



HYDREL SAF28 Specification Architectural Flood Installation Guide

[Home](#) » [HYDREL](#) » HYDREL SAF28 Specification Architectural Flood Installation Guide 

Contents

- [1 HYDREL SAF28 Specification Architectural Flood](#)
- [2 Instruction](#)
- [3 INTRODUCTION](#)
 - [3.1 Product Description](#)
 - [3.2 Technical Information Sources](#)
- [4 INSTALLATION](#)
 - [4.1 Ground Mounting](#)
 - [4.2 Wall Mounting – CWMA-T Option](#)
 - [4.3 Pole Mounting – PAR/PAS & PATR/PATS](#)
 - [4.4 Electrical Connections](#)
- [5 MAINTENANCE](#)
 - [5.1 Cleaning of Luminaire](#)
 - [5.2 Electrical Component Replacement](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)



HYDREL SAF28 Specification Architectural Flood



Instruction

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of luminaires should be performed by a qualified licensed electrician.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
- DO NOT INSTALL DAMAGED PRODUCT! This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Recycle: For information on how to recycle LED electronic products, please visit www.epa.gov.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to Acuity Brands Lighting, Inc.

WARNING RISK OF ELECTRIC

- Disconnect or turn off power before installation or servicing.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- All wiring connections should be capped with UL approved recognized wire connectors.

WARNING RISK OF BURN

- Disconnect or turn off power before installation or servicing.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- All wiring connections should be capped with UL approved recognized wire connectors.

CAUTION

- Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- Avoid direct eye exposure to the light source while it is on.
- Keep combustible and other materials that can burn, away from lamp/lens.
- Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.

CAUTION: RISK OF PRODUCT

- Never connect components under load.
- Do not mount or support these fixtures in a manner that can cut the outer jacket or damage wire insulation.
- Unless individual product specifications deem otherwise: Never connect an LED product directly to a dimmer packs, occupancy sensors, timing devices, or other related control devices. LED fixtures must be powered directly off a switched circuit.
- Unless individual product specifications deem otherwise: Do not restrict fixture ventilation. Allow for some volume of airspace around fixture. Avoid covering LED fixtures with insulation, foam, or other material that will prevent convection or conduction cooling.
- Unless individual product specifications deem otherwise: Do not exceed fixtures maximum ambient temperature.
- Only use fixture in its intended location.
- LED products are Polarity Sensitive. Ensure proper Polarity before installation.
- Electrostatic Discharge (ESD): ESD can damage LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
- Do not touch individual electrical components as this can cause ESD, shorten lamp life, or alter performance.
- Some components inside the fixture may not be serviceable. In the unlikely event your unit may require service, stop using the unit immediately and contact an ABL representative for assistance.
- Always read the fixtures complete installation instructions prior to installation for any additional fixture specific warnings.

Please see product specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.

Failure to follow any of these instructions could void product warranties. For a complete listing of product Terms and Conditions, please visit www.acuitybrands.com.

Indoor/Outdoor

Indoor Lighting

Outdoor Lighting

Controls

Lithonia Lighting

Gotham

American Electric Lighting

Dark to Light

Carandini

Mark Architectural Lighting

Antique Street Lamps

Lighting Control & Design

Holophane

Peerless

Hydrel

ROAM

RELOC

Renaissance Lighting

Tersen

Sensor Switch

Winona Lighting

Synergy

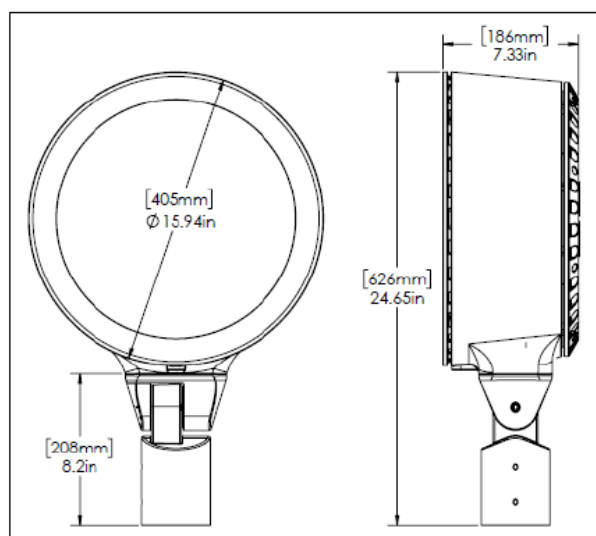
Acuity Brands Lighting, Inc. assumes no responsibility for claims arising out of improper or careless installation or handling of its products.

ABL LED General Warnings, Form No. 503.203

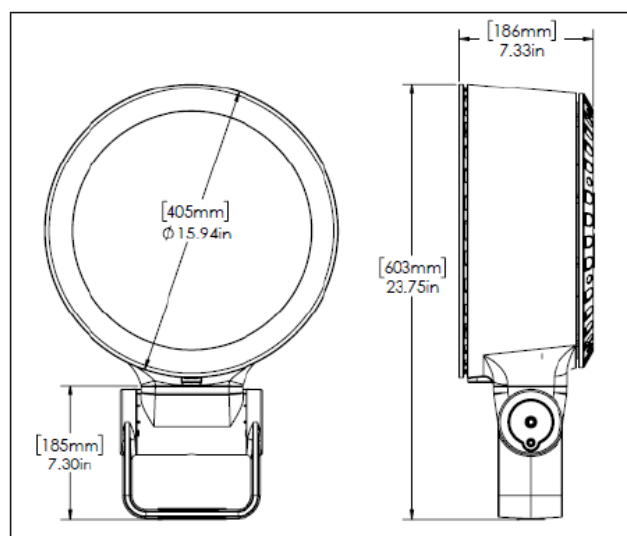
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INTRODUCTION

Specification Architectural Flood Model SAF28



Model SAF 28LED – Knuckle Mount



Model SAF 28LED – Yoke Mount

Product Description

LED Accent Luminaire listed to applicable U.S. & Canadian safety standards by the Canadian Standards

Association (CSA). This luminaire is suitable for ground, wall & pole mounting, as well as for wet location installations. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. Device may not cause harmful interference, and
2. Device must accept any interference received, including interference that may cause undesired operation.

Technical Information Sources

If additional questions arise relative to this luminaire that this document or your supplier cannot answer, please refer them to:

Architectural Technical Support – Hydrel (888) 834-5684, Press #5 for Hydrel

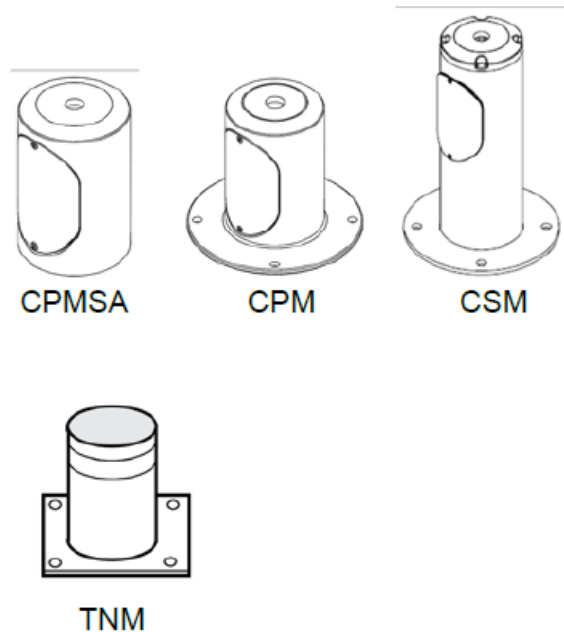
INSTALLATION

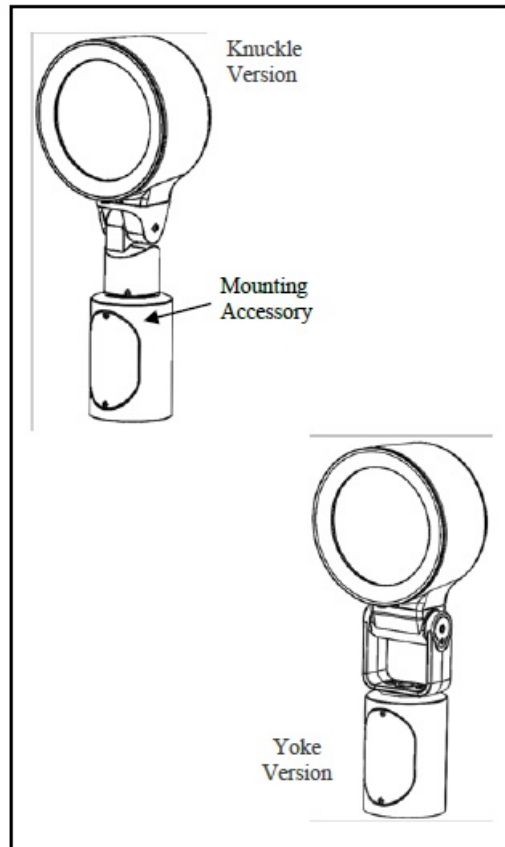
This Luminaire (Fixture) may be mounted directly onto a UL approved junction box, or optional ground mounts, wall mounts, or pole mounts.

Warning: Turn Off supply power prior to making any electrical connections.

Ground Mounting

1. Install mounting accessory of choice in desired location using appropriate fasteners (by others). Ground mounting options shown below (sold separately).



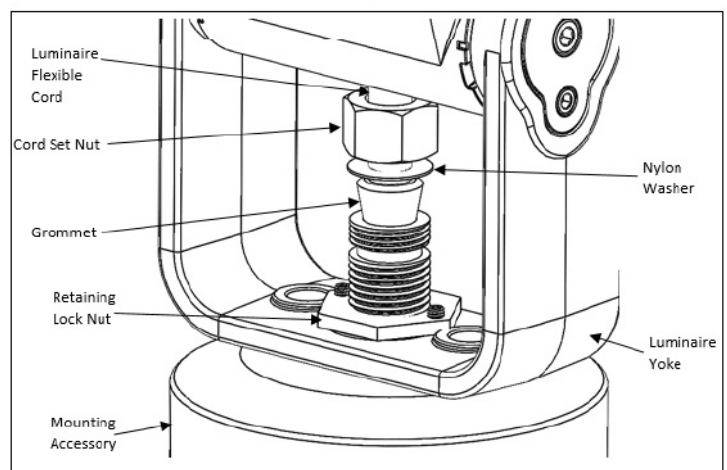
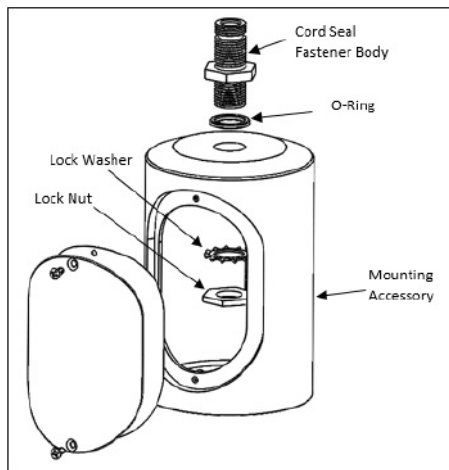
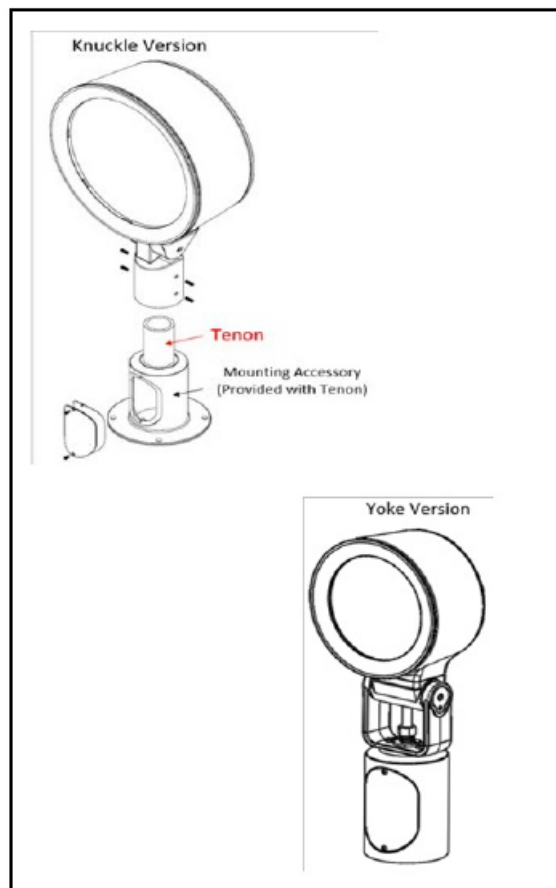


2. Attach the Luminaire to mounting accessory:

Knuckle Version: Open mounting accessory's splice compartment & position the luminaire on the mounting accessory (Tenon mount required for Knuckle Versions). Secure the luminaire to the mounting accessory, tenon section, using four provided fasteners (Torque to 40 in-lb) and make all wiring connections.

Yoke Version:

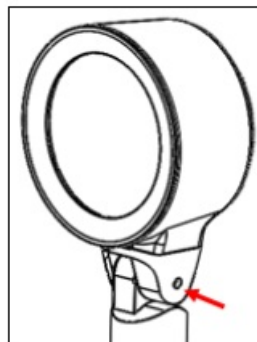
- Open mounting accessory's splice compartment & secure Cord Seal Fastener Body, and provided O-Ring, to the mounting accessory using the Lock Nut & Lock Washer (Torque to 95 in-lb).
- Insert Cord Set Nut, Nylon Washer & Grommet onto the Luminaire Flexible cord.
- Secure Luminaire Yoke to the mounting accessory using the Retaining Lock Nut (Torque to 95 in-lb).
- Route luminaire flexible cord into the mounting accessory, make electrical connections, and secure Luminaire Flexible Cord using the Cord Set Nut (Torque to 65 in-lb).

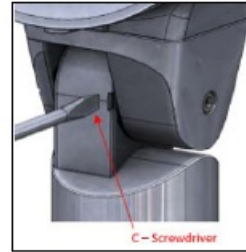
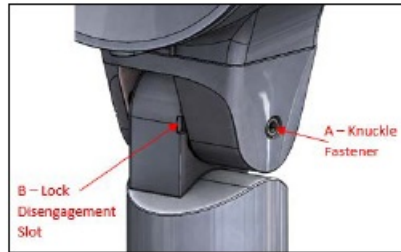


3. Aim Luminaire:

Knuckle Version:

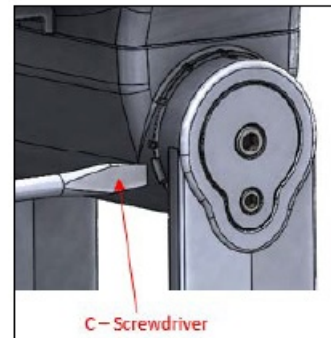
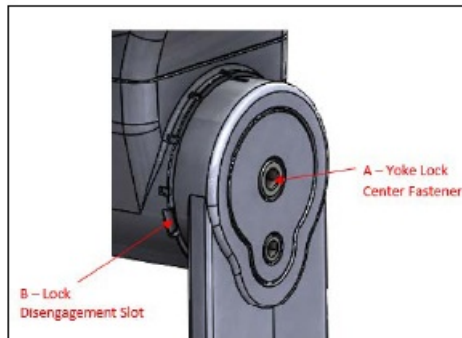
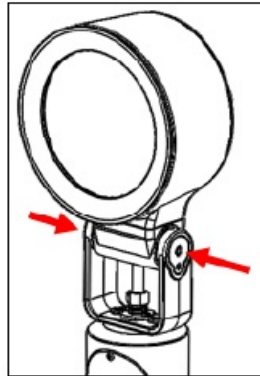
- Loosen Knuckle Fastener.
- Locate lock disengagement slot.
- Insert large flat blade screwdriver into slot and pull screwdriver handle away from luminaire's body releasing the Knuckle Lock.
- Adjust luminaire and re-tighten the Knuckle Fastener (Torque to 95 in-lb).





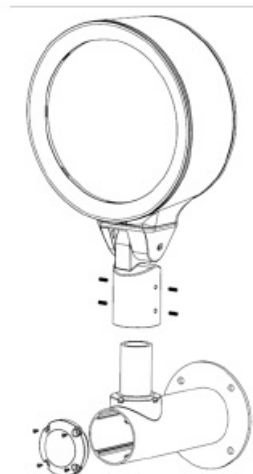
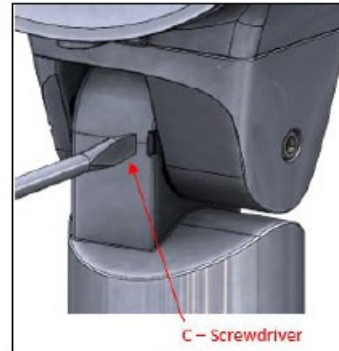
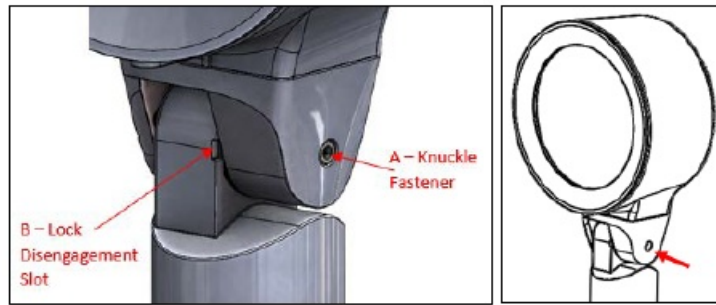
Yoke Version:

- Loosen Yoke Lock center fastener on each yoke lock.
- Locate lock disengagement slots.
- Insert large flat blade screwdriver into slots and pull screwdriver handle away from luminaire's body releasing the Yoke Lock.
- Adjust luminaire and re-tighten center Yoke Lock fasteners (Torque to 65 in-lb).



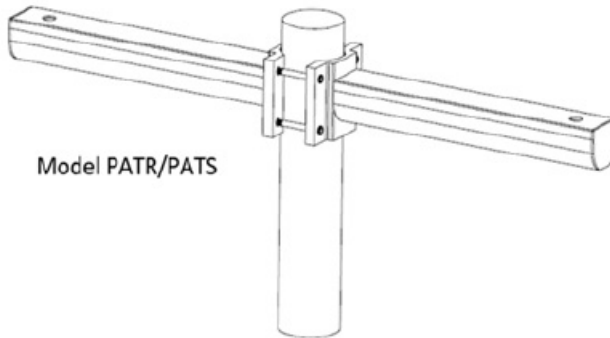
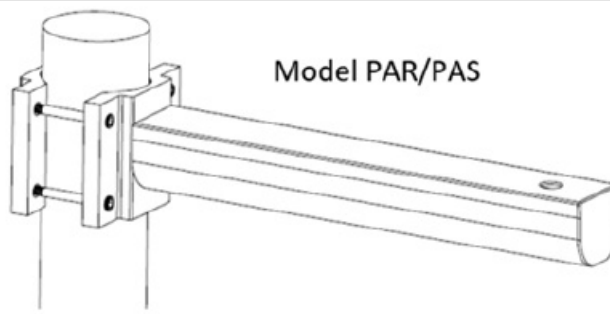
Wall Mounting – CWMA-T Option

1. Secure CWMA-T to mounting surface using appropriate fasteners. (Fasteners by others)
2. Open Splice Cover and make necessary electrical connections.
3. Secure Luminaire to the CWMA-T mounting accessory, tenon section, using four provided fasteners (Torque to 40 in-lb).
4. Route Luminaire wires into the CWMA-T mounting accessory and make all wiring connections.
5. Aim luminaire:
 - Loosen Knuckle Fastener.
 - Locate lock disengagement slot.
 - Insert large flat blade screwdriver into slot and pull screwdriver handle away from luminaire's body releasing the Knuckle Lock.
 - Adjust luminaire and re-tighten the Knuckle Fastener (Torque to 95 in-lb).



Pole Mounting – PAR/PAS & PATR/PATS

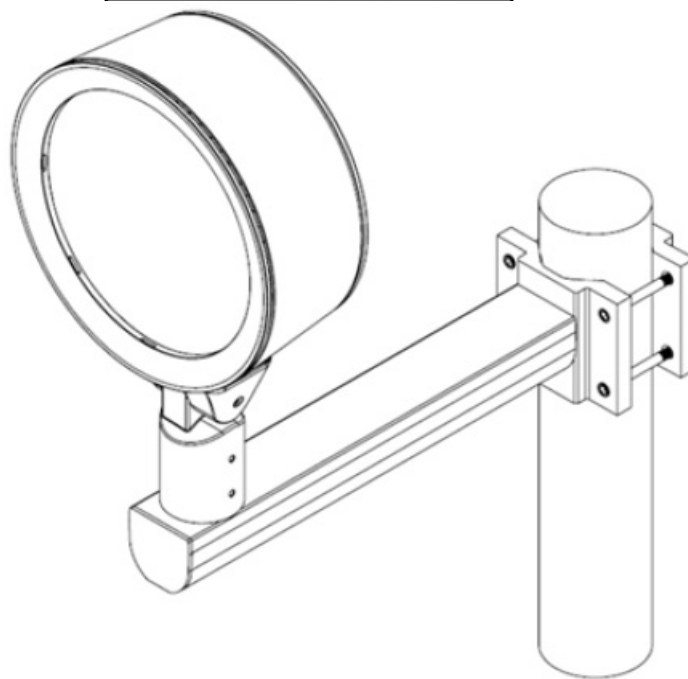
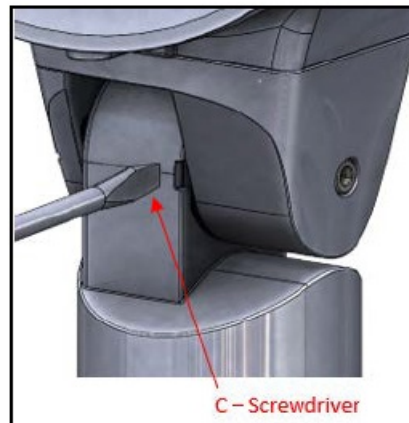
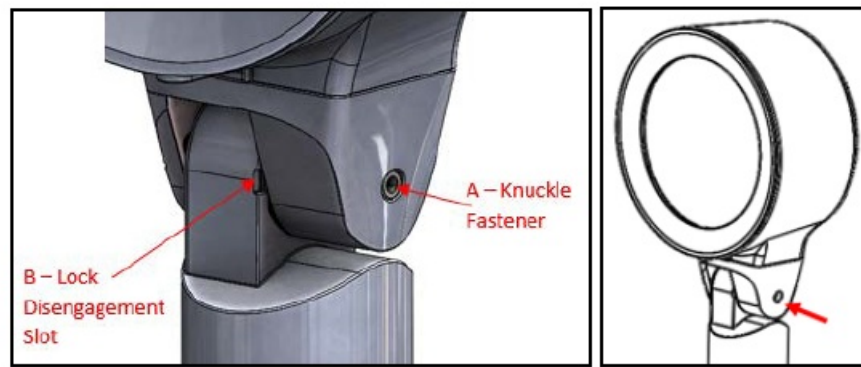
1. Pole Type:
 - Square Poles: Compatible with 4", 5" and 6 " square poles.
 - Round Poles: Compatible with 4", 5" and 6" round poles.
2. Secure Pole Mounting Accessory to Pole: Secure pole mount model of choice to pole provided fasteners.
(Torque Bolts to 30 in-lb minimum).

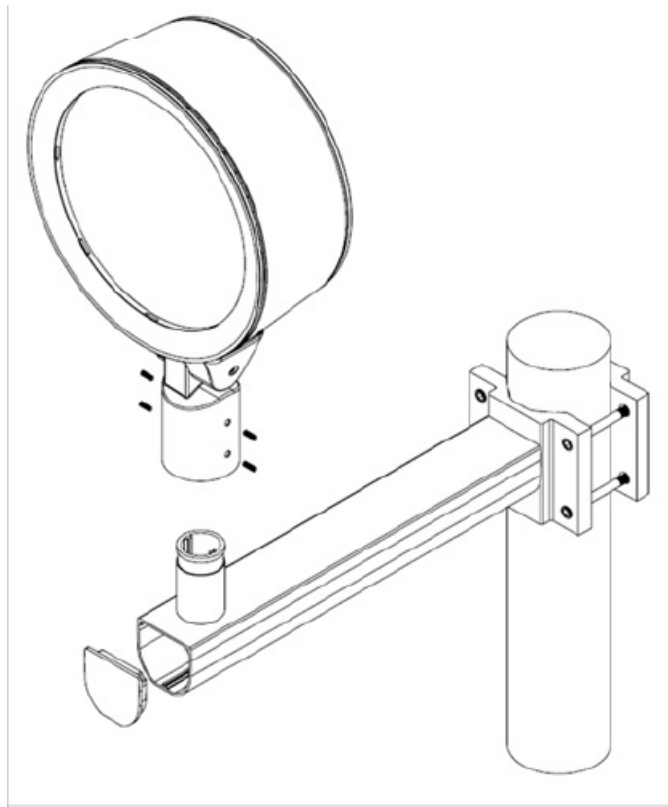
**Knuckle Version:**

Attach the Luminaire to mounting accessory: Open mounting accessory's splice compartment & position the luminaire on the mounting accessory (Tenon provided for Knuckle Versions). Secure the luminaire to the mounting accessory, tenon section, using four provided fasteners (Torque to 40 in-lb) and make all wiring connections.

Aim Luminaire:

- Loosen Knuckle Fastener.
- Locate lock disengagement slot.
- Insert large flat blade screwdriver into slot and pull screwdriver handle away from luminaire's body releasing the Knuckle Lock.
- Adjust luminaire and re-tighten the Knuckle Fastener (Torque to 95 in-lb).

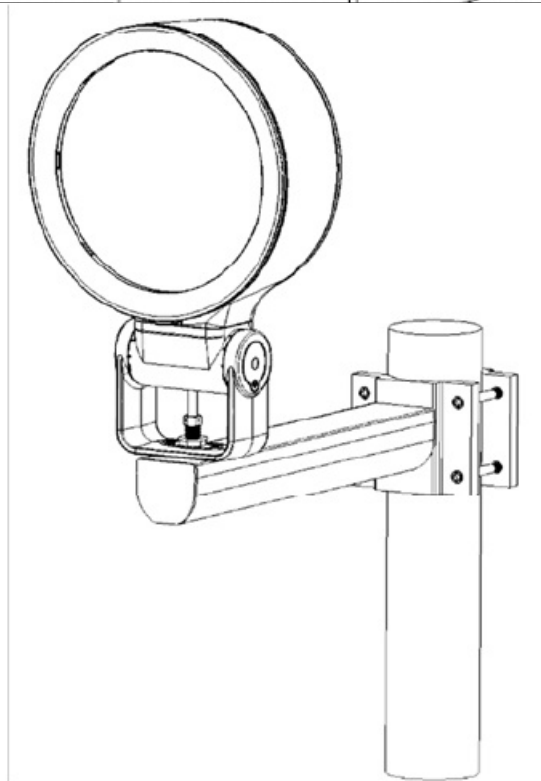
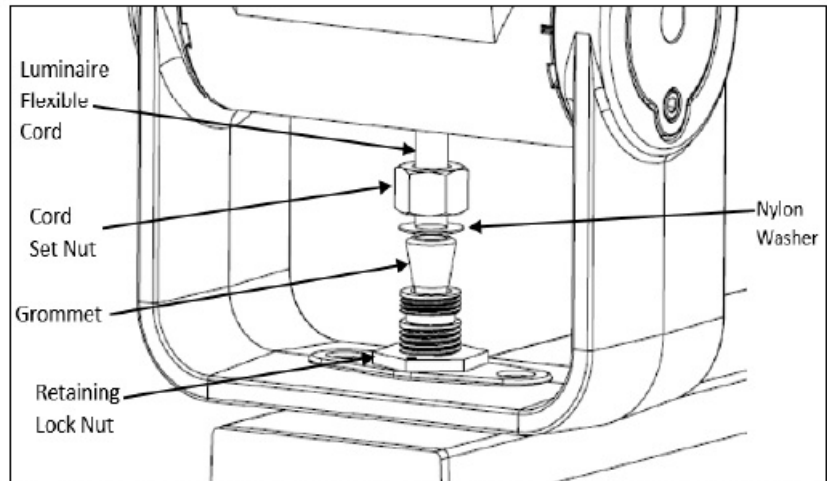
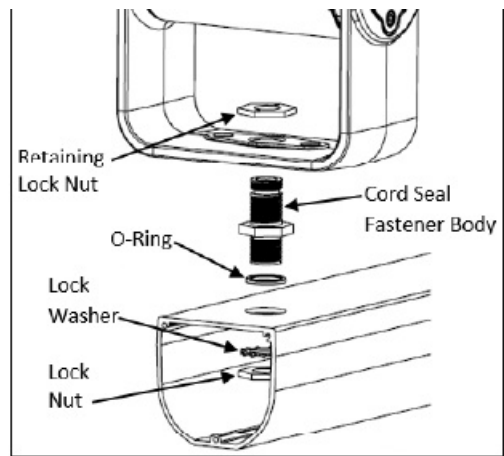


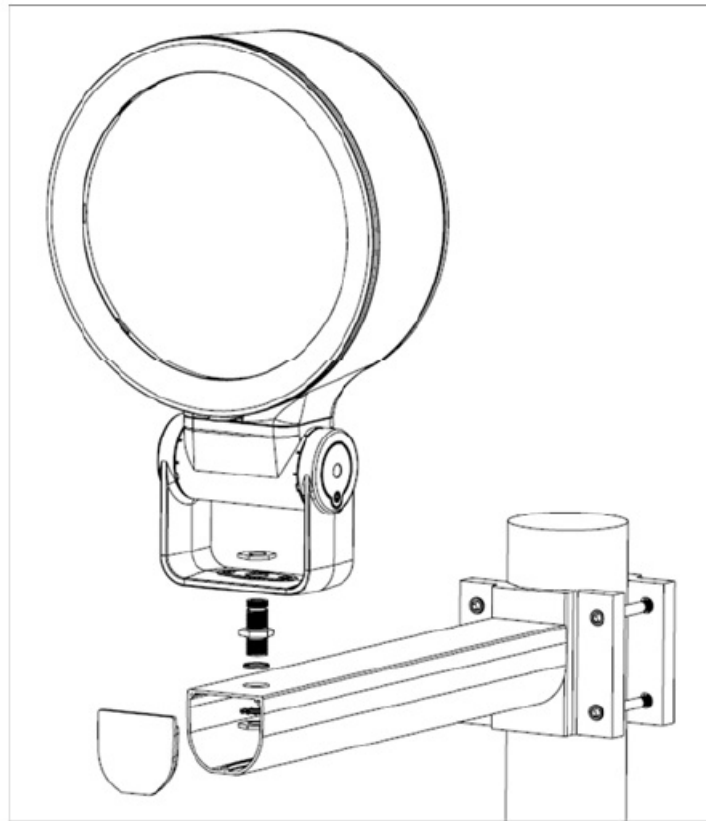


Yoke Version:

Attach the Luminaire to mounting accessory:

- Open mounting accessory's splice compartment & secure Cord Seal Fastener Body, and provided O-Ring, to the mounting accessory using the Lock Nut & Lock Washer (Torque to 95 in-lb).
- Insert Cord Set Nut, Nylon Washer & Grommet onto the Luminaire Flexible cord.
- Secure Luminaire Yoke to the mounting accessory using the Retaining Lock Nut (Torque to 95 in-lb).
- Route luminaire flexible cord into the mounting accessory, make electrical connections, and secure Luminaire Flexible Cord using the Cord Set Nut (Torque to 65 in-lb).

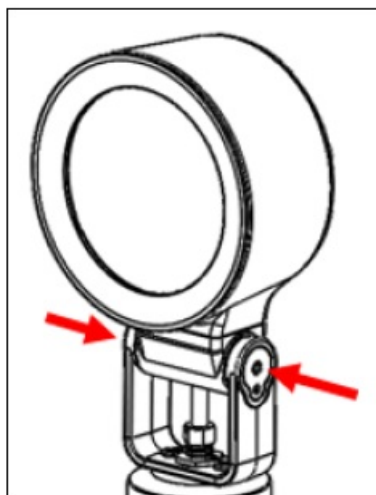


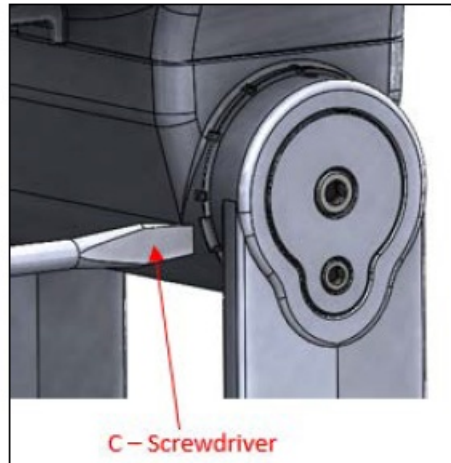
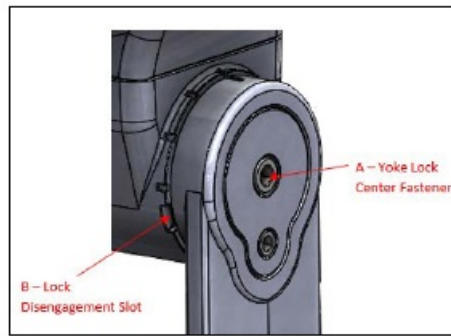


Yoke Version: (Continues)

Aim Luminaire:

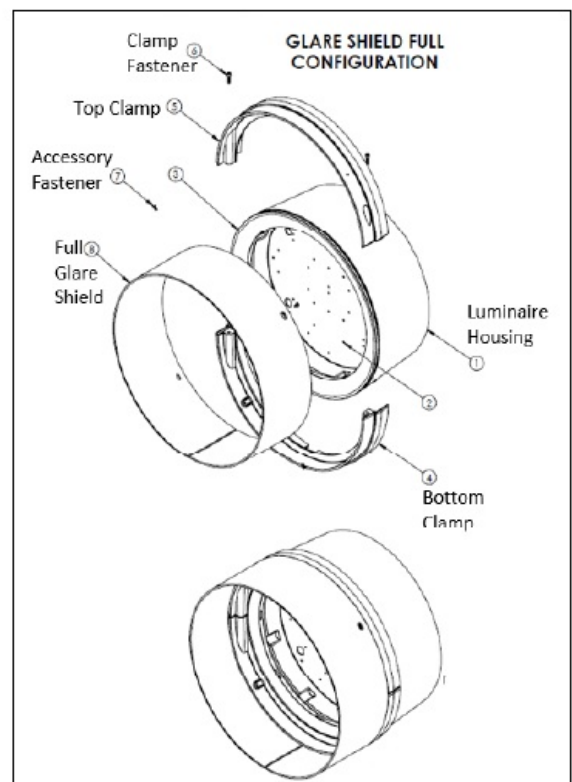
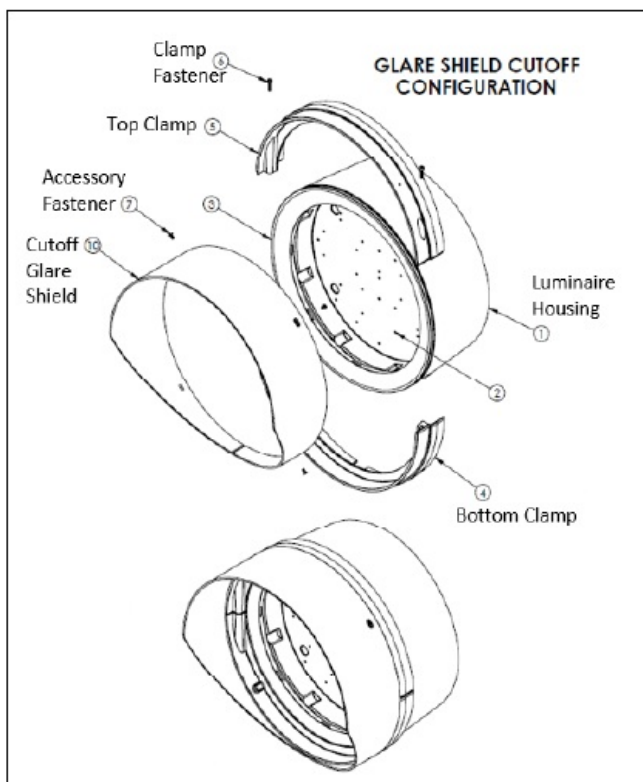
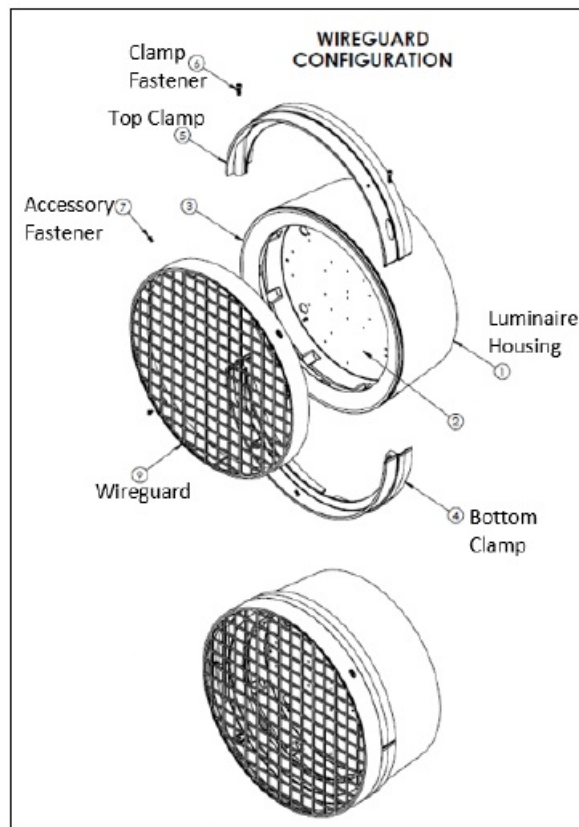
- Loosen Yoke Lock center fastener on each yoke lock.
- Locate lock disengagement slots.
- Insert large flat blade screwdriver into slots and pull screwdriver handle away from luminaire's body releasing the Yoke Lock.
- Adjust luminaire and re-tighten center Yoke Lock fasteners (Torque to 65 in-lb).





External Accessories

1. Position the Top Clamp & Bottom Clamp around the Luminaire Housing as shown. Place the two Clamp Fasteners in place, and tighten each fastener to 30 in-lb.
2. Position the external accessory of choice (Wireguard, or Full Glare Shield, or Cutoff Glare Shield) in the outer clamp section. Align threaded holes with those in the clamp section, place the Accessory Fasteners in place and tighten each fastener to 30 in-lb.



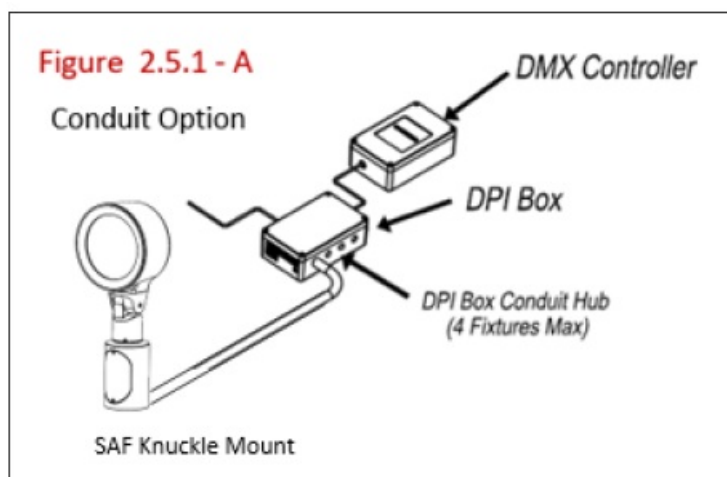
Electrical Connections

Warning: Turn Off supply power prior to making any electrical connections.

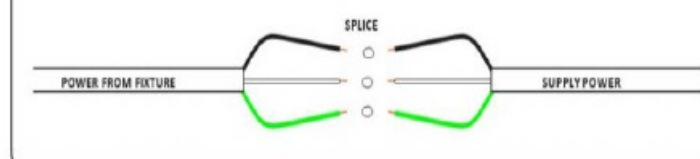
For fixtures equipped with DMX control, a Acuity DPI Box and Acuity approved dimming device must be used (See Hydrel INS DPI Installation Instructions for details). To wire, locate the yellow (DMX Common), orange (DMX-), and red (DMX+) control leads at the end of supply cable. Make connections as required utilizing an Acuity Brands approved DMX control device. See Figures 2.5.1-A, 2.5.1-B and 2.5.1-C.

Warning: MAINTAINING CORRECT POLARITY OF THE DMX CONTROL LEADS TO THE FIXTURE IS

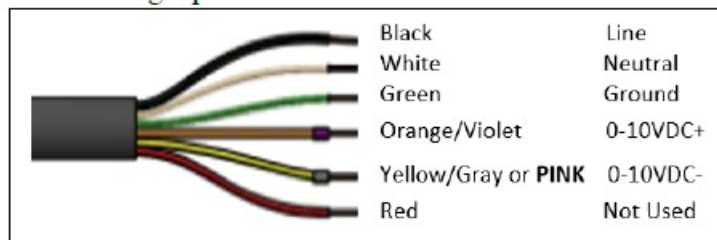
CRITICAL. IMPROPER POLARITY CONNECTIONS COULD RESULT IN UNEXPECTED CONTROL RESULTS OR DAMAGE TO FIXTURE DMX CONTROL CIRCUIT.



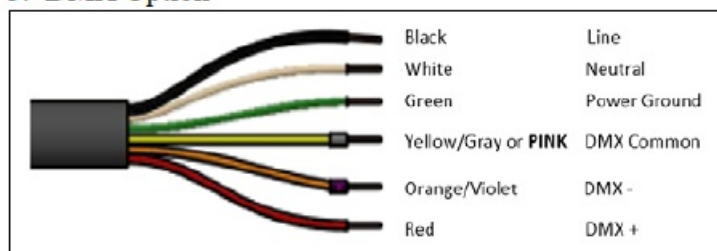
1. STANDARD 3 WIRE ELECTRICAL - SINGLE CORD TO SINGLE CORD

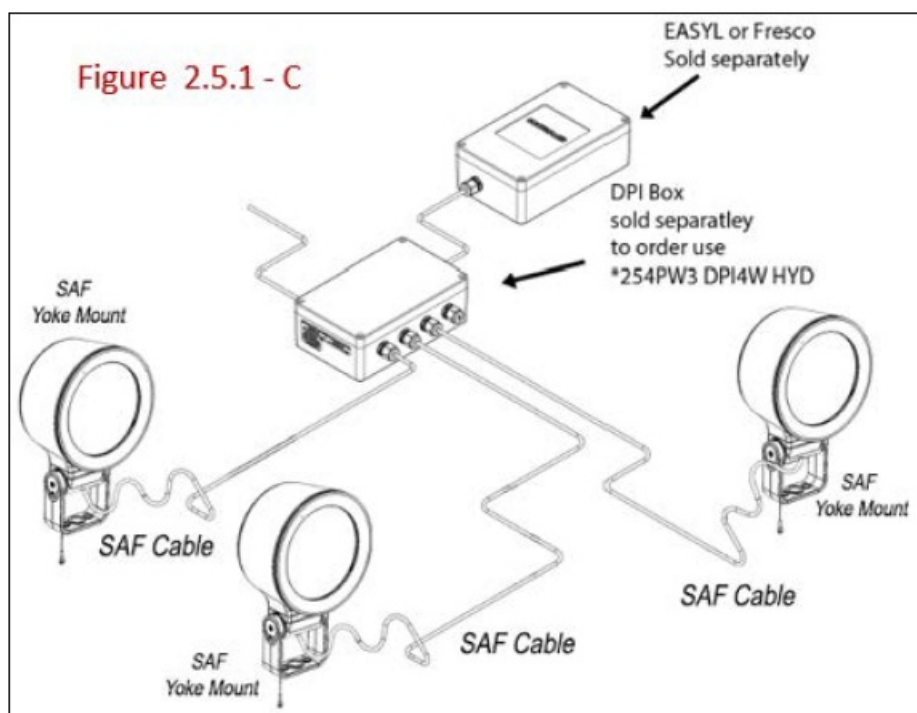
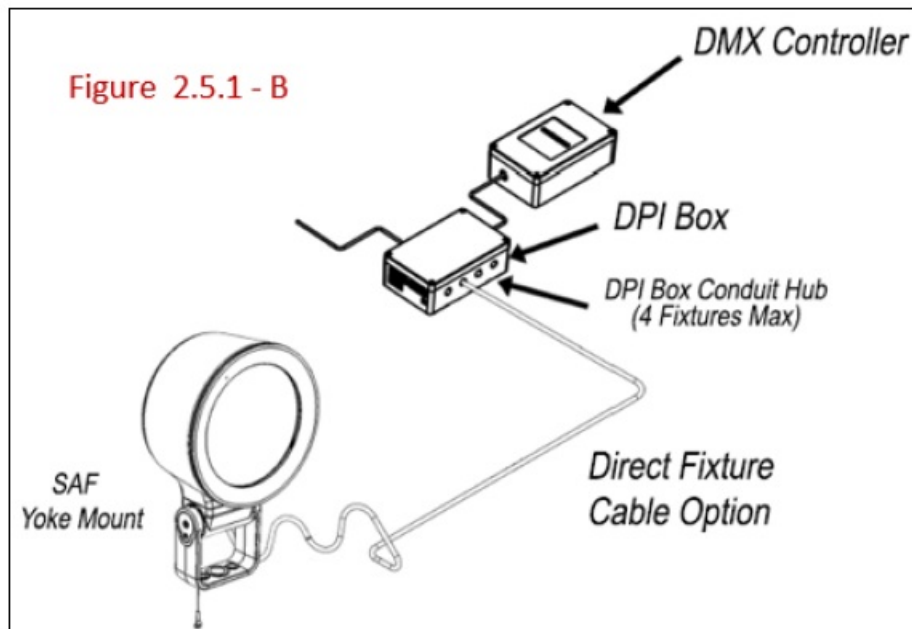


2. Dimming Option



3. DMX Option





Daisy-Chaining Option

When daisy chaining, cable length between fixture (or Luminaire) and Junction Box should be limited to 3ft. If longer lengths are needed, consult factory. Not recommended to use more than qty 4 DMX/RDM repeater boxes (DPI4WHYD) in one linear run or one DMX/RDM repeater boxes (DPI4WHYD) with 4 runs of 32 fixtures. Total DMX run length limited to 32 fixtures or 1000ft (contact factory for longer run lengths)

Reference the below chart for max fixture count per run.

Fixture Model	Watts	120V	208V	240V	277V
SAF7 RGB/RGBW	45W	32	32	32	32
SAF14 RGB/RGBW	100W	19	32	32	32
SAF28 RGB/RGBW	200W	9	16	19	22

Note: Data references 14AWG wire with 16A max. DMX terminators are required at the end of each fixture run on the DMX network cable (supplied by others or included with DPI4WHYD).

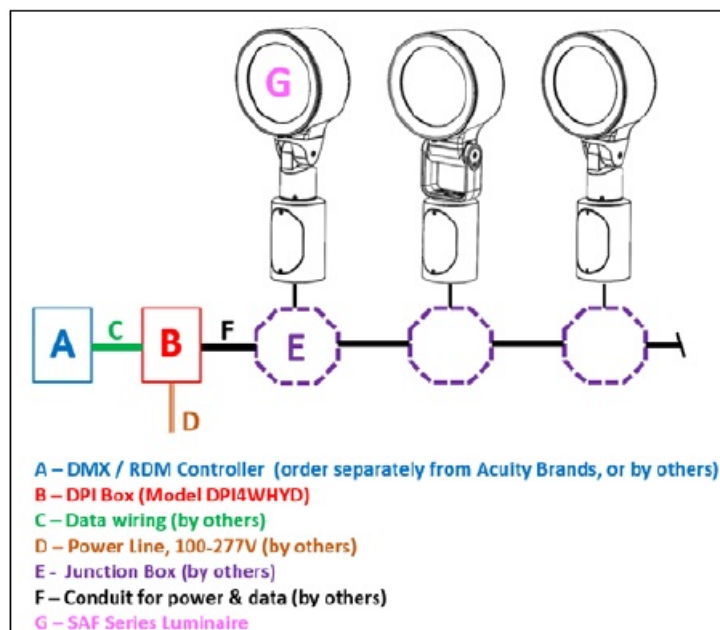
Recommended DMX Network Cables:

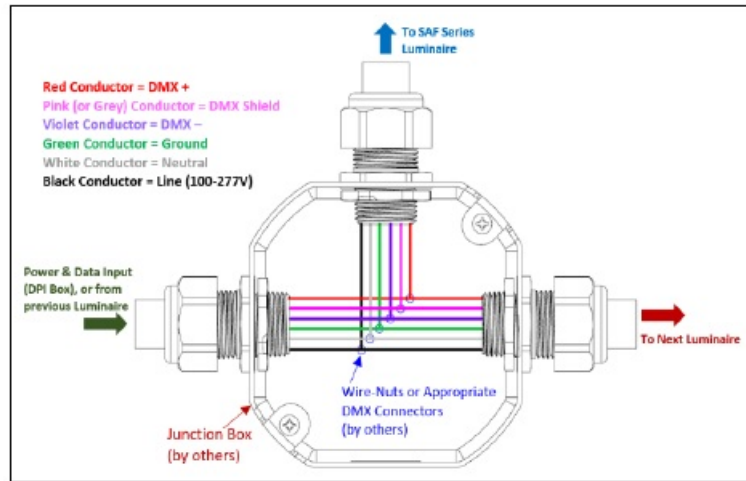
- Needs twisted pair for Data + / Data – (can be shielded) plus a data common
- Must be appropriate for RS485 networks:
 - ~120 ohm characteristic impedance
 - Low capacitance
 - Synergy SYA CABLEA4
 - Others (Belden 9842, 9729, 9829; etc.)

NEVER USE:

- Microphone cable, generic wire
- Mix of different cables without a repeater.

Reference NEC Article 725 code requirement. Barrier is requiring inside junction box to separate Class 2 wires from class 1 wires.





MAINTENANCE

Cleaning of Luminaire

Use a soft, clean cloth with mild detergent and water to clean and remove debris from the exterior portions of the luminaire's housing and lens.

Caution – Do not use abrasive or organic cleaners such as acetone or ammonia on luminaire's housing or lens. Their use may damage painted surfaces or affect optical performance.

Electrical Component Replacement

Replacement of any electrical component requiring access to the interior of the luminaire housing will require power being shut off before entering the luminaire. All work should be performed by personnel qualified to work on solid state luminaires.

Disconnect power to the luminaire prior to accessing the driver compartment and performing any maintenance. Remove Back Cover by removing applicable fasteners.

Surge Protector Replacement:

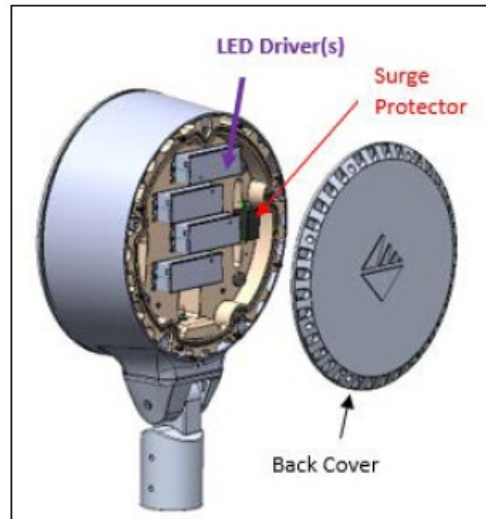
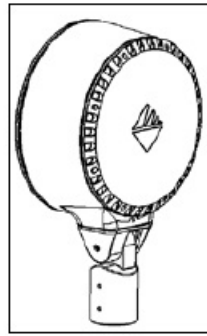
Locate the surge protector device. Disconnect the surge device from circuit and remove it from the luminaire. Replace with Hydrel approved replacement surge protector using existing mounting option and connect device to the circuit. Torque Surge Protector fasteners to 25 in-lb.

NOTE: The surge protector device must be reconnected in the same wiring configuration as the removed device in order to ensure proper and safe operation.

LED Driver(s) Replacement:

Locate the LED Driver(s), disconnect it from the input power and output load, and remove it from the luminaire. Install new LED Driver and secure in place using existing mounting option (Torque LED Driver fasteners to 25 in-lb). Connect new LED Driver to existing input and load conductors.

Secure the Back Cover to the luminaire using provided



SAF28 | 01/07/22 | REV – 4

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NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE.

Any dimension on this sheet is to be assumed as a reference dimension:

“Used for information purposes only. It does not govern manufacturing or inspection requirements.” (ANSI Y14.5-1973)

Documents / Resources

	<p>HYDREL SAF28 Specification Architectural Flood [pdf] Installation Guide SAF28, Specification Architectural Flood, Architectural Flood, Specification Flood, Flood</p>
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References

-  [Acuity Brands | Lighting, Controls, and Building Management Solutions](#)
-  [U.S. Environmental Protection Agency | US EPA](#)
-  [Hydrel | Architectural Outdoor Lighting | Acuity Brands](#)

Manuals+.