

INSTALLATION INSTRUCTIONS

IMPORTANT: Read before installing fixture. Retain for future reference.

WARNING: Make certain power is **OFF** before starting installation or attempting any maintenance.



GENERAL: Upon receipt of pole thoroughly inspect for any freight damage, which should be brought to the attention of the delivery carrier. Compare the catalog description listed on the packing slip with the label on the pole to be sure the correct merchandise has been received.

SAFETY: This pole must be grounded in accordance with the National Electrical Safety Code and applicable local codes and ordinances. Proper grounding is required to insure personal safety. Carefully observe grounding procedure under installation section. This pole is not suitable for Hazardous or Classified Locations. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. Consult a qualified electrician to ensure correct branch circuit conductor.

ANCHOR BOLTS

1. Only bolt and nut kits supplied by Cooper Lighting should be used.
2. Existing anchor bolts, nuts, or bolt adapters supplied by other than Cooper Lighting should not be used. If they are, Cooper Lighting assumes no responsibility in case of bolt or adapter failure. Fasteners not suitable for this application can result in bolt and/or thread failure and consequent collapse of the pole.

CAUTION: USE OF NUTS FROM OTHER MANUFACTURERS WITH COOPER LIGHTING BOLTS MAY RESULT IN THREAD FAILURE CAUSED BY IMPROPER THREAD FIT.

3. In addition to electrical conduit and other equipment necessary to the installation, the foundation bolts should be cast into concrete, in conformance with the template drawing supplied with the anchor bolts for each particular pole.

CAUTIONS:

- A. Check all templates for dimensional accuracy before using them to locate bolt position in the foundation.
- B. Be certain that anchor bolts are properly located to provide the desired directional orientation of the pole.
- C. Be certain that the anchor bolts are plumbed vertically, and they extend above the finished surface of the foundation to the extent called for on the bolt template drawing.

FOUNDATIONS

Since local soil and frost conditions vary widely a Civil Engineer familiar with these conditions should be consulted regarding dimensions and depths of foundations.

POLE ERECTION AND FIXTURE INSTALLATION

1. All Cooper Lighting steel poles are to be installed using two nuts on each anchor bolt. The first nuts are to be run down on the thread to the top of the foundation and be checked using a hand level to ensure that the top surfaces of all these nuts are the same height. The pole should then be installed with its base plate holes over the bolts and the second nut screwed down to a moderate degree of tightness. The pole then should be checked and adjustments made to ensure that the pole is plumb. When this is satisfactory, tighten the top nuts to the proper torque values as shown using torque wrench.

Bolt Diameter in Inches	3/4"	1"	1-3/4"	1-1/2"
Recommended foot pounds of torque when nuts are not lubricated	105	250	500	870
Recommended foot pounds of torque when nuts are lubricated	78	190	380	650

2. With the exception of the instructions presented on this page, the procedures for fixture installation and pole erection are the responsibility of the installation contractor.

CAUTIONS: COOPER LIGHTING POLES HAVE BEEN DESIGNED TO SUPPORT ONLY THE LUMINAIRES AND EQUIPMENT ORIGINALLY INTENDED. MISCELLANEOUS ITEMS SUCH AS PENNANTS SIGNS AND DECORATIONS MAY CAUSE POLE FAILURE DUE TO OVERLOADING. ADDITION OF THESE ITEMS VOIDS COOPER LIGHTING'S WARRANTY. COOPER LIGHTING WILL, HOWEVER, SUPPLY INFORMATION ON TOTAL LOADING EPA ON REQUEST. COOPER LIGHTING'S POLES ARE GUARANTEED ONLY WHEN USED IN A POLE/ LUMINAIRE OR FLOODLIGHT COMBINATION. ANY OTHER APPLICATION OF POLES, INCLUDING APPLICATION WITHOUT A LUMINAIRE OR FLOODLIGHT, VOIDS COOPER LIGHTING'S WARRANTY.

These instructions do not claim to cover all details or variations in the equipment, procedure, or process described, nor to provide directions for meeting every possible contingency during installation, operation or maintenance. When additional information is desired to satisfy a problem not covered sufficiently for user's purpose, please contact your nearest representative. NOTE: Specifications and dimensions subject to change without notice.

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GROUNDING:

Poles must be grounded in accordance with requirements in the National Electrical Code and applicable Local Electrical Codes.

VIBRATION:

Many isolated wind conditions exist that can be devastating to poles and luminaires. Although rare, vibrations severe enough to cause damage can occur in structures of all types influenced by many interacting variables. Vibrations are generally unpredictable. Constant winds in the 10-30 m.p.h. range can severely damage certain poles by vibration and there is no single cure that will assure the prevention of all modes of vibration. Many factors may contribute to the development of a vibration problem. It is not, however, the result of defective material or workmanship and therefore not covered by the Cooper Lighting warranty. Vibration dampers that can help alleviate this condition can be supplied by Cooper Lighting either factory installed or for field installation. Cooper Lighting recommends that vibration dampers be considered when any of the following conditions exist:

1. Poles installed on a bridge structure, overpass, or parking ramp structure.
2. Pole having a fixture epa load of less than 0.5.
3. Camera support poles.
4. Locations that experience prevailing constant winds in the 10 to 30 m.p.h. range.
5. Any site that has history of vibration problems.
6. Areas specified as special wind zones (consult local authorities).
7. Locations near an airport, mountain foothills, great lakes, large open areas of flat ground or any other unique locations that may experience abnormal wind conditions.

NOTE: THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. FAILURE TO DO SO COULD RESULT IN STRUCTURAL FAILURE.

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