

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF  
AIR AND RADIATION

December 21, 2012

Dear ENERGY STAR<sup>®</sup> Lighting Stakeholders:

The U.S. Environmental Protection Agency (EPA) is pleased to distribute Draft 3 of the ENERGY STAR Lamps V1.0 specification for review and comment. This specification is intended to replace the existing Compact Fluorescent Lamps and Integral LED Lamps specifications, as well as the certification requirements for GU24-based fluorescent lamps previously detailed in the Residential Light Fixtures specification.

On July 6, 2012, EPA released Draft 2 of Lamps V1.0. The Agency would like to thank partners and stakeholders for their thorough review of Draft 2, and for the thoughtful comments submitted. Comments received have been posted at [www.energystar.gov/lamps](http://www.energystar.gov/lamps).

EPA held a webinar following the release of Draft 2 and a round table discussion on how to address dimming. Slides from the Draft 2 webinar and dimming round table are posted at the above address. EPA has also met with industry representatives in person and over the phone on several occasions to discuss key topics in greater detail. The draft distributed today reflects changes resulting from submitted comments, industry discussions, and further research and analysis. Stakeholders are encouraged to carefully review comment boxes incorporated throughout the draft which provide further details about proposed changes and additions, including:

- The scope section of the document has been reorganized to clarify which products are eligible and not eligible under Lamps V1.0. The semi-directional category and non-standard LED lamps have been removed. Review of non-standard lamps on the ENERGY STAR certified product list, and how they are being marketed online and at retail, revealed a pattern of disregard for the intent of the requirements to educate consumers on true product performance.
- Testing requirements for CFLs have been updated to align with Department of Energy regulations for CFLs, and the specification now clearly outlines how lamps covered by federal standards are to be tested for ENERGY STAR certification, so as to avoid duplicate testing.
- The Elevated Temperature Life Test has been adjusted based on research showing the relationship between lamp wattage and lamp temperature operating in a recessed can.
- The commercial grade performance tier proposed in Draft 2 has been removed in response to concerns that its implementation would create potential complications in the marketplace with existing “commercial” lighting products, as well as potentially confuse consumers. The Agency believes the new features of the advanced certified product list

will allow users to screen and search for specific performance attributes such as lifetime, CRI and Power Factor, to better meet individual programmatic needs.

- Allowable product variations have been added to the specification to reduce testing burden, and additional testing requirements, if any, have been clarified for certain variations.
- Due to ongoing issues with equipment sensitivity in measuring color angular uniformity in the edge of the field angle, EPA is proposing to require that color angular uniformity be measured across the beam angle. The level has been changed back to that specified in the ENERGY STAR Integral LED Lamps specification. Scanning angles fine enough to accurately evaluate the variation in chromaticity across the beam forming source have been proposed to increase accuracy and reliability of the measurement.
- The Rapid Cycle Stress Test requirements proposed in Draft 1 and 2 have been maintained, but now include an exemption for instant start CFLs. This adjustment is reflective of the technological trade-off associated with a feature consumers prefer.
- Luminous intensity distribution requirements for directional lamps have been removed until further research is available clearly demonstrating an objective method of evaluation.
- Limited luminous intensity distribution requirements were added for ANSI standard decorative shaped lamps to ensure these products meet consumer expectations.
- Lamp labeling and packaging requirements have been modified to include additional compatibility guidance for low voltage products and dimmable products.

EPA will hold a webinar on Draft 3 on Friday afternoon, January 11<sup>th</sup>, 2013. Test methods and the Agency response to comments received on Draft 2 will be posted before the webinar. Advanced registration is required by sending an email to [lamps@energystar.gov](mailto:lamps@energystar.gov) providing attendee name(s), company name, phone number(s) and email address(es). For proper routing please include "Lamps Draft 3 Webinar" in the subject line of the email. For those unable to attend, the presentation will be posted to [www.energystar.gov/lamps](http://www.energystar.gov/lamps).

Thoughtful and thorough comments entered by ENERGY STAR partners and stakeholders are vital to the success of the program. Stakeholders are encouraged to send comments on Draft 3 to [lamps@energystar.gov](mailto:lamps@energystar.gov) no later than Friday, January 18<sup>th</sup>, 2013. Please note that comments received will be posted to [www.energystar.gov/lamps](http://www.energystar.gov/lamps) unless marked "Do Not Post."

Please contact me with questions, comments or concerns at (202) 343-9042 or [jantz-sell.taylor@epa.gov](mailto:jantz-sell.taylor@epa.gov) or Tanya Hernandez at ICF International at (919) 294-9004 or [tanya.hernandez@icfi.com](mailto:tanya.hernandez@icfi.com). As always, thank you for your support of ENERGY STAR.

Sincerely,



Taylor Jantz-Sell  
ENERGY STAR Lighting Program Manager  
U.S. Environmental Protection Agency