

Installation Instructions

URGENT: READ PRIOR TO ATTEMPTING INSTALLATION

NL-408AT

4" Square Q4 New Construction
20W-50W, AirTight Housing

INSTALLATION SHOULD BE CARRIED
OUT BY YOUR LOCAL ELECTRICIAN.

ALWAYS TURN OFF MAIN POWER BEFORE INSTALLATION

WARNING - RISK OF FIRE AVERTISSEMENT - RISQUE D'INCENDIE

Most dwellings built before 1985 have supply wire rated 60°C (thermal cutoffs in fixtures operate at 90°C); consult a qualified electrician prior to installation. If supply wires are located within three inches of ballast, use wire rated for at least 90°C.

La plupart des logements construits avant 1985 ont câble d'alimentation classé 60°C (disjoncteurs thermiques dans les appareils fonctionnent à 90°C); consultez un électricien qualifié avant l'installation. Si les fils d'alimentation sont situés à moins de trois pouces de ballast, d'utiliser du fil résistant au moins à 90°C.

This equipment is intended to be installed only by qualified personnel. The installation must be made in accordance with the current edition to the National Electric Code and all applicable state and local building codes, the final installation must be approved by the appropriate qualified electrical/building inspector(s). Improper installation may result in a fire or electrical hazard. Be sure the electrical power to the circuit has been disconnected before installing this electrical system.

TO INSTALL HOUSING:

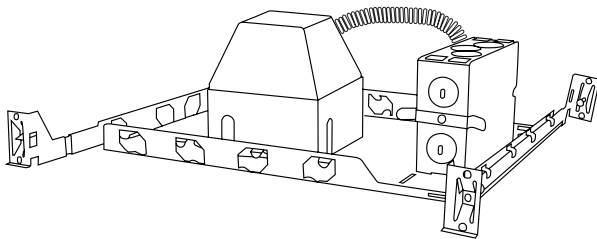
Standard "Joist" Ceilings:

- 1) Use bar hangers to attach fixture between ceiling joists. Each end of the bar hanger is equipped with a nail-in barbed tab. Additional hardware such as screws or nails may be used if extra support is necessary.
- 2) For steel studs, use steel piercing screws in place of nails or barbed tabs.
- 3) Remove shipping screw from underneath side of plaster frame.

T-Bar Ceilings:

- 1) If mounting to a T-Bar type ceiling, mount fixture onto grid by placing notches on the bottom of each end of the bar hanger over the grid.
- 2) Tie fixture to grid with structural wire going through both the circular knockout on the end of the bar hanger and nearest accompanying knockout on the ceiling grid.

Note: It is imperative to tie down the fixture to prevent the fixture from being pushed above the ceiling during trim installation.



Cutout : 4" x 4"

Note : The cutout on the ceiling must be square

ELECTRICAL CONNECTIONS:

- 1) Connect 1/2" trade size steel conduit to junction box with appropriate fitting. If using Romex-type shielded wiring use rectangular pry-out strain reliefs located on upper corners of junction box.
- 2) Wires from transformer to lamp should already have been connected; Two leads from lamp will be connected to blue or red wires from transformer output. Simply make sure these have been connected and are secure. Otherwise, connect with standard crimps or wire nuts.
- 3) Connect -

Black Transformer Wire -	Supply Voltage
White Transformer Wire -	Neutral
Green Grounding J-Box Wire -	Copper or green grounding wire

Note on Grounding : Many structures carry grounding via steel conduit. If this is the case, if there is no grounding wire, simply leave green wire on fixture attached. Fixture will be grounded through attachment of conduit to junction box. However, if Romex or PVC conduit is used, ground wire will always be present, and must be connected to green wire on fixture junction box to avoid electrical shock hazard.

Trim Installation:

- 1) Remove protective coating from socket shield
- 2) Affix MR16 Lamp source to socket with LIGHT PRESSURE
- 3) Unwrap UV/Safety lens and place inside lamp holder located on trim
- 4) Snap lamp into trim lamp holder
- 5) Install trim into housing by pushing up, being careful to avoid hardware or any other interfering obstacles.

Special Notes On Dimming:

NL-408AT may be dimmed with an approved rated electronic low voltage dimming control only.

USE OF STANDARD INCANDESCENT OR "REOSTAT" CONTROLS WILL CAUSE EXCESSIVE NOISE AND MAY PERMANENTLY DAMAGE TRANSFORMER, LAMP, AND DIMMING CONTROL.

Also, after fixture has been installed leave lamps on full setting for 100 hours minimum prior to dimming. This will firm up the seals in the MR16 light source. Dimming prior to 100 hours of operation may greatly reduce lamp life.