National Lighting Partner Meeting
April 4-6, 2005
David Shiller, U.S. EPA

ENERGY STAR Fixtures:
What’s on the Horizon
What’s on the Horizon?

• Consumer and market demand for ENERGY STAR fixtures continues to grow.

• Manufacturers are responding to this growth with more fixtures and technological innovation
Session Agenda

- Line Voltage Socket
- Self-ballasted Lamp
- Line Voltage Socket samples and lamp-ballast samples
- Dimmability
- Question and Answer
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ENERGY STAR: What’s on the Horizon
Self-ballasted Lamp
Integrated Lamp/Ballast

- Similar to a screw-base CFL but has a pin base
- Fits into a standard line voltage socket
- Allows consumer to purchase the lamp of choice
- Under consideration by ENERGY STAR
Exceptions to Self-Ballasted Lamp Applications

- **Recessed cans**
  - Critical heat advantages to separating the lamp and ballast

- **Linear and Circline Fixtures**
  - Design includes a separate lamp-ballast
Self-ballasted Lamp Advantages

Solves:
• Lamp base issues
• Lamp-ballast compatibility issues
• Ballast replaceability and availability issues
• Wattage choice for consumers

And:
• Prepares ENERGY STAR for future LED integration
• Lowers fixture and replacement bulb-ballast costs
If EPA then labels self-ballasted pin based lamps:

- Consumers could find qualified replaceable lamps
- Lamp shipment requirement could be dropped
- No lamp or ballast in fixture = incandescent pricing
- Simplifies administration and testing for manufacturers
- Opens commercial markets to CCT and power factor options
Self-ballasted Lamp Disadvantages

• Ballasts are disposed of after one lamp life, similar to screw-based CFLs

• Transition may be awkward
  – Success dependent on replacement stocking by retailers; and,
  – Support from manufacturers and energy efficiency community
Next Steps

• Work to build collaboration with RLF manufacturers and lamp-ballast OEMs for the self-ballasted lamp

• Confirm retailers’ interest in stocking and promoting the self-ballasted lamp

• Determine transition strategy

• Expected timeline: over the next 2 years
For More Information

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