

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



OFFICE OF  
AIR AND RADIATION

July 9, 2013

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

With this letter, the U.S. Environmental Protection Agency (EPA) announces the release of the Final Draft of the ENERGY STAR Lamps V1.0 specification. The Lamps V1.0 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.

EPA would like to thank partners and stakeholders for their thorough review of each draft, and the extensive comments received. In response to Draft 4, a number of suggested adjustments were offered that have allowed the Agency to improve the clarity of the specification and provide additional flexibility. Aside from these relatively minor changes, the final draft retains the key elements of Draft 4, with further refinement of the dimming requirements, as outlined below. All comments were carefully considered, and are posted for your review on the lamps specification development web page, along with a comment summary document with Agency responses.

Even as we complete work on this V1.0 lamp specification, the Agency is continuing work and stakeholder engagement in areas that might allow for further streamlining of the qualification process and more consumer choice without compromising integrity. One key priority is further examination of luminous intensity distribution requirements for LED A lamps to explore opportunities to adjust the requirements to allow for even more cost effective options that can effectively replace general purpose incandescent lamps without compromise. Stakeholders are encouraged to remain engaged on this and other issues as we formulate a new proposal for further comment later this year, for potential adoption as part of a near-term update to the lamp specification.

Note boxes throughout the final draft explain all the changes made from the previous draft. Of note, the Final Draft includes:

- Updated allowable variations section to align certain tolerances with safety report requirements in UL 1993 and expand the test data that can be leveraged for variations in color temperature.
- Clarified tolerances for luminous efficacy and light output values.
- A clarification in the equivalency claim table to indicate that covered CFLs intended to replace common wattage general service incandescent bulbs are subject to the same minimum light output requirements as omnidirectional lamps.

- Additional flexibility under the Rapid Cycle Stress Test requirements for solid state lamps, that allows existing test data to be used until a better approach to cycling is determined.
- Adjusted requirements related to dimming
  - Refined dimmer selection criteria to reduce confusion and testing burden.
  - Replaced flicker performance levels with requirement to report worst case values for light output frequency and flicker index during dimming testing to allow users to evaluate dimmable products based on individual preferences and flicker sensitivity.
  - Included additional methods for confirming lamp stabilization as part of the recommended practices for dimming performance.
  - Included guidance for flicker index calculation, as requested.

The effective date for Lamps V1.0 will be September 1, 2014. Stakeholders wishing to provide additional comments should submit comments to [lamps@energystar.gov](mailto:lamps@energystar.gov) by July 23, 2013. Please note that comments received will be posted to [www.energystar.gov/lamps](http://www.energystar.gov/lamps) unless marked “Do Not Post”.

With the final specification, EPA will share additional information related to its implementation.

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