

## STEP 10

After the second pass is dry, use a sanding screen to smooth the room side ceiling surface.

## STEP 11

Paint the ceiling surface, if applicable, and allow the paint to dry according to the paint manufacturer's instructions.

## STEP 12

### - LAMP WATTAGE

The DH-NIC-LD downlight is a low voltage lighting fixture designed to operate with a 12-volt power supply only. When using 120-volt primary it can utilize up to a 50 watt Max MR-16 lamp. 37W IR lamp recommended for best results.

### - LAMP INSTALLATION

When the housing has been properly and securely installed, and all electrical connections have been made, install the specified lamp into the socket hanging from the housing's opening.

Install lamp onto mount of lens/lamp assembly and use lamp retainer clip to secure in place.

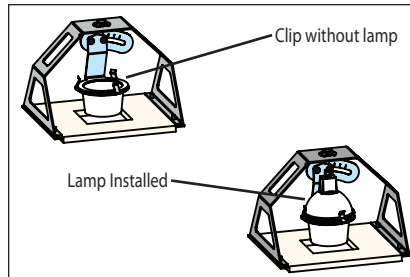


Fig. 5

**LUCIFER**  
LIGHTING COMPANY

3750 IH 35 North  
San Antonio, Texas 78219 USA  
[PH] +1 210 227 7329  
[FAX] +1 210 227 4967  
www.luciferlighting.com

## STEP 13

To adjust the lamp fixture angle, loosen the thumbscrew located on the side of the lamp fixture.

Adjust the lamp to the desired angle and tighten the thumb screw to lock in place. (Figure 6)

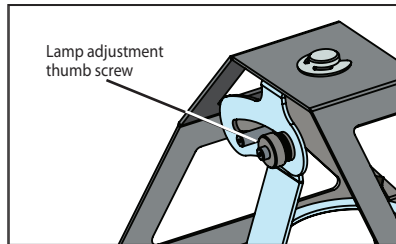


Fig. 6

## STEP 14

Connect the lanyard from the housing to the DH-NIC-LD lens/lamp assembly. (figure 7)

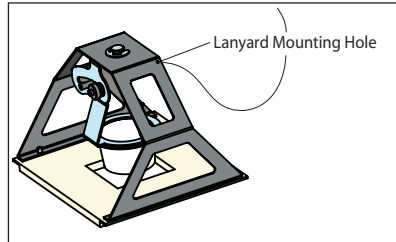


Fig. 7

## STEP 15

Place the DH-NIC-LD lamp/lens assembly into the finished housing opening, using care not to scratch the lens. Allow the assembly to rest on the inside lip of the appliqué.

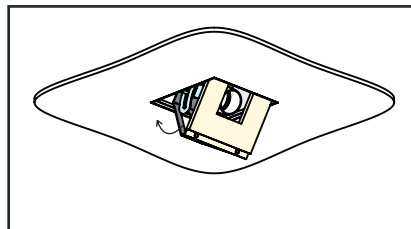


Fig. 8

©April 2009 Lucifer Lighting Company  
As part of its policy of continuous research and product development, the Company reserves the right to change or withdraw specifications without prior notice.

# DOWNLIGHT

DH-NIC-LD

## INSTALLATION

Before beginning any DOWNLIGHT installation, disconnect electrical power at a main switch or circuit breaker.

### IMPORTANT SAFETY INSTRUCTIONS

1. Read Installation Instructions completely.
2. Disconnect electrical power at main switch or circuit breaker.
3. Disconnect housing power.
4. Ensure a qualified electrician will perform all electrical procedures.
5. Contact Lucifer Lighting Company with any questions or concerns.
6. Failure to follow these Installation Instructions may result in an improper installation and void the manufacturer's warranty.

### GENERAL INSTALLATION NOTES

When installing or using recessed downlights, the following safety precautions should be followed:

1. The DH-NIC-LD may be installed in a dry location only and should comply with the National Electric Code (NEC) and local code and ordinance having jurisdiction.
2. The installer is responsible for furnishing proper electrical equipment and materials for the installation.

SAVE THESE INSTRUCTIONS.

### GENERAL INSTALLATION

#### NOTES (CONTINUED)

3. Install and mount the DH-NIC-LD on a structurally sound surface.
4. Install the DH-NIC-LD to permit easy access to components and splice connections when servicing is required.
5. Set the recessed housing plumb, square, and level with the ceilings and walls, in alignment with adjacent structural members. Secure the housing in accordance with these installation instructions.
6. Recessed housings installed in accessible and non-accessible ceilings must be supported by the structural members of the building. Do not support the recessed housings by using lay-in ceiling support T-Bar.
7. Ensure insulation material is a minimum of 3" from all sides of the fixture housing. Do not install the fixture assembly closer than 6" from any curtains, exotic veneers, or similar combustible materials.
8. Metal conduit must be used if required by applicable codes. Conductor insulation must be rated for the appropriate temperature rating as specified for the recessed housing.

Continue on page 2.

**LUCIFER**  
LIGHTING COMPANY

## GENERAL INSTALLATION NOTES

(CONTINUED from page 1)

9. To reduce the risk of fire, electric shock, and potential damage to the fixture, do not attempt to connect motors, power tools, extension cords, appliances, and similar electrical equipment on the branch circuit serving the recessed downlight.
10. Disconnect the electrical power circuit before adding to, or changing the configuration of the recessed downlight.
11. The ground junction wire at the service junction box must be secured to a ground screw. Do not ground any part of the secondary 12V circuit.
12. Switching or dimming should be controlled on the primary 120V side of the transformer. The switch must be rated to resist the effect of the switch-on surge (usually 1.25 - 1.5 times the running current.)
13. Use only dimmers specifically designed and manufactured for dimming the primary side of the transformer.
14. Verify with the dimmer manufacturer that the dimmer is suitable for dimming the primary side of low voltage electronic transformers and can accommodate the transformer load.
15. The recessed downlight assembly is thermally protected. A blinking lamp may indicate that the installation of the housing is improper and the surrounding space above the ceiling is causing overheating. It may also indicate an unapproved high wattage lamp is being used.  
  
If overheating occurs, ensure insulation is not closer than 3" from the housing, and lamp wattage is as than specified on the housing label.
- 16.

## HOUSING INSTALLATION

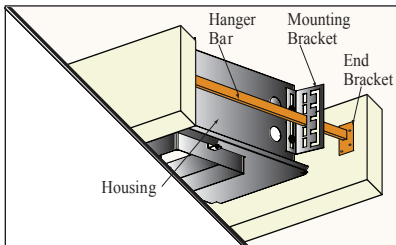


Fig. 1

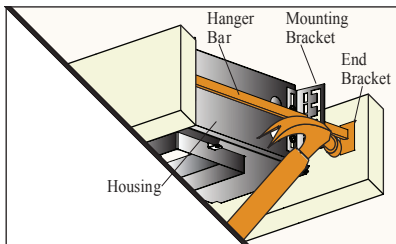


Fig. 2

2

### STEP 1

Slide the housing hanger bars into the housing support brackets and adjust the hanger bars to contact the building support structure (joist). Move the hanger bar brackets up or down to adjust the housing height.

(See fig. 1)

### STEP 2

Ensure housing opening is aligned per design specifications then nail the end brackets of the hanger bars into the crossbeam supports (joists). (See fig. 2)

Ensure that the lip of housing is positioned approximately .25" (6.4mm) above finished ceiling plane.

### STEP 3

Ensure adequate clearance is provided for the excess flexible conduit or armored cable that will be installed in the junction box knockouts.

### STEP 4

#### WIRE CONNECTIONS

NOTE: Verify that all wiring meets the temperature requirements labeled on the housing. Remove a knockout on the housing suitable for conductors. Use an approved fitting or strain relief to protect the wire. Consult the NEC and your local code authority as to the appropriate wire type, wire gauge, and wire connectors for your application. The housing is provided with three wires in the transformer compartment. The green wire is to be connected to an earth ground. The white wire is to be connected to the neutral leg of the circuit. The black wire is to be connected to the line leg of the circuit. Locate all wiring connections within the transformer compartment. Replace cover plate, where provided.

### STEP 5

Inspect the housing to ensure it is securely mounted and that it will not move when the ceiling plane is installed, or when the appliqué and lens are installed.

### STEP 6

Install ceiling plane ensuring that the cutout for the housing is 7.25" (184mm) X 7.25" (184mm) square.

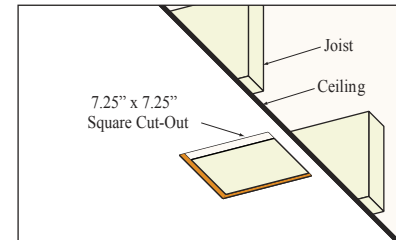


Fig. 3

### STEP 7

Align the appliqué countersunk screw holes with the housing flange holes. Then, using the four supplied 6-32 nylon screws, attach applique assembly to the housing. Ensure that the perforated metal applique is mounted firmly against ceiling surface.

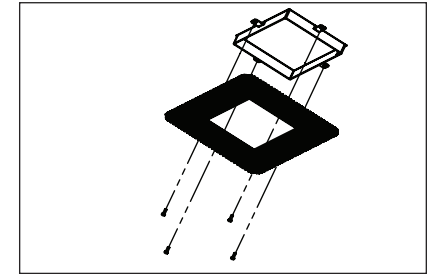


Fig. 4

### STEP 8

Use a floating knife to apply the first pass of drywall compound. Float the compound up to the lipped edge surrounding the appliqué opening.

Allow the compound to dry according to the drywall compound manufacturer's instructions.

### STEP 9

After the first pass of drywall compound is dry, apply a second pass. Float out as far as necessary to hide the appliqué, making the surface as smooth as possible.

Feather the compound as you move away from the flange to give the appearance of a perfectly flat ceiling.

Allow the second pass of drywall compound to dry according to the drywall compound manufacturer's instructions.

3