

# INSTALLATION INSTRUCTIONS

**IMPORTANT: READ CAREFULLY BEFORE INSTALLING LUMINAIRE.  
RETAIN FOR FUTURE REFERENCE.**

## ⚠ **WARNING**

- Make certain power is **OFF** before starting installation or attempting any maintenance.
- FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH.

**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.

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.

**Safety:** This pole must be grounded in accordance with the National Electrical Safety Code and applicable local codes and

### **ANCHOR BOLTS**

1. Only bolt and nut kits supplied by Cooper Lighting should be used.
2. Existing anchor bolts 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.
3. Anchor bolt and nuts from other sources should be used only on the advice of a Structural Engineer. 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.
4. 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.

### **CAUTION:**

- 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 Ft. lbs. of torque when nuts are not lubricated	105	250	500	870
Recommended Ft. lbs. of torque when nuts are lubricated	78	190	380	650

2. When the installation is complete and confirmed to be correct, the void that appears between the base plate and concrete foundation is to be filled using a non-shrinking mortar grout. Then shape and finish to a neat appearance.
3. 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

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.



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**Poles  
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**2/15/08**

**IMI-484**

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### **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 because of 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.

### **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 mph 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 mph 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.

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.

	Tribute				Galleria				Vision Site			
	Single	Dual - 2 @ 180	Triple - 3 @ 90	Quad - 4 @ 90	Single	Dual - 2 @ 180	Triple - 3 @ 90	Quad - 4 @ 90	Single	Dual - 2 @ 180	Triple - 3 @ 90	Quad - 4 @ 90
<b>POLSS4APSA15</b>	100 MPH	100 MPH	100 MPH	100 MPH	-	-	-	-	-	-	-	-
<b>POLSS4APSA20</b>	100 MPH	100 MPH	100 MPH	90 MPH	100 MPH	90 MPH	-	-	100 MPH	100 MPH	100 MPH	90 MPH
<b>POLSS4APSA25</b>	100 MPH	90 MPH	80 MPH	80 MPH	90 MPH	-	-	-	100 MPH	90 MPH	80 MPH	80 MPH
<b>POLSS5APSA30</b>	90 MPH	80 MPH	80 MPH	-	80 MPH	-	-	-	90 MPH	80 MPH	80 MPH	-

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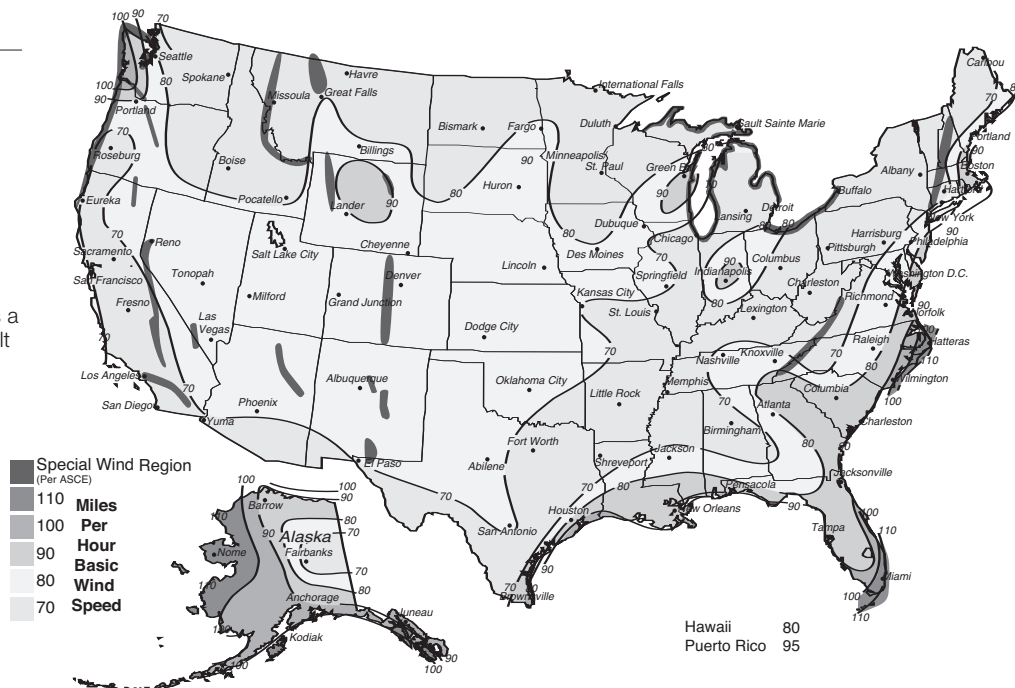
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### **ISOTACH WIND MAP**

This map has been included in this catalog in order to aid in the selection of a pole with regard to its geographic location. Although a less stringent 25-year mean recurrence map is sometimes used by other pole suppliers, it is our belief that the added measure of assurance offered in the use of this map deems it more desirable.

**NOTE:** This wind map is intended as a general guideline only. Consult local engineering standards to determine the exact wind loading conditions for your application.



### **WARRANTY AND OBLIGATIONS**

THE FOLLOWING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES. WHETHER EXPRESS, IMPLIED OR STATUTORY INCLUDING, BUT NOT BY WAY OF LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Cooper Lighting warrants to the customer for resale only that Cooper Lighting's products are free from defects in materials and workmanship. The obligation of Cooper Lighting under this warranty is expressly limited to repair or replacement without charge, at the sole option of Cooper Lighting of defective products within a period of one year from the date of shipment of products and only after Cooper Lighting has issued a Return Materials Authorization to customer for the products.

This warranty does not apply to Cooper Lighting products which have been altered or repaired or which have been subjected to neglect, abuse, misuse or accident (including shipping damages). THIS WARRANTY ALSO DOES NOT APPLY TO PRODUCTS NOT MANUFACTURED BY COOPER LIGHTING WHICH HAVE BEEN INSTALLED AND USED IN CONJUNCTION WITH COOPER LIGHTING PRODUCTS. This warranty specifically excludes fatigue or similar failure resulting from induced vibration, harmonic oscillation, or resonance associated with the movement of air currents around the pole.

### **LIMITATION OF LIABILITY**

IN NO EVENT SHALL COOPER LIGHTING BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, STRICT LIABILITY, OR IN TORT INCLUDING NEGLIGENCE) NOR FOR LOST PROFITS; NOR SHALL THE LIABILITY OF COOPER LIGHTING FOR ANY CLAIMS OR DAMAGE ARISING OUT OF OR CONNECTED WITH THIS AGREEMENT OR THE MANUFACTURE, SALE, DELIVERY, USE, MAINTENANCE, REPAIR OR MODIFICATION OF THE PRODUCTS, OR SUPPLY OF ANY REPLACEMENT PARTS THEREFORE, EXCEED THE PURCHASE PRICE OF THE PRODUCTS.

THIS LIMITATION OF LIABILITY SHALL APPLY TO ANY LIABILITY FOR DEFAULT UNDER OR IN CONNECTION WITH THE PRODUCTS, PARTS, OR SERVICES DELIVERED HEREUNDER WHETHER BASED ON WARRANTY. FAILURE OF OR DELAY IN DELIVERY, OR OTHERWISE NO LABOR CHARGES WILL BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL OF COOPER LIGHTING. THIS CLAUSE SHALL SURVIVE FAILURE OF AN EXCLUSIVE REMEDY.

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