



## OPERATING INSTRUCTIONS FOR GLOBAL CONSUMER PRODUCTS DIMMABLE CFL's

### 1 Installation Recommendations:

- **Use only one type of dimmable CFL on a single dimmer circuit:**

We recommend using only one type of dimmable CFL on a single dimmer circuit. Using multiple types, wattages, or CFL brands on a single dimmer circuit creates interference due to the non uniform distortion created by different type CFL's. Longer life and improved dimming capability will result from using only one type of dimmable CFL on a single dimmer circuit.

- **Allow 1 hour warm up time before dimming the very first time the CFL is turned on:**

We recommend operating the dimmable CFL for 1 hour before dimming the CFL the very first time the CFL is turned on. The dimmable CFL may be exposed to cold temperatures during storage and transportation. Consequently the CFL gas may be cold and require additional time to warm up initially. Subsequent operation will require only 1-2 minutes of warm up time at full brightness before dimming the CFL lamp.

- **Use no more than 6 dimmable CFL's on a single dimmer circuit:**

We do not recommend using more than 6 each dimmable CFL's on single dimmer circuit. Each dimmable CFL contains an integrated circuit (IC) which is designed to protect the CFL by preventing operation if any abnormal light bulb parameters are detected. The IC will reset in about 1-2 minutes. Uniform operation will improve as the CFL's stabilize over time.

- **Use with a dimmer made after 1/1/1995:**

Dimmable CFL's perform best with dimmers made after January 1, 1995.

- **Operation Problem with Electronic digital Fade or Touch Electronic Dimmer:**

Dimmable CFL's may not work with (solid state electronic) digital fade and touch dimmers (such as Lutron's Maestro and Vierti series dimmers). Harmonics & emissions of the dimmer and the dimmable CFL may interfere with one another. We recommend changing the dimmer to a mechanical, rotary, slide or toggle up & down style dimmer (such as Lutron's Ariadni, Diva, Skylark, Lyneo, and Classic series dimmers).

### 2 Trouble Shooting:

#### **If all of the dimmable CFL's do not light up...**

\* Please confirm correct dimmer installation. The dimmer should be installed on the "hot side (black wire)" (this is "standard procedure" in residential applications; commercial electricians should understand this direction).

\* Please confirm tight or secure contact between the dimmable CFL base and the socket. If the dimmable CFL is not screwed in tightly, the integrated circuit (IC) will detect the abnormality and protect the CFL by preventing operation. Please tighten the CFL in the socket and allow 1-2 minutes for the IC to reset before turning the CFL on.

\* Please confirm that only one type, wattage or CFL brand has been used on a single dimmer circuit. If not, change to only one type of dimmable CFL.



- \* Allow 1 hour warm up time before dimming the very first time the CFL is turned on.

**If there is a detectable variation in dimming...**

- \* Since there are 35 electrical components in a dimmable CFL (each with possibly differing tolerances – lamp to lamp), dimmable CFL's on the same circuit may behave differently as they dim. Uniform operation will improve as the CFL's stabilize over time.
- \* Incandescent dimmers have been designed to operate relatively higher wattage incandescent light bulbs (such as 100 watt household light bulbs). The relatively lower wattage dimmable CFL's may not "register" on the incandescent dimmer's "radar." Consequently, the lower wattage dimmable CFL's may not light at all or dimming performance may vary lamp-to-lamp.

**Do not Switch On & Off quickly:**

Each dimmable CFL contains an integrated circuit (IC) which is designed to protect the CFL by preventing operation if any abnormal light bulb parameters (such as an "air leak," poor contact between the light bulb base and socket, or poor burner activation) are detected. Once triggered, the IC will reset in about 1-2 minutes. If the dimmable CFL does not light immediately, do not switch it on and off repeatedly. The IC may have tripped. Allow the IC to reset in 1-2 minutes before turning the CFL on.