



**KIM LIGHTING**

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626/968-5666 • FAX 626/330-3861



EL270  
BN275



EL170  
BN175

# Ravenna™ Installation Instructions

## INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS!

**WARNING:** Fixtures must be grounded in accordance with local codes or the National Electrical Code. Portable spear or tree mounts using a cord and plug must be plugged into a receptacle protected by a Ground Fault Circuit Interrupter (GFCI) in accordance with the National Electrical Code. Failure to take these steps may result in serious personal injury. **DO NOT** operate luminaire with missing or damaged lens.

**SAFETY WARNING:** Low voltage lamps can become very hot depending on the wattage used. Lighted lamp is **HOT!** Glass lenses and metal areas above and around the lamp can become hot enough to blister hands. Particular care should be taken not to locate fixtures where small children can reach them if higher wattages are used. To maintain light efficiency and prevent fixture overheating, glass lenses and enclosures must be kept clean and free of dirt, dust, leaves, trash and mineral deposits from water. For optimum performance a regularly scheduled maintenance program should be followed.

**CAUTION:** When relamping fixture avoid touching the lamp envelope with bare hands. If touching the lamp is necessary during installation, clean the envelope with alcohol and dry with a clean, soft cloth before burning. Contamination of the envelope may reduce lamp performance.

All electrical work should be done by a qualified electrician.

**KEEP THIS SHEET FOR FUTURE REFERENCE.**

Your KIM fixture is supplied with 1/2" NPSM male mounting threads.

**INSTALLATION INSTRUCTIONS:** **!** Make certain the electrical supply is **OFF** before starting fixture installation.

### Tools Required:

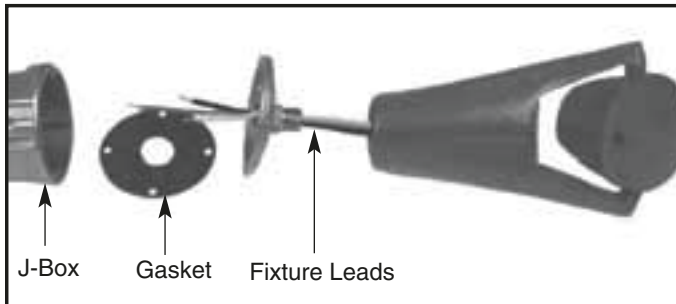
- 1/8" Hex Wrench
- 3/16" Hex Wrench
- Adjustable Wrench
- 5/64" Hex Wrench
- Thread Sealant
- Silicone Grease



**Step 1** - Coat coupling threads with thread sealant to keep moisture from entering junction box.



**Step 2** - Tighten coupling onto mounting device. (Consult KIM Landscape Catalog for mounting device options.)



**Step 3** - Thread fixture leads through coupling and install fixture. Attach fixture leads to circuit leads observing polarity, i.e., green-to-ground, white-to-common, and black-to-voltage.



**Step 4** - Loosen two allen head screws and remove fixture head cap carefully ensuring socket wires are not damaged.

# Ravenna™ - EL170 / EL270 & BN175 & BN275 Installation Instructions



**Step 5** - Install lamp of type and wattage shown on fixture label .  
**\*\* DO NOT** exceed lamp wattage.



**Step 6** - Loosen screw, adjust fixture angle and tighten screw. Coat cap screws with silicone grease and install cap.



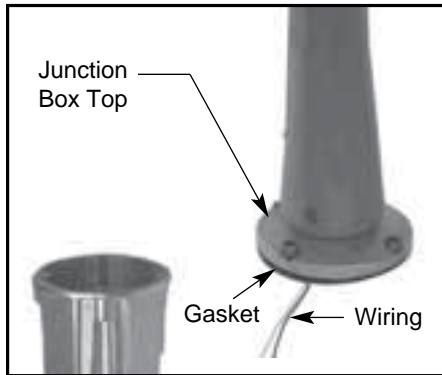
**Step 7** - Rotate fixture into selected orientation and tighten setscrew using 1/8" allen wrench.

When fixtures are aimed up, particular care should be taken to keep lens free of debris and mineral deposits. When fixtures are in an area where debris or mineral deposits are likely to be a problem, lower wattage lamps should be used, and lenses should be cleaned on a regular maintenance schedule.

<b>**LAMP INFORMATION</b>		
CAT. No.	LAMP TYPE	MAX. WATTS
EL170 / BN175	MR16 Bipin	50
EL270 / BN275	Halogen	

## RAVENNA TRANSFORMER REPLACEMENT / INSTALLATION INSTRUCTIONS:

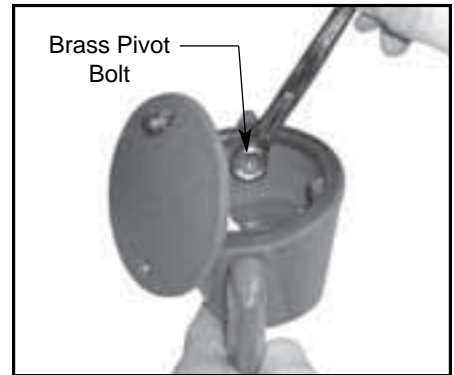
**!** Make certain the electrical supply is **OFF** before starting transformer replacement.



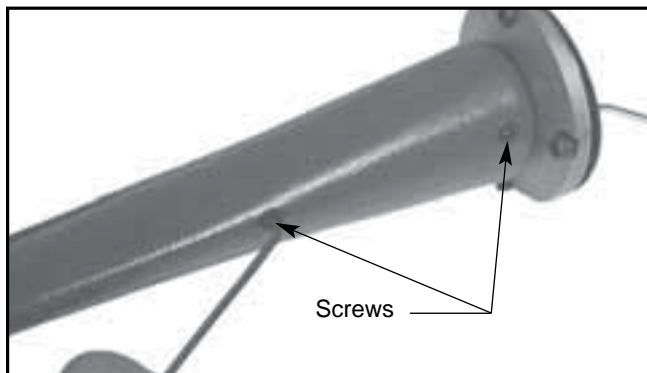
**Step 1**- Remove top of junction box and disconnect wiring splices.



**Step 2** - Remove top cap from fixture.



**Step 3** - Remove brass pivot bolt opposite wiring.



**Step 4** - Remove screws (2) from side of fixture.



**Step 5** - Remove half fixture. Remove transformer and replace with new transformer. Reassemble fixture in opposite order.

## KIM LIGHTING LIMITED WARRANTY

When installed in accordance with Kim Installation Instructions and accepted trade practices, the following shall apply:

### General Product Limited Warranty Coverage

All material and component parts used in the manufacture of Kim Products, are warranted to be free from defects of material and/or workmanship for a period of 1 year from date of sale, with the following exceptions:

### Auxiliary Equipment:

All auxiliary equipment (such as lamps, ballasts, and transformers) provided by and/or included in Kim Products shall carry the components manufacturer's warranty.

### Copper, Bronze and Brass Landscape Components

Copper and Bronze Landscape fixture components shall be warranted against defects of material and/or workmanship, and failure due to corrosion, for a period of 25 years from date of sale.

Kim Lighting's brass components are constructed from several brass parts that are manufactured by various methods at various times. Since brass naturally deepens in color as it ages through the normal oxidation process, these parts may exhibit subtle differences in coloration when the product is new. This is normal and expected. These color differences will be eliminated shortly after installation through the normal brass oxidation process.

### Composite In-Grade Components

Composite In-Grade fixture components installed below grade, shall be warranted against defects of material and/or workmanship, and failure due to corrosion, for a period of 7 years from date of sale.

### Aluminum Landscape Components

Aluminum Landscape fixture components not in direct contact with soil, shall be warranted against defects of material and/or workmanship for a period of 3 years from date of sale. Aluminum fixture components in direct contact with soil shall be warranted from defects of material and failure from corrosion for a period of 1 year from date of sale.

### Limit of Liability and General Conditions

Only products which are installed, used and maintained in accordance with applicable Kim instructions, specifications and accepted trade practices, are covered by the Kim Warranty. During the warranty period, with proof of purchase, Kim will repair or replace with the same or similar product, at Kim's option without charge. Labor costs are the owner's responsibility and are excluded from this warranty. This warranty is void if the product is modified, tampered with, misapplied, poorly installed, improperly maintained, or subjected to abnormal conditions.

Repair or replacement as provided under this warranty is the exclusive remedy of the purchaser. This warranty is in lieu of all other warranties, expressed, or implied, including any implied warranty of fitness for a particular application. Kim Lighting shall not be liable to the purchaser for indirect or consequential damages.



How may we serve you better?  
Please let us know. Visit our website at:  
[www.kimlighting.com](http://www.kimlighting.com)  
Your input matters to us.