

Dimmable CFLs

2008 ENERGY STAR Lighting Partner
Meeting

February 26, 2008

Phoenix

Anthony W. Serres, LC
GE Consumer &
Industrial

Where did we start?

Where are we now?

Where are we headed?

Where did we start?

In what year did dimmable
CFL's first appear on the
ENERGY STAR Qualified
Products List?

In what year did dimmable
CFL's first appear on the
ENERGY STAR Qualified
Products List?

- a) 1998
- b) 2000
- c) 2002
- d) 2004

In what year did dimmable
CFL's first appear on the
ENERGY STAR Qualified
Products List?

b) 2000

Technology

Standard household dimmer

Technology

Standard household dimmer

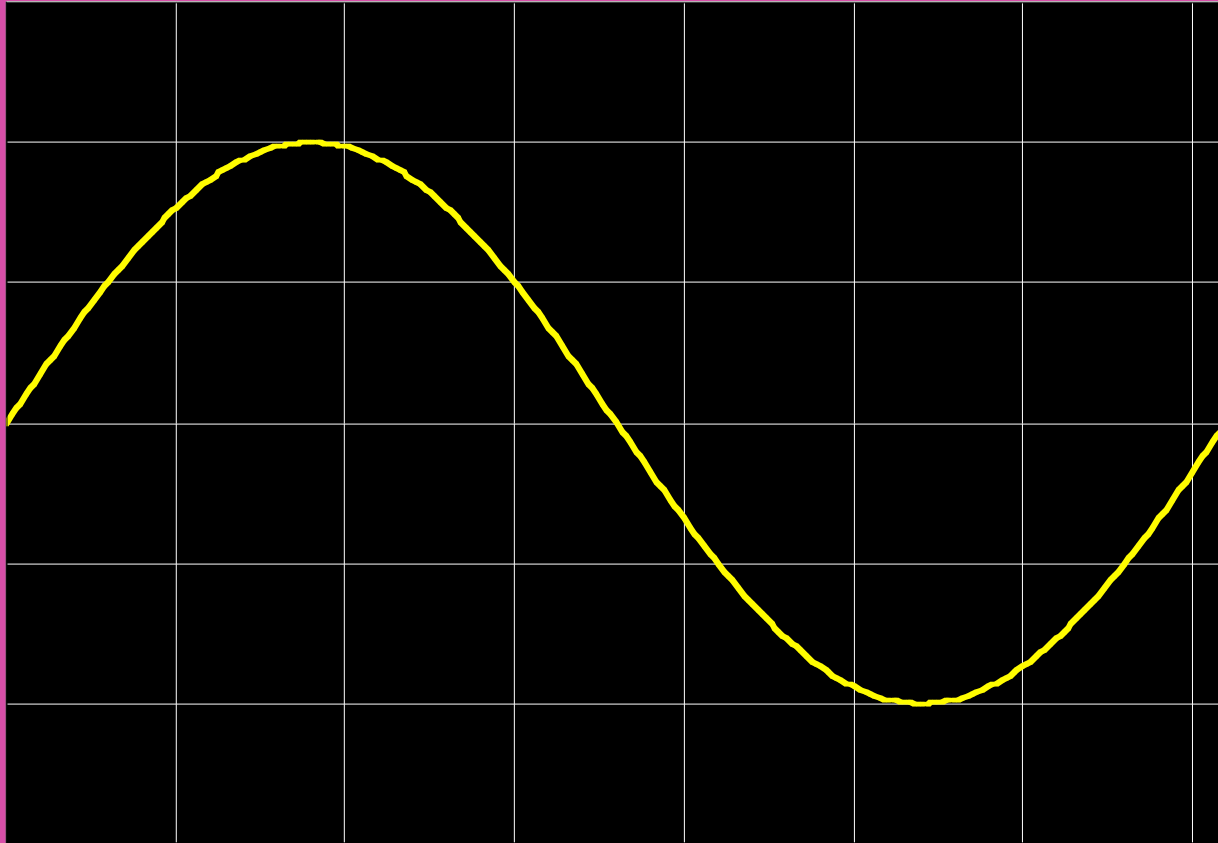
Triac dimmer

Technology

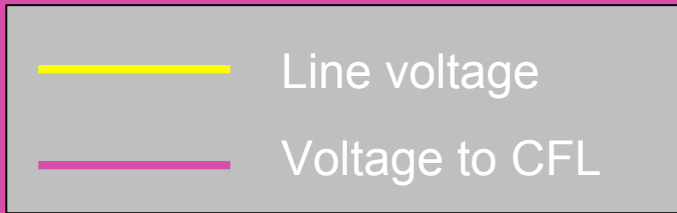
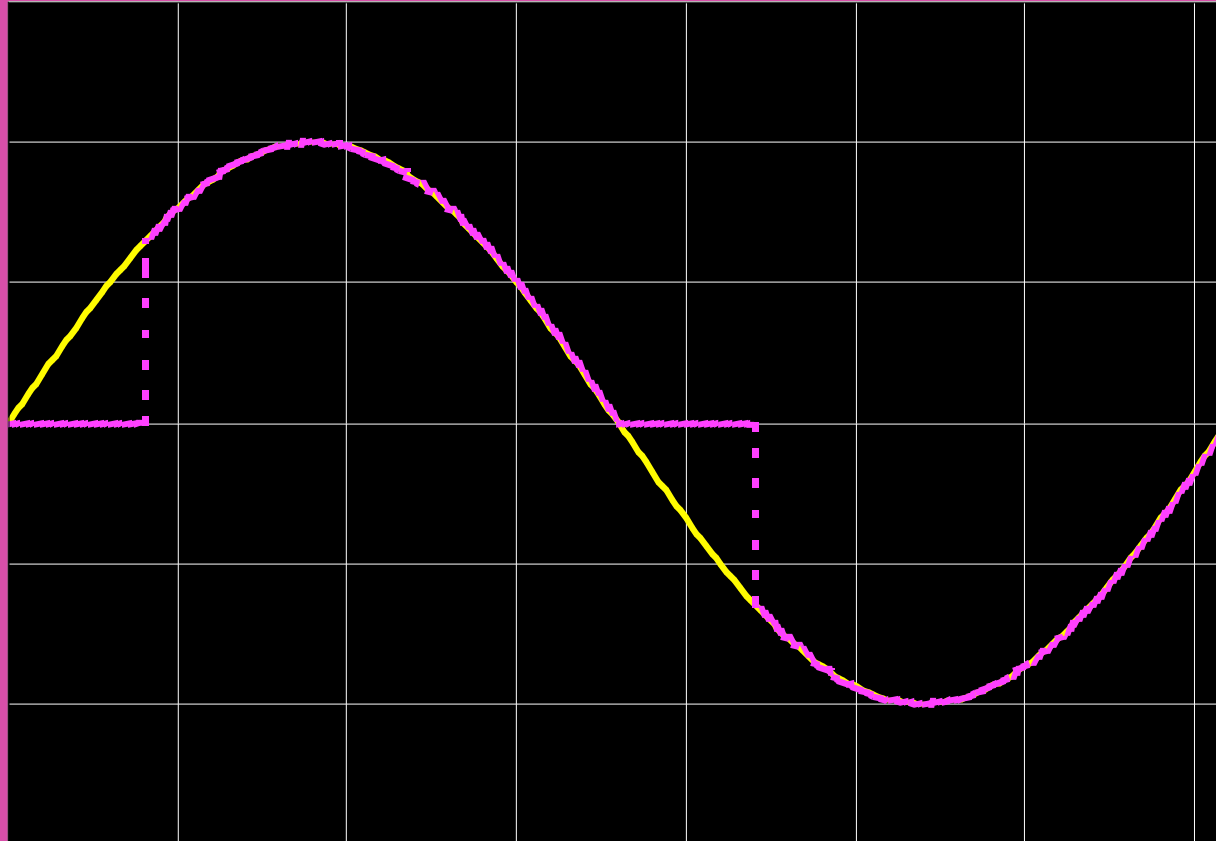
Standard household dimmer

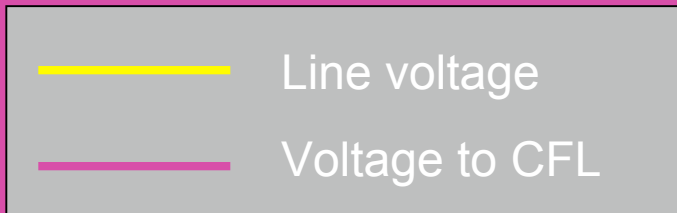
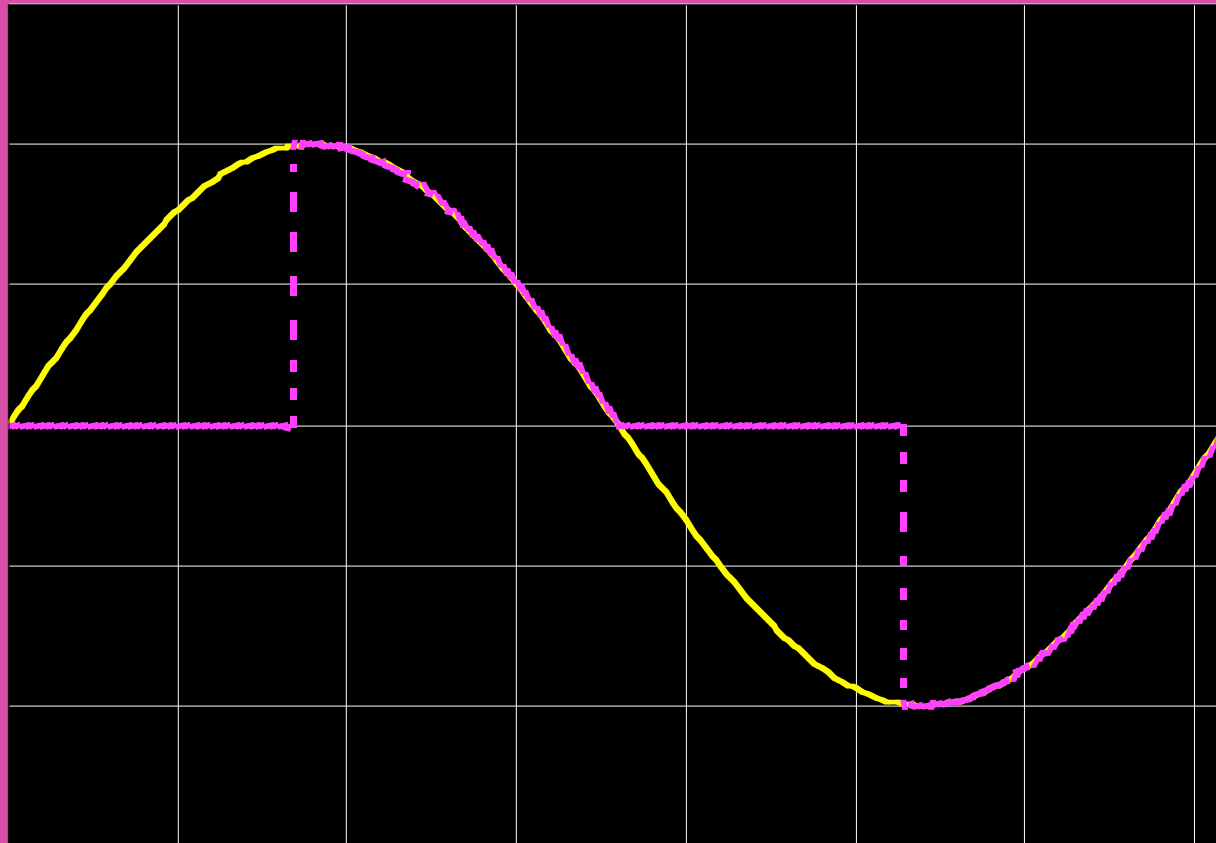
Triac dimmer

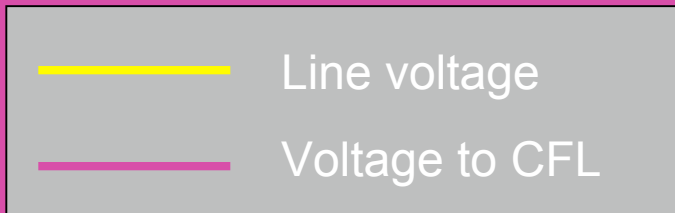
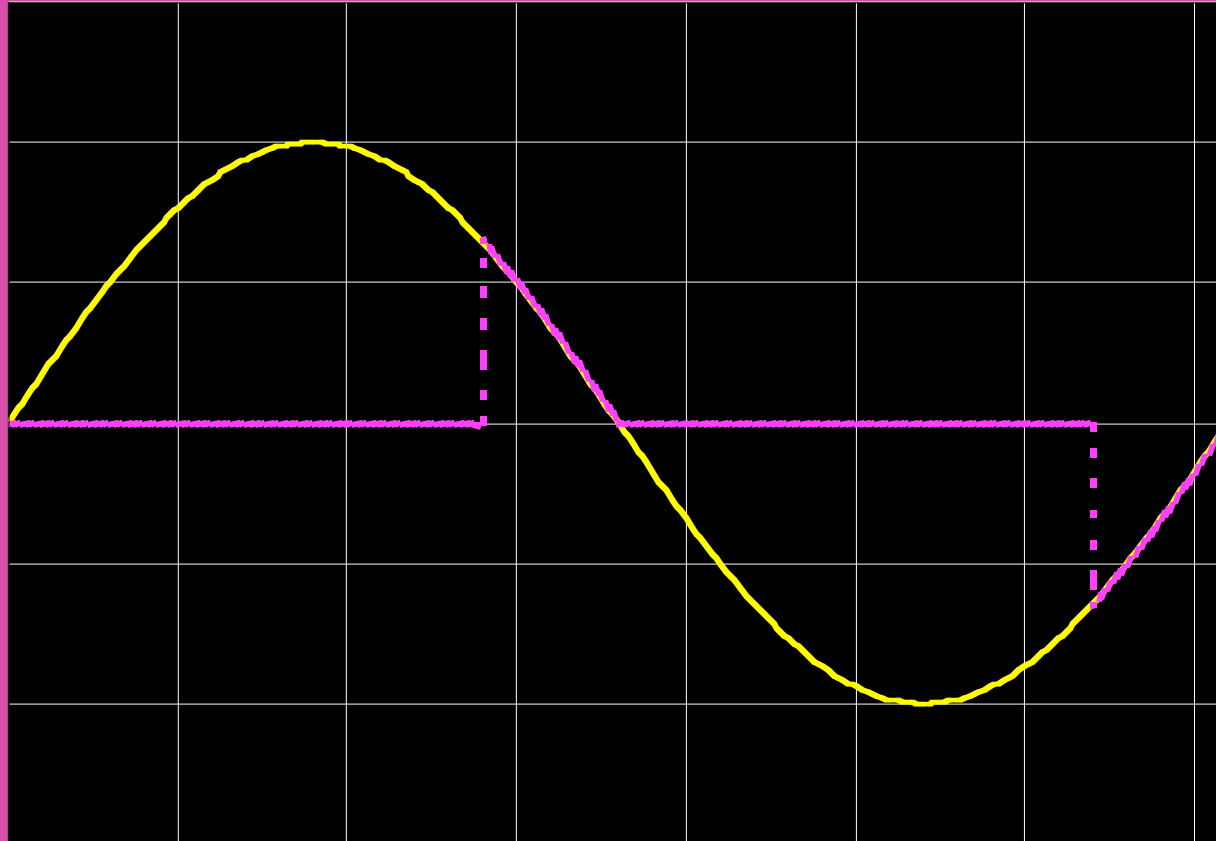
Phase control dimmer



— Line voltage







What happens if a regular CFL is used with a dimmer?

CFL may flicker or flash

CFL eventually goes out

Misapplication

Tested for in the Safety Standard for CFLs

Where are we now?

2% of the unique CFL models on
the ENERGY STAR Qualified
Products List are listed as
dimmable[†]

[†]Source: D&R International,
2/21/08

Technology

Phase control dimmer

Properties - Dimmable CFLs

Min. dimming: 10-20%

Life: 6K – 10K hrs

Watts: 15 – 26W

Base: Edison & GU24

Types: Bare, R, and
Covered

Issues with Dimmable CFLs

?

Don't behave like incandescent

- Cannot dim to “off”
- May not start at dimmed setting
- May flash if dimmer not “off”

Where are we headed?

Opportunities

More unique SKUs

Smaller product

Lower min. dim level

Lamp/dimmer compatibility

Compatibility → Standards

Compatibility → Standards

Develop test protocols

Address end-user issues

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