ENERGY STAR Products Partner Meeting
Getting Technical

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Moderator: Austin Gelder, UL

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Moderators

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Poll 1: True or False

With the release of Lamps V2.1, CRI is now an Allowable Product Variation.
Poll 2: True or **False**

With the Release of Lamps V2.1, the LED Package is now an Allowable Product Variation.
Poll 3: Elevated Temperature Life Test data

Will DOE accept ENERGY STAR Elevated Temperature Life Test data?

A. Yes  
B. No  
C. Unsure

**ANSWER:** DOE has indicated they will (11/4/2016 NOPR) *but nothing is final yet.*

**Reminder:** Until DOE finalizes a regulatory change, EPA expects manufacturers using the U.S. Department of Energy Conservation Test Procedure for Integrated Light-Emitting Diode Lamps will seek a test procedure waiver from DOE by submitting an application in accordance with the DOE regulations documenting that test samples were operated at temperatures more stringent than those outlined in the federal register.
Poll 4: Life Testing

Does ENERGY STAR allow for less than 6,000 hours of life testing in accordance with the DOE test procedure for LED lamps?

A. Yes

B. No. Even though DOE allows 15,000-hour life representations based on ~4,400 hours of testing, EPA requires 6,000-hour minimum test duration for products seeking ENERGY STAR certification.

C. Unsure
Poll 5: True or False

2200K and 2500K filament-style lamps can earn early interim certification based on 3,000 hours of life testing.

These nominal CCTs are limited to filament-style lamps and are not eligible for early interim certification.
Directional Lamp Shape Equivalency

How should R16 lamps be handled? There are many examples of incandescent versions of this lamp, but there is not an ANSI lamp shape for it.

**Answer:** ANSI does provide a general description of the R lamp shape: “a bulb that includes a parabolic or elliptical section below the major diameter.”

EPA’s expectation is that products seeking ENERGY STAR certification as an R16 meet the intent of the ANSI description and mimic the shape and size of the incandescent R16 product it is designed to replace.
Panel Lights

What would distinguish a panel light that is excluded from the scope from a decorative ceiling surface mount light that uses a side-lit or backlit panel?

1 SPECIFICATION SCOPE & LUMINAIRE CLASSIFICATION

The ENERGY STAR Luminaires specification ("this specification") covers luminaire types outlined in this section. This specification is limited to residential type lighting products, however to the extent that products that fall under the scope of this specification are sold into the commercial market, they may be included and listed appropriately for the applicable end user. This specification is limited to luminaires below a total input power of 250 watts intended to be connected directly to the electric power source. See the Definitions section in Section 4 for definitions of each directional luminaire type detailed below. Questions about ENERGY STAR may be referred to an EPA recognized Certification Body or lighting@energystar.gov.

Excluded products
- Commercial outdoor lighting (e.g. street and area, wall packs, canopies, and outdoor bulkhead)
- High or low bay luminaires
- Recessed troffers and other linear fluorescent fixtures
- Luminaire types typically employed for general office illumination such as over or under desk lighting
- HID sources or their SSL replacements
- Socket adapters or converters
- LED lamps intended to replace linear fluorescent, pin-based compact fluorescent or high-intensity discharge lamps.

When in doubt contact your CB who will contact EPA if there is still a question.
NEMA 77

When testing to NEMA 77 for the ENERGY STAR flicker reporting requirements, are the 5 dimmers to be used, or the NEMA SSL 7 waveform generator that simulates a dimmer?

Only partners registered for the NEMA compatibility program may use the waveform generator.
Lamps with Additional Features

Are lamps with additional features such as battery backups, motion sensors, etc. allowed, and if so what features would be allowed vs. not allowed?

Answers can often be found in the spec. When in doubt contact your CB.

1.2. Excluded Products:

- Lamps, other than MR and halogen capsule replacements, that operate only via non-integrated (i.e., not integral to the lamp) ballast, driver or transformer, e.g., pin-based fluorescent lamps (linear and compact) or their solid-state replacements.
- LED lamps intended to replace linear fluorescent lamps.
- LED lamps intended to replace pin-based compact fluorescent lamps.
- LED lamps intended to replace high-intensity discharge lamps.
- Lamps powered by an internal power source (e.g., solar-powered cell).
- Lamps incorporating power-consuming features in the on or off state which are not related to control of illumination (e.g., audio functions, air fresheners, or cameras).
- Lamp technologies lacking applicable industry standardized methods of measurement.
- Lamps with bases not covered in ANSI standards.
Luminaires with Additional Features

Is a desktop portable lamp with a USB charger allowed, and if so is this tested with the USB charger bypassed or as sold?

<table>
<thead>
<tr>
<th>Source Type</th>
<th>ENERGY STAR Requirements</th>
<th>Methods of Measurement &amp; Reference Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Source Types</td>
<td>Luminaires shall not draw power in the off state.</td>
<td>Method of Measurement: IEC 62301 ED.2.1 2011 Household Electrical Appliance Measurement of Standby Power</td>
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<tr>
<td></td>
<td><strong>Exceptions:</strong></td>
<td>Reference document: International Efficiency Marking Protocol</td>
</tr>
<tr>
<td></td>
<td>• Luminaires with <strong>integral motion sensors, occupancy sensors or photosensors, or connected functionality</strong> may draw up to 0.5 watts in standby mode.</td>
<td><a href="http://www.regulation.gov/IdocumentDetail.D=2008-BT-STD-0005">http://www.regulation.gov/IdocumentDetail.D=2008-BT-STD-0005</a></td>
</tr>
<tr>
<td></td>
<td>• Luminaires with energy saving features i.e. <strong>integral motion sensors, occupancy sensors or photosensors and connected functionality</strong> may draw up to 1 watt in standby mode.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Power supplies connected to</td>
<td></td>
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</tbody>
</table>
Luminaires with Multiple Mounting Options

If a product can be surface mounted and mounted to a recessed can opening, how should it be classified for certification purposes?

Answer: Is the product directional or not? Assuming they are a downlight the criteria is not based on mounting. On the QPL the Partner must choose a classification for which the product will be evaluated against and can include a listing note that the model has multiple mounting options.
Residential Portable Work Lights

How should we distinguish a portable work light for residential (garage, outdoor) vs commercial use? Is there a lumen level, any features that would distinguish, etc.?

When in doubt contact your CB who will contact EPA if there is still a question

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Resources

- Luminaires specification V2.0
- Lamps Specification V2.1
- Lighting@energystar.gov
- Jantz-sell.taylor@epa.gov
- Daniel.Rogers@icf.com
- Lighting certification FAQs