Today’s Lighting Efficiency Regulations. Tomorrow’s Lighting Choices.
Helping you comply with new lighting requirements

The Energy Independence and Security Act of 2007 (EISA 2007) was signed into law on December 19, 2007. Its purpose was to move the United States toward greater energy independence and security, to increase production of clean renewable fuels, and to establish new and challenging energy efficiency standards for products, public buildings and vehicles. In addition to covering issues ranging from fuel economy standards for cars and trucks, to renewable fuel and electricity, to training programs for a “green collar” workforce, EISA 2007 also set the federal mandatory energy efficiency standards for appliances and lighting.

General Service Incandescent Lamps

The EISA 2007 legislation also established a phase-out schedule for 40, 60, 75 and 100 watt general service incandescent lamps and new standards for suitable replacements. Specific wattage and lumen ranges for general service incandescent types are listed in the chart below:

Wattage and Lumen Ranges for General Service Incandescent Types

<table>
<thead>
<tr>
<th>Today's Lamp Wattage</th>
<th>Rated Lumen Range</th>
<th>Replacement Maximum Rated Wattage</th>
<th>Minimum Rated Lamp Life</th>
<th>Effective Phase-Out Date Products manufactured on or after:</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1490 – 2600</td>
<td>72</td>
<td>1,000 hours</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>75</td>
<td>1050 – 1489</td>
<td>53</td>
<td>1,000 hours</td>
<td>1/1/2013</td>
</tr>
<tr>
<td>60</td>
<td>750 – 1049</td>
<td>43</td>
<td>1,000 hours</td>
<td>1/1/2014</td>
</tr>
<tr>
<td>40</td>
<td>310-1049</td>
<td>29</td>
<td>1,000 hours</td>
<td>1/1/2014</td>
</tr>
</tbody>
</table>

The following medium screw-base lamp types are exempt:

- Lamps rated less than 310 lumens or greater than 2,600 lumens.
- Specialty application lamps. These lamps include, but are not limited to, appliance, bug, colored, infrared, rough service, shatter resistant/shatterproof, sign, three-way, traffic signal, vibration service, G-shaped lamps with a diameter of 5 inches or more, certain T-shaped lamps, and decorative shapes such as B, BA, CA, F, G16½, G25, G30, S or M14 of 40 watts or less.

Note: California phase-out dates begin one year earlier.
Incandescent Reflector Lamps (IRL)

EISA 2007, in effect since January 1, 2012, widens the range of incandescent reflector lamps affected by the Energy Policy Act of 1992. This federal legislation prohibits the manufacture or import of certain incandescent reflector lamps, including halogen PAR lamps, unless they meet or exceed the energy efficiency standards, effective June 16, 2008.

The new reflector lamps targeted by the EISA 2007 legislation are:
- BR, ER BPAR (OPAR) and similarly shaped reflector lamps.
- Reflector lamps with an outside diameter between 2.25 (18 eighths) and 2.75 (22 eighths) inches, effectively covering PAR20 & R20 types.
- Lamps having a rated wattage between 40 watts and 205 watts.

EISA exempts the following incandescent reflector lamps:
- BR30, BR40 and ER40 lamps rated at 65W
- ER30, BR30, BR40 and ER40 lamps rated at less than or equal to 50W
- R20 lamps rated at less than or equal to 45W

2009 DOE Lamp Rulemaking for GSFL and IRL Lamps

The Department of Energy announced new efficiency standards for General Service Fluorescent lamps (GSFLs), linear and U-shaped, as well as Incandescent Reflector lamps (IRLs) including halogen PAR lamps. The efficiency standards require these covered lamp types to meet minimum lumens per watt (LPW) requirements; products that do not meet the minimum LPW requirements as of July 14, 2012 can no longer be produced or imported. Affected lamps can continue to be sold if they were manufactured or imported before July 14, 2012.

The 2009 rulemaking exempts the same reflector lamps exempted by EISA 2007.

Most of today’s standard PAR halogen lamps will be eliminated and replaced with higher efficiency lamps.
SYLVANIA Halogen Solutions for Today—and Tomorrow

OSRAM SYLVANIA now offers customers a three tiered lifetime approach to our halogen products. These lamps meet all energy efficiency requirements.

## Halogen A-Shape General Purpose Lamps

SYLVANIA Halogen A-Shape lamps are an affordable incandescent replacement that meet all legislation, offer superior light quality, and provide tiered lifetime choices.

### Energy Efficient
- Up to 33% energy savings over standard incandescent lighting
- Meets all current and upcoming legislation

### Superior Light Quality
- Fully dimmable
- Vivid color – natural, pleasing light
- No warm-up time

Affordable Energy Savings. Superior Light Quality.

### Tiered Lifetimes Provide Choices

<table>
<thead>
<tr>
<th>Regular Life</th>
<th>Double Life</th>
<th>Triple Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 hours</td>
<td>2000 hours</td>
<td>3000 hours</td>
</tr>
<tr>
<td>- Value product</td>
<td>- Balances performance and price</td>
<td>- Premium performance and price</td>
</tr>
<tr>
<td>- Classic performance</td>
<td>- Double Life</td>
<td>- Long lifetime</td>
</tr>
<tr>
<td>- Energy savings</td>
<td>- Modified spectrum</td>
<td>- 30% energy savings</td>
</tr>
<tr>
<td>- Meets all legislation</td>
<td>- Warm, cozy light quality</td>
<td>- High lumen output</td>
</tr>
<tr>
<td></td>
<td>- Energy savings</td>
<td>- Meets all legislation</td>
</tr>
</tbody>
</table>

### Halogen IRL Reflectors

SYLVANIA Halogen CAPSYLITE® reflector lamps directly replace the current portfolio with tiered lifetime choices meeting all legislation requirements.

### Energy Efficient
- Greater than 20% energy savings over current reflectors
- Meets all legislation

### Superior Light Quality
- Fully dimmable
- Vivid color – natural, pleasing light
- No warm-up time

Largest Selection of Choices Balancing Price and Performance

### More Energy Efficient Choices

<table>
<thead>
<tr>
<th>Regular Life</th>
<th>Double Life</th>
<th>Triple Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500 hours</td>
<td>3000 hours</td>
<td>4500 hours</td>
</tr>
<tr>
<td>- Entry Level Value Product</td>
<td>- Balances price and performance</td>
<td>- Professional Grade Performance</td>
</tr>
<tr>
<td>- Economical Price</td>
<td>- Similar life and lumens to current products</td>
<td>- Premium Technology</td>
</tr>
<tr>
<td>- Higher quantity per SKU available</td>
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<td></td>
</tr>
</tbody>
</table>

Affordable Energy Savings. Superior Light Quality.
LED and Compact Fluorescent Options

In addition to our new halogen lamps, SYLVANIA offers a variety of energy-efficient LED and compact fluorescent lamps that meet legislation requirements.

Dimmable LED Product*

**ULTRA HD Professional Series**
- Energy savings up to 80%
- 95 CRI
- Long life: up to 50,000 hours
- Damp rated
- Offered in PAR38, PAR30LN, PAR30, PAR20
- Assembled in the USA

**ULTRA LED Lamps**
- Energy savings up to 77%
- 85 CRI
- Long life: up to 50,000 hours
- Damp rated
- Offered in PAR20, PAR30LN, PAR38, BR30, BR40 and A19

**ULTRA Narrow Beam PAR Lamps**
- Energy savings up to 78%
- Excellent color quality
- Damp rated
- Long life: up to 50,000 hours
- Offered in PAR38 and PAR30
- Available in Spot, Wide Spot and Narrow Flood beam
- Assembled in the USA

**CFL Product**
- Energy savings up to 75%
- Long life: up to 15,000 hours
- 82 CRI
- Select models are dimmable
- Multiple base, wattage and color temperature (2700K, 3500K, 6500K) available for various applications
- Micro mini T2 family features small size, instant on and long-lasting performance
- Living Spaces T2 family offers warm light closely resembling incandescent while providing smaller lamp size, energy savings and higher CRI.

Replacement Made Easy

For replacement information on our Halogen, Compact Fluorescent and LED product replacements, please visit our legislation web tool at http://llprtool.sylvania.com. This web tool will provide you with specific information on replacement products for each of our discontinued lamps due to energy requirements.

http://llprtool.sylvania.com

*ULTRA Narrow Beam 15W PAR38 lamps are not dimmable.