

AL-LED-X2-OSA-XXXPS-8CSB-NM

AREA LIGHTS WITH SWAPPABLE OPTICS

INSTALLATION INSTRUCTIONS

PLEASE FIND A QUALIFIED ELECTRICIAN FOR INSTALLATION. Please read the instructions before you install and use the area light.

APPLICATION

Pole-mount, tenon-mount, or structure-mount outdoor illumination needs (including parking lots, auto dealerships, pathways, roadways, recreational venues, and other general area lighting requirements)

SAFETY AND ELECTRICAL PARAMETERS

Warning

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards, read all warnings and instructions included with and on the fixture box and fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Commercial installation, service, and maintenance of luminaires should be performed by a qualified licensed electrician.
- If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician. **Please abide by all federal, state, and local code requirements and regulations when installing this luminaire.** Wiring must be in accordance with NEC and all applicable local codes.
- Do not make or alter any unnecessary holes in an enclosure of wiring or electrical components during the installation.

Warning

- Turn off electrical power at the fuse or circuit breaker box before wiring fixture to the pole/site/building power.
- Turn off the electrical power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information. Do not install with supply voltage that exceeds the rated input voltage of the luminaire.
- All wiring connections should be capped with UL approved wire connectors.

Caution

- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy/recycle packaging material, as these may be hazardous to children.
- Risk of burn. Disconnect power and allow fixture to cool before handling/servicing.

Notice

- All fixture installs must be properly grounded.
- Minimum of -40°C/-40°F supply conductors. Supply conductor range: -40°C/-40°F to 50°C/122°F
- Specifications and dimensions subject to change without notice.
- Fixture is IP65 Rated. Suitable for WET LOCATIONS.
- Ensure ambient operating temperature is maintained:
 - without sensor: -40°C/-40°F to 50°C/122°F
 - with sensor: -30°C/-22°F to 50°C/122°F
 Exceeding these temperature ranges will void warranty and may reduce lifetime or cause performance issues.
- Inspect fixture for any damages before installing. If there is any damage, please do not install and contact authorized distributor for resolution.

COMPONENTS INCLUDED IN KIT

Part	Quantity
LED area light fixture	1
Type 3 lens*	1
Type 5 lens	1

* Note: Type 3 lens is already installed in the fixture. To install Type 5 lens, please see instructions on following pages.

Caution: Before installing, make certain that AC power to the fixture is off.

INSTRUCTIONS D'INSTALLATION

VEUILLEZ FAIRE APPEL À UN ÉLECTRICIEN QUALIFIÉ POUR L'INSTALLATION. Merci de lire les instructions avant d'installer et d'utiliser le projecteur.

APPLICATION

Besoins d'éclairage extérieur sur poteau ou sur structure (y compris les parkings, les concessions automobiles, les allées, les routes, les lieux de loisirs et autres besoins généraux en éclairage de zone)

PARAMÈTRES DE SÉCURITÉ ET ÉLECTRIQUES

Avertissement

- Pour réduire les risques de décès, de blessures corporelles ou de dommages matériels causés par un incendie, un choc électrique, la chute de pièces, des coupures/égratignures ou d'autres dangers, lisez tous les avertissements et instructions fournis avec la boîte du luminaire et les étiquettes du luminaire.
- Avant d'installer, d'entretenir ou d'effectuer une maintenance régulière sur cet équipement, suivez ces précautions générales.
- L'installation, l'entretien et la maintenance des luminaires en milieu commercial doivent être effectués par un électricien qualifié et agréé.
- Si vous avez des doutes concernant l'installation ou la maintenance des luminaires, consultez un électricien qualifié et agréé. **Veillez respecter toutes les exigences et réglementations des codes fédéraux, d'État et locaux lors de l'installation de ce luminaire.** Le câblage doit être conforme au NEC et à tous les codes locaux applicables.
- Ne percez ni ne modifiez de trous inutiles dans un boîtier contenant des fils ou des composants électriques pendant l'installation.

Avertissement

- Coupez l'alimentation électrique au niveau du fusible ou du disjoncteur avant de raccorder le luminaire à l'alimentation du poteau, du site ou du bâtiment.
- Coupez l'alimentation électrique lorsque vous effectuez toute opération de maintenance.
- Vérifiez que la tension d'alimentation est correcte en la comparant aux informations figurant sur l'étiquette du luminaire. N'installez pas avec une tension d'alimentation qui dépasse la tension d'entrée nominale du luminaire.
- Toutes les connexions de câblage doivent être protégées avec des connecteurs de fils homologués UL.

Attention

- Évitez l'exposition directe des yeux à la source lumineuse lorsqu'elle est allumée.
- Veillez à récupérer les petites pièces et à détruire ou recycler les matériaux d'emballage, car ils peuvent être dangereux pour les enfants.
- Risque de brûlure. Coupez l'alimentation et laissez le luminaire refroidir avant de le manipuler ou de l'entretenir.

Avis

- Toutes les installations de luminaires doivent être correctement mises à la terre.
 - Conducteurs d'alimentation minimum de -40 °C / -40 °F. Plage de température des conducteurs d'alimentation: de -40 °C / -40 °F à 50 °C / 122 °F.
 - Les spécifications et dimensions sont susceptibles d'être modifiées sans préavis.
 - Le luminaire est classé IP65. Convient pour les EMPLACEMENTS MOUILLÉS.
 - Assurez-vous que la température ambiante de fonctionnement est maintenue:
 - sans capteur: -40 °C / -40 °F à 50 °C / 122 °F
 - avec capteur: -30 °C / -22 °F à 50 °C / 122 °F
- Le dépassement de ces plages de température annulera la garantie et peut réduire la durée de vie ou provoquer des problèmes de performance.
- Inspectez le luminaire pour détecter tout dommage avant l'installation. En cas de dommage, ne procédez pas à l'installation et contactez un distributeur agréé pour résoudre le problème.

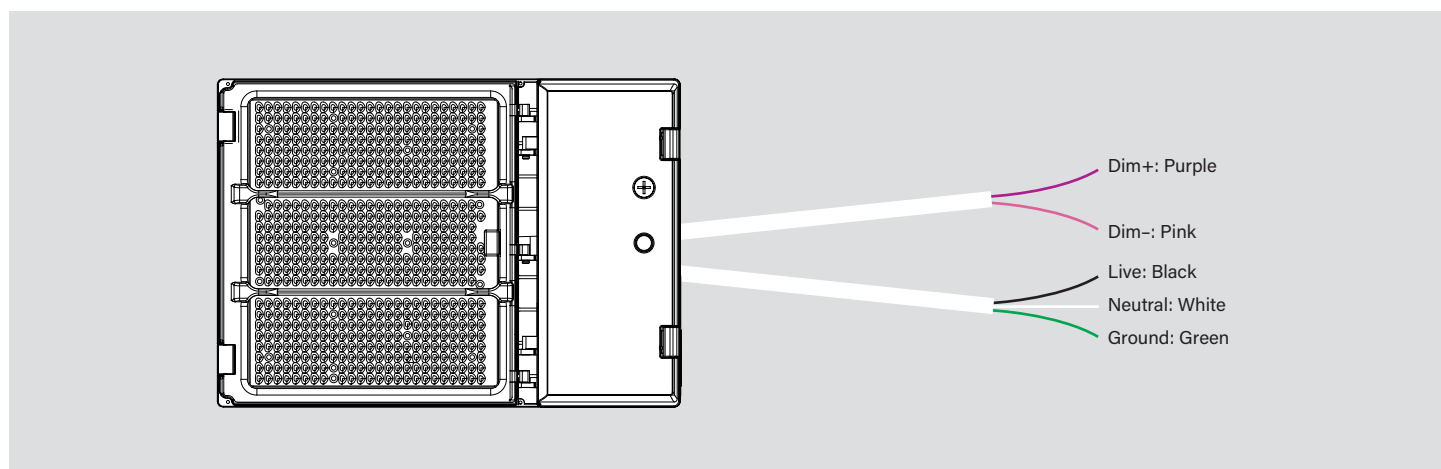
COMPOSANTS INCLUS DANS LE KIT

Part	Quantity
LED area light fixture	1
Type 3 lens*	1
Type 5 lens	1

* Remarque : La lentille de type 3 est déjà installée dans le luminaire. Pour installer une lentille de type 5, veuillez consulter les instructions aux pages suivantes.

Attention: Avant l'installation, assurez-vous que l'alimentation en courant alternatif du luminaire est coupée.

WIRING DIAGRAM



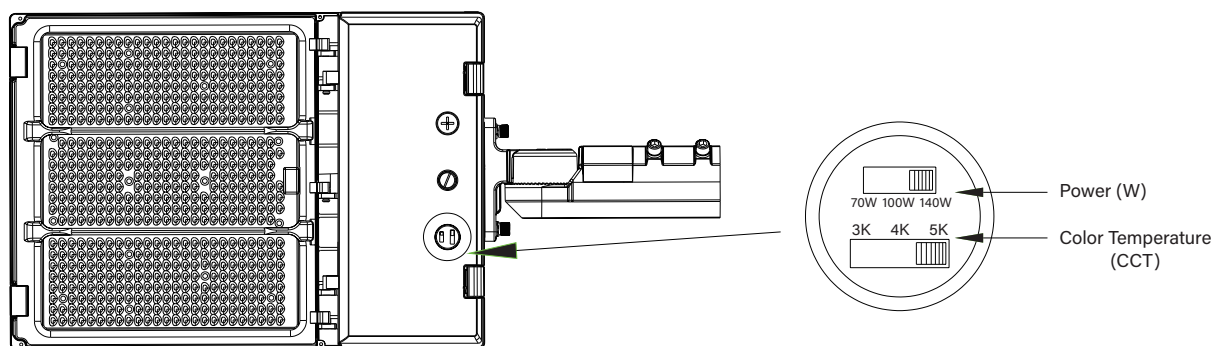
Note: *In accordance with NEC-20 410.69 2022, all 0-10V negative wires have been updated from gray to pink.

- All fixtures come pre-wired with a 7-pin twist lock receptacle with shorting cap and surge protector. Make input connections as needed and ensure connections are protected from exposure to the elements.
- **THIS AREA LIGHT REQUIRES 120-277 INPUT VOLTAGE**
- Ensure that input voltage on site matches the fixture you intend to install.

WATTAGE AND CCT SELECTION INSTRUCTIONS

Wattage and CCT Selection Instructions

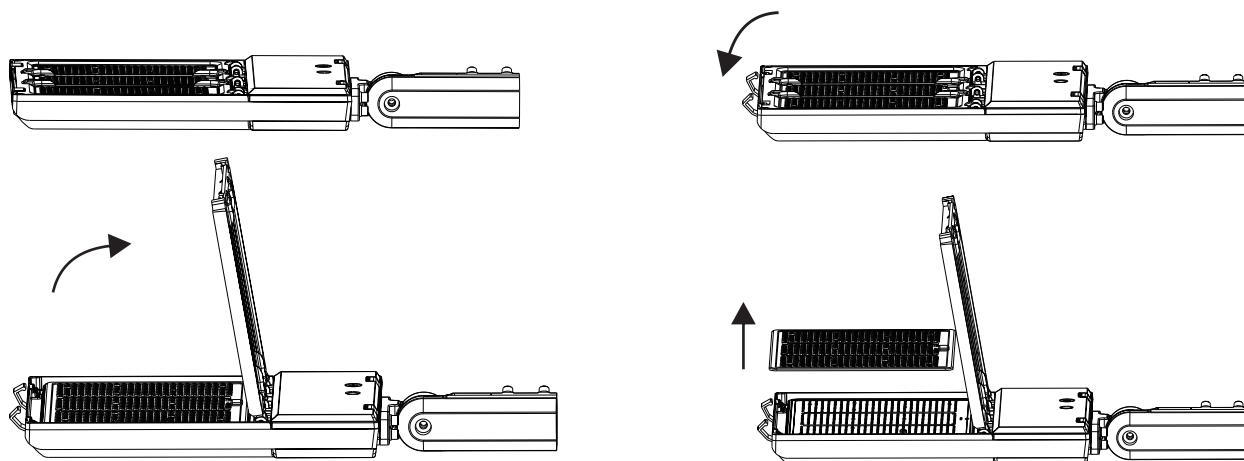
1. Turn off power to the fixture.
2. Remove the knockout (KO) on the left side of the fixture.
3. Adjust the wattage and CCT dip switches to desired settings.
4. Add the KO back to the fixture, and restore power.



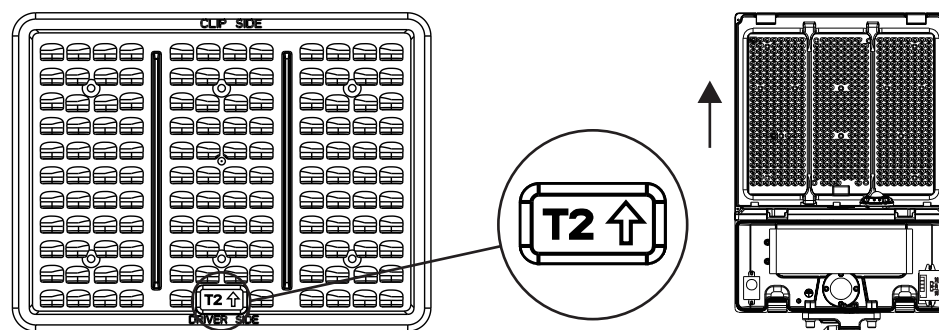
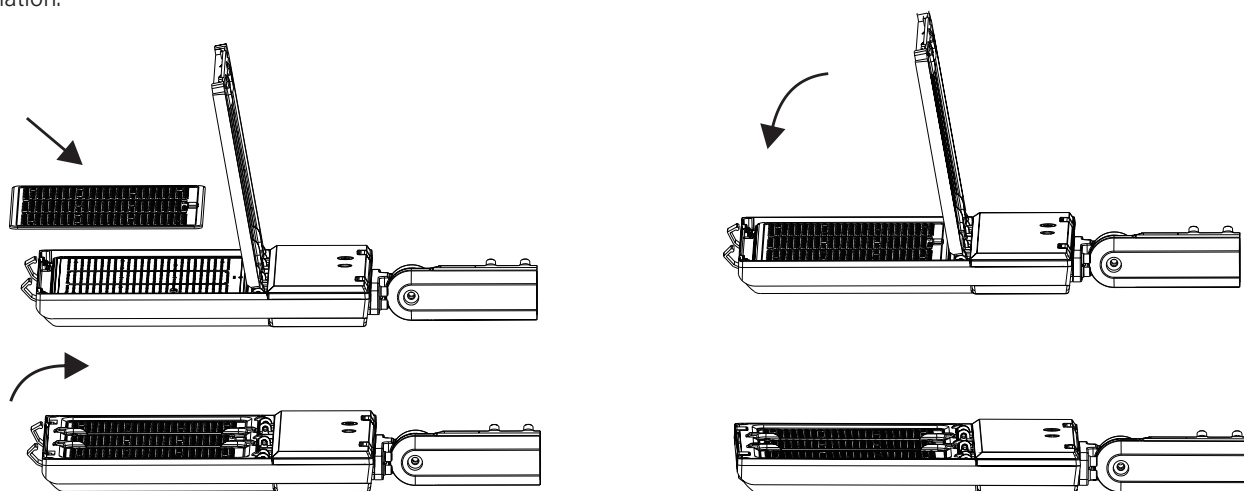
** Wattages shown above are for reference only. Different SKUs will have different wattages.

TOOL-FREE SWAPPABLE OPTICS

1. Remove the fixture from the packaging. Open the door frame by unbuckling the latches, and remove the pre-installed lens.



2. Insert the new lens and ensure it is positioned in the proper location. Close the door frame, buckle the latches, and proceed with installation.



Note: When installed in the correct orientation, arrow should face the front of the fixture.

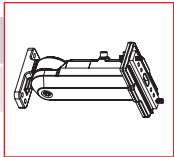
IMPORTANT! Disconnect source power to fixture before changing the lens. If not disconnected, power to the light-emitting diodes will be cut when the door frame is open.

MOUNTING BRACKET OPTIONS (SOLD SEPARATELY)

Universal Slipfitter Mount

Fits 2 3/8" tenon OR square pole OR round pole

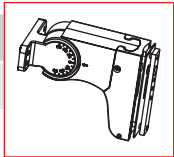
Catalog Number	UPC	Easy Code
KT-ALED-USF-1-KIT	843654173740	PAS-59



Adjustable Pole Mount

For round OR square pole

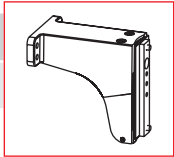
Catalog Number	UPC	Easy Code
KT-ALED-PMA-1-KIT	843654131634	DAQ-87



Fixed Pole Mount

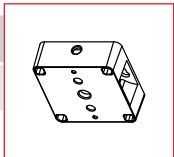
For round OR square pole

Catalog Number	UPC	Easy Code
KT-ALED-PM-1-KIT	843654131627	QVG-29



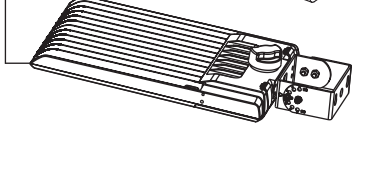
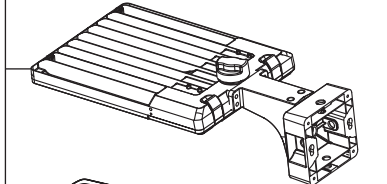
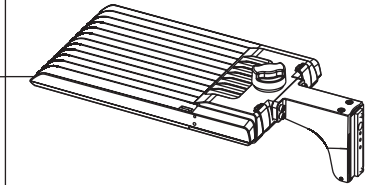
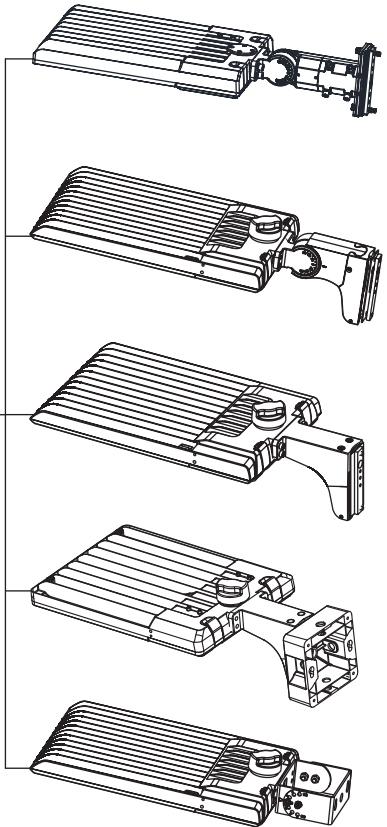
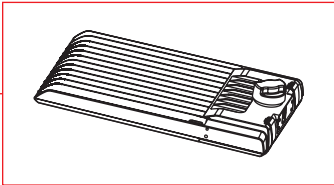
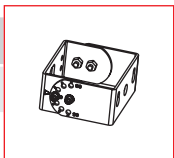
Wall Mount

Catalog Number	UPC	Easy Code
KT-ALED-WM-1-KIT	843654158952	QCV-37



Trunnion Mount

Catalog Number	UPC	Easy Code
KT-ALED-TM-1-KIT	843654131658	GTH-37



Note: Wall mount adaptor must be used with adjustable or fixed pole mounts

INSTALLATION INSTRUCTIONS

UNIVERSAL SLIPFITTER

FIXTURE INSTALLATION

Mounting Bracket Installation

1. Separate the slipfitter assembly into two pieces by removing the M10 × 40mm bolt in the center of the adjustment knuckle. (Figure 1)
2. Pass the input wire through the center of the two sections and secure the bracket to the fixture housing with the (4) M8 × 25mm bolts (included). (Figure 2)
3. Reassemble the slipfitter assembly pieces together by tightening the M10 × 40mm bolt in the center of the adjustment knuckle. (Figure 3)

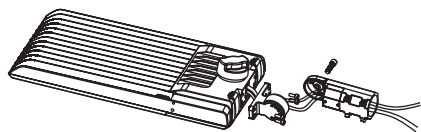


Figure 1

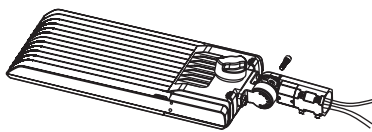


Figure 2

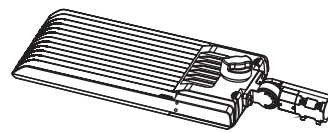


Figure 3

Mounting to a Tenon

1. Remove the pole mount adaptor from the slipfitter, if not already removed during **Mounting Bracket Installation**. (Figure 5)
2. Loosen the four bolts on the slipfitter cover, connect the wires to source power, and push them into the tenon. (Figure 6)
3. Place the slipfitter onto the tenon and tighten bolts. (Figure 6)

Note: Adjustable angle range is $\pm 90^\circ$

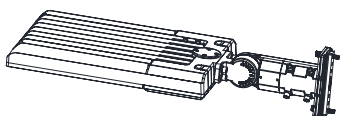


Figure 4

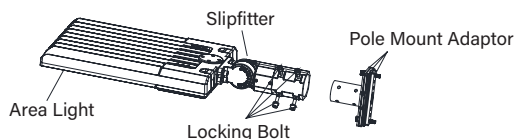


Figure 5

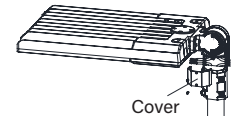


Figure 6

Mounting to a Pole

1. Remove the four bolts from the slipfitter. Remove the two bolts from the pole mount adaptor and separate its components. Set aside the round pole mount adaptor.
2. Secure the provided tenon to the pole using the installation bar and both rubber gaskets. (Figure 8) Open the cover to the slipfitter junction box area. Pull wires from the fixture and from source power, and connect properly. Close the junction box cover.

Note: Adjustable angle range is $\pm 90^\circ$

When affixing to a round pole, use the round pole mount adaptor (provided). (Figure 9)

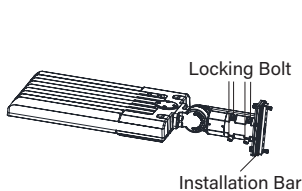


Figure 7

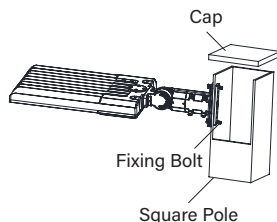


Figure 8

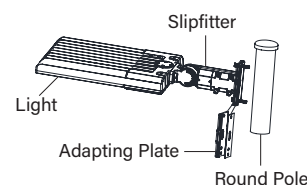


Figure 9

(Installation Instructions continued on next page)

INSTALLATION INSTRUCTIONS (continued)**ADJUSTABLE POLE MOUNT****MOUNTING BRACKET INSTALLATION**

1. Separate the adjustable pole mount assembly into three pieces by removing the M10 × 35mm bolt in the center of the adjustment knuckle and loosening the two set screws. (Figure 10)
2. Pass the input wire through the center of the first two sections and secure the bracket to the fixture housing with the (4) M8 × 25mm bolts (included). (Figure 10)
3. Reassemble the first two sections of the adjustable pole mount assembly by tightening the M10 × 35mm bolt in the center of the adjustment knuckle. Leave the third section of the assembly off as that will be installed on the pole separately. (Figure 11)

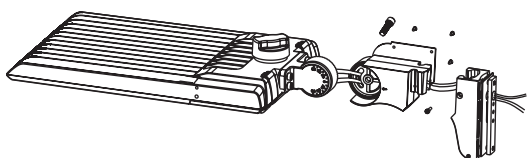


Figure 10

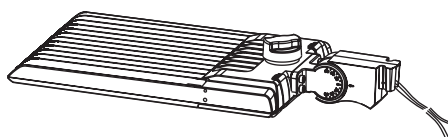


Figure 11

FIXTURE INSTALLATION

Pole mount kits are designed to fit both square and round poles. For round poles, remove the rubber adaptor plate from the mounting assembly.

1. Ensure power is off to the fixture.
2. Mount the base of the pole mount kit to the pole with M8 × 50mm bolts (included). The base has hole patterns that are compatible with most existing pole drill holes. If necessary, drill new holes in pole. (Figure 12)
3. Feed supply wires from inside the pole through the mounting bracket base. (Figure 12)
4. Open the wiring access plate on the pole mount assembly.
5. Install the fixture/pole mount assembly onto the pole mount base from the top down, and feed wiring into the wiring access area accordingly. (Figure 13)
6. Complete wiring to input power wires (see **Wiring Diagram**, page 3) and tuck all wiring inside pole mount assembly housing.
7. Close the wiring access plate on the pole mount kit. (Figure 13)
8. Adjust the tilt-angle (0°–45°) of the fixture by loosening the M10 × 35mm socket head screw on the rotating adjustment knuckle; 15-degree indicators are on the fixture for reference. Re-tighten socket-head screw when tilt-angle is correct.
9. Reconnect power when ready.

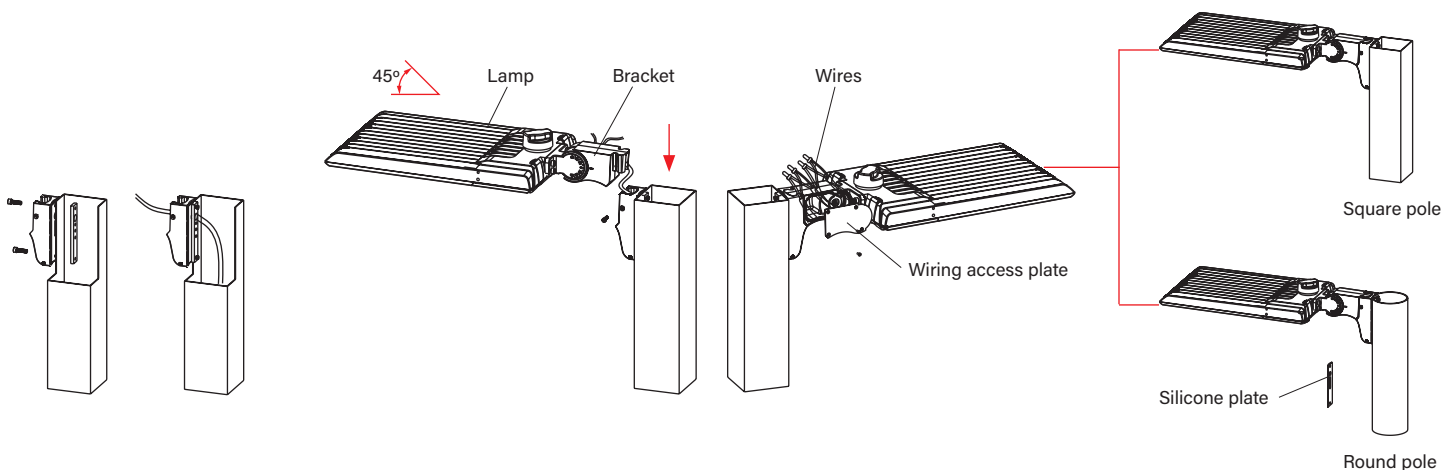


Figure 12

Figure 13

(Installation Instructions continued on next page)

INSTALLATION INSTRUCTIONS (continued)**FIXED POLE MOUNT****MOUNTING BRACKET INSTALLATION**

1. Separate the pole mount assembly into three pieces by removing the M8 × 25mm bolt in the center of the adjustment knuckle and loosening the two set screws. (Figure 14)
2. Pass the input wire through the center of the first two sections and secure the bracket to the fixture housing with the (4) M8 × 25mm bolts (included). (Figure 14)
3. Reassemble the first two sections of the pole mount assembly by tightening the M8 × 25mm bolt in the center of the adjustment knuckle. Leave the third section of the assembly off as that will be installed on the pole separately. (Figure 15)

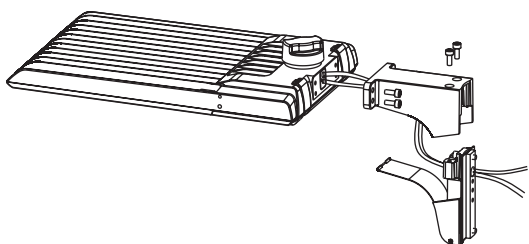


Figure 14

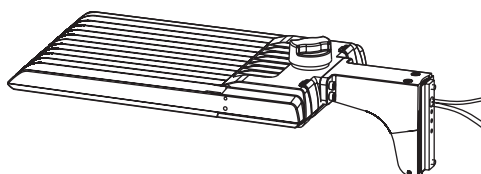


Figure 15

FIXTURE INSTALLATION

Pole mount kits are designed to fit both square and round poles. For round poles, remove the rubber adaptor plate from the mounting assembly.

1. Ensure power is off to the fixture.
2. Mount the base of the pole mount kit to the pole with M8 × 25mm bolts (included). The base has hole patterns that are compatible with most existing pole drill holes. If necessary, drill new holes in pole. (Figure 16)
3. Feed supply wires from inside the pole through the mounting bracket base. (Figure 16)
4. Open the wiring access plate on the pole mount assembly.
5. Install the fixture/pole mount assembly onto the pole mount base from the top down, and feed wiring into the wiring access area accordingly. (Figure 17)
6. Complete wiring to input power wires (see **Wiring Diagram**, page 3) and tuck all wiring inside pole mount assembly housing.
7. Close the wiring access plate on the pole mount kit. (Figure 17)
8. Reconnect power when ready.

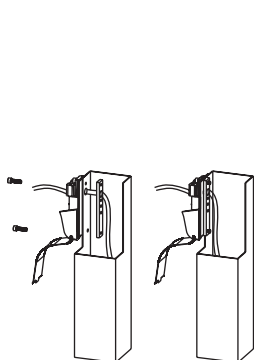


Figure 16

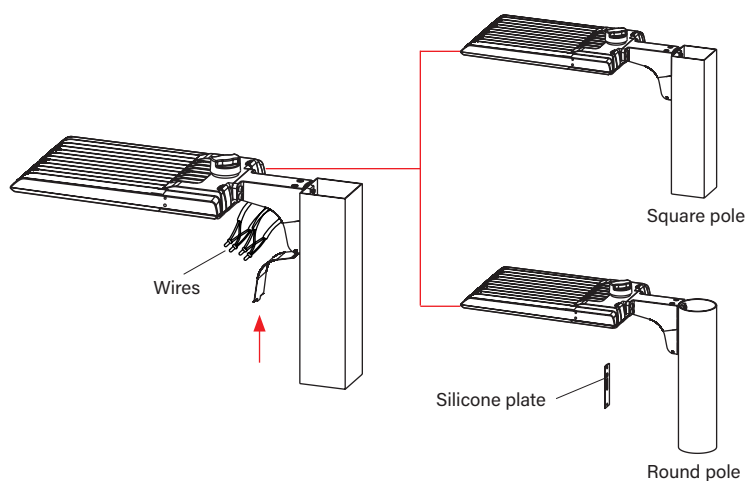
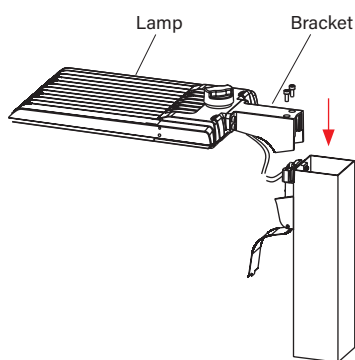


Figure 17

(Installation Instructions continued on next page)

INSTALLATION INSTRUCTIONS (continued)**WALL MOUNT****FIXTURE INSTALLATION**

1. Drill holes into desired surface. (Figure 18)
2. Put expansion bolts (provided) into the drilled holes and loosen the nuts. (Figure 18)
3. Feed supply wires through opening in the wall. (Figure 18)
4. Secure the fixture to the wall mount kit with (2) screws (provided). (Figure 19)
 - 4a. Wall mount adaptor **MUST** be used with either a fixed or adjustable pole mount accessory.
See above Adjustable Pole Mount or Fixed Pole Mount instructions on how to install.
5. Connect the fixture leads to supply wires using UL listed wire connectors and according to local, state, and federal codes. Push all wires into the wall mount kit. (Figure 20)
6. Mount the kit, with the fixture attached, on to the expansion bolts and secure with the nuts from Step 2. (Figure 21)
7. For conduit entry, remove the conduit cap and feed supply wires through the opening. Follow Steps 5 and 6 to complete installation.

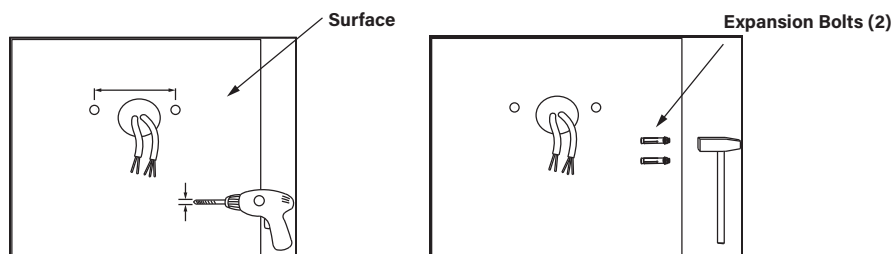


Figure 18

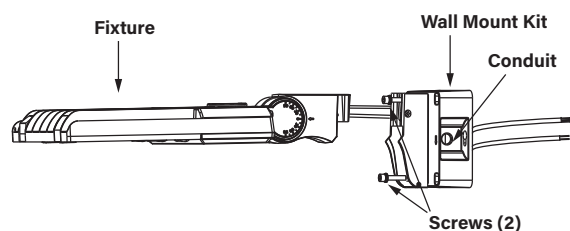


Figure 19

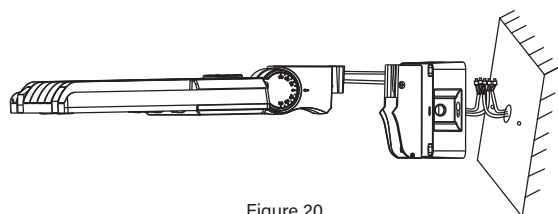


Figure 20

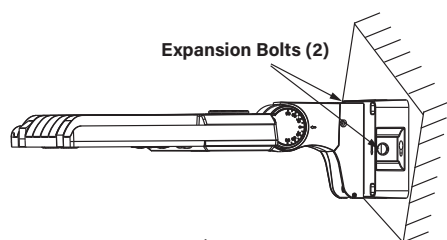


Figure 21

(Installation Instructions continued on next page)

INSTALLATION INSTRUCTIONS (continued)**TRUNNION MOUNT****MOUNTING BRACKET INSTALLATION**

1. Pass the input wire through the center of the trunnion mount and secure the bracket to the fixture housing with the (4) M8 × 20mm bolts (included). (Figures 22 & 23)

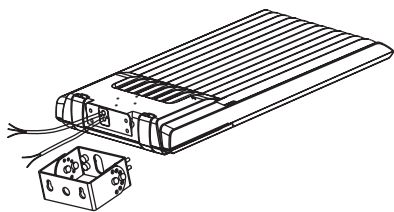


Figure 22

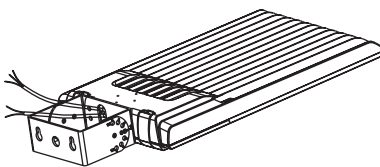


Figure 23

FIXTURE INSTALLATION

1. Ensure power is off to the fixture.
2. Mount the trunnion mount bracket to the fixture with an M8 socket and wrench using supplied hardware.
3. Mount fixture to desired bracketry and / or building fixture using suitable fasteners for the application: bolts, lockwashers, and nuts (not supplied).
4. Fixture includes a 19" long 18AWG power supply cord. If final wiring is to be outdoors, a UL Listed watertight cord connector, suitable for use with wet location flexible cord (not supplied), is required for installation onto a wet-location outdoor junction box. Connector should be sealed with Teflon tape or a silicone sealant at entry to junction box. **Note:** to reduce risk of water entry, install cord connector so that the power cord faces the ground within the junction box.
5. Complete wiring to input power wires (see **Wiring Diagram**, page 3).
6. To adjust tilt-angle (0°–90°) of fixture, loosen hardware on both sides of the trunnion using an M8 socket and wrench. Retighten screws to secure desired position.
7. Reconnect power when ready.

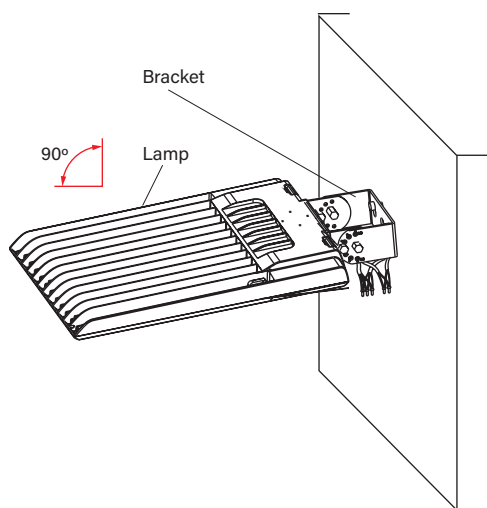


Figure 24

(Installation Instructions continued on next page)

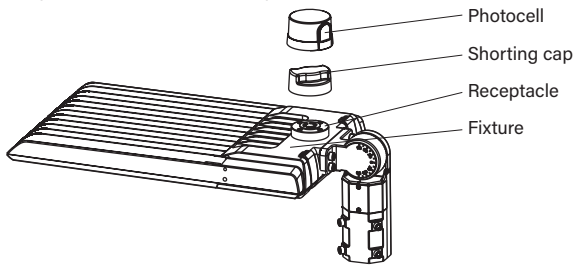
INSTALLATION INSTRUCTIONS (continued)**PHOTOCELL (SOLD SEPARATELY)**

These fixtures are compatible with NEMA/ANSI C136.10-2010 twist lock 3-pin photocells. Corresponding 7-pin receptacle is pre-installed and pre-wired on fixture housing by default. Ensure photocell to be used matches rated input voltage of fixture.

Twist Lock 3-Pin Photocell

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KT-TLP-UV-3PN	120-277V 1800VA Max Blue Housing	843654131825	NQT-46

1. Ensure power is off to the fixture.
2. Remove existing twist lock shorting cap from the receptacle.
3. Push the photocell onto the receptacle and twist clockwise to lock it into the receptacle.
4. For optimal performance, install the photocell with sensor detector window facing **North** as indicated on the top of the photocell. Adjust the receptacle positioning if necessary, while being sure to secure fully for proper water-tight install.
5. Re-connect power when ready.
(see illustration below)

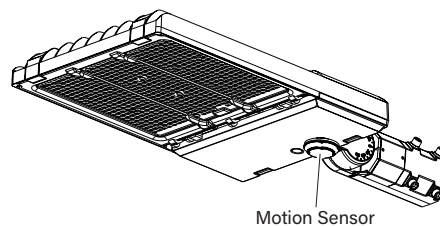
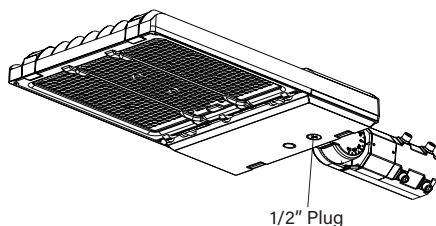
**MOTION SENSOR (SOLD SEPARATELY)**

These fixtures are compatible with with KTS-MW3-12V-PKO, screw-in microwave occupancy sensor. See sensor specifications for default settings and options. Mating sensor receptacle is pre-wired inside the fixture by default.

Microwave Occupancy Sensor

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KTS-MW3-12V-PKO	12V Microwave Occupancy Sensor	843654135212	TRM-32

1. Ensure power is off to the fixture.
2. Remove 1/2" knock-out (KO) plug on the driver access door.
3. Screw in sensor head.
4. Reconnect power when ready.
(see illustrations below)



5. Program desired settings as needed with KTS-MW3-REMOTECONTROL, remote control.

REMOTE CONTROL (SOLD SEPARATELY)

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KTS-MW3-REMOTECONTROL	Remote control for KTS-MW3-12V-XX sensors Sets and adjusts all sensor performance parameters	843654132020	XSR-61

(Installation Instructions continued on next page)

INSTALLATION INSTRUCTIONS (continued)**BLUETOOTH SENSORS (SOLD SEPARATELY)**

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KTSL-FC3-12V-PKO-PIR*	Bluetooth mesh wireless screw-in LED controller for SmartLoop system Integrated daylight sensor PIR motion sensor	843654138862	OCW-60
KTSL-FC4-12V-PKO	Bluetooth mesh wireless screw-in low voltage fixture controller for SmartLoop system	843654149066	RUN-10

* When installing on area lights, use small thin gasket provided with the sensor to ensure proper electrical connection and a water-tight seal. Hand tighten only. (Do NOT use the larger thick gasket. Sensor will not make electrical contact with thick gasket.) PIR sensors may not always perform reliably in typical outdoor environments. Ensure sensors are used and commissioned with this in mind. When using KTSL-FC3-12V-PKO-PIR in applications with photosensor control for dusk-to-dawn, use 3-pin twist-lock photocells (KT-TLP-UV-3P) for optimal functionality.

ORDERING INFORMATION

CATALOG NUMBER	UPC	EASY CODE
AL-LED-M2-OSA-140PS-8CSB-NM	843654173702	PAE-77
AL-LED-L2-OSA-290PS-8CSB-NM	843654173726	UEE-57

SAVE THESE INSTRUCTIONS