IMPORTANT SAFEGUARDS
When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. **DANGER** – Risk of shock - Disconnect power before installation. **DANGER** – Risque de choc – Couper l'alimentation avant l'installation.

2. This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician. **Ce produit doit être installé conformément à NEC ou votre code électrique local. Si vous n’êtes pas familier avec ces codes et ces exigences, veuillez contacter un électricien qualifié.**

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

- Prior to installation, store luminaire in a dry location protected from rain, dust, and outdoor environment. If equipped with a photocell receptacle, remove the protective cover only if immediately replacing with a suitable photocell, shorting cap, or other compatible device. The protective socket cover is not intended to remain in place after installation. Do NOT leave receptacle open to environmental elements. Luminaires with a top-mounted photocell receptacle should not be installed in an up-light position or at a tilt greater than 45 degrees from the down-light position.

TO INSTALL:

1. **NOTE:** Access to Components Compartment is not necessary for installation. To access the Components Compartment, loosen (5) self-retaining screws on the luminaire Cover Door. See Figure 4.

   STEP 1:
   Verify that there is access from top of the pole.

   STEP 2:
   Use dimensions on template shown on the back page for drilling if pole is not pre-drilled. (Template is not to scale.)

   STEP 3:
   From top of the pole insert Backing Plate with pre-assembled top bolt through the top mounting hole of the pole. See Figure 1.

   STEP 4:
   Remove any extra gaskets plugs from the foam gasket and place gasket over bolt extending from pole. See Figure 1.

   STEP 5:
   Place the top hole of the Pole Mount Adapter over the top bolt from the pole and secure from inside the adapter with supplied 5/16” hex nut. See Figure 1.

   STEP 6:
   Install remaining bolt with star washer inside the pole through the bottom hole of the Backing Plate and thread into the Pole Mount Adapter. Torque the 5/16” hex nut and bolt to 300 in-lbs (33 N-m). See Figure 2.

NOTES:

- **DO NOT** remove the knock out on the top of the luminaire (See Figure 3 on page 2). If a NEMA or photocontrol is desired customer must order OSQ luminaire with factory installed NEMA Photocell Receptacle [R option]. NEMA photocell receptacle or photo control's are not field installable.

- Use a ½” socket with a minimum 9” extension to reach all the way thru the arm to fasten the nut.

- A 3/16” Allen screw driver is needed to tighten the set screws.

- Compatible with 3.0” or larger round or square poles.
STEP 7: 
Route the cord coming from the fixture head through the Pole Mount Adaptor and then through the pole. See Figure 3.

STEP 8: 
Slide the mounting arm of the luminaire over the Pole Mount Adaptor as shown in Figure 3.

STEP 9: 
Tighten (4) 3/8-16 socket head set screws located on the top of the mounting arm to 85 in-lbs (9.6 N•m). See Figure 3.

STEP 10: 
See the Electrical Connections section for wiring instructions.

NEMA® RECEPTACLE (OPTIONAL)

NOTE: When inserting a control unit into the nema receptacle and rotating control unit to lock in, the engagement force may exceed the rotational force of the receptacle. If this occurs, the receptacle and control unit can be rotated clockwise until the hard rotation stop is reached on the receptacle and locking engagement between the receptacle and control is achieved. Once engaged, the control unit and receptacle can be turned counter clockwise to the desired orientation. Always verify proper installation by pulling up on the control module to confirm that it is locked into the socket.

STEP 1: 
Remove protective cap.

STEP 2: 
Rotational adjustment of the photocontrol receptacle is tool-less. DO NOT loosen/tighten the screws securing the receptacle to the housing.

STEP 3: 
Engage/install photocontrol into photocontrol receptacle on top of luminaire.

STEP 4: 
If necessary, rotate photo-control so its photo-eye is aimed in the north direction. Some photo-controls operate best somewhere between north-west and north-east.

FIELD ADJUSTABLE DIMMING - (OPTIONAL)

NOTE: This luminaire may be provided with field adjustable dimming. If so, luminaires leave the factory adjusted to the maximum setting specified when ordered. Visit www.creelightning.com/products for product specification sheets.

STEP 1: 
The Dimming module is located inside the luminaire. Open the luminaire door cover by loosening the (5) screws. See Figure 4.

STEP 2: 
Establish the desired input power multiplier by referring to the product dimming spec sheet and turn the switch to the correlating position.

STEP 3: 
Adjust the Dimming Module, see Figure 5, to the selected position and reinstall the cover ensuring no wires are pinched.
ELECTRICAL CONNECTIONS

STEP 1:
NOTE: For luminaires with PML sensor will have the dimming leads capped off. Keep the dimming leads on these luminaires capped off.

Using Listed 90°C minimum rated wire connectors make the following electrical connections within the adjustable fitter wiring compartment:

a. For 120/277/347V connect the black fixture lead to the voltage supply or Hot 1 (for 208/240/480V wiring).

b. For 120/277/347V connect the white fixture lead to the neutral supply or Hot 2 (for 208/240/480V wiring).

c. Connect the green or green/yellow ground lead to ground.

d. If Dimming is an option; connect the blue dimming positive fixture lead to the supply dimming positive lead.

e. If Dimming is an option; connect the white/black dimming negative fixture lead to the supply dimming negative lead.

f. Connect orange fixture lead to orange supply lead.

g. Connect red fixture lead to brown supply lead.
IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. **DANGER** - Risk of shock - Disconnect power before installation.
   **DANGER** – Risque de choc – Couper l'alimentation avant l'installation.
2. This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician. Ce produit doit être installé conformément à NEC ou votre code électrique local. Si vous n’êtes pas familier avec ces codes et ces exigences, veuillez contacter un électricien qualifié.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

- Prior to installation, store luminaire in a dry location protected from rain, dust, and outdoor environment. If equipped with a photocell receptacle, remove the protective cover only if immediately replacing with a suitable photocell, shorting cap, or other compatible device. The protective socket cover is not intended to remain in place after installation. Do NOT leave receptacle open to environmental elements. Luminaires with a top-mounted photocell receptacle should not be installed in an up-light position or at a tilt greater than 45 degrees from the down-light position.

TO INSTALL:

ADJUSTABLE ARM MOUNT INSTALLATION

**NOTE:** A 3/16” Allen screw driver is needed to tighten the set screws.

**NOTE:** Access to Components Compartment is not necessary for installation. To access the Components Compartment, loosen (5) self-retaining screws on the luminaire Cover Door. See Figure 1.

**STEP 1:**
Remove the wiring compartment cover from the adjustable fitter and set cover aside to reinstall later. See Figure 1.

**STEP 2:**
Route the luminaire power supply cord into the adjustable fitter wiring compartment.

**STEP 3:**
Engage the adjustable fitter onto the luminaire using (4) 3/8”-16 set screws on the top of the luminaire.

**STEP 4:**
Cut leads 3” of length from the end of the luminaire power supply cord and re-strip the ends of the leads.

**STEP 5:**
Route the pole’s supply leads up through the adjustable fitter and into the adjustable fitter wiring compartment by puncturing the internal seal with the supply leads. See Figure 1.

**STEP 6:**
Strain relief is required for electrical connections on the adjustable fitter mount for mount heights of 25’ [7.6 m] and higher. Tie a knot in the supply wires above the hole in the adjustable fitter wiring compartment to reduce the strain on the connections. Make sure knot will not slip through hole.

**STEP 7:**
Slip adjustable fitter over 2-3/8” [60 mm] O.D. heavy wall pipe or tenon and securely tighten two Allen head set screws with 3/16” Allen wrench to 18 ft. lbs. [24 N•m]. See Figure 1.

**STEP 8:**
Make wire connections in wiring compartment of adjustable fitter per Electrical Connections section on the back page.

**STEP 9:**
Replace the adjustable fitter compartment cover that was removed in Step 1 and secure with (3) self-retaining screws. Make sure not to pinch the O-ring. See Figure 1.
**FIXTURE AIMING**

**STEP 1:**
Adjust fixture to desired aiming angle. The fixture may be aimed at 2-1/2° increments. Markings are located on outside of fitter for ease of aiming. See Figure 2.

**STEP 2:**
Tighten 3/8” bolt in fitter wiring compartment to approximately 19 ft.lbs. [25 N•m].

**STEP 3:**
Replace the adjustable fitter wiring compartment cover that was removed in Step 1 of Adjustable Arm Mount Installation section and secure with (3) self retaining screws. Make sure not to pinch the O-ring. See Figure 1.

**NEMA® RECEPTACLE (OPTIONAL)**

**STEP 1:**
Remove protective cap.

**STEP 2:**
Rotational adjustment of the photocontrol receptacle is tool-less. DO NOT loosen/tighten the screws securing the receptacle to the housing.

**STEP 3:**
Engage/install photocontrol into photocontrol receptacle on to of luminaire.

**STEP 4:**
If necessary, rotate photo-control so its photo-eye is aimed in the north direction. Some photo-controls operate best somewhere between north-west and north-east.

**FIELD ADJUSTABLE DIMMING - (OPTIONAL)**

**NOTE:** This luminaire may be provided with field adjustable dimming. If so, luminaires leave the factory adjusted to the maximum setting specified when ordered. Visit www.cree.com/Lighting/Document-Library for product dimming spec sheet.

**STEP 1:**
The Dimming module is located inside the luminaire. Open the luminaire door cover by loosening the (5) screws. See Figure 1.

**STEP 2:**
Establish the desired input power multiplier by referring to the product dimming spec sheet and turn the switch to the correlating position.

**STEP 3:**
Adjust the Dimming Module, see Figure 3, to the selected position and reinstall the cover ensuring no wires are pinched.
ELECTRICAL CONNECTIONS

STEP 1:
NOTE: For luminaires with PML sensor will have the dimming leads capped off. Keep the dimming leads on these luminaires capped off.

Using Listed 90°C minimum rated wire connectors make the following electrical connections within the adjustable fitter wiring compartment:

a. For 120/277/347V connect the black fixture lead to the voltage supply or Hot 1 (for 208/240/480V wiring).

b. For 120/277/347V connect the white fixture lead to the neutral supply or Hot 2 (for 208/240/480V wiring).

c. Connect the green or green/yellow ground lead to ground.

d. If Dimming is an option; connect the blue dimming positive fixture lead to the supply dimming positive lead.

e. If Dimming is an option; connect the white/black dimming negative fixture lead to the supply dimming negative lead.

f. Connect orange fixture lead to orange supply lead.

g. Connect red fixture lead to brown supply lead.
**IMPORTANT SAFEGUARDS**

When using electrical equipment, basic safety precautions should always be followed including the following:

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

1. **DANGER - Risk of shock - Disconnect power before installation.**
2. **This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician.**

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

• Prior to installation, store luminaire in a dry location protected from rain, dust, and outdoor environment. If equipped with a photocell receptacle, remove the protective cover only if immediately replacing with a suitable photocell, shorting cap, or other compatible device. The protective socket cover is not intended to remain in place after installation. Do NOT leave receptacle open to environmental elements. Luminaires with a top-mounted photocell receptacle should not be installed in an up-light position or at a tilt greater than 45 degrees from the down-light position.

**TO INSTALL:**

1. **Access to Components Compartment is not necessary for installation. To access the Components Compartment, loosen (5) self-retaining screws on the luminaire Cover Door. See Figure 3.**

2. **Prepare mounting surface for installation. Ensure that mounting surface and fasteners are suitable for the installation.**

3. **If necessary, adjust the aiming angle of the trunnion mount by removing the two aiming bolts, rotating the trunnion mount and then reinstalling the aiming bolts. The trunnion mount can be aimed in 15 degree increments. See Figure 1.**

4. **Torque the (2) aiming bolts and (2) trunnion bolts to 30 ft-lbs (40.7 Nm) using a 1/2” socket and a 7/32” Allen wrench. See Figure 1.**

5. **Secure the trunnion mount to the mounting surface using customer supplied hardware. Ensure that the fasteners and torque are suitable for the installation.**

6. **After customer supplied mounting bolts are installed and properly torqued. Torque the (2) 5/16” setscrews using a 5/32” Allen wrench to 100 in-lbs. See Figure 1.**

**TRUNNION MOUNT**

**NOTE:** Access to Components Compartment is not necessary for installation. To access the Components Compartment, loosen (5) self-retaining screws on the luminaire Cover Door. See Figure 3.

**STEP 1:**

Prepare mounting surface for installation. Ensure that mounting surface and fasteners are suitable for the installation.

**STEP 2:**

Use dimensions on template shown on the back page for drilling if mounting surface is not pre-drilled. (Template is not to scale.)

**STEP 3:**

If necessary, adjust the aiming angle of the trunnion mount by removing the two aiming bolts, rotating the trunnion mount and then reinstalling the aiming bolts. The trunnion mount can be aimed in 15 degree increments. See Figure 1.

**STEP 4:**

Torque the (2) aiming bolts and (2) trunnion bolts to 30 ft-lbs (40.7 Nm) using a 1/2” socket and a 7/32” Allen wrench. See Figure 1.

**STEP 5:**

Secure the trunnion mount to the mounting surface using customer supplied hardware. Ensure that the fasteners and torque are suitable for the installation.

**STEP 6:**

After customer supplied mounting bolts are installed and properly torqued. Torque the (2) 5/16” setscrews using a 5/32” Allen wrench to 100 in-lbs. See Figure 1.

**NOTE:** For utility flood (UD mounting code), skip to Step 10. For trunnion accessory (OSQ-TM), continue to Step 7.
STEP 7: Route the cord coming from the luminaire head through the Trunnion Mount. See Figure 2.

STEP 8: Slide the mounting arm of the luminaire over the Trunnion Mount as shown in Figure 2.

STEP 9: Tighten (4) 3/8-16 socket head set screws located on the top of the mounting arm with a 3/16” Allen wrench to 85 in-lbs (9.6 N•m). See Figure 2.

STEP 10: See the Electrical Connections section for wiring instructions.

NEMA® RECEPTACLE (OPTIONAL)

NOTE: When inserting a control unit into the nema receptacle and rotating control unit to lock in, the engagement force may exceed the rotational force of the receptacle. If this occurs, the receptacle and control unit can be rotated clockwise until the hard rotation stop is reached on the receptacle and locking engagement between the receptacle and control is achieved. Once engaged, the control unit and receptacle can be turned counter clockwise to the desired orientation. Always verify proper installation by pulling up on the control module to confirm that it is locked into the socket.

STEP 1: Remove protective cap.

STEP 2: Rotational adjustment of the photocontrol receptacle is tool-less. DO NOT loosen/tighten the screws securing the receptacle to the housing.

STEP 3: Engage/install photocontrol into photocontrol receptacle on top of luminaire.

STEP 4: If necessary, rotate photo-control so its photo-eye is aimed in the north direction. Some photo-controls operate best somewhere between north-west and north-east.

FIELD ADJUSTABLE DIMMING - (OPTIONAL)

NOTE: This luminaire may be provided with field adjustable dimming. If so, luminaires leave the factory adjusted to the maximum setting specified when ordered. Visit www.creelighting.com/products for product specification sheets.

STEP 1: The Dimming module is located inside the luminaire. Open the luminaire door cover by loosening the (5) screws. See Figure 3.

STEP 2: Establish the desired input power multiplier by referring to the product dimming spec sheet and turn the switch to the correlating position

STEP 3: Adjust the Dimming Module, see Figure 4, to the selected position and reinstall the cover ensuring no wires are pinched.
ELECTRICAL CONNECTIONS

STEP 1:
NOTE: Luminaires with PML sensor will have the dimming leads capped off. Keep the dimming leads on these luminaires capped off.

Using Listed 90°C minimum rated wire connectors make the following electrical connections within the adjustable fitter wiring compartment:

a. For 120/277/347V connect the black fixture lead to the voltage supply or Hot 1 (for 208/240/480V wiring).
b. For 120/277/347V connect the white fixture lead to the neutral supply or Hot 2 (for 208/240/480V wiring).
c. Connect the green or green/yellow ground lead to ground.
d. If Dimming is an option; connect the blue dimming positive fixture lead to the supply dimming positive lead.
e. If Dimming is an option; connect the white/black dimming negative fixture lead to the supply dimming negative lead.
f. Connect orange fixture lead to orange supply lead.
g. Connect red fixture lead to brown supply lead.
IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. DANGER - Risk of shock - Disconnect power before installation.
   DANGER – Risque de choc – Couper l'alimentation avant l'installation.

2. This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician.
   Ce produit doit être installé conformément à NEC ou votre code électrique local. Si vous n’êtes pas familier avec ces codes et ces exigences, veuillez contacter un électricien qualifié.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

- Prior to installation, store luminaire in a dry location protected from rain, dust, and outdoor environment. If equipped with a photocell receptacle, remove the protective cover only if immediately replacing with a suitable photocell, shorting cap, or other compatible device. The protective socket cover is not intended to remain in place after installation. Do NOT leave receptacle open to environmental elements. Luminaires with a top-mounted photocell receptacle should not be installed in an up-light position or at a tilt greater than 45 degrees from the down-light position.

TO INSTALL:

ADJUSTABLE ARM MOUNT INSTALLATION STEP 1:

Slip adjustable fitter over 2-3/8” (60 mm) O.D. heavy wall pipe or tenon and securely tighten two Allen head set screws with 3/16” Allen wrench to 18 ft. lbs. (24 N•m). See Figure 1.

STEP 2:

Make wire connections per Electrical Connections section on the back page.
**FIXTURE AIMING**

**STEP 1:**
Remove the wiring compartment cover from the adjustable fitter and set cover aside to reinstall later. See Figure 1.

**STEP 2:**
Loosen 3/8” bolt in fitter wiring compartment.

**STEP 3:**
Adjust fixture to desired aiming angle, max 45 degree. The fixture may be aimed at 2-1/2° increments. Markings are located on outside of fitter for ease of aiming. See Figure 2.

**STEP 4:**
Tighten 3/8” bolt in fitter wiring compartment to 19 ft. lbs. (25 N•m).

**STEP 5:**
Replace the adjustable fitter wiring compartment cover that was removed in Step 1 and secure with (3) self retaining screws to 23 in. lbs (2.6 N•m). Make sure not to pinch the O-ring or wires. See Figure 1.

**NEMA® RECEPTACLE (OPTIONAL)**

**NOTE:** When inserting a control unit into the nema receptacle and rotating control unit to lock in, the engagement force may exceed the rotational force of the receptacle. If this occurs, the receptacle and control unit can be rotated clockwise until the hard rotation stop is reached on the receptacle and locking engagement between the receptacle and control is achieved. Once engaged, the control unit and receptacle can be turned counter clockwise to the desired orientation. Always verify proper installation by pulling up on the control module to confirm that it is locked into the socket.

**STEP 1:**
Remove protective cap.

**STEP 2:**
Rotational adjustment of the photocontrol receptacle is tool-less. DO NOT loosen/tighten the screws securing the receptacle to the housing.

**STEP 3:**
Engage/install photocontrol into photocontrol receptacle on to of luminaire.

**STEP 4:**
If necessary, rotate photo-control so its photo-eye is aimed in the north direction. Some photo-controls operate best somewhere between north-west and north-east.
ELECTRICAL CONNECTIONS

STEP 1:
Using Listed 90°C minimum rated wire connectors make the following electrical connections within the pole:

a. For 120/277/347V connect the black fixture lead to the voltage supply or Hot 1 (for 208/240/480V wiring).
b. For 120/277/347V connect the white fixture lead to the neutral supply or Hot 2 (for 208/240/480V wiring).
c. Connect the green or green/yellow ground lead to ground.
d. If Dimming is an option; connect the violet dimming positive lead to the supply dimming positive lead.
e. If Dimming is an option; connect the grey dimming negative lead to the supply dimming negative lead.