

# The Helen Lamp Installation Guide



## Installation Instructions

### 1. Power OFF the CFL downlight fixture into which you will install the Helen Lamp.

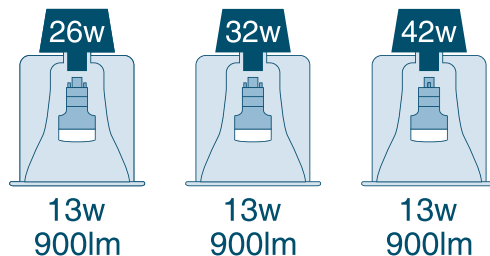
This is not only important to the installers safety, but the Helen Lamp may be damaged not operate properly when power is not cycled after removing the CFL lamp from the fixture.

### 2. Carefully remove the installed 4-pin CFL.

Pull the lamp from the base and not the tubes to avoid breakage.

### 3. Verify the CFL ID information for compatibility with the Helen Lamp.

Check the CFL ID marked on the lamp enclosure to ensure it is a 26W, 32W, or 42W CFL. If it is a lower wattage CFL, stop. Do not install the Helen Lamp. Also check the CFL lamp color temperature to ensure you are installing the desired color temperature of the Helen Lamp.

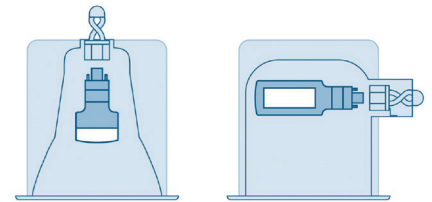


### Color Temperature

The Helen Lamp is rated at 2700K, 3000K, 3500K, or 4000K

### 4. Insert the Helen Lamp into the fixture's 4-pin CFL socket.

If the lamp does not seat properly, do not apply force. Check to make sure the fixture does not have an older, 2-pin magnetic ballast, which may not be compatible with the Helen Lamp. Be sure to install two Helen Lamps in 2-lamp CFL fixtures, not one Helen Lamp and one CFL.



### 5. Turn ON power.

If the Helen Lamp flickers, strobos, or fails on installation, the installed ballast is incompatible with the Helen Lamp. To mitigate observed incompatibility, Lunera recommends updating any incompatible installed ballasts with a currently available brand name model.

## A Note on Delivered Lumens

26W, 32W, and 42W CFL's are driven by the same electronic ballast technology.

### At 26W

The Helen Lamp will deliver the same lumens out of the fixture as a 26W CFL, approx. 900 lumens.

### At 32W

Depending on the fixture optics, you may receive reduced delivered lumens as compared to a 32W CFL. However you may not observe the light reduction in the space because our eyes see more light than measured, the reduced lumens delivered is small, and the Helen Lamp light quality is superior to the CFL.

### At 42W

You may notice decreased delivered lumens to the space, especially in double light fixtures, but you will reduce power by 70%.

# LUNERA HELEN LAMP

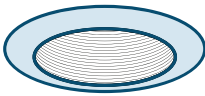

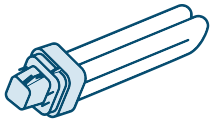
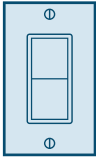
## Installation Guide - Gen 2



### Intended Applications

The Helen Lamp is designed for common commercial non-lensed and non-dimming fixtures with 4-pin (G24q-series) or 2-pin (G24d-series) CFL sockets that meet the following characteristics:


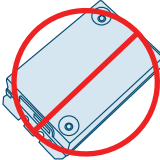
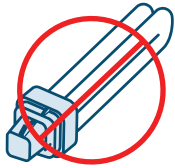

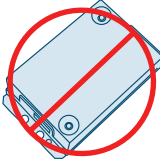



| Fixture  | Electronics  | Lamp Compatibilities  |
|--|--|---|
| <p>Recessed Downlight without a Lens Cover</p>  | <p>4-Pin G24q/GX24q or 2-Pin G24d sockets</p>  | <p>4-Pin: 26W, 32W, or 42W<br/>2-Pin: 26W</p>  |
|  | <p>Simple Rocker Switch (no dimming)</p>       |   |

### Incompatible Applications

Lunera Lighting desires customers to experience the great attributes of the Helen Lamp. Thus, please consider the INCOMPATIBLE Applications for the Helen Lamp listed below. Installation of the Helen Lamp in such applications may result in lamp flicker, strobe, or failure:



| Fixture  | Ballast Incompatibility   | Other  |
|--|---|--|
| <p>Recessed Downlight with a Lens Cover</p>                                     | <p>Some older CFL Ballasts - Built in 2003 and Earlier</p>  | <p>Replacing less than 26W CFLs</p>   |
| <p>Decorative Fixtures (like sconces and pendants with restricted airflow)</p>  | <p>Some Non-Mainstream, Off-Brand Ballasts</p>              | <p>Dimming Ballasts and Switches</p>  |