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# ENERGY STAR<sup>®</sup> Compact Fluorescent Light Bulb QUALIFICATION FORM: FULL INITIAL INDOOR REFLECTORS

Please submit a completed copy of this form with each model to be reviewed for ENERGY STAR Qualification and a copy of the packaging artwork for approval. **Incomplete forms that are submitted will slow down the qualification process.** ENERGY STAR CFL specification available at <http://www.energystar.gov/products/cfls>. Submit completed forms to D&R International, Ltd., 1300 Spring Street, Suite 500, Silver Spring, Maryland 20910, or fax (301) 588-0854 or [cfl@energystar.gov](mailto:cfl@energystar.gov).

## PART 1: To be completed by manufacturer for medium or candelabra based screw-in bulb with integral ballast.

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Country: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Web Site: \_\_\_\_\_

Countries Sold in: \_\_\_\_\_

Please complete entire form. Description to appear on <http://www.energystar.gov/CFLs>. To list additional packaging please complete and submit the Supplemental Packaging Form.

Brand Name: \_\_\_\_\_

Model Number: \_\_\_\_\_

Wattage: (watts) \_\_\_\_\_

Light Output: (lumens) \_\_\_\_\_

Bulb Life: (hours) \_\_\_\_\_

Warranty: (years) \_\_\_\_\_

Commercial ≥ 1 yr Residential ≥ 2 yrs

Minimum Start  
Temperature: \_\_\_\_\_

Color Temperature:

2700K  3000K  3500K  4100K  5000K  6500K (to be specified on packaging)

(Kelvin mark one)

Model Type/Design:

(Mark one)

Covered- reflector R20  Covered- reflector PAR38  
 Covered- reflector R30  Other: (please indicate)  
 Covered- reflector R40 \_\_\_\_\_

Special Features/  
Uses:

(Mark all that apply)

Dimmable  Outdoor Flood  
 3-Way  Other: (please indicate)  
 Recessed can \_\_\_\_\_  
 Ceiling Fan \_\_\_\_\_  
 Ceiling Mounted Fixture \_\_\_\_\_

Amalgam Mercury?

Yes No

Base Type Medium (E-26) Candelabra (E-12)

Position Restriction?

Base up Base Down

This lamp complies with NEMA voluntary limits on mercury content. \_\_\_\_\_ mg Estimated Hg Content

Other (Please indicate) \_\_\_\_\_

Signature \_\_\_\_\_

Manufacturer Contact

Date \_\_\_\_\_

**ENERGY STAR® Compact Fluorescent Light Bulb QUALIFICATION FORM: FULL INITIAL**  
**INDOOR REFLECTORS**

*PART 2: To be completed and signed by a NVLAP-accredited testing facility. For a list of accredited facilities visit the National Institute for Standards and Technology (NIST) site at <http://ts.nist.gov/ts/htdocs/210/214/214.htm>. Please attach all supporting data reports.*

<b>Manufacturer:</b> <input style="width:90%;" type="text"/>	<b>Model Number:</b> <input style="width:90%;" type="text"/>
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<b>Report Date:</b> <i>Month/Day/Year</i> <input style="width:90%;" type="text"/>	<b>Report Number:</b> <input style="width:90%;" type="text"/>
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**NVLAP-Certified Testing Facility:**

<b>Lamp efficacy:</b>	<b>Specification</b> Must meet or exceed minimum listed lumens per watt.	<b>AVG BASE-UP</b> 10 samples required
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<b>Indoor Reflector:</b>	Lamp power < 20 = <b>33</b> lm/w	<input style="width:90%;" type="text"/>
	Lamp power ≥ 20 watts = <b>40</b> lm/w	<input style="width:90%;" type="text"/>

	<b>Specification</b> (Elevated Temperature tests must follow test procedures outlined in Appendix B of the 4.0 criteria)	<b>Test Sample Averages</b>
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<b>Starting Time:</b>	≤ 1.00 second (to the mSec)	<input style="width:90%;" type="text"/>
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<b>Color Quality:</b>	CRI ≥ 80.0 (no more than 3 samples can be below 77)	<input style="width:90%;" type="text"/>
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<b>Run-up Time:</b> (seconds)	≤ 3.0 minutes amalgam < 1.0 minute non-amalgam	<input style="width:90%;" type="text"/>
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<b>Correlated Color Temperature:</b> (Kelvin)	9/10 lamps must fall within a 7-step ANSI MacAdam Ellipse of one of the following CCT at 100 hours: 2700K, 3000K, 3500K, 4100K, 5000K, 6500K	<input style="width:90%;" type="text"/> Kelvin (Please include Appendix C chromaticity data)
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<b>Power Factor:</b>	≥ 0.50	<input style="width:90%;" type="text"/>
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<b>Operating Frequency:</b>	≥ 40.0 kHz	<input style="width:90%;" type="text"/>
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<b>Transient Protection:</b>	7 strikes	Pass <input style="width:90%;" type="text"/> Fail <input style="width:90%;" type="text"/>
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<b>Rapid Cycle Stress Test:</b>	Cycle times must be 5 min. on, 5 min. off; lamp will be cycled once for every 2 hours of rated life. <b>At least 5 lamps</b> must meet or exceed the minimum number of cycles.	Cycles Endured: <input style="width:90%;" type="text"/> Pass <input style="width:90%;" type="text"/> Fail <input style="width:90%;" type="text"/> (out of 6 samples)
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<b>Initial Elevated Temperature Light Output Ratio:</b>	1 unit per sample, base up position must meet the minimum requirement of maintaining 90% of initial rated light output.	<input style="width:90%;" type="text"/> 25 °C <input style="width:90%;" type="text"/> 50 °C Pass <input style="width:90%;" type="text"/> Fail <input style="width:90%;" type="text"/>
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<b>Elevated Temperature 1,000-hour Lumen Maintenance:</b>	Average lumen output measurement of 10 sample lamps must be > 90% of initial (100-hour) lumen output when measured at 1,000-hours, and no more than 3 samples can have lumen output of < 85%.	<input style="width:90%;" type="text"/>
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<b>Elevated Temperature Lumen Maintenance at 40% of Rated Life:</b>	Average lumen output measurement of 10 sample lamps must be > 80% of initial (100-hour) lumen output when measured at 40% of rated life, and no more than 3 samples can have lumen output of < 75%.	<input style="width:90%;" type="text"/>
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<b>100-hour Light Output:</b>	Baseline measurement for calculating lumen maintenance	<input style="width:90%;" type="text"/>
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<b>Elevated Temp Interim Life Test:</b>	At 40% of rated life two sample failures require explanation. Three sample failures will not qualify.	<b>Sample failures at 40% of life:</b> <input style="width:90%;" type="text"/> out of 10
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<b>Elevated Temp Life Testing:</b>	≥ 6,000 hours as declared by the manufacturer packaging	Date Test Began: <input style="width:90%;" type="text"/> <b># of Models that met Rated Life:</b> <input style="width:90%;" type="text"/> out of 10
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<b>Signature:</b> NVLAP Laboratory Technician <input style="width:90%;" type="text"/>	<b>Date:</b> <input style="width:90%;" type="text"/>
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