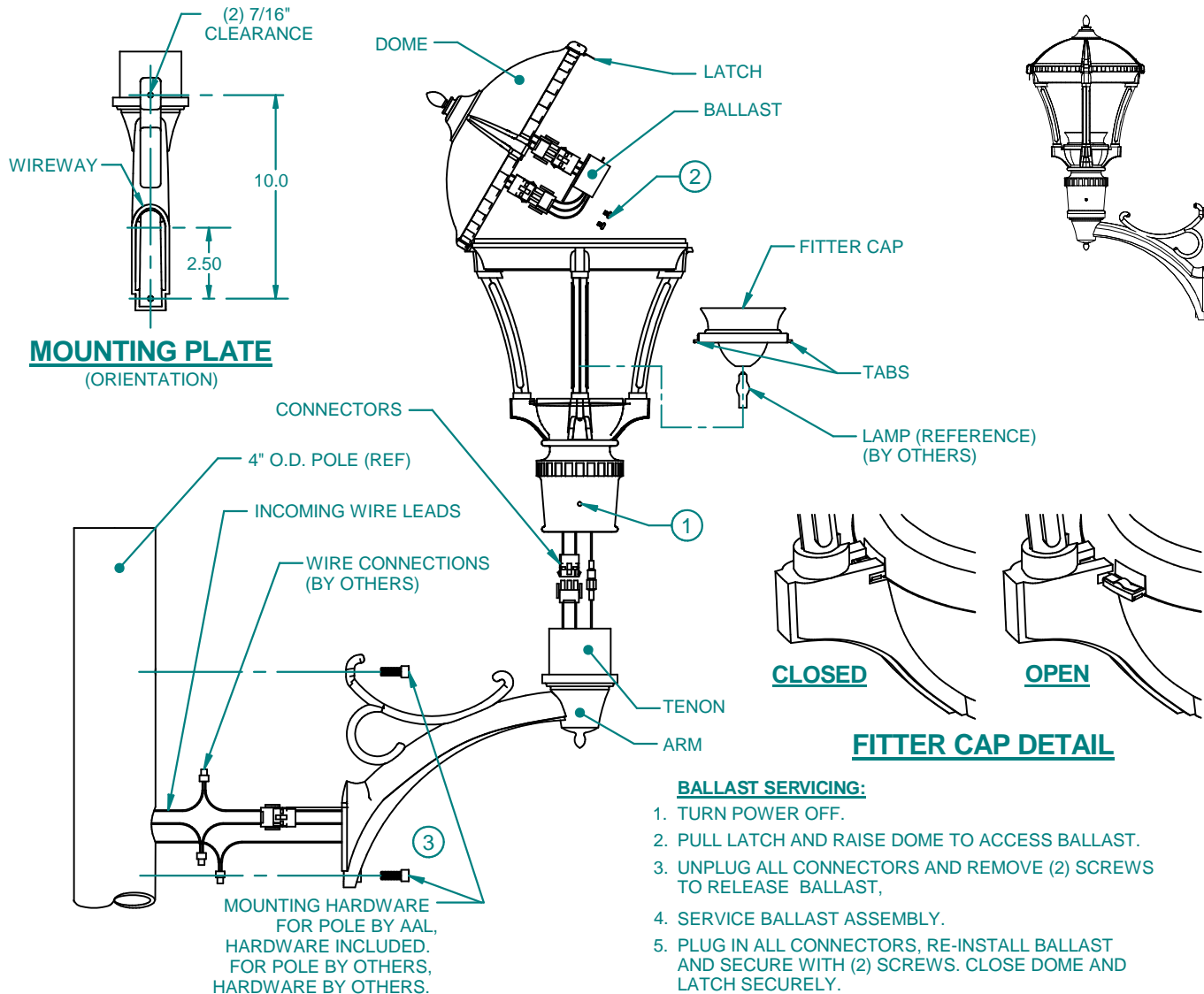
1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH REFLECTOR FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.



# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS IND  
TRA59U**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## INSTALLATION STEPS:

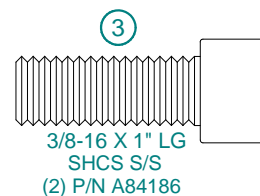
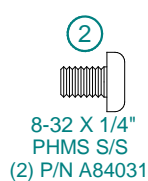
1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. PLACE WIRING IN POLE AND SECURE ARM TO POLE (HARDWARE AS NOTED).
4. SLIP FIXTURE OVER ARM, AND SECURE FIXTURE TO ARM WITH (3) 5/16-18 x 1/4" SET SCREWS.
5. INSTALLATION COMPLETE.

## BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND RAISE DOME TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST ASSEMBLY.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST AND SECURE WITH (2) SCREWS. CLOSE DOME AND LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

## LAMP SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.

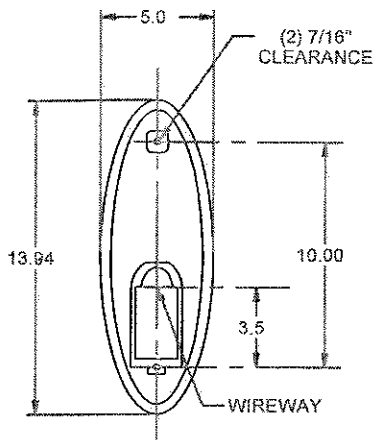




# INSTALLATION INSTRUCTIONS

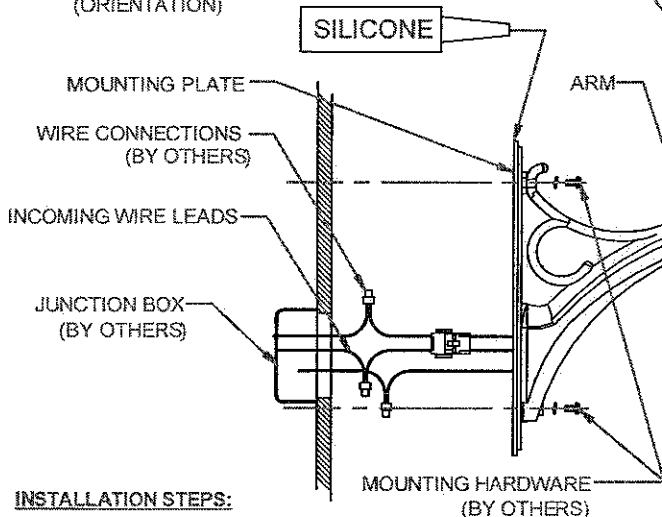
CATALOG NUMBER  
**PROS IND  
WMA59U**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



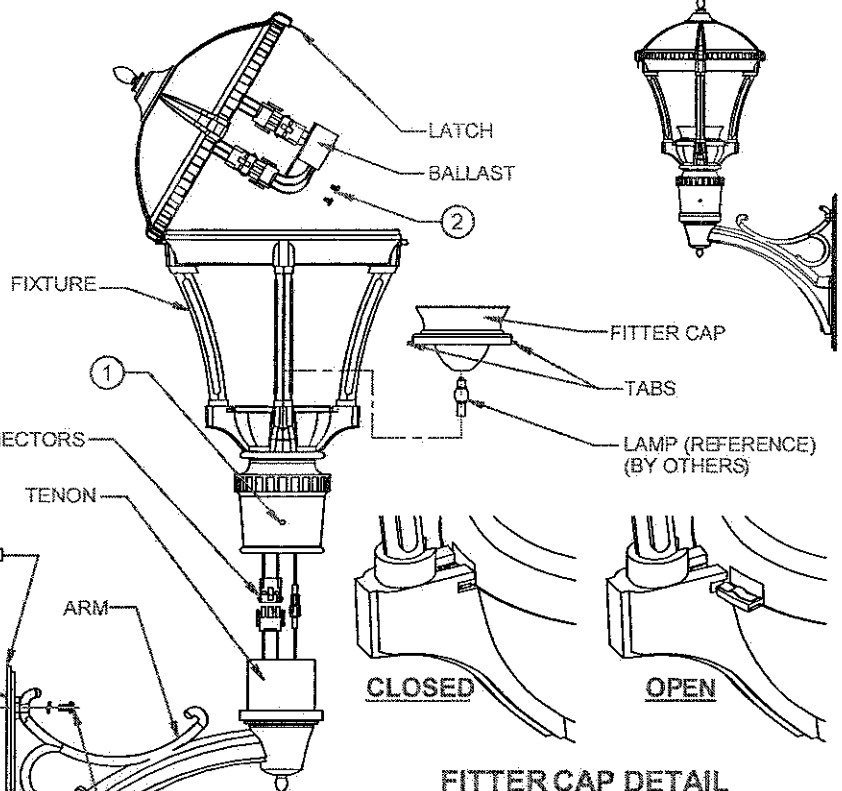
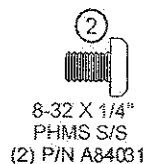
## MOUNTING PLATE

(ORIENTATION)



## INSTALLATION STEPS:

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. PLACE WIRING IN J-BOX AND SECURE ARM TO MOUNTING SURFACE. (NOT FOR JUNCTION BOX MOUNTING, HARDWARE BY OTHERS).
4. PLUG IN CONNECTORS FROM ARM TO FIXTURE. SLIP FIXTURE OVER TENON, AND SECURE FIXTURE TO TENON WITH (3) 5/16-18 x 1/4" SET SCREWS.
5. SILICONE AROUND MOUNTING PLATE AND MOUNTING SURFACE, AS SHOWN.
6. INSTALLATION COMPLETE.



## FITTER CAP DETAIL

### BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND RAISE DOME TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST ASSEMBLY AND SECURE WITH (2) SCREWS. CLOSE DOME AND LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

### LAMP SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH REFLECTOR ASSEMBLY FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP ASSEMBLY INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.

architectural  
lighting

16555 East Gale Avenue  
City of Industry, CA 91716-0080  
(626)968-5666 Fax(626)330-3861

**HUBBELL**  
Hubbell Lighting, Inc.

DATE  
12-8-09  
DATE  
12-08-09

APPRVD  
REV.  
A

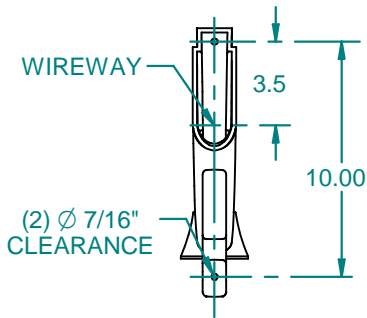
PART NO.

**A96484**

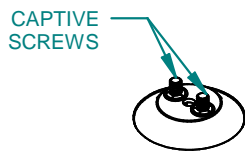
# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS DIR  
TRA59D**

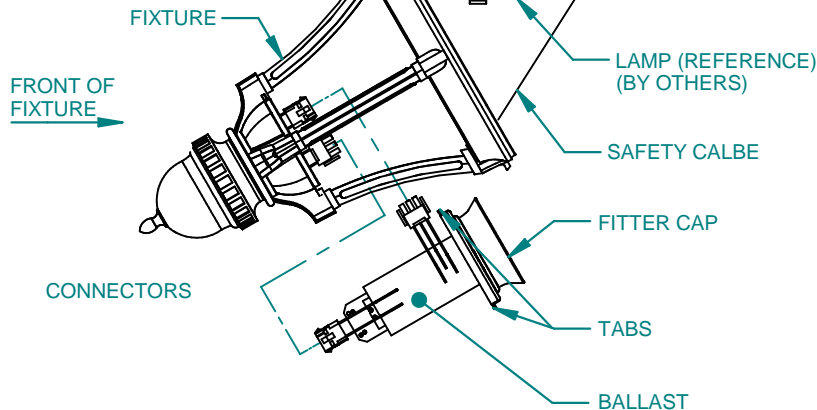
**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## MOUNTING PATTERN (ORIENTATION)

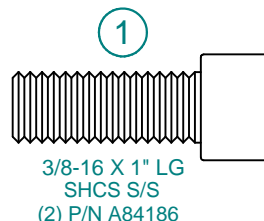


## DOME DETAIL

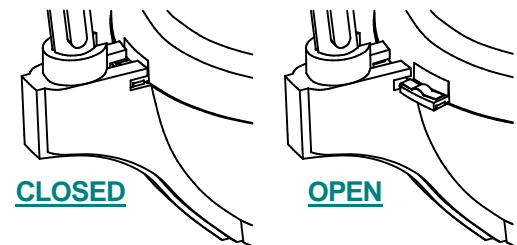
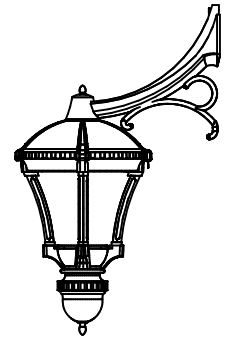
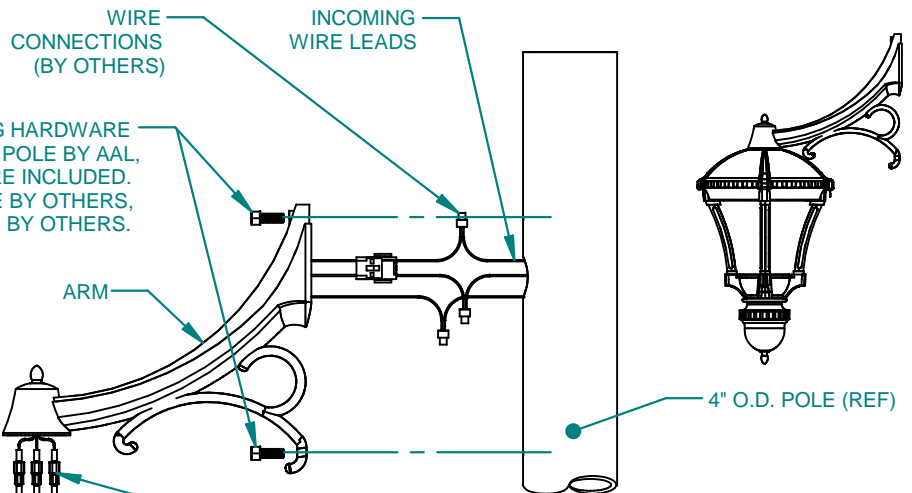


## INSTALLATION STEPS:

1. TURN OFF POWER.
2. PLUG IN CONNECTORS FROM ARM TO FIXTURE.
3. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST; ASSEMBLE FIXTURE TO ARM WITH (2) CAPTIVE SCREWS (AS SHOWN), CLOSE BALLAST COMPARTMENT.
4. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
5. PLACE WIRING IN POLE AND SECURE FIXTURE TO POLE (HARDWARE AS NOTED).
6. INSTALLATION COMPLETE.



3/8-16 X 1" LG  
SHCS S/S  
(2) P/N A84186



## FITTER CAP DETAIL

## LAMP SERVICING:

1. TURN OFF POWER.
2. PULL LATCH AND LOWER FIXTURE, AS SHOWN.
3. INSTALL LAMP (BY OTHERS). AND CLOSE FIXTURE AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

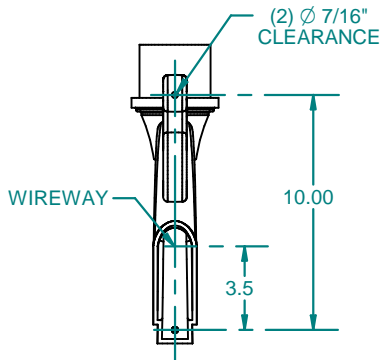
## BALLAST SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.

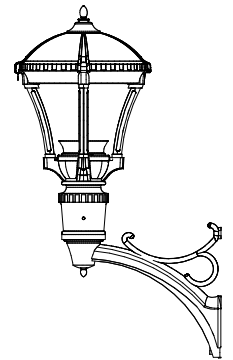
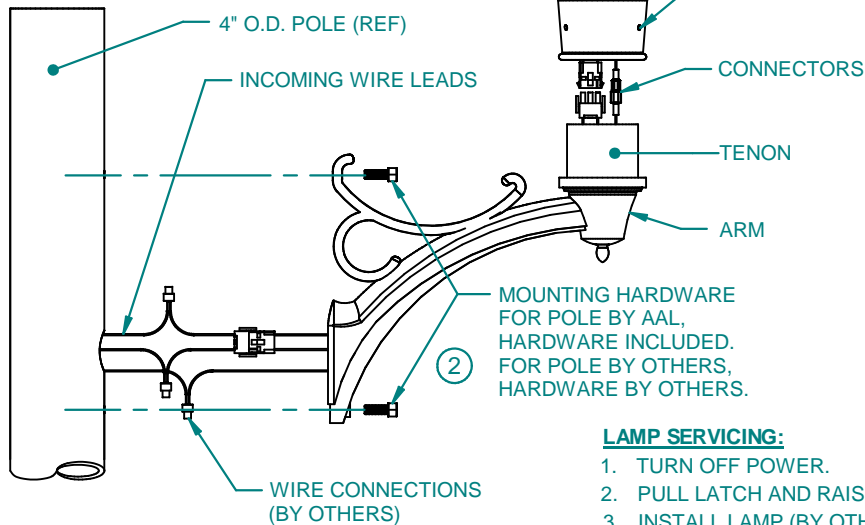
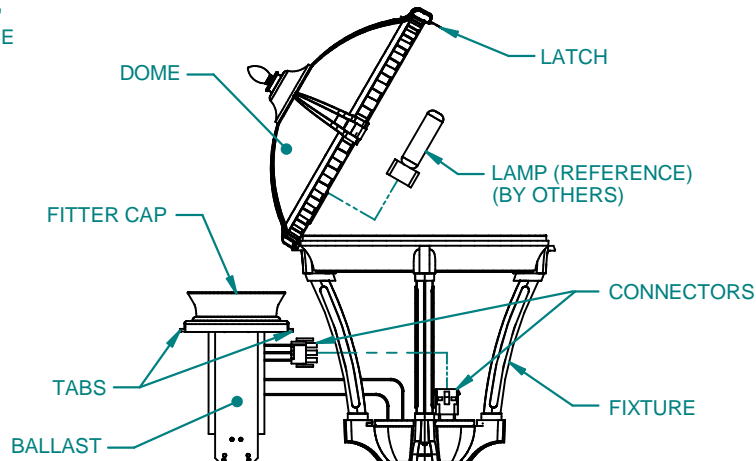
# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS DIR  
TRA59U**

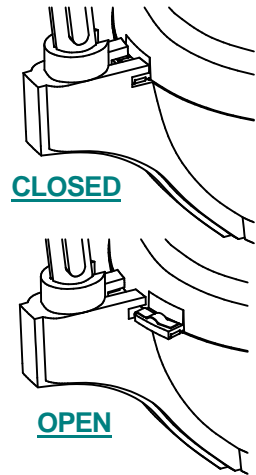
**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## **MOUNTING HOLES** (ORIENTATION)



## **CLOSED**



## **OPEN**

## **FITTER CAP DETAIL**

### **INSTALLATION STEPS:**

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. PLACE WIRING IN POLE AND SECURE ARM TO POLE (HARDWARE AS NOTED).
4. PLUG IN CONNECTORS FROM ARM TO FIXTURE AND SLIP FIXTURE OVER TENON, AND SECURE FIXTURE TO TENON WITH (3) 5/16-18 x 1/4" SET SCREWS.
5. INSTALLATION COMPLETE.

### **LAMP SERVICING:**

1. TURN OFF POWER.
2. PULL LATCH AND RAISE DOME AS SHOWN.
3. INSTALL LAMP (BY OTHERS). AND CLOSE DOME AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

### **BALLAST SERVICING:**

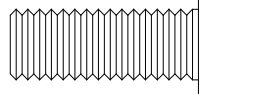
1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.

①



5/16-18 X 1/4"  
SET SCREW S/S  
(3) P/N 93007472

②

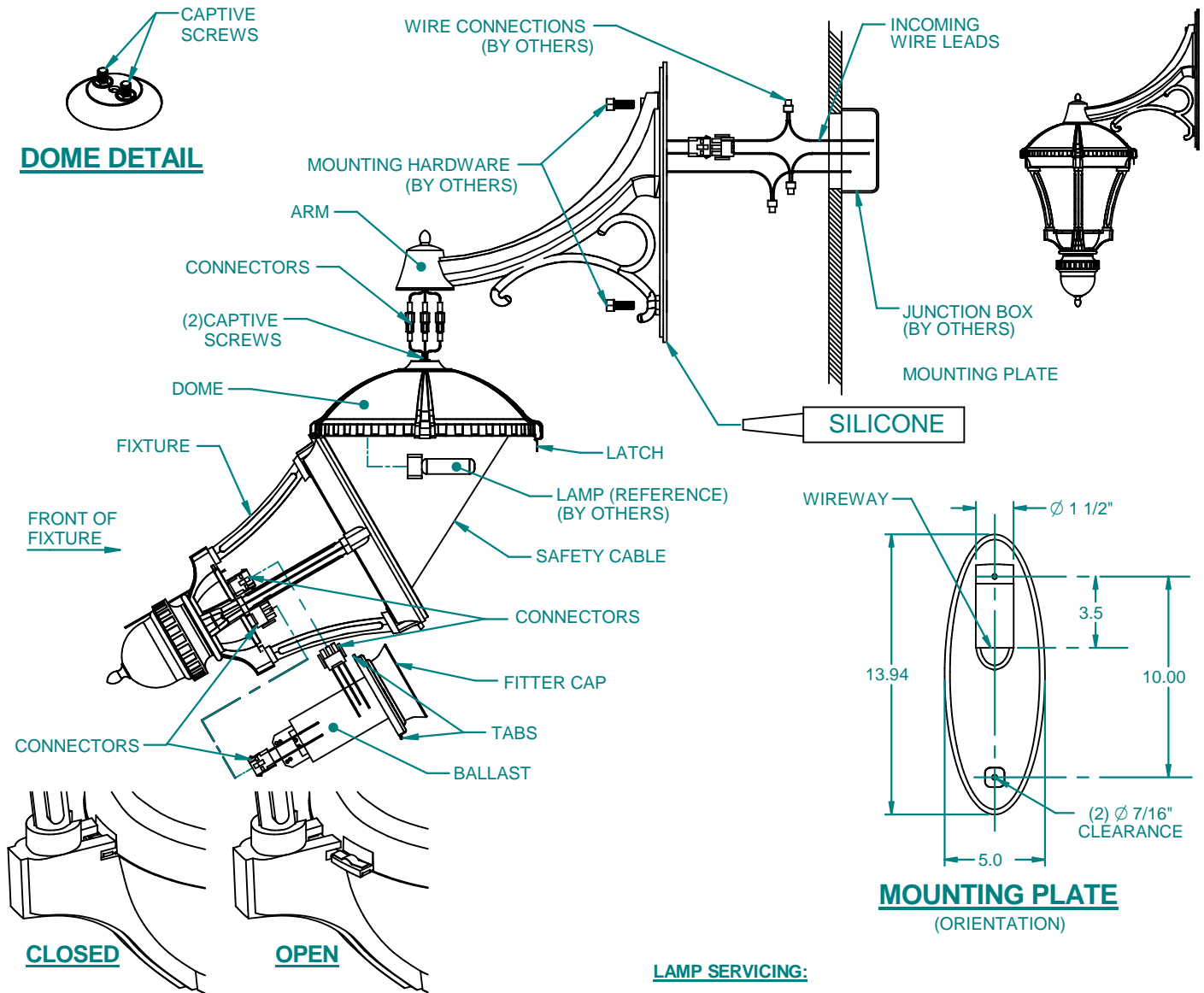


3/8-16 X 1" LG  
SHCS S/S  
(2) P/N A84186

# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS DIR  
WMA59D**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## FITTER CAP DETAIL

### INSTALLATION STEPS:

1. TURN OFF POWER.
2. PLUG IN CONNECTORS FROM FIXTURE TO ARM.
3. PULL LATCH AND RAISE DOME AS SHOWN; ASSEMBLE FIXTURE TO ARM WITH (2) CAPTIVE SCREWS (AS SHOWN), INSTALL LAMP. CLOSE LAMP COMPARTMENT.
4. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
5. PLACE WIRING IN J-BOX AND MOUNT FIXTURE TO WALL. (NOT FOR JUNCTION BOX MOUNTING, HARDWARE BY OTHERS).
6. SILICONE AROUND MOUNTING PLATE AND MOUNTING SURFACE AS SHOWN.
7. INSTALLATION COMPLETE.

### LAMP SERVICING:

1. TURN OFF POWER.
2. PULL LATCH AND LOWER FIXTURE, AS SHOWN.
3. INSTALL LAMP (BY OTHERS). CLOSE FIXTURE AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

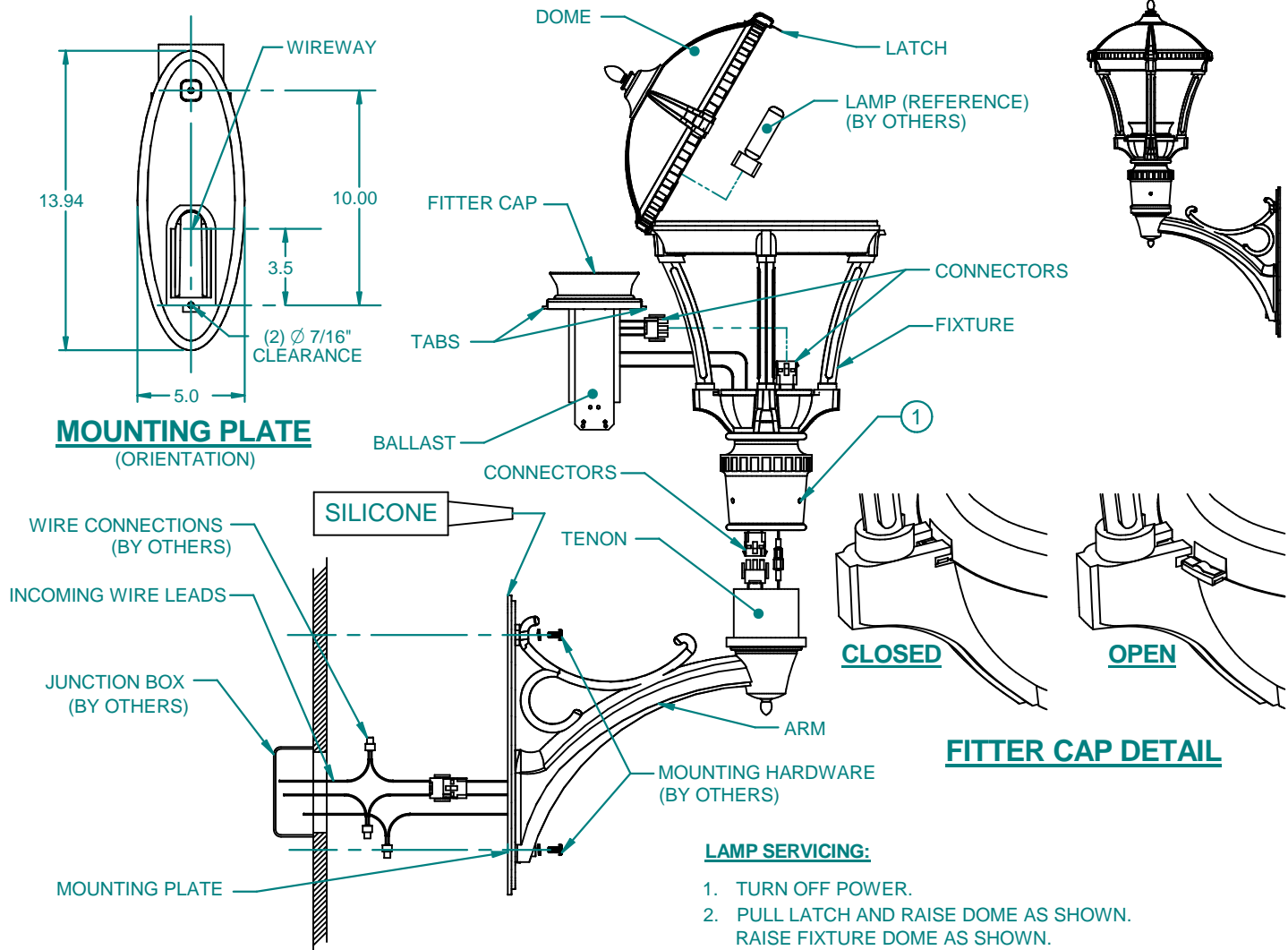
### BALLAST SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.

# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS DIR  
WMA59U**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## INSTALLATION STEPS:

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUND TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. PLACE WIRING IN J-BOX AND MOUNT FIXTURE TO MOUNTING SURFACE. (NOT FOR JUNCTION BOX MOUNTING, HARDWARE BY OTHERS).
4. PLUG IN CONNECTORS FROM ARM TO FIXTURE. SLIP FIXTURE OVER TENON, AND SECURE FIXTURE TO TENON WITH (3) 5/16-18 x 1/4" SET SCREWS.
5. SILICONE AROUND MOUNTING PLATE AND MOUNTING SURFACE, AS SHOWN.
6. INSTALLATION COMPLETE.

## LAMP SERVICING:

1. TURN OFF POWER.
2. PULL LATCH AND RAISE DOME AS SHOWN. RAISE FIXTURE DOME AS SHOWN.
3. INSTALL LAMP (BY OTHERS). AND CLOSE DOME AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

## BALLAST SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.

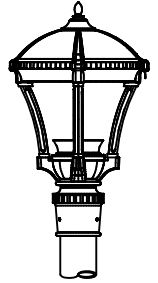
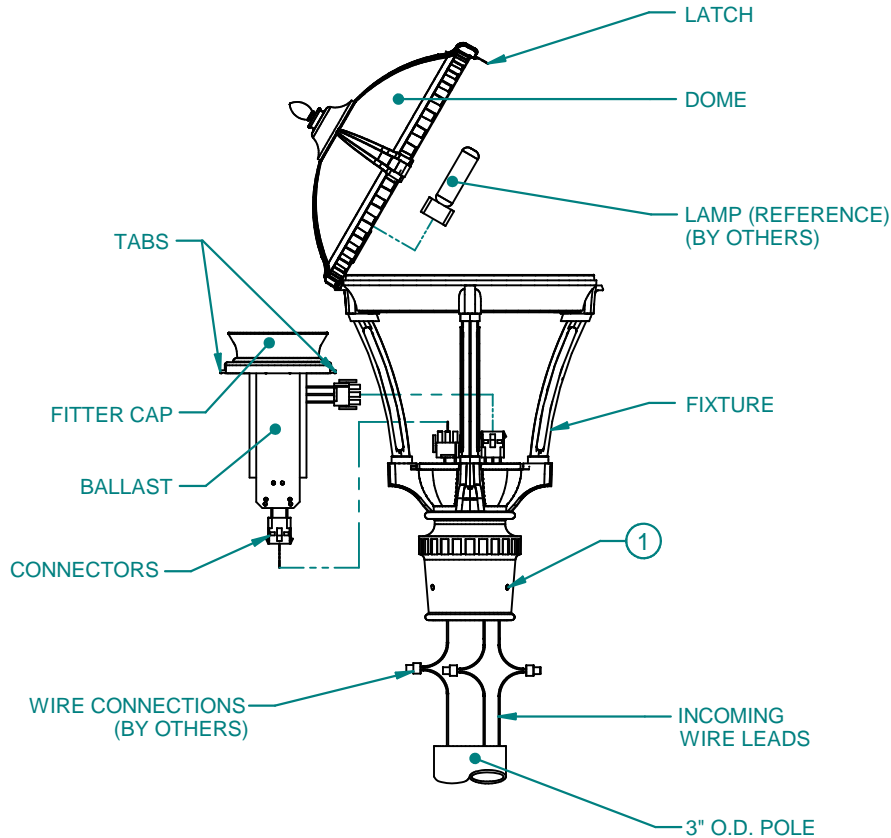


# INSTALLATION INSTRUCTIONS

CATALOG NUMBER

PROS DIR

WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.

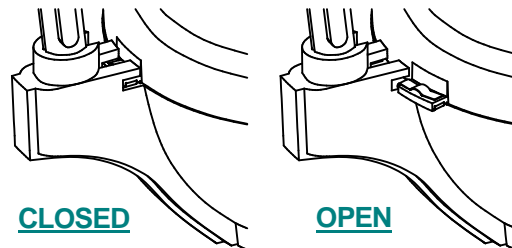


## INSTALLATION STEPS:

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO FIXTURE. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. SLIP FIXTURE OVER POLE, AND SECURE FIXTURE TO POLE WITH (3) 5/16-18 x 1/4" SET SCREWS.
4. INSTALLATION COMPLETE.

## BALLAST SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.



## FITTER CAP DETAIL

## LAMP SERVICING:

1. TURN OFF POWER.
2. PULL LATCH AND RAISE DOME AS SHOWN.
3. INSTALL LAMP (BY OTHERS). AND CLOSE DOME AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

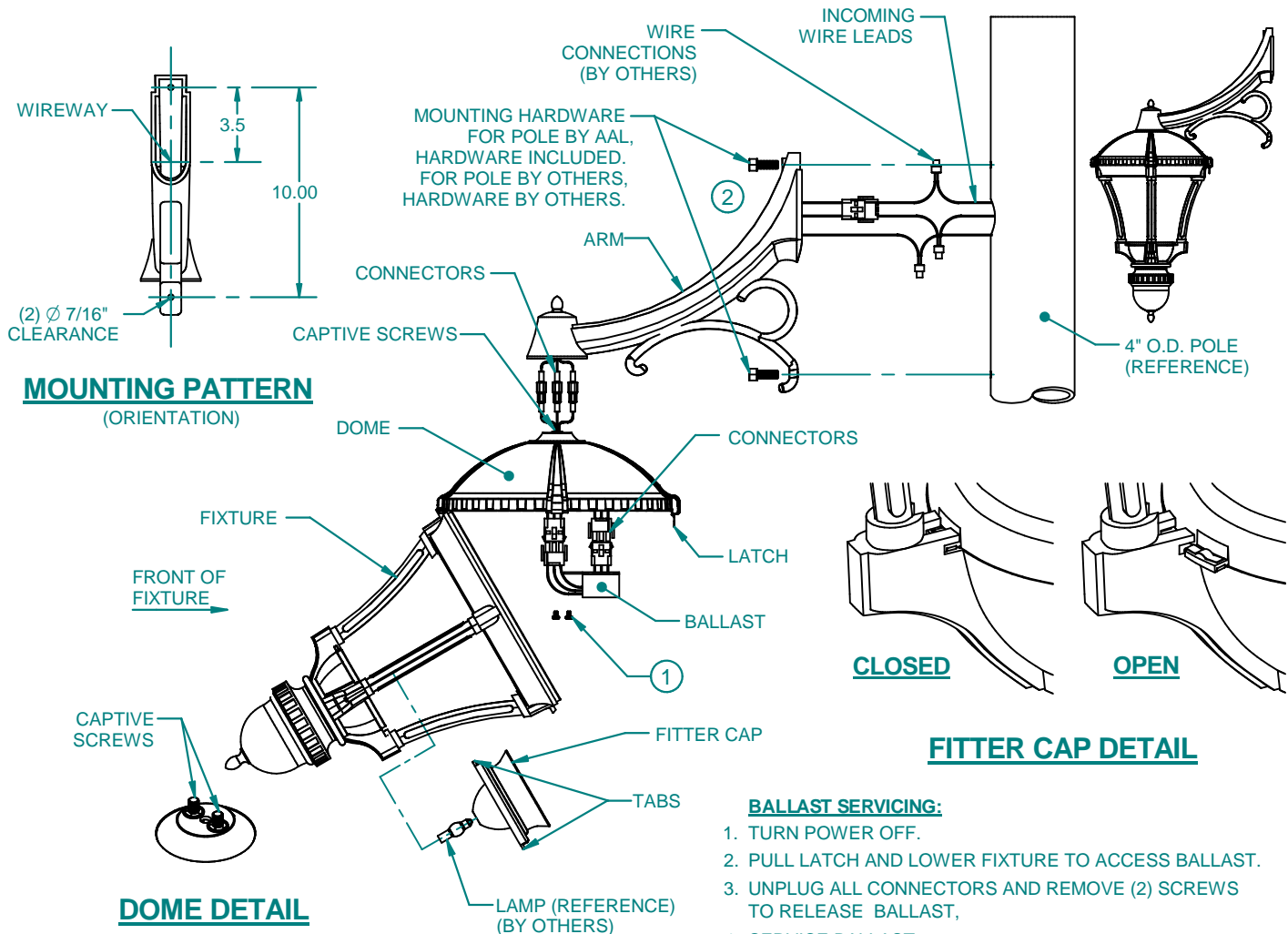




# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS IND  
TRA59D**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## MOUNTING PATTERN (ORIENTATION)

## DOMES DETAIL

## FITTER CAP DETAIL

### INSTALLATION STEPS:

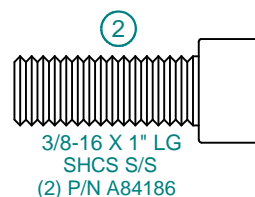
1. TURN OFF POWER.
2. PLUG IN CONNECTORS FROM ARM TO FIXTURE.
3. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST; ASSEMBLE FIXTURE TO ARM WITH (2) CAPTIVE SCREWS (AS SHOWN), CLOSE BALLAST COMPARTMENT.
4. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
5. PLACE WIRING IN POLE AND SECURE FIXTURE TO POLE (HARDWARE AS NOTED).
6. INSTALLATION COMPLETE.

### BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST AND SECURE WITH (2) SCREWS. CLOSE FIXTURE LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

### LAMP SERVICING:

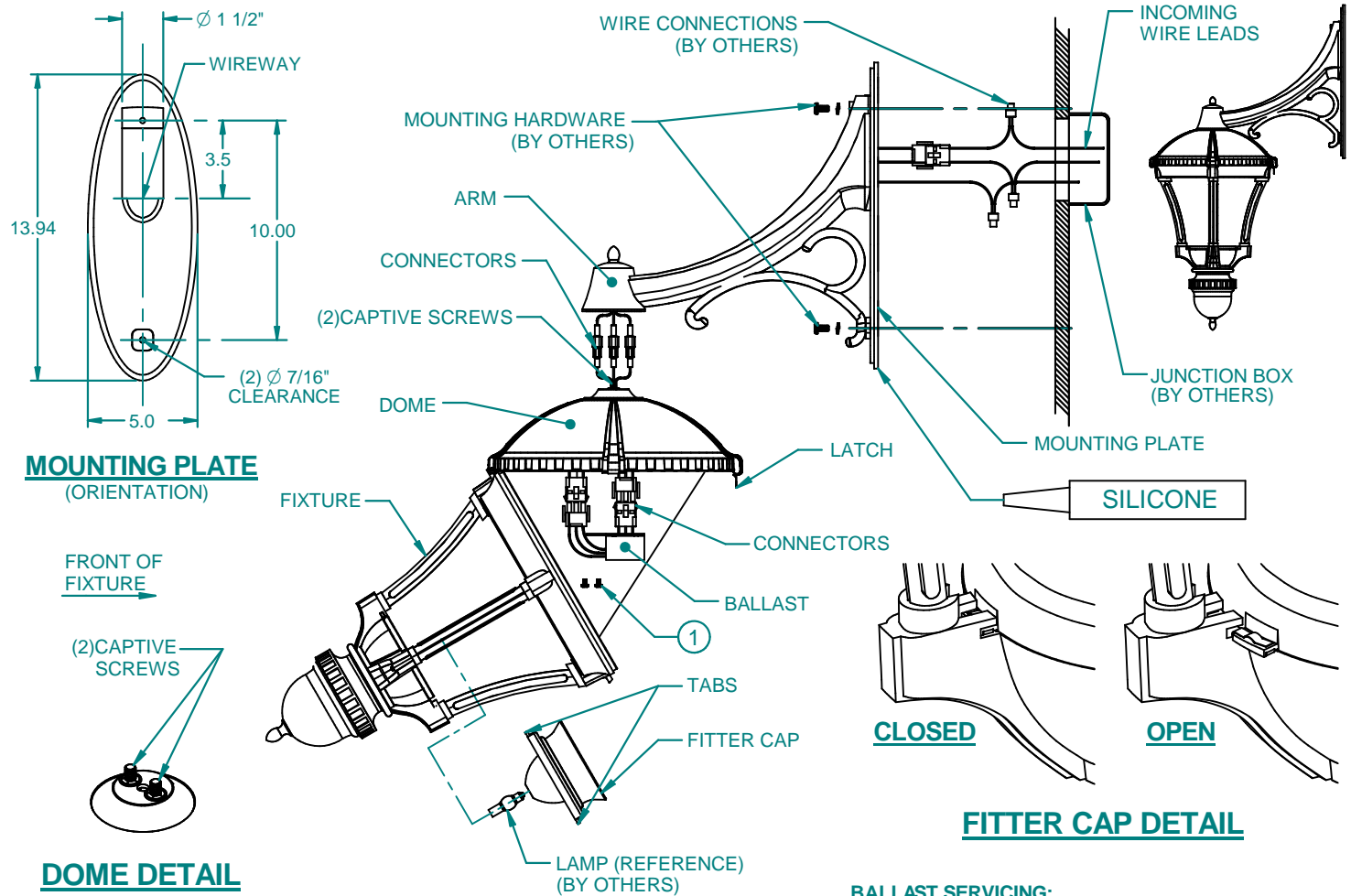
1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP ASSEMBLY INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.



# INSTALLATION INSTRUCTIONS

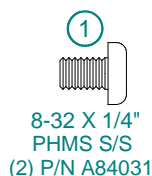
CATALOG NUMBER  
**PROS IND  
TRA59D**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## INSTALLATION STEPS:

1. TURN OFF POWER.
2. PLUG IN CONNECTORS FROM ARM TO FIXTURE.
3. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST; ASSEMBLE FIXTURE TO ARM WITH (2) CAPTIVE SCREWS (AS SHOWN), CLOSE LAMP COMPARTMENT.
4. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
5. PLACE WIRING IN J-BOX AND MOUNT FIXTURE TO MOUNTING SURFACE. (NOT FOR JUNCTION BOX MOUNTING, HARDWARE BY OTHERS).
6. SILICONE AROUND MOUNTING PLATE AND MOUNTING SURFACE, AS SHOWN.
7. INSTALLATION COMPLETE.



## BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST AND SECURE WITH (2) SCREWS. CLOSE FIXTURE AND LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

## LAMP SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.



# Mini LED Step Lights

## MSL

### 120V

W10

DATE: TYPE:

FIRM NAME:

PROJECT:

**LifeStep®**



### APPLICATIONS:

Ideal for a wide variety of interior and exterior applications including commercial, retail, and residential. ADA compliant. Up to 32° C (90°F) ambient temperatures.

### FIXTURE:

With a modern low profile cover plate, the MSL provides a smooth, broad light distribution. The cover plates are available in both sleek louver and hood patterns with several color choices.

### INSTALLATION:

MSL step lights can be installed in outlet box with depth of only two inches.

### LED LIGHT ENGINE:

Each unit operates at 120V while only consuming 4.5W powered directly to AC without the need for a driver. Units are available in several color temperatures. System designed for optimal life of 50,000 hours at 70% lumen maintenance. Please note these units are not dimmable.

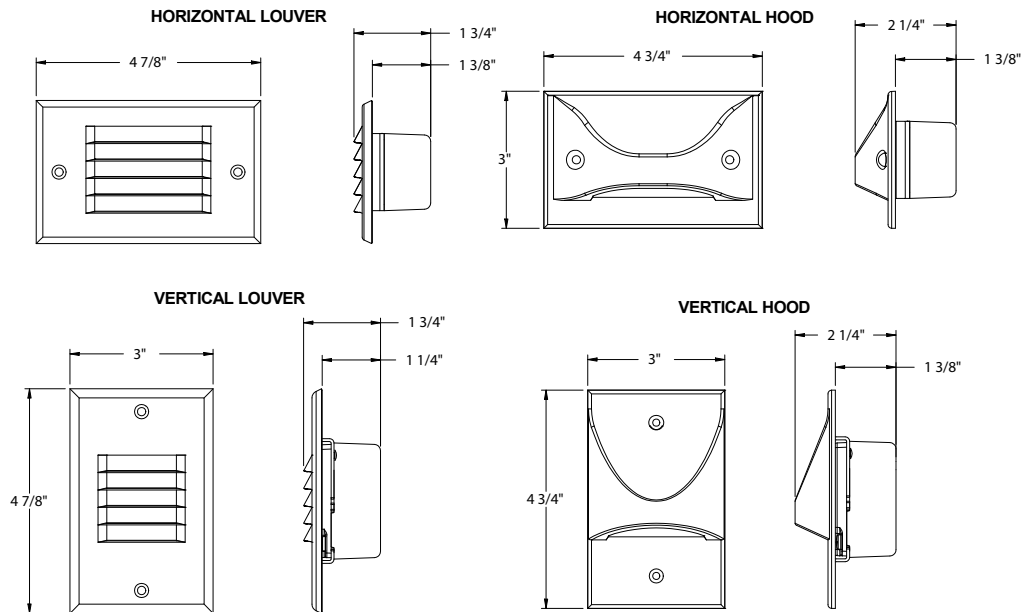
### CERTIFICATIONS:

CSA certified to US and Canadian safety standards. Suitable for wet location.

### WARRANTY:

5 year warranty

See [www.prescolite.com](http://www.prescolite.com) for details.



CATALOG NUMBER:

EXAMPLE: MSLHL30K8 WH

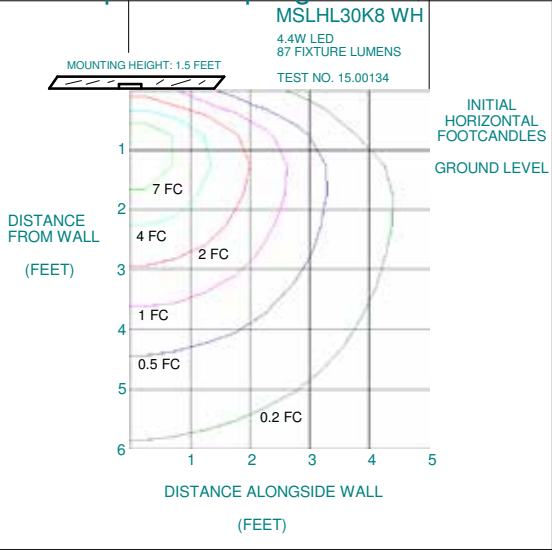
HOUSING	COVER PLATE	LED COLOR	CRI	FINISH
<input type="checkbox"/> <b>MSL</b> Mini Step Light	<input type="checkbox"/> <b>HL</b> Horizontal Louver <input type="checkbox"/> <b>VL</b> Vertical Louver <input type="checkbox"/> <b>HH</b> Horizontal Hood <input type="checkbox"/> <b>VH</b> Vertical Hood	<input type="checkbox"/> <b>30K</b> 3000 Kelvin <input type="checkbox"/> <b>40K</b> 4000 Kelvin <input type="checkbox"/> <b>50K</b> 5000 Kelvin	<input type="checkbox"/> <b>8</b> 80 CRI	<input type="checkbox"/> <b>WH</b> White <input type="checkbox"/> <b>BL</b> Black <input type="checkbox"/> <b>BN</b> Brushed Nickel <input type="checkbox"/> <b>AB</b> Antique Bronze

PHOTOMETRIC DATA

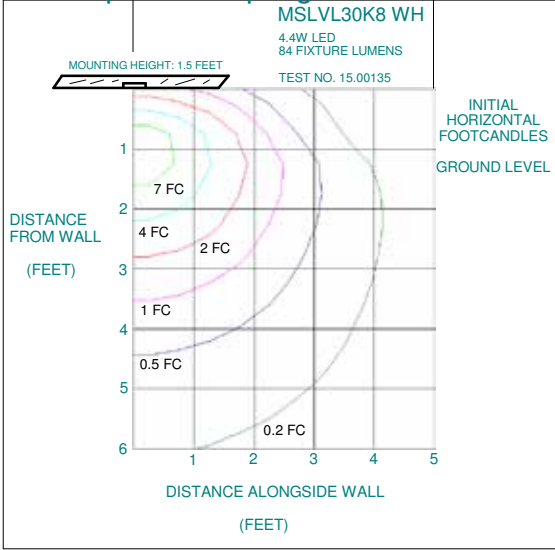
LiteStep - Mini LED Step Lights

	MSL
ELECTRICAL DATA	4.5W
Input Voltage	120V AC
Input Frequency	50/60 Hz
Input Current	0.04A
Input Power	4.5W
Power Factor	Over 0.95
Operating Temperature	-30° to 32°C

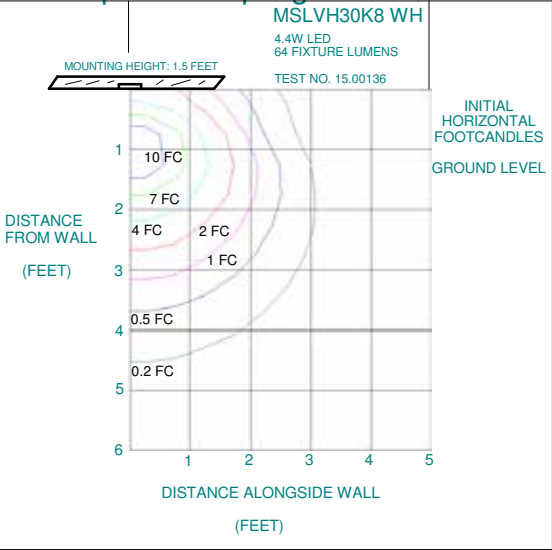
LiteStep LED Step Light



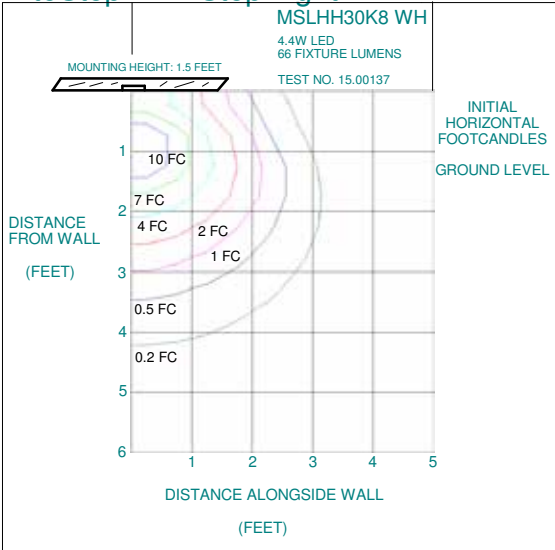
LiteStep LED Step Light



LiteStep LED Step Light



LiteStep LED Step Light



NOTES: Refer to [www.prescolite.com](http://www.prescolite.com) for additional photometric tests (IES Files).



# SOLID STATE AREA LIGHTING

## LCG SERIES-LED

### SPECIFICATIONS

PROJECT NAME: \_\_\_\_\_

PROJECT TYPE: \_\_\_\_\_

W11

#### LUMINAIRE

One piece high impact polycarbonate patterned diffusing globe provided with durable corrosion resistant cast aluminum fitter, struts, and top. Top is hinged for access. Standard fitter has 3" I.D. opening for tenon. All hardware is stainless steel.

#### LED POWER ARRAY™

Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic Lens and end cap protects the LED Tube's internal components.

**ANGLED POWER ARRAY™:** Micro-Reflectors mounted around each LED control the raw light output. LED Tubes are uniquely aimed horizontally and vertically and combined to produce highly efficient IES Distribution Types II, III, IV and V. Used in conjunction with a clear patterned diffusing lens.

**VERTICAL POWER ARRAY™ WITH GLASS REFRACTOR:** LED Tubes are aligned vertically and arranged radially to produce an even raw light distribution that simulates standard light sources. Array is secured within a 6" Prismatic Glass Refractor which provides the optical control. Used in conjunction with a clear patterned diffusing lens.

**VERTICAL POWER ARRAY™:** LED Tubes are aligned vertically and arranged radially to produce an even raw light distribution that simulates standard light sources. Produces a minimal glare, symmetric diffuse light distribution. Used in conjunction with an opal patterned diffusing lens.

#### LED EMITTERS

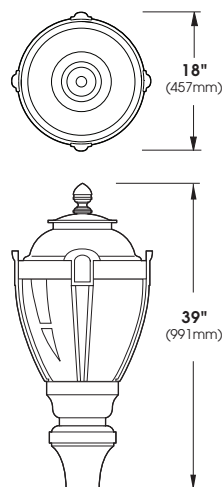
High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

#### LED DRIVER

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

#### FINISH

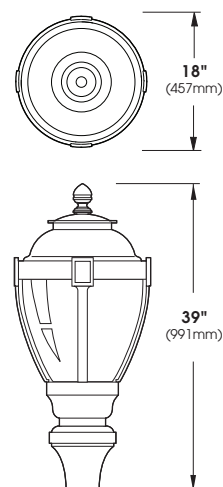
Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.



LCG\*

\* SHOWN WITH -YD FITTER

PATENT PENDING



LCGM\*

\* SHOWN WITH -YD FITTER

PATENT PENDING



2013141

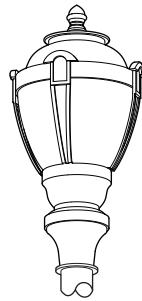
# LCG SERIES - LED

## S P E C I F I C A T I O N S

### OPTIONAL FITTERS



### LED POWER ARRAY™ MODULES



**LCG-LED** E.P.A.= 1.75

#### ANGLED ARRAY

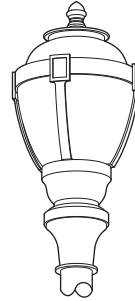
Available in:  
10 Array 80 LED Max.

#### GLASS REFRACTOR w/ VERTICAL ARRAY

Available in:  
6 Array 36 LED Max.

#### VERTICAL ARRAY

Available in:  
6 Array 48 LED Max.  
8 Array 64 LED Max.  
10 Array 80 LED Max.



**LCGM-LED** E.P.A.= 1.71

#### ANGLED ARRAY

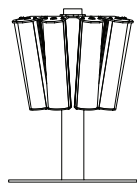
Available in:  
10 Array 80 LED Max.

#### GLASS REFRACTOR w/ VERTICAL ARRAY

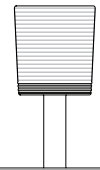
Available in:  
6 Array 36 LED Max.

#### VERTICAL ARRAY

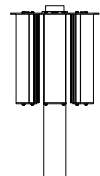
Available in:  
6 Array 48 LED Max.  
8 Array 64 LED Max.  
10 Array 80 LED Max.



**APA - Angled Array**  
Base mount



**GRV - Glass Refractor**  
w/ Vertical Array  
Base mount



**VPA - Vertical Array**  
Base mount

(Specifications subject to  
change without prior notice.)

CLEAR ACRYLIC TOP  
(FOR UPLIGHT)

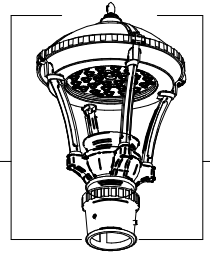


PATENT PENDING

## O R D E R I N G I N F O R M A T I O N

LUMINAIRE-FITTER	OPTICS	# of LED's	COLOR	VOLTAGE	MOUNTING	FINISH	OPTIONS
LUMINAIRE	OPTICS	LED			MOUNTING	FINISH	OPTIONS
<b>LUMINAIRE-FITTER</b>	<b>ANGLED POWER ARRAY</b> (CLEAR PATTERNED LENS)	<b>No. LEDs</b>	<b>COLOR</b>	<b>VOLTAGE</b>	<b>ARM MOUNT</b>	<b>STANDARD TEXTURED FINISH</b>	
<input type="checkbox"/> LCG-LED-YD	<input type="checkbox"/> APA - II	<input type="checkbox"/> 80LED (89 Watts)	<input type="checkbox"/> NW (4000K)* * STANDARD	<input type="checkbox"/> 120	<input type="checkbox"/> 1	<input type="checkbox"/> BLACK RAL-9005-T	<input type="checkbox"/> CLEAR PATTERNED POLYCARBONATE . . . CP (STANDARD GLOBE)
<input type="checkbox"/> LCG-LED-YF	<input type="checkbox"/> APA - III	<input type="checkbox"/> 60LED (67 Watts)	<input type="checkbox"/> CW (5000K)	<input type="checkbox"/> 208	<input type="checkbox"/> 2-180	<input type="checkbox"/> WHITE RAL-9003-T	<input type="checkbox"/> OPAL PATTERNED POLYCARBONATE . . . WP
<input type="checkbox"/> LCG-LED-YF	<input type="checkbox"/> APA - IV	<input type="checkbox"/> 40LED (45 Watts)	<input type="checkbox"/> WW (3000K)	<input type="checkbox"/> 240	<input type="checkbox"/> 2-90	<input type="checkbox"/> GREY RAL-7004-T	<input type="checkbox"/> CLEAR ACRYLIC TOP (FOR UPLIGHT) . . . LT (STANDARD SOLID TOP)
<input type="checkbox"/> LCG-LED-YH	<input type="checkbox"/> APA - V		OTHER LED COLORS AVAILABLE CONSULT FACTORY	<input type="checkbox"/> 277	<input type="checkbox"/> 3-90	<input type="checkbox"/> DARK BRONZE RAL-8019-T	<input type="checkbox"/> HOUSE SIDE SHIELD . . . HS
		Wattages are Max Input Watts		<input type="checkbox"/> 480	<input type="checkbox"/> 3-120	<input type="checkbox"/> GREEN RAL-6005-T	<input type="checkbox"/> DIMMABLE DRIVER(S) (0-10V) . . . . . DIM
<input type="checkbox"/> LCGM-LED-YD	<b>GLASS REFRACTOR</b> (CLEAR PATTERNED LENS)	<input type="checkbox"/> 36LED (41 Watts)			<input type="checkbox"/> 4-90		<input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR . . . . . HLSW
<input type="checkbox"/> LCGM-LED-YE	<input type="checkbox"/> GRV - III					FOR SMOOTH FINISH REMOVE SUFFIX "T" (EXAMPLE: RAL-9500)	<input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) . . . PC+V
<input type="checkbox"/> LCGM-LED-YF	<input type="checkbox"/> GRV - V				<b>WALL MOUNT</b>	SEE USALTG.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> 10KV SURGE PROTECTOR . . . . . 10SP
<input type="checkbox"/> LCGM-LED-YH	<b>VERTICAL POWER ARRAY</b> (OPAL LENS)	<input type="checkbox"/> 80LED (89 Watts)			<input type="checkbox"/> WM		<input type="checkbox"/> 20KV SURGE PROTECTOR (277V & 480V Only) . . . 20SP
	<input type="checkbox"/> VPA - SYM	<input type="checkbox"/> 64LED (72 Watts)			<b>POST TOP</b>		
		<input type="checkbox"/> 48LED (53 Watts)			<input type="checkbox"/> PT		
		Wattages are Max Input Watts					





## LED Upgrade Kit Installation Guide

Fixture: PROS™ - Providence Small



**WARNING:** Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

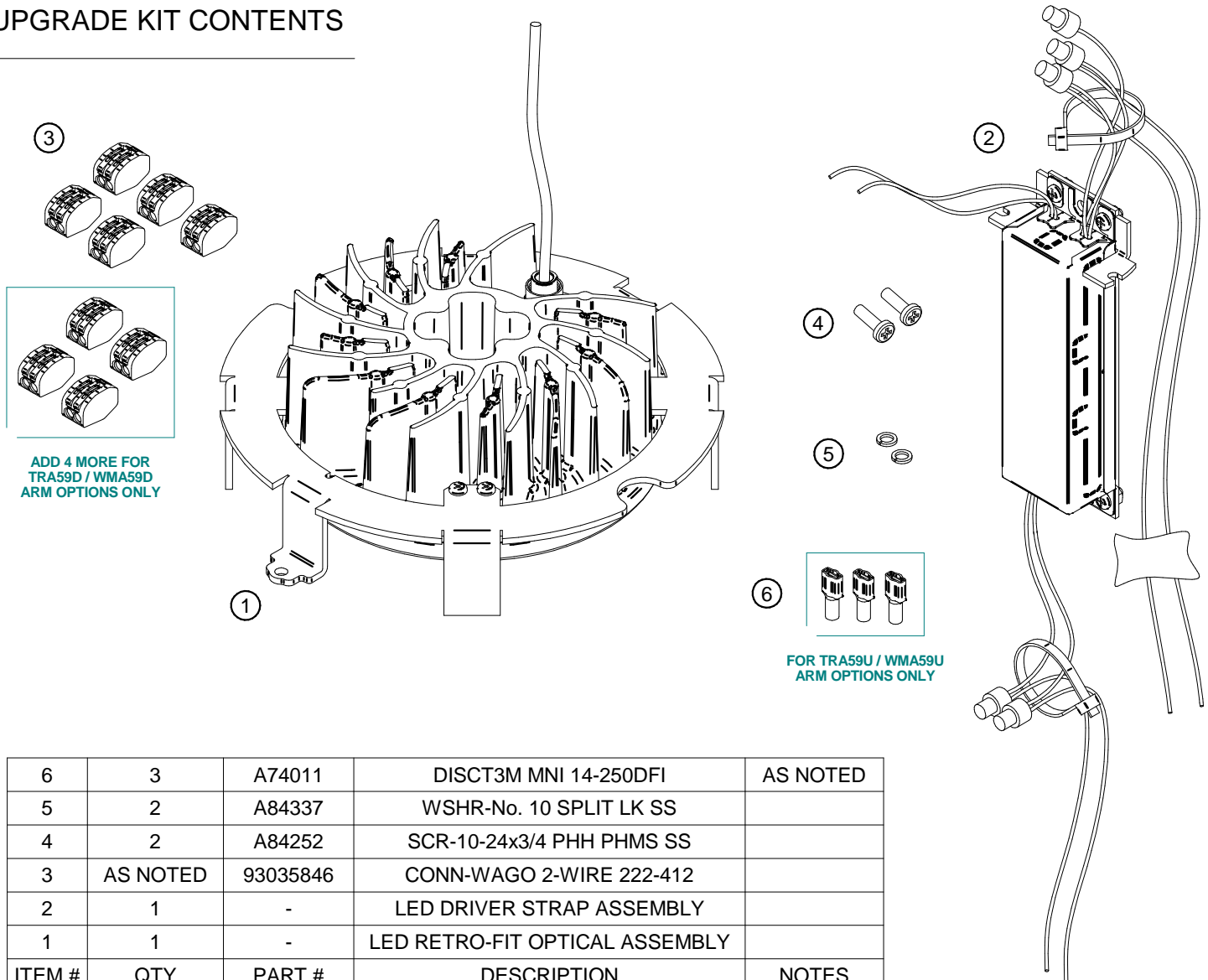
**MAINTENANCE:** A regularly scheduled maintenance program should be established to retain optimum light output and reduce heat retention. Dusting with a soft, clean, dry cloth is normally sufficient for the optics.

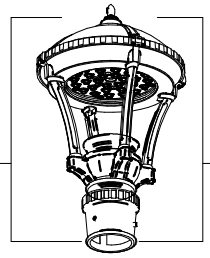
**CAUTION:** All wiring must be done by a qualified electrician. KEEP THIS SHEET FOR FUTURE REFERENCE.

Examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damage parts prior to installation of the retrofit.

Examinez toutes les parties qui ne sont pas destinées à être remplacé par le kit d'adaptation pour les dommages et remplacer les pièces endommagées avant l'installation du kit de renovation.

### UPGRADE KIT CONTENTS





## LED Upgrade Kit Installation Guide

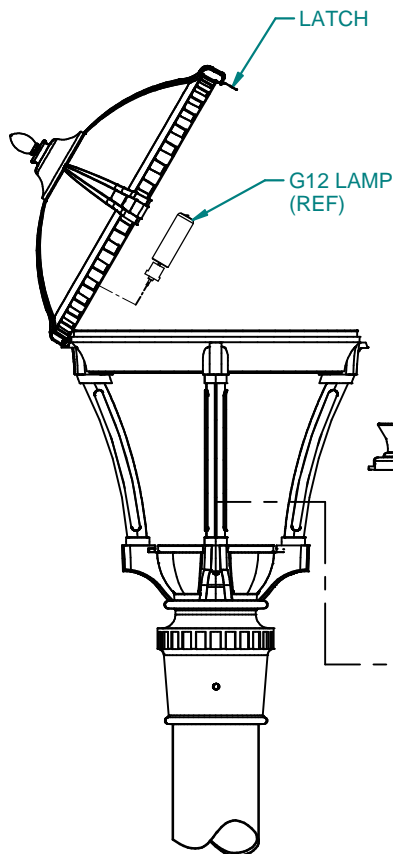
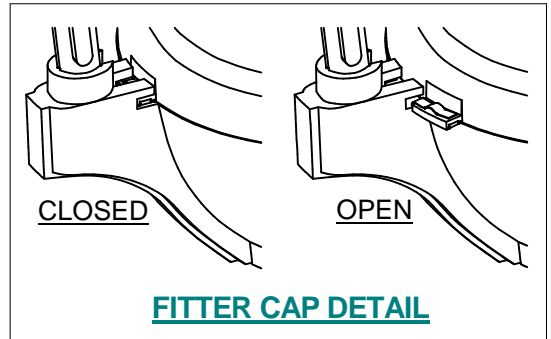
Fixture: PROS™ - Providence Small



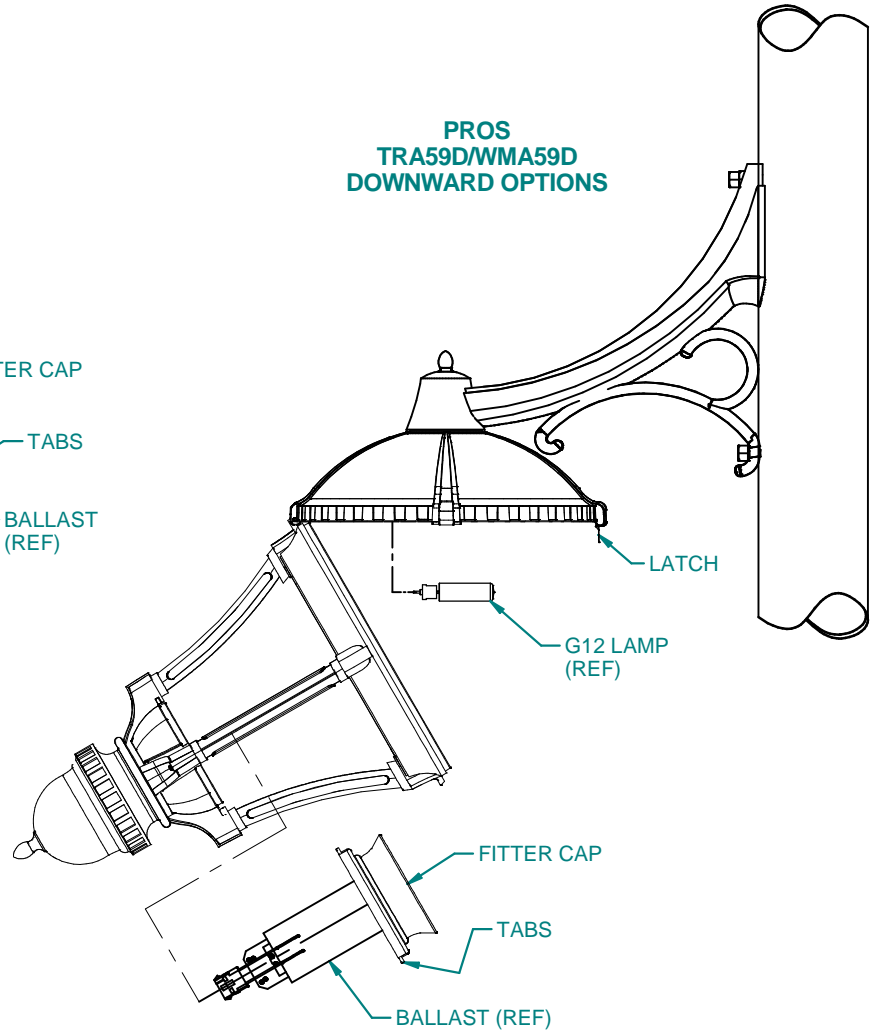
TURN OFF ALL POWER TO THE UNIT AND TAKE PROPER SAFETY PRECAUTIONS. FAILURE TO DO SO MAY RESULT IN SERIOUS PERSONAL INJURY.

### STEPS: TO DIS-ASSEMBLE EXISTING ASSEMBLY:

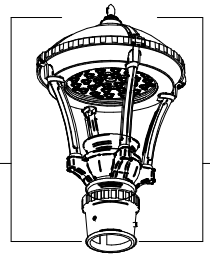
1. Pull latch (as shown on the illustration) unplug all connectors, remove guts and discard.
2. Rotate fitter cap counter clockwise, until free from fixture (See fitter cap detail) unplug all connectors, remove guts and discard.



**PROS  
POST TOP/TRA59U/WMA59U  
UPWARD OPTIONS**



**PROS  
TRA59D/WMA59D  
DOWNWARD OPTIONS**



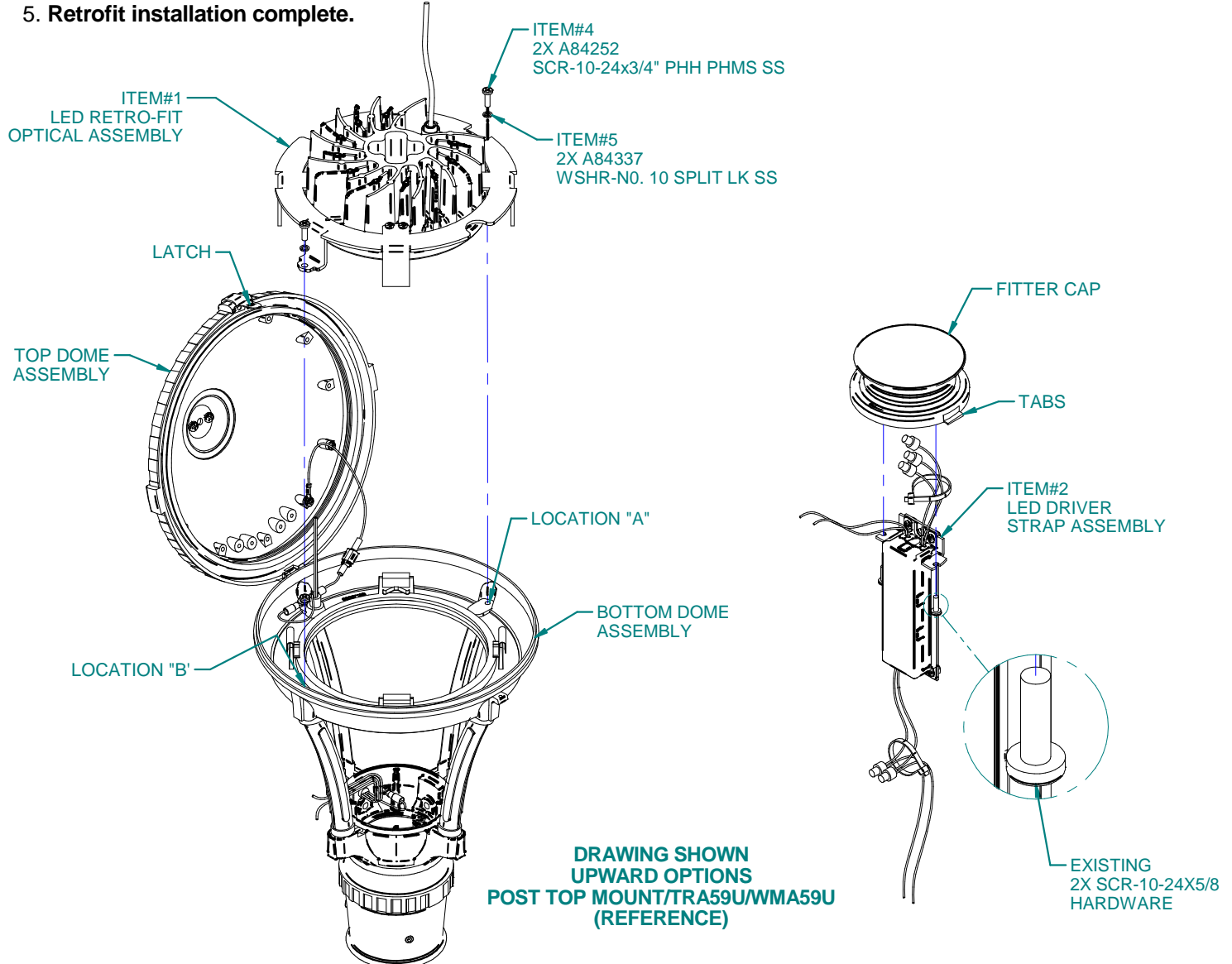
# LED Upgrade Kit Installation Guide

Fixture: PROS™ - Providence Small

## STEPS: TO RETROFIT LED

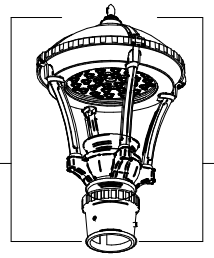
1. Remove existing screws on each side as shown in location "A" and "B", assemble LED retro-fit optical assembly with new produced two washers and two 10-24 x 3/4" screws provided by A.A.L. as shown on the illustrations below.
2. To assemble LED driver strap assembly, remove existing two 10-24 screws and assemble LED driver strap assembly to fitter cap with same hardware as shown in the illustration below.
3. For wiring diagrams:  
**POST TOP MOUNT / TRA59U ARM / WMA59U ARM (UPWARD OPTIONS)** see page 4.  
**TRA59D ARM / WMA59D ARM (DOWNWARD OPTIONS)** see page 5.
4. Close top dome by snapping latch securely to bottom dome assembly, Place LED driver assembly carefully inside fitter cap assembly rotate fitter cap clockwise until tabs snap securely into fitter.

## 5. Retrofit installation complete.

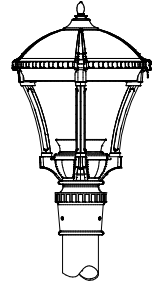
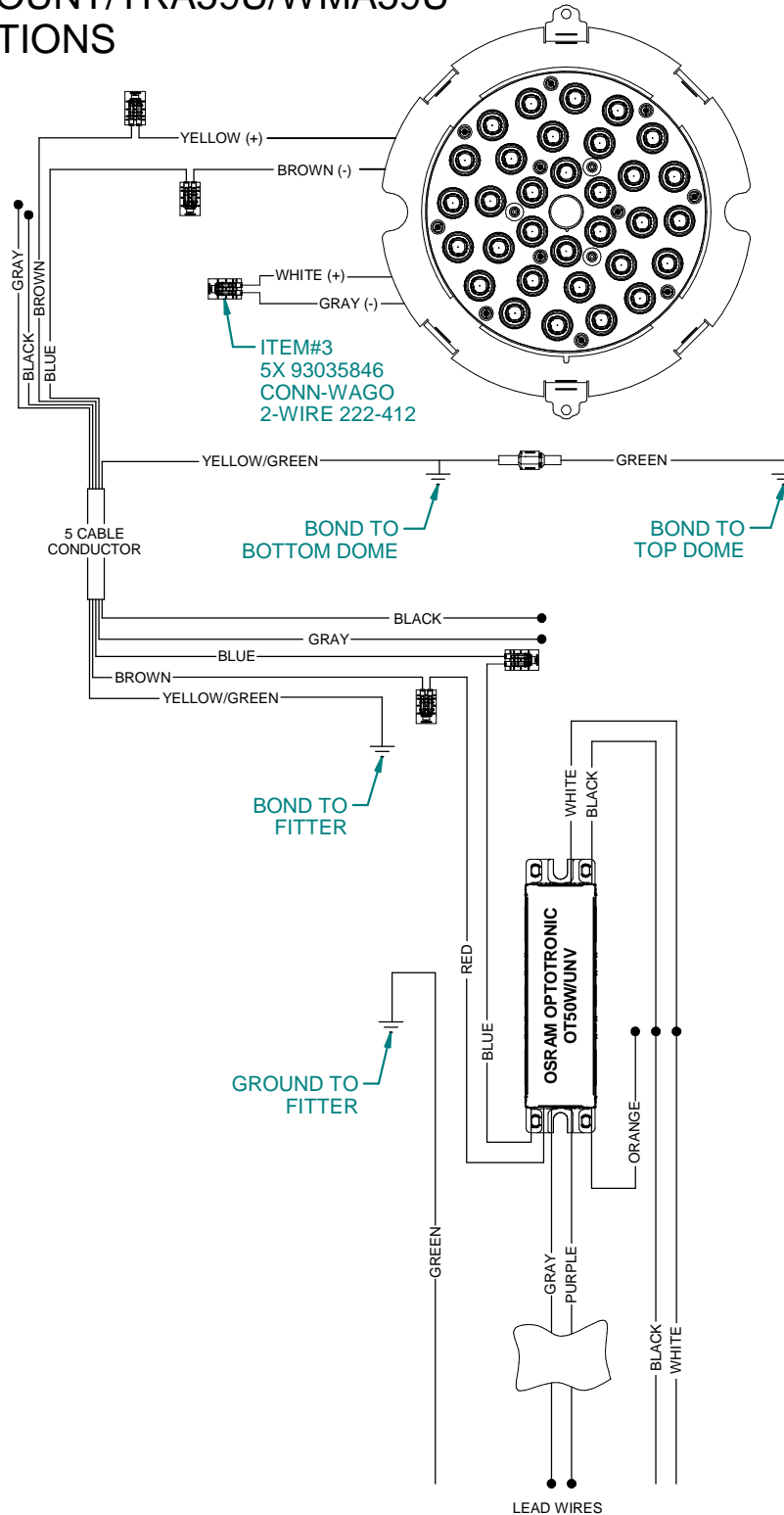


# LED Upgrade Kit Installation Guide

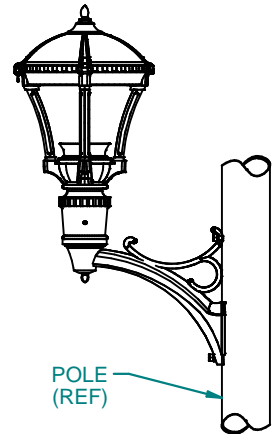
Fixture: PROS™ - Providence Small



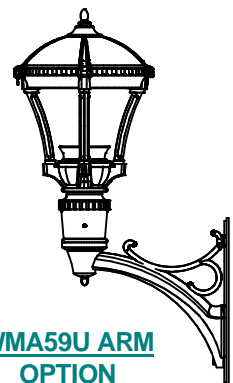
## WIRING DIAGRAM POST TOP MOUNT/TRA59U/WMA59U UPWARD OPTIONS



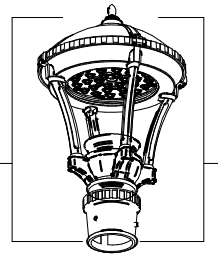
**POST TOP MOUNT  
OPTION**



**TRA59U ARM  
OPTION**



**WMA59U ARM  
OPTION**



## LED Upgrade Kit Installation Guide

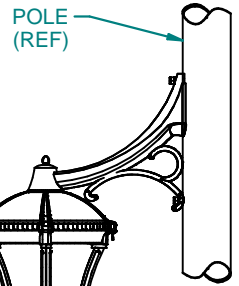
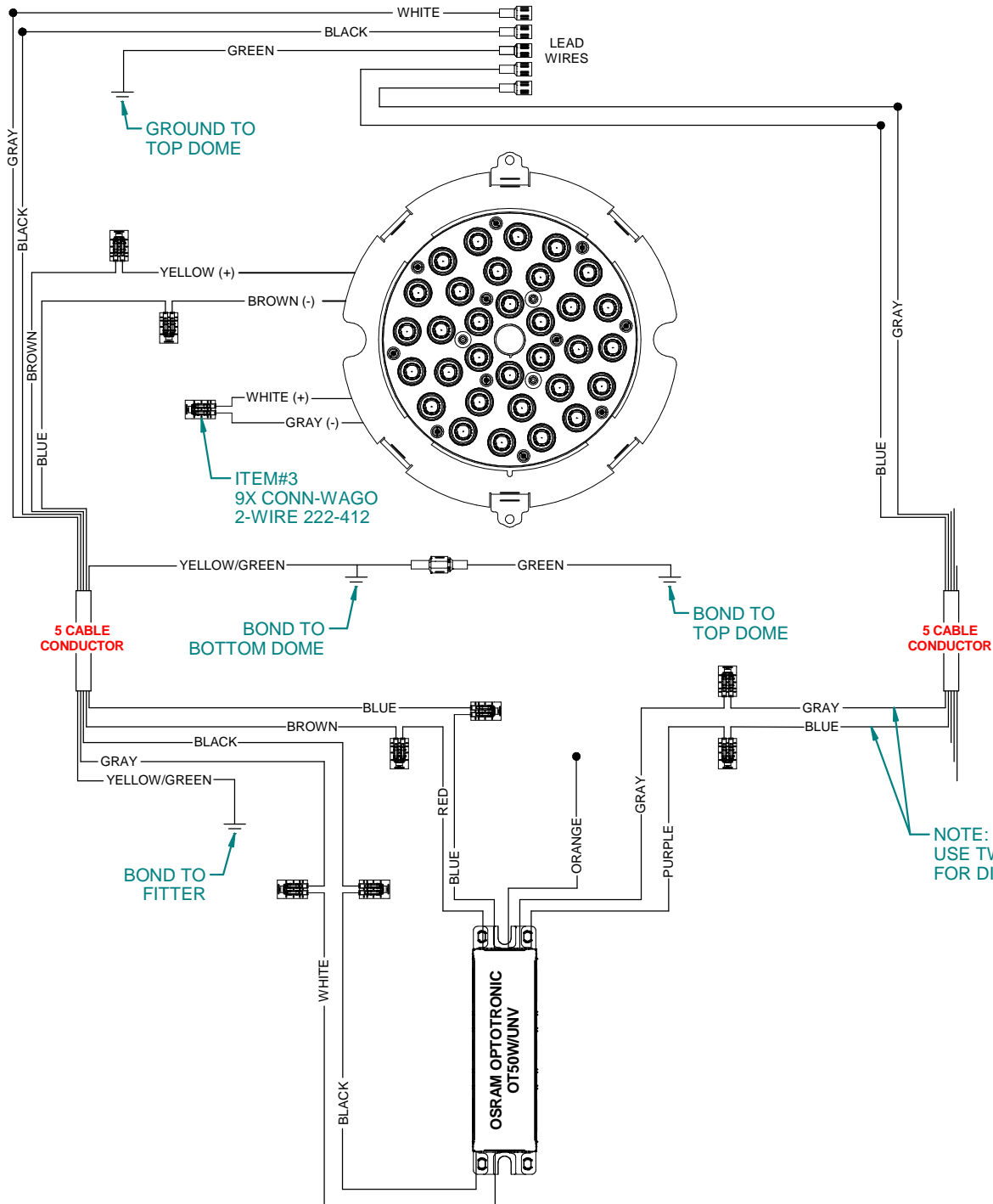
Fixture: PROS™ - Providence Small

### WIRING DIAGRAM

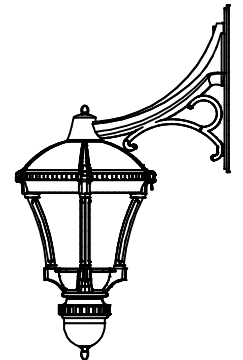
TRA59D ARM / WMA59D ARM

DOWNWARD OPTIONS

**(WITH TWO 5 CABLE CONDUCTOR)**



**TRA59D ARM  
OPTION**



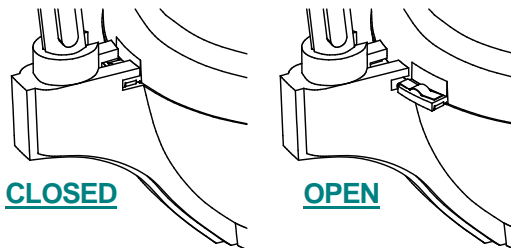
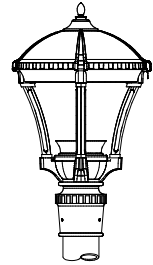
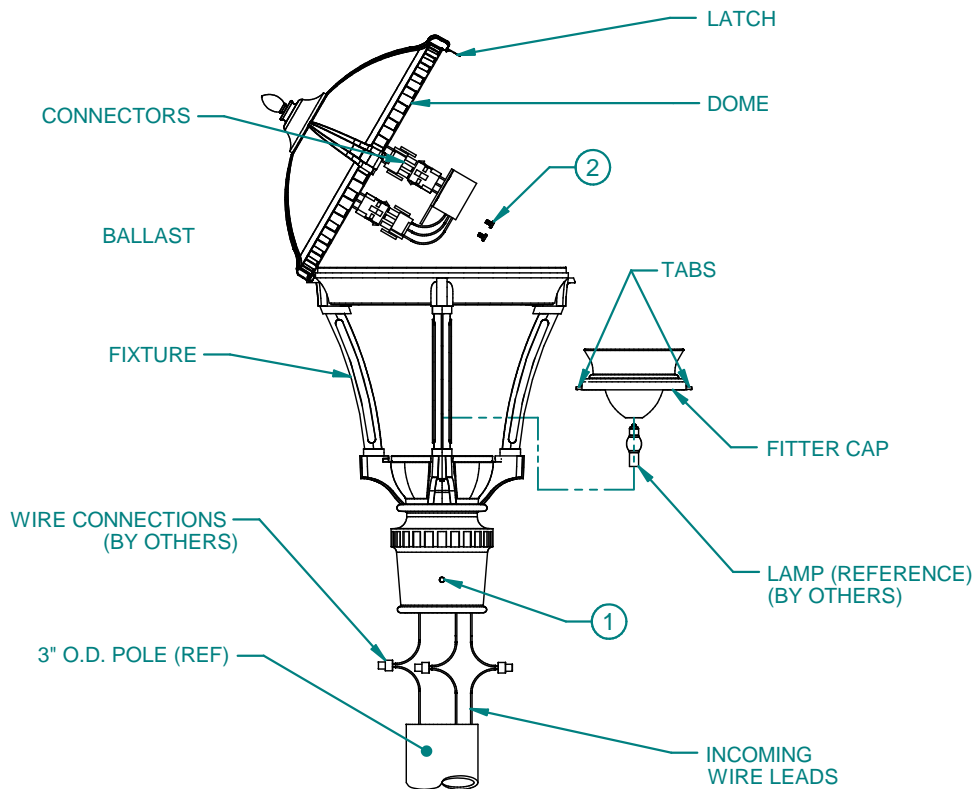
**WMA59D ARM  
OPTION**

# INSTALLATION INSTRUCTIONS

CATALOG NUMBER

PROS IND

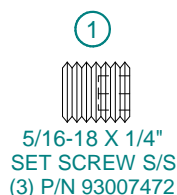
WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.



## FITTER CAP DETAIL

### INSTALLATION STEPS:

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. SLIP FIXTURE OVER POLE, AND SECURE FIXTURE TO POLE WITH (3) 5/16-18 x 1/4" SET SCREWS.
4. INSTALLATION COMPLETE.

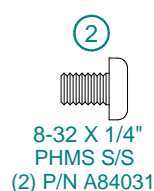


### BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND RAISE DOME TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST AND SECURE WITH (2) SCREWS. CLOSE DOME AND LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

### LAMP SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH REFLECTOR FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.

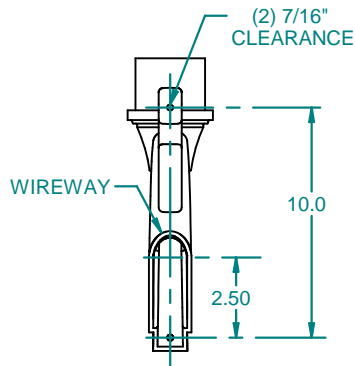




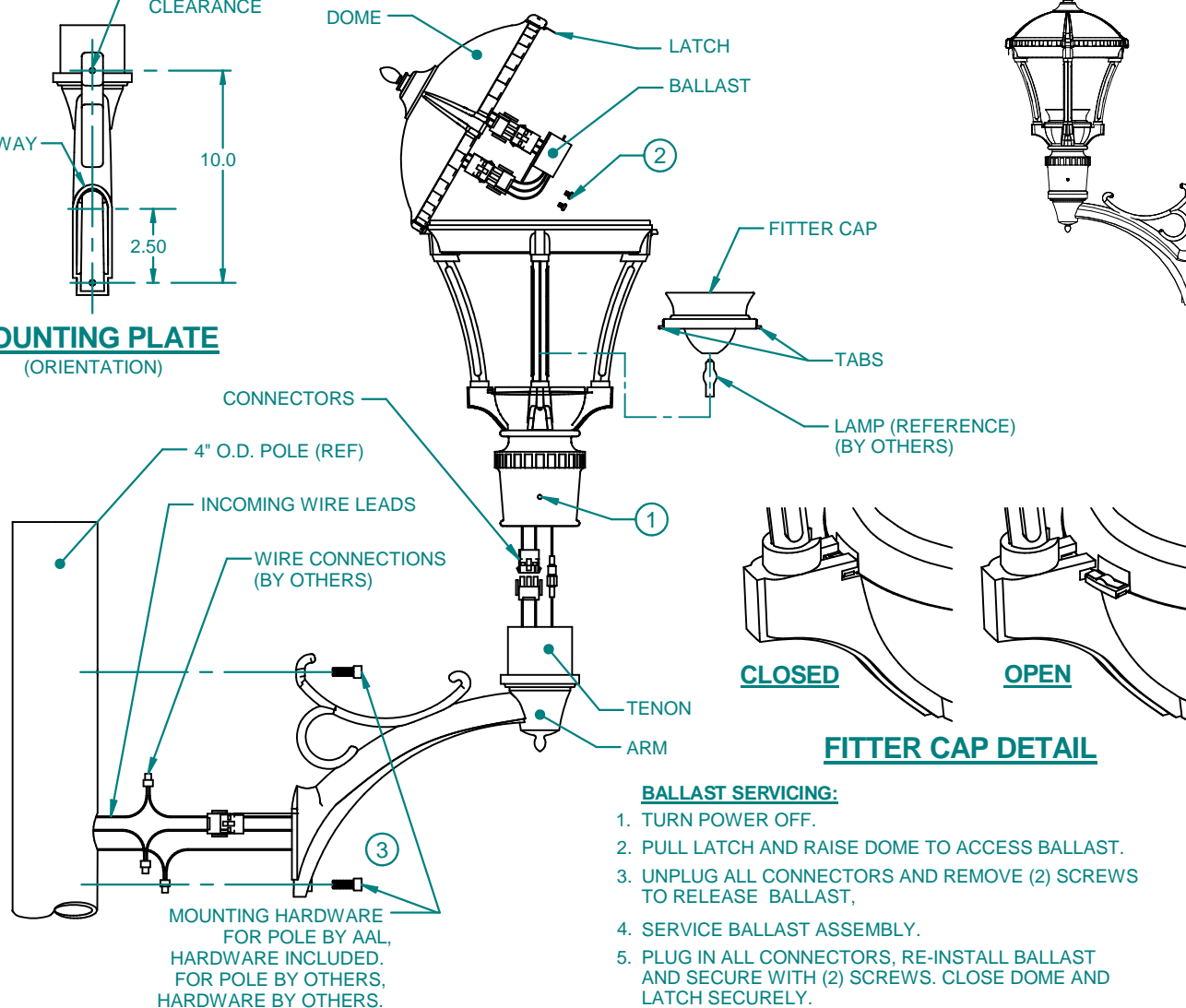
# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS IND  
TRA59U**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## **MOUNTING PLATE** (ORIENTATION)



MOUNTING HARDWARE  
FOR POLE BY AAL,  
HARDWARE INCLUDED.  
FOR POLE BY OTHERS,  
HARDWARE BY OTHERS.

### **INSTALLATION STEPS:**

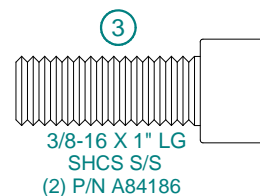
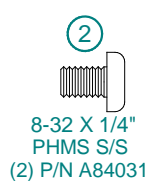
1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. PLACE WIRING IN POLE AND SECURE ARM TO POLE (HARDWARE AS NOTED).
4. SLIP FIXTURE OVER ARM, AND SECURE FIXTURE TO ARM WITH (3) 5/16-18 x 1/4" SET SCREWS.
5. INSTALLATION COMPLETE.

### **BALLAST SERVICING:**

1. TURN POWER OFF.
2. PULL LATCH AND RAISE DOME TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST ASSEMBLY.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST AND SECURE WITH (2) SCREWS. CLOSE DOME AND LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

### **LAMP SERVICING:**

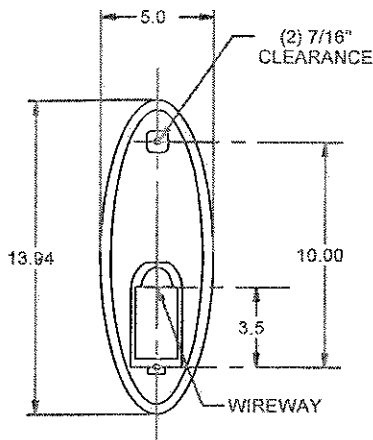
1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.



# INSTALLATION INSTRUCTIONS

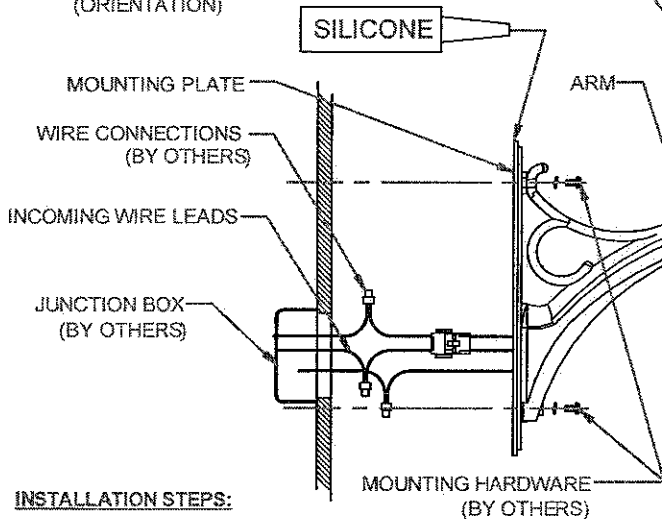
CATALOG NUMBER  
**PROS IND  
WMA59U**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



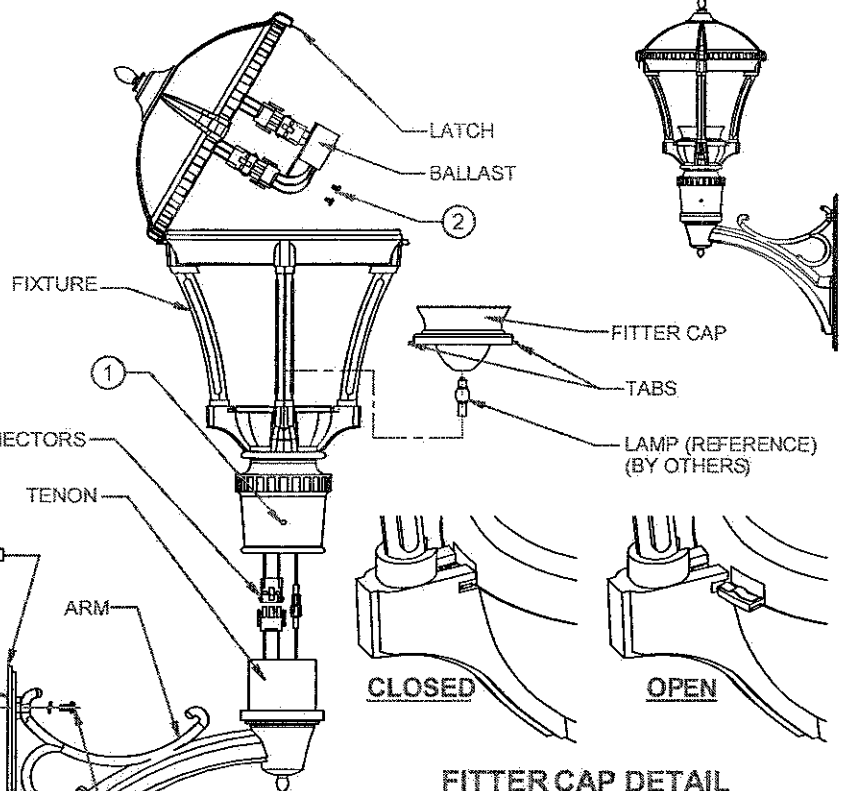
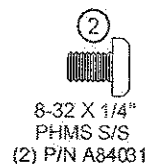
## MOUNTING PLATE

(ORIENTATION)



## INSTALLATION STEPS:

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. PLACE WIRING IN J-BOX AND SECURE ARM TO MOUNTING SURFACE. (NOT FOR JUNCTION BOX MOUNTING, HARDWARE BY OTHERS).
4. PLUG IN CONNECTORS FROM ARM TO FIXTURE. SLIP FIXTURE OVER TENON, AND SECURE FIXTURE TO TENON WITH (3) 5/16-18 x 1/4" SET SCREWS.
5. SILICONE AROUND MOUNTING PLATE AND MOUNTING SURFACE, AS SHOWN.
6. INSTALLATION COMPLETE.



## FITTER CAP DETAIL

### BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND RAISE DOME TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST ASSEMBLY AND SECURE WITH (2) SCREWS. CLOSE DOME AND LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

### LAMP SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH REFLECTOR ASSEMBLY FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP ASSEMBLY INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.

architectural  
lighting

16555 East Gale Avenue  
City of Industry, CA 91716-0080  
(626)968-5666 Fax(626)330-3861

HUBBELL  
Hubbell Lighting, Inc.

DATE  
12-8-09  
DATE  
12-08-09

APPRVD  
REV.  
A

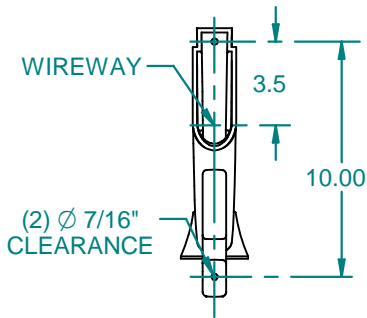
PART NO.

A96484

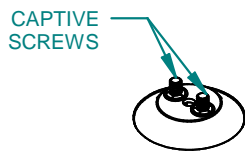
# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS DIR  
TRA59D**

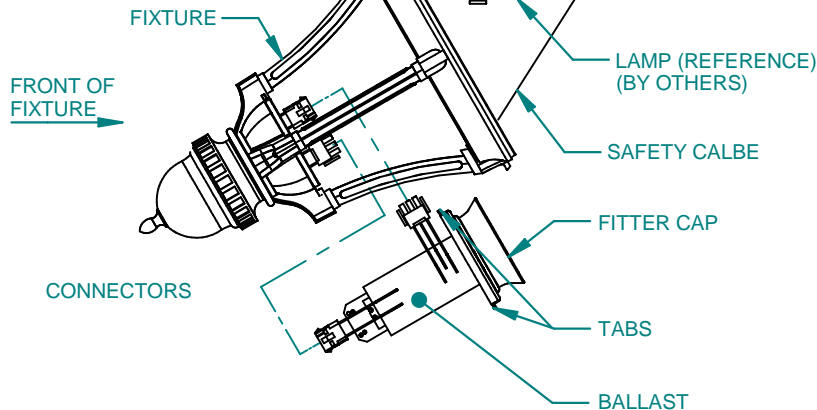
**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



**MOUNTING PATTERN**  
(ORIENTATION)

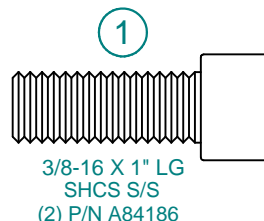


**DOME DETAIL**

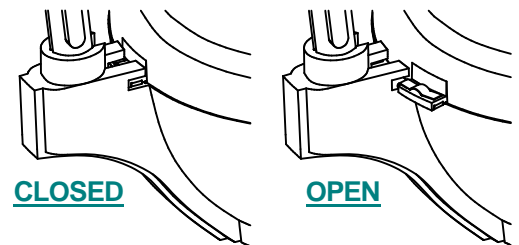
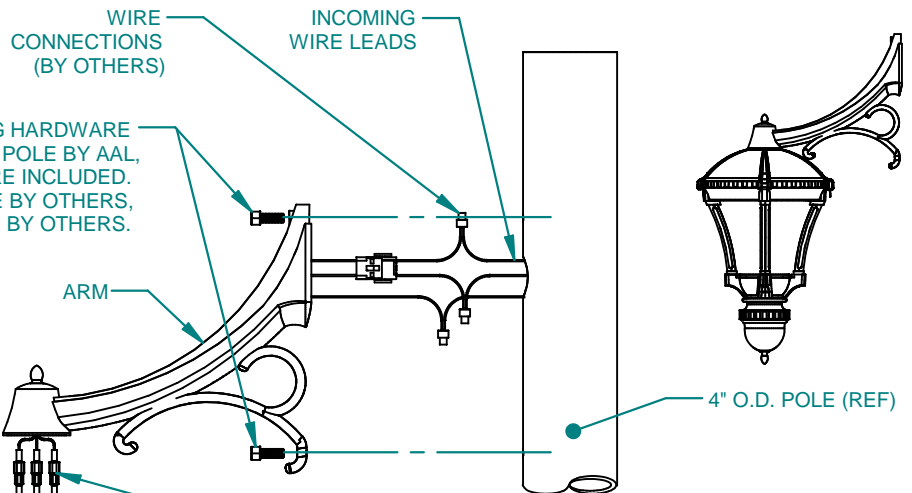


## INSTALLATION STEPS:

1. TURN OFF POWER.
2. PLUG IN CONNECTORS FROM ARM TO FIXTURE.
3. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST; ASSEMBLE FIXTURE TO ARM WITH (2) CAPTIVE SCREWS (AS SHOWN), CLOSE BALLAST COMPARTMENT.
4. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
5. PLACE WIRING IN POLE AND SECURE FIXTURE TO POLE (HARDWARE AS NOTED).
6. INSTALLATION COMPLETE.



3/8-16 X 1" LG  
SHCS S/S  
(2) P/N A84186



**FITTER CAP DETAIL**

## LAMP SERVICING:

1. TURN OFF POWER.
2. PULL LATCH AND LOWER FIXTURE, AS SHOWN.
3. INSTALL LAMP (BY OTHERS). AND CLOSE FIXTURE AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

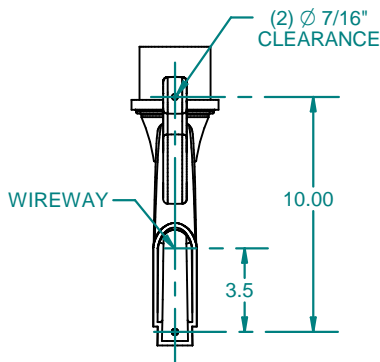
## BALLAST SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.

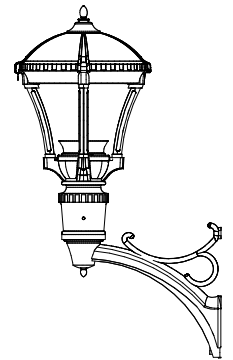
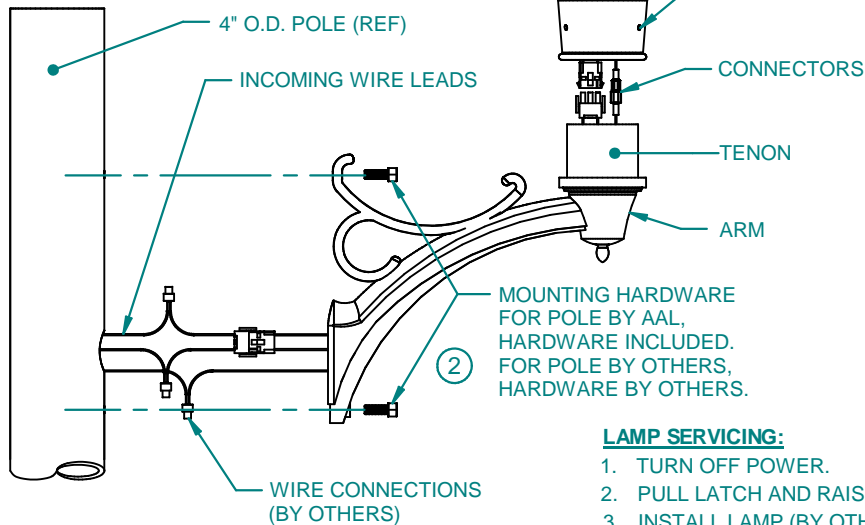
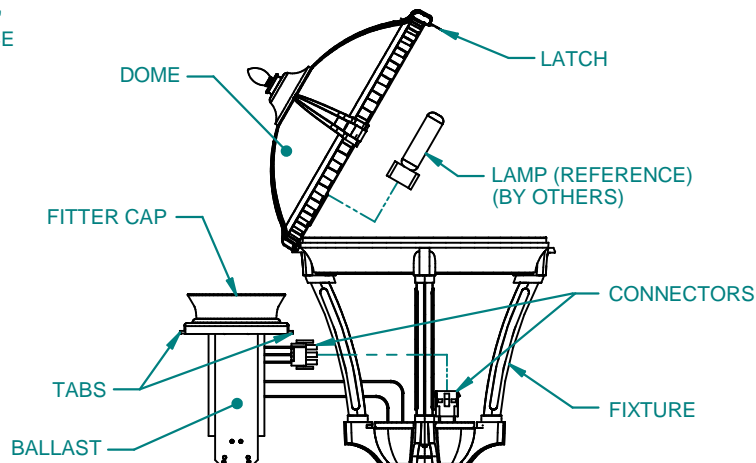
# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS DIR  
TRA59U**

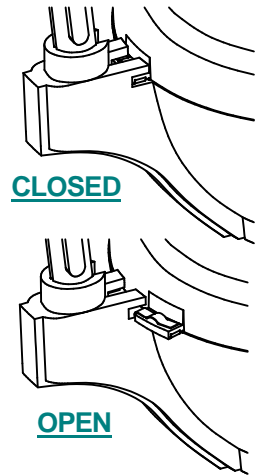
**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## **MOUNTING HOLES** (ORIENTATION)



## **CLOSED**



## **OPEN**

## **FITTER CAP DETAIL**

### **INSTALLATION STEPS:**

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. PLACE WIRING IN POLE AND SECURE ARM TO POLE (HARDWARE AS NOTED).
4. PLUG IN CONNECTORS FROM ARM TO FIXTURE AND SLIP FIXTURE OVER TENON, AND SECURE FIXTURE TO TENON WITH (3) 5/16-18 x 1/4" SET SCREWS.
5. INSTALLATION COMPLETE.

### **LAMP SERVICING:**

1. TURN OFF POWER.
2. PULL LATCH AND RAISE DOME AS SHOWN.
3. INSTALL LAMP (BY OTHERS). AND CLOSE DOME AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

### **BALLAST SERVICING:**

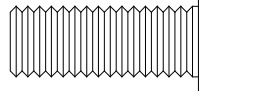
1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.

①



5/16-18 X 1/4"  
SET SCREW S/S  
(3) P/N 93007472

②

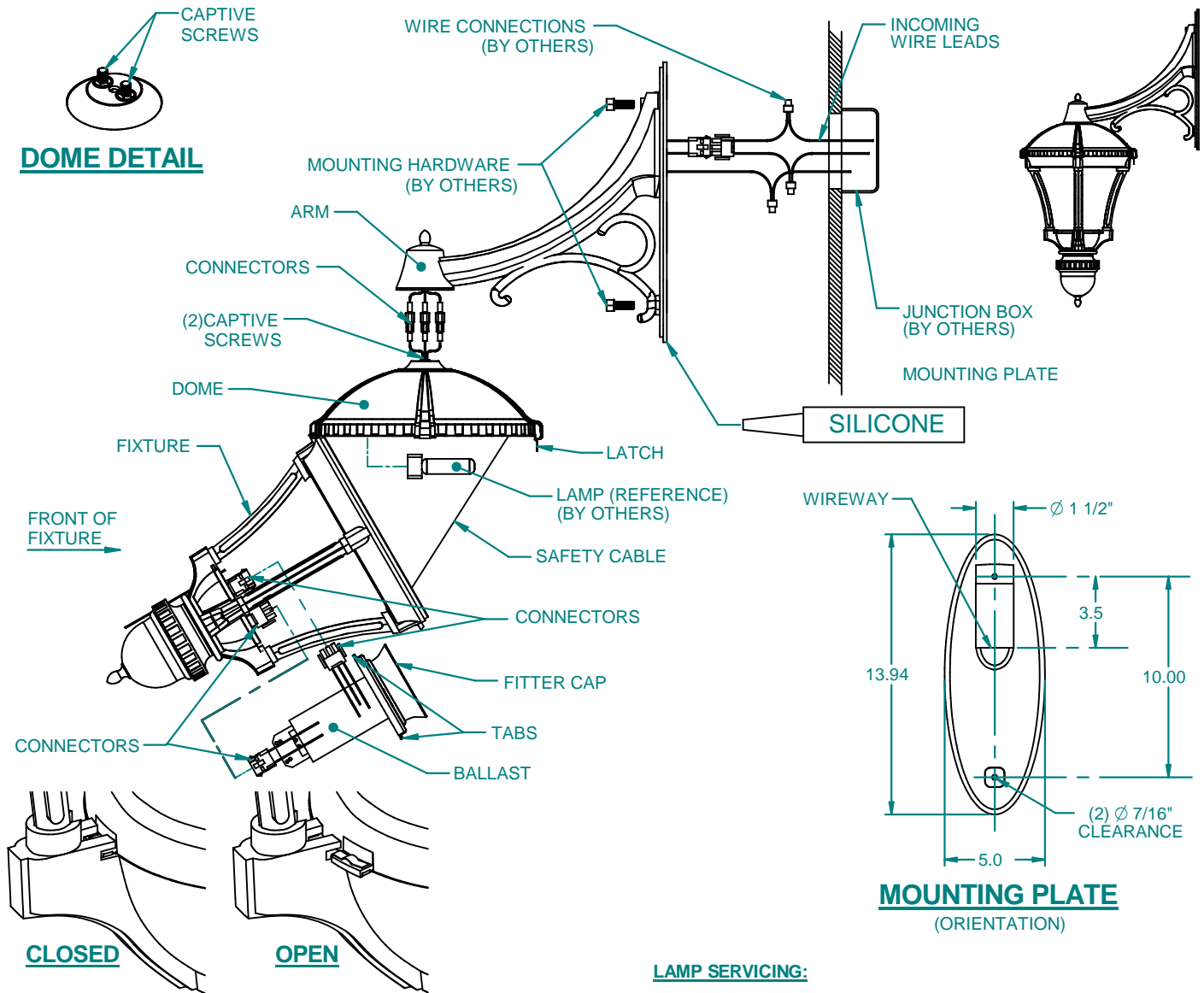


3/8-16 X 1" LG  
SHCS S/S  
(2) P/N A84186

# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS DIR  
WMA59D**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## FITTER CAP DETAIL

### INSTALLATION STEPS:

1. TURN OFF POWER.
2. PLUG IN CONNECTORS FROM FIXTURE TO ARM.
3. PULL LATCH AND RAISE DOME AS SHOWN; ASSEMBLE FIXTURE TO ARM WITH (2) CAPTIVE SCREWS (AS SHOWN), INSTALL LAMP. CLOSE LAMP COMPARTMENT.
4. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
5. PLACE WIRING IN J-BOX AND MOUNT FIXTURE TO WALL. (NOT FOR JUNCTION BOX MOUNTING, HARDWARE BY OTHERS).
6. SILICONE AROUND MOUNTING PLATE AND MOUNTING SURFACE AS SHOWN.
7. INSTALLATION COMPLETE.

### LAMP SERVICING:

1. TURN OFF POWER.
2. PULL LATCH AND LOWER FIXTURE, AS SHOWN.
3. INSTALL LAMP (BY OTHERS). CLOSE FIXTURE AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

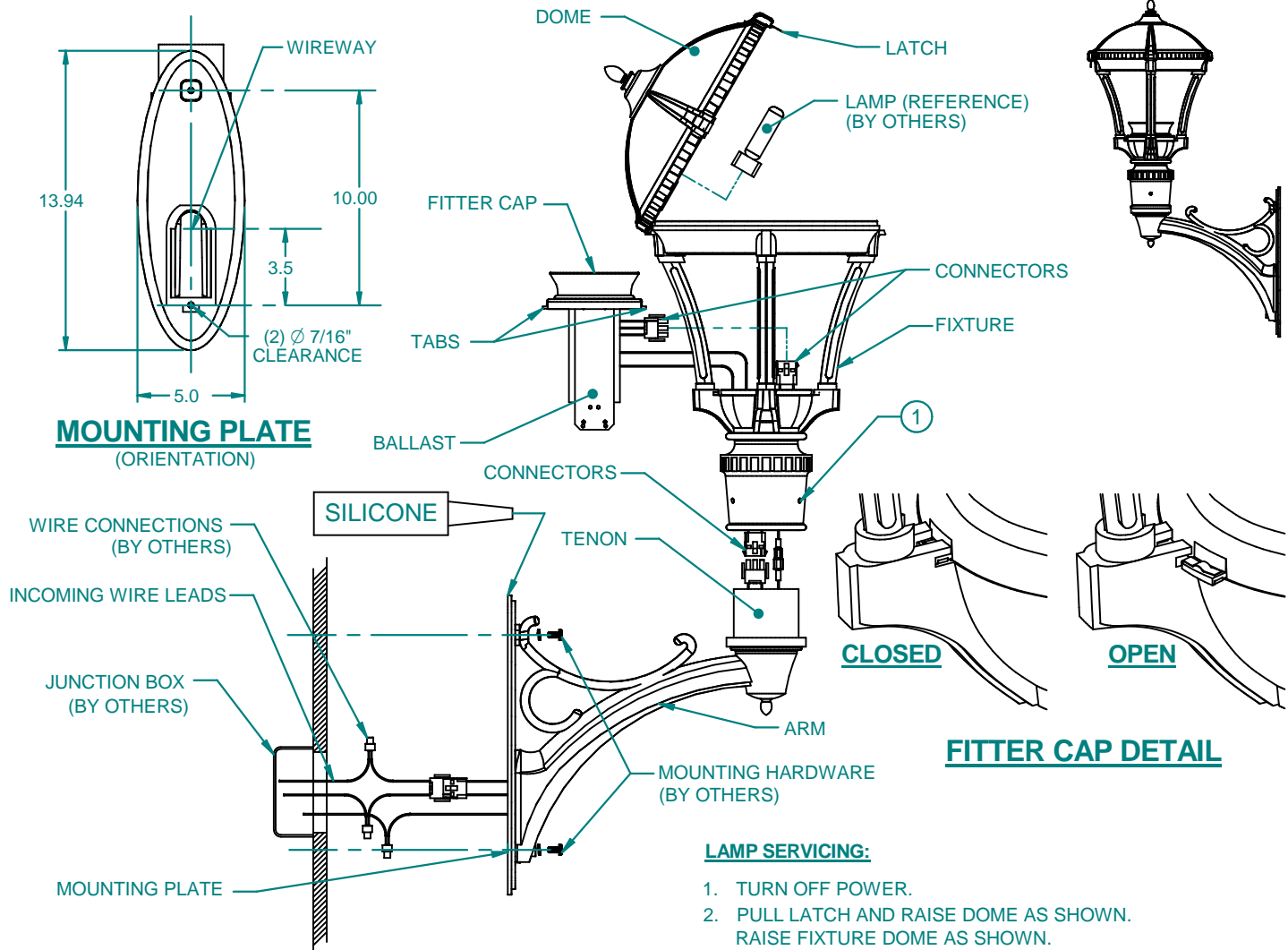
### BALLAST SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.

# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS DIR  
WMA59U**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## INSTALLATION STEPS:

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUND TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. PLACE WIRING IN J-BOX AND MOUNT FIXTURE TO MOUNTING SURFACE. (NOT FOR JUNCTION BOX MOUNTING, HARDWARE BY OTHERS).
4. PLUG IN CONNECTORS FROM ARM TO FIXTURE. SLIP FIXTURE OVER TENON, AND SECURE FIXTURE TO TENON WITH (3) 5/16-18 x 1/4" SET SCREWS.
5. SILICONE AROUND MOUNTING PLATE AND MOUNTING SURFACE, AS SHOWN.
6. INSTALLATION COMPLETE.

## LAMP SERVICING:

1. TURN OFF POWER.
2. PULL LATCH AND RAISE DOME AS SHOWN. RAISE FIXTURE DOME AS SHOWN.
3. INSTALL LAMP (BY OTHERS). AND CLOSE DOME AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.

## BALLAST SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.



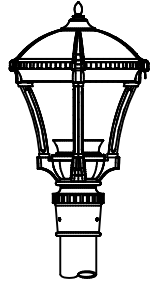
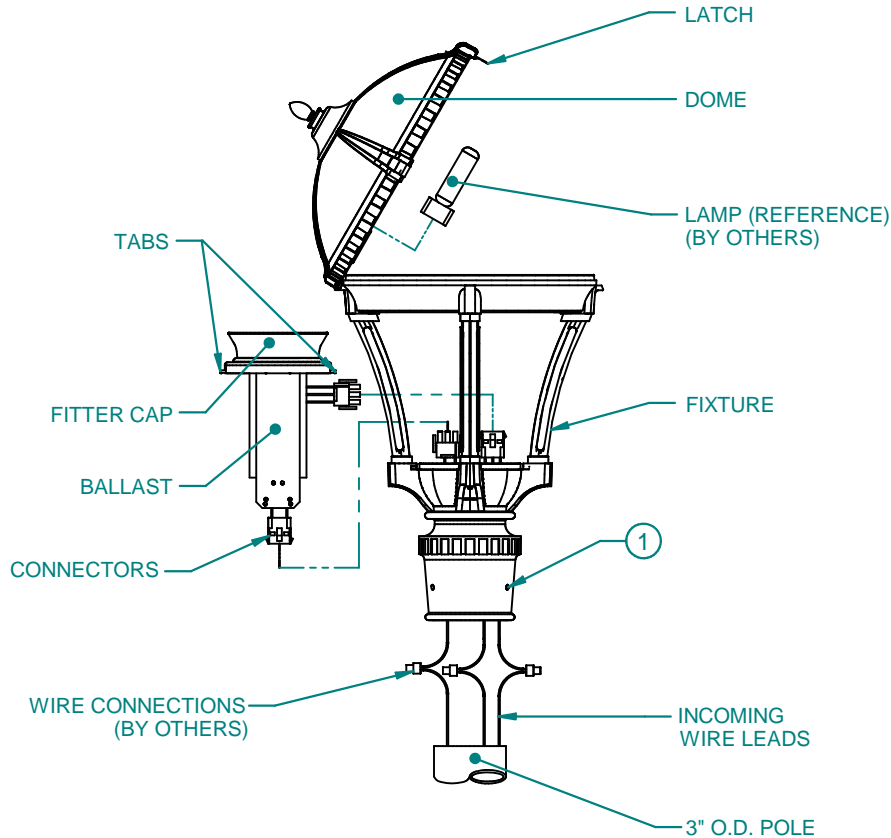


# INSTALLATION INSTRUCTIONS

CATALOG NUMBER

PROS DIR

WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.

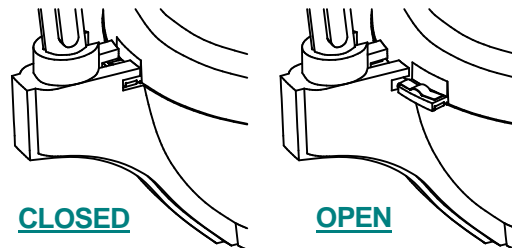


## INSTALLATION STEPS:

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO FIXTURE. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. SLIP FIXTURE OVER POLE, AND SECURE FIXTURE TO POLE WITH (3) 5/16-18 x 1/4" SET SCREWS.
4. INSTALLATION COMPLETE.

## BALLAST SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP WITH BALLAST FROM FITTER AND UNPLUG ALL CONNECTORS.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS AND CAREFULLY PLACE BALLAST INTO FITTER.
6. ROTATE FITTER CAP CLOCKWISE, UNTIL TABS SNAP SECURELY INTO FITTER.
7. BALLAST SERVICING COMPLETE.



## FITTER CAP DETAIL

## LAMP SERVICING:

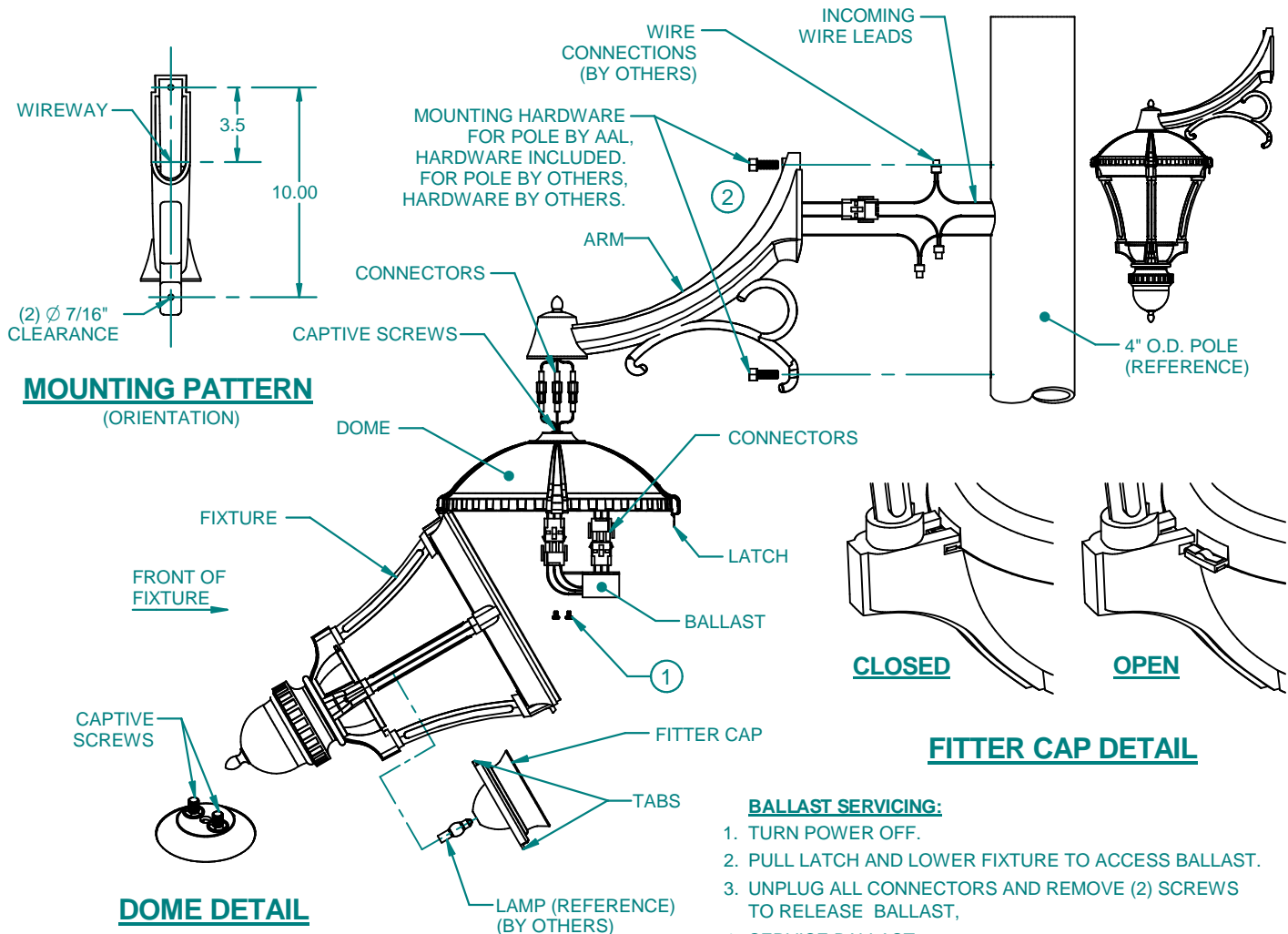
1. TURN OFF POWER.
2. PULL LATCH AND RAISE DOME AS SHOWN.
3. INSTALL LAMP (BY OTHERS). AND CLOSE DOME AND LATCH SECURELY.
4. LAMP SERVICING COMPLETE.



# INSTALLATION INSTRUCTIONS

CATALOG NUMBER  
**PROS IND  
TRA59D**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## MOUNTING PATTERN (ORIENTATION)

## DOMES DETAIL

## FITTER CAP DETAIL

### INSTALLATION STEPS:

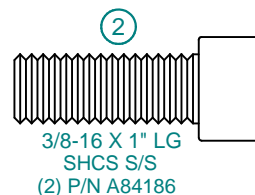
1. TURN OFF POWER.
2. PLUG IN CONNECTORS FROM ARM TO FIXTURE.
3. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST; ASSEMBLE FIXTURE TO ARM WITH (2) CAPTIVE SCREWS (AS SHOWN), CLOSE BALLAST COMPARTMENT.
4. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
5. PLACE WIRING IN POLE AND SECURE FIXTURE TO POLE (HARDWARE AS NOTED).
6. INSTALLATION COMPLETE.

### BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST AND SECURE WITH (2) SCREWS. CLOSE FIXTURE LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

### LAMP SERVICING:

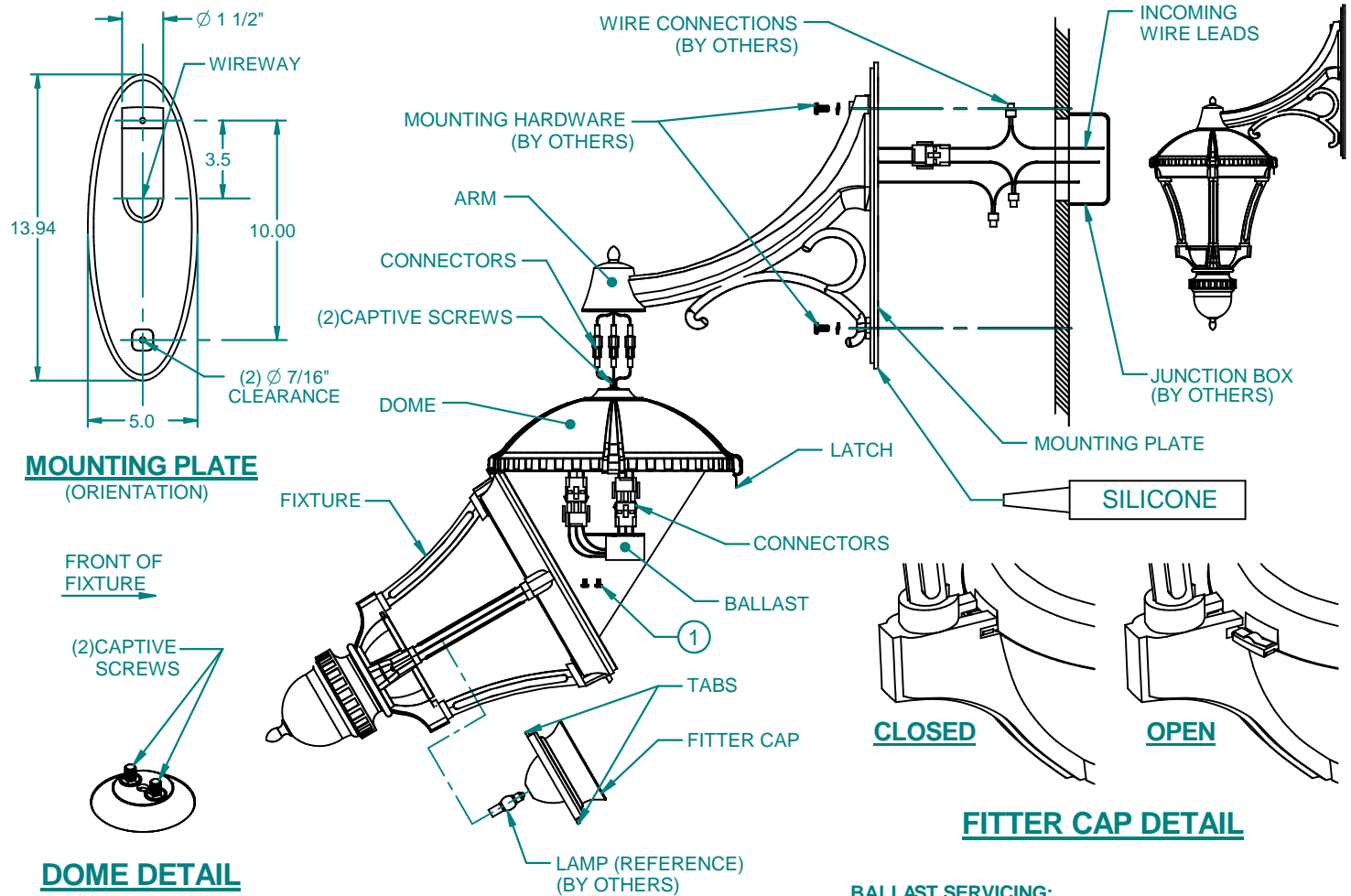
1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP ASSEMBLY INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.



# INSTALLATION INSTRUCTIONS

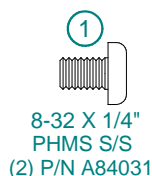
CATALOG NUMBER  
**PROS IND  
TRA59D**

**WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM. THOROUGHLY WASH HANDS AFTER INSTALLING, HANDLING, CLEANING OR OTHERWISE TOUCHING THIS PRODUCT.**



## INSTALLATION STEPS:

1. TURN OFF POWER.
2. PLUG IN CONNECTORS FROM ARM TO FIXTURE.
3. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST; ASSEMBLE FIXTURE TO ARM WITH (2) CAPTIVE SCREWS (AS SHOWN), CLOSE LAMP COMPARTMENT.
4. MAKE WIRE CONNECTIONS FROM INCOMING WIRE LEADS TO ARM LEADS, AS SHOWN. (WHITE TO COMMON, BLACK TO HOT AND GREEN TO GROUND). NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
5. PLACE WIRING IN J-BOX AND MOUNT FIXTURE TO MOUNTING SURFACE. (NOT FOR JUNCTION BOX MOUNTING, HARDWARE BY OTHERS).
6. SILICONE AROUND MOUNTING PLATE AND MOUNTING SURFACE, AS SHOWN.
7. INSTALLATION COMPLETE.



## BALLAST SERVICING:

1. TURN POWER OFF.
2. PULL LATCH AND LOWER FIXTURE TO ACCESS BALLAST.
3. UNPLUG ALL CONNECTORS AND REMOVE (2) SCREWS TO RELEASE BALLAST.
4. SERVICE BALLAST.
5. PLUG IN ALL CONNECTORS, RE-INSTALL BALLAST AND SECURE WITH (2) SCREWS. CLOSE FIXTURE AND LATCH SECURELY.
6. BALLAST SERVICING COMPLETE.

## LAMP SERVICING:

1. TURN POWER OFF.
2. ROTATE FITTER CAP COUNTER CLOCKWISE, UNTIL FREE FROM FIXTURE. (SEE FITTER CAP DETAIL)
3. LIFT FITTER CAP FROM FITTER.
4. INSTALL LAMP (BY OTHERS).
5. CAREFULLY PLACE FITTER CAP INTO FITTER, ROTATE FITTER CAP CLOCKWISE UNTIL TABS SNAP SECURELY INTO FITTER.
6. LAMP SERVICING COMPLETE.