Dimmable CFLs

2008 ENERGY STAR Lighting Partner Meeting
February 26, 2008
Phoenix

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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
Line voltage
Voltage to CFL
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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