

LED DIMMING DRIVER



INSTALLATION INSTRUCTIONS

IMPORTANT SAFEGUARDS

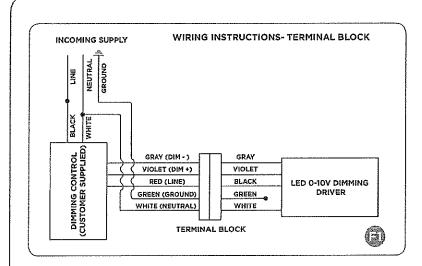
When using electrical equipment, basic safety precautions should always be followed including the following:

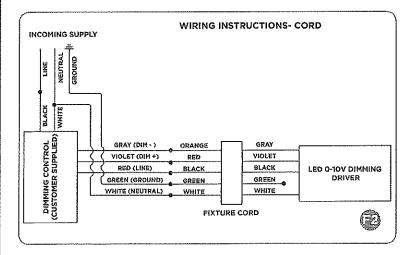
READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- 1. To reduce the risk of electrical shock, turn off power supply before installation or servicing.
- 2. This product 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.
- 3. See the installation instructions provided with the fixture for instructions relating to the LED fixture.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

TO INSTALL:





DIMMING CONTROLLER (CUSTOMER PROVIDED)

The dimming controller used must be a 0-10V electronic dimmer (commonly used in fluorescent applications). See the list below for recommended dimming controls:

- Leviton IP710-DLW
- Lutron NOVA T*

WIRING INSTRUCTIONS

- Wiring Instructions for Terminal Block see Figure 1.
- · Wiring instruction for Cord see Figure 2.

TROUBLESHOOTING

If the fixture is not dimming follow the steps below to troubleshoot the problem:

- 1. Turn off power supply to fixture.
- 2. Remove the LED Dimming Driver's DIM+ and DIM- leads from their respective connections (either a terminal block or wire nut).
- 3. Connect the DIM+ and DIM- leads.
- 4. Turn power to the fixture back on.

If fixture dims, the fixture and the LED Dimming Driver are working as intended. The dimming controller is the problem and should be replaced (see "Dimming Controller" section for recommended controllers)

If fixture does not dim, there is a problem with the fixture or the LED Dimming Driver. Consult factory for assistance.

The information in this document in subject to change without notice. Visit website for patents that cover these products: Patent http://www.cree.com/patents



CREE



CREE & LIGHTING

OSQ Series

LED Area Light

Direct Pole Mount

IMPORTANT SAFEGUARDS

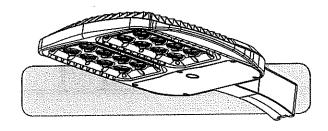
When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

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

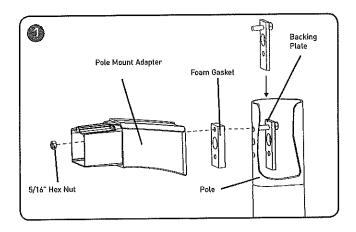
 Prior to installation, store luminaire in a dry location protected from rain, dust, and outdoor environment. If equipped with a photocell receptacle, remove the protective cover only if immediately replacing with a suitable photocell, shorting cap, or other compatible device. The protective socket cover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

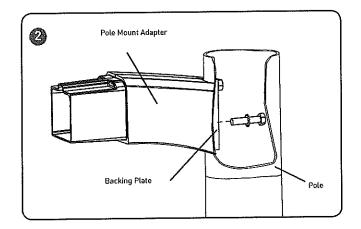


NOTES:

- 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.

TO INSTALL:





DIRECT POLE 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 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

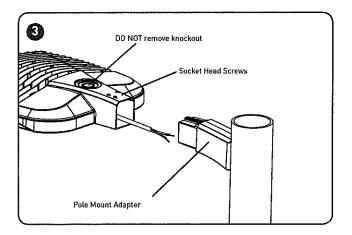
Remove any extra gaskets plugs from the foam gasket and place gasket over bolt extending from pole. See **Figure 1.**

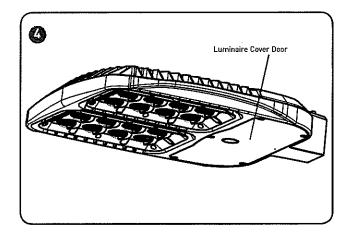
STEP 5:

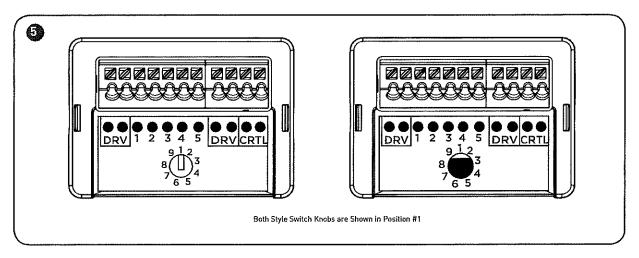
Place the top hole of the Pole Mount Adapter over the top bolt from the pole and secure from inside the adapter with supplied 5/16" hex nut. See **Figure 1.**

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 132 in-lbs (15 N-m). See **Figure 2.**







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:

2 of 3

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.creelighting.com/products for product specification sheets.

STEP 1:

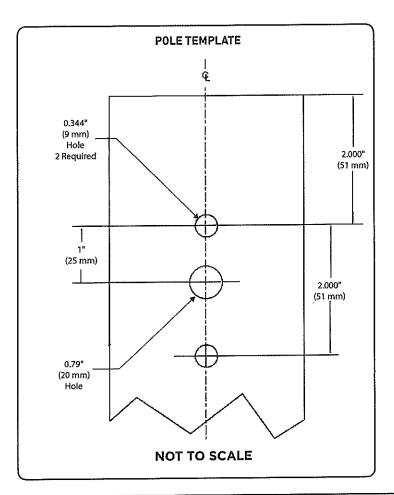
The Dimming module is located inside the luminaire. Open the luminaire door cover by loosening the (5) screws. See Figure 4.

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.



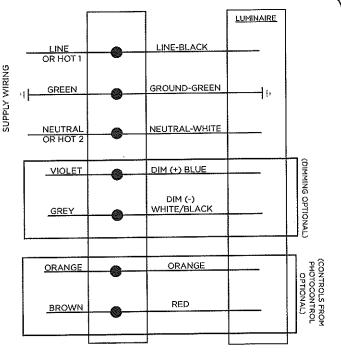
ELECTRICAL CONNECTIONS

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:

- For 120/277/347V connect the black fixture lead to the voltage supply or Hot 1 (for 208/240/480V wiring).
- 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.
- If Dimming is an option; connect the blue dimming positive fixture lead to the supply dimming positive lead.
- 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.



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LED Area Light

Transportation Mount

IMPORTANT SAFEGUARDS

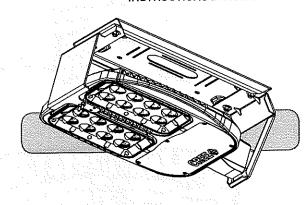
When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- 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

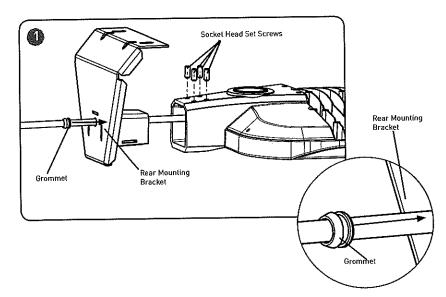
INSTALLATION INSTRUCTIONS INSTRUCTIONS D'INSTALLATION

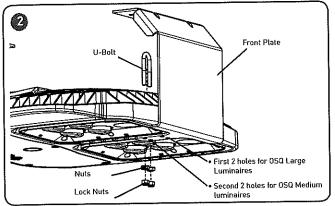


NOTES:

- Before installing, ensure the mounting surface and securement points are structurally sound and capable of supporting the weight of the luminaire.
- . DO NOT lift the luminaire by the cord.

TO INSTALL:





DIRECT MOUNT

STEP 1:

Install grommet into rear mounting bracket. Orient grommet as shown in **Figure 1**.

STEP 2

Route power cord from luminaire through grommet in rear mounting bracket. See **Figure 1**.

STEP 3:

Slide the rear mounting bracket into the luminaire housing. See **Figure 1.**

STEP 4

Tighten (4) 3/8-16 socket head set screws located on the luminaire housing to 85 in-lbs (9.6 N-m). See **Figure 1.**

STEP 5:

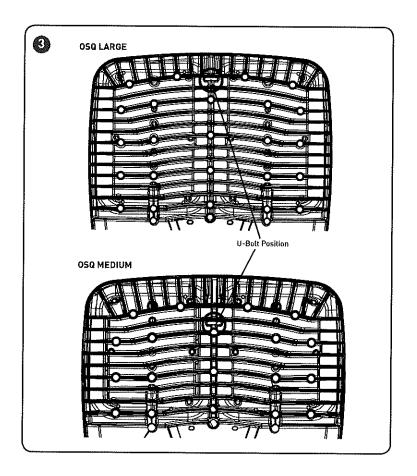
Atign front plate with luminaire housing and insert U-bolt. U-bolt position is dependent on luminaire size. See **Figure 2 and 3.**

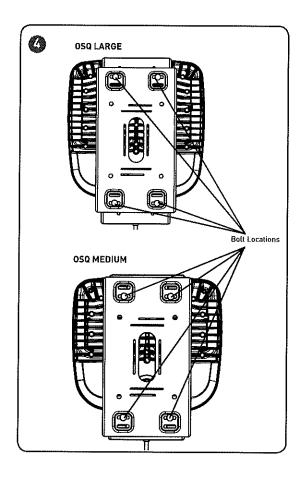
STEP 6:

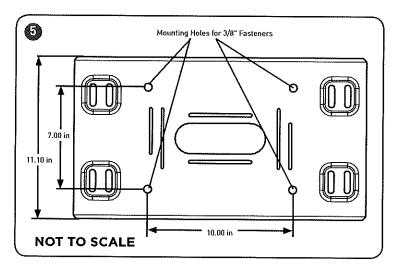
Install [2] 1/4-20 nuts with integral lock washer onto U-bolt. The lockwasher should be against the mounting plate. Torque to 60 in-lbs (7 N-m). See Figure 2.

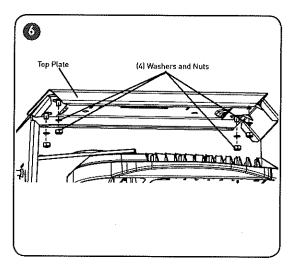
STEP 7

Install (2) 1/4-20 lock nuts and torque to 120 in-lbs (14 N-m) while holding the nuts installed previously in Step 7 to prevent rotation. See **Figure 2**.









STEP 8:

Place (4) 3/8-16 carriage bolts into top plate slots. Bolt locations are dependent on luminaire size, see Figure 4. Align the top plate on an appropriate mounting surface. Using customer supplied 3/8" stainless steel or coated bolts and washers, secure the bracket to the mounting surface. See **Figure 4 and 5.**

STEP 9:

Secure luminaire to top plate using (4) 3/8" washers and (4) 3/8-16

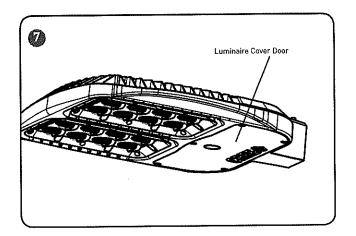
nuts. Torque nuts to 240 in-lbs (27 N-m), See Figure 6.

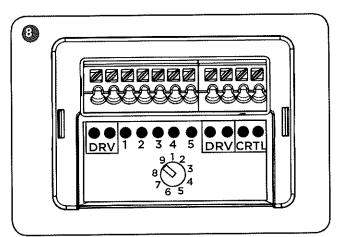
STEP 10:

Insert luminaire cord into customer supplied junction box with suitable Listed cord strain relief.

STEP 11

Connect the cord to the supply wiring per the ${\bf Electrical}$ Connections section on the last page.





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 the product specification sheet for lumen and power multipliers for each field adjustable output dim setting..

STEP 1:

The Dimming module is located inside the luminaire. Open the luminaire door cover by loosening the (5) screws. See **Figure 7.**

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:

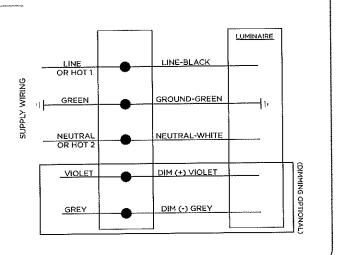
Adjust the Dimming Module, see **Figure 8**, to the selected position and reinstall the cover ensuring no wires are pinched.

ELECTRICAL CONNECTIONS

STEP 1:

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

- 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.



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OSQ Series

LED Area Light

Trunnion Mount

IMPORTANT SAFEGUARDS

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

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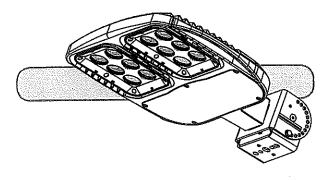
READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- 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 topmounted photocell receptacle should not be installed in an up-light position
or at a tilt greater than 45 degrees from the down-light position.

INSTALLATION INSTRUCTIONS INSTRUCTIONS D'INSTALLATION



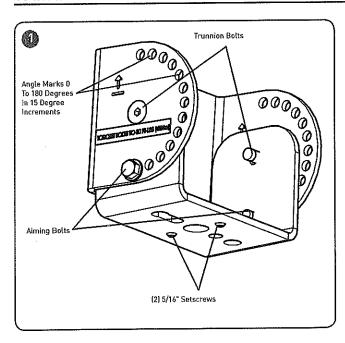
NOTES:

 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.

TOOLS REQUIRED:

- 7/32", 3/16" and 5/32" Allen wrenches
- 1/2" socket
- · Torque wrench

TO INSTALL:



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.**

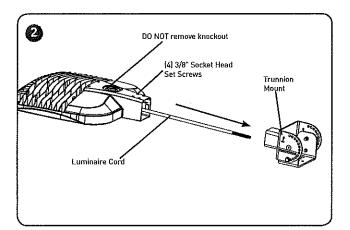
STEP 5

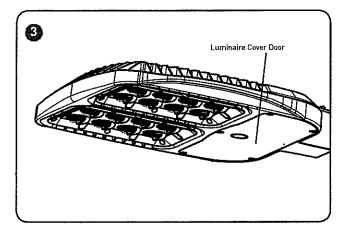
Secure the trunnion mount to the mounting surface using customer supplied hardware. Ensure that the fasteners and torque are suitable for the installation

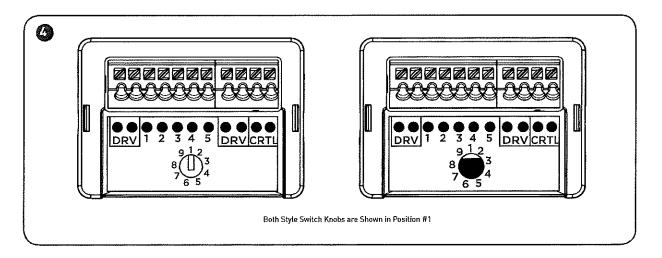
STEP 6

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" Atlen 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:

2 of 3

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 tuminaire 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:

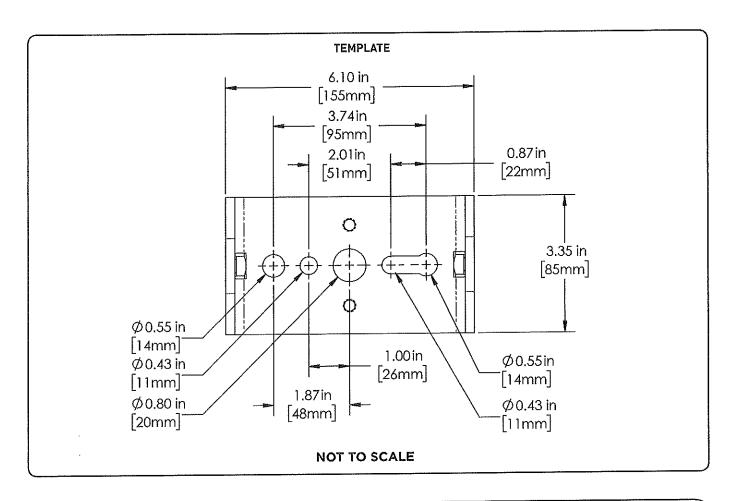
The Dimming module is tocated inside the luminaire. Open the luminaire door cover by loosening the [5] screws. See Figure 3.

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.



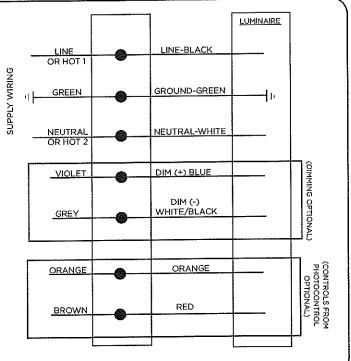
ELECTRICAL CONNECTIONS

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:

- 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).
- Connect the green or green/yellow ground lead to ground.
- If Dimming is an option; connect the blue dimming positive fixture lead to the supply dimming positive lead.
- 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.



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CREE & LIGHTING

OSQ Series

LED Area Light

Adjustable Arm Mount

IMPORTANT SAFEGUARDS

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

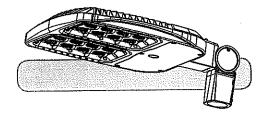
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- DANGER- Risk of shock- Disconnect power before installation.
 DANGER -- Risque de choc -- Couper l'alimentation avant l'installation.
- 2. This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar 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'étes 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.

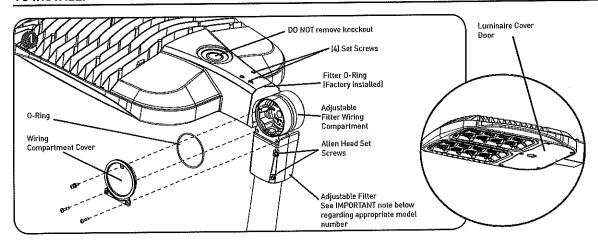
INSTALLATION INSTRUCTIONS INSTRUCTIONS D'INSTALLATION



NOTE:

 DO NOT remove the knock out on the top of the luminaire (See Figure 1 below). 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.

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.

IMPORTANT: For applications requiring ANSI C136.31-2001 3G vibration certification, ensure that existing or new adjustable arm mount model number matches OSQ-B-AA for all OSQ targe housing luminaires with power designations "S", "T", and "U".

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.

Torque set screws to 85 in-lbs (9.6 Nom).

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:

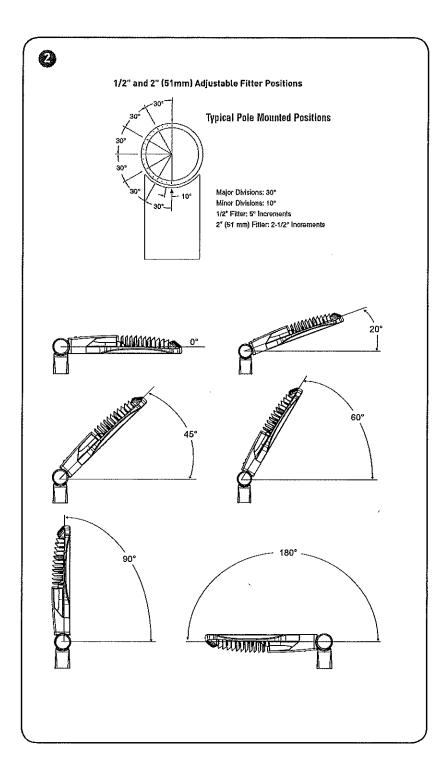
Strain relief is required for electrical connections on the adjustable fitter mount for mount heights of 25' (7.6 m) and higher. Tie a knot in the supply wires above the hole in the adjustable fitter wiring compartment to reduce the strain on the connections. Make sure that the knot will not slip through hole.

STEP 7:

Slip adjustable fitter over 2-3/8" [60 mm] 0.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)

NOTE: When inserting a control unit into the nema receptacte 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:

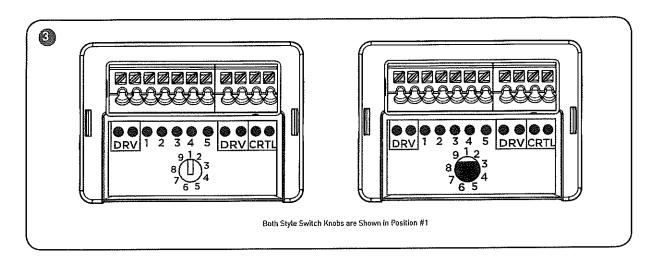
Rotational adjustment of the photocontrol receptacle is tool-less. DO NOT loosen/tighten the screws securing the receptacle to the housing.

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.



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 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.

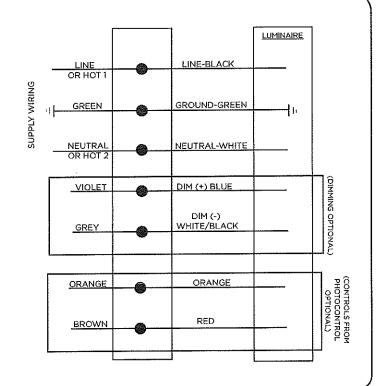
ELECTRICAL CONNECTIONS

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:

- 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).
- Connect the green or green/yellow ground lead to ground.
- 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.
- q. Connect red fixture lead to brown supply lead.



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