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ENERGY STAR[®] Compact Fluorescent Light Bulb QUALIFICATION FORM: FULL INITIAL

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.

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

Company: _____

Contact: _____ **Title:** _____

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 Residential ≥ 2 _____ **Minimum Start Temperature:** _____

Color Temperature: (Kelvin mark one) ☐ 2700K 3000K 3500K 4100K 5000K 6500K (to be specified on packaging)

Model Type/Design: (Mark one)
 Bare- spiral
 Bare- circline
 Bare- twin/triple/quad tube
 Covered- reflector outdoor only
 Covered- Globe
 Covered- A-line (incandescent shape)
 Covered- Candle
 Covered- Post
 Other: (please indicate) _____

Special Features/ Uses: (Mark all that apply)
 Table/Floor lamp use
 Dimmable
 3-Way
 Ceiling Fan
 Decorative/Vanity
 Ceiling Mounted Fixture
 Pendant Fixture
 Outdoor Flood
 Outdoor Enclosed Fixture
 Indoor Enclosed Fixtures
 Wall Sconce
 Other: (please indicate) _____

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 (Month/Day/Year)

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.

Manufacturer: **Model Number:**

Report Date: Month/Day/Year **Report Number:**

NVLAP-Certified Testing Facility:

Lamp efficacy:	Specification Must meet or exceed minimum listed lumens per watt. (10 units, 5 base up/5 base down, unless specific position is noted)	AVG BASE-UP	AVG BASE-DOWN (specify alternative position)
Bare:	< 10 watts = 50.0 lm/w	<input type="text"/>	<input type="text"/>
	10 ≤ lamp power < 15 watts = 55 lm/w	<input type="text"/>	<input type="text"/>
	≥ 15 watts = 65 lm/w	<input type="text"/>	<input type="text"/>
Bare Dimmable/ 2-way/3-way:	< 15 watts = 50 lm/w	<input type="text"/>	<input type="text"/>
	≥ 15 watts = 60 lm/w	<input type="text"/>	<input type="text"/>
Covered: (no reflector)	≤ 7 watts = 40 lm/w (candelabra base exception: 35 lm/w)	<input type="text"/>	<input type="text"/>
	7 < lamp power < 15 watts = 45 lm/w	<input type="text"/>	<input type="text"/>
	15 ≤ lamp power < 25 = 50 lm/w	<input type="text"/>	<input type="text"/>
	Lamp power ≥ 25 watts = 60 lm/w	<input type="text"/>	<input type="text"/>
Outdoor Reflector: <i>NOTE: Indoor Reflectors require different qualification form</i>	Lamp power < 20 = 33 lm/w	<input type="text"/>	<input type="text"/>
	Lamp power ≥ 20 watts = 40 lm/w	<input type="text"/>	<input type="text"/>
	Specification	Test Sample Averages	
Starting Time:	≤ 1.00 second (to the mSec)	<input type="text"/>	
Color Quality:	CRI ≥ 80.0 (no more than 3 samples can be below 77)	<input type="text"/>	
Run-up Time: (seconds)	≤ 3.0 minutes amalgam < 1.0 minute non-amalgam	<input type="text"/>	
Correlated Color Temperature: (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	Kelvin (Please include Appendix C chromaticity data)	
Power Factor:	≥ 0.50	<input type="text"/>	
Operating Frequency:	≥ 40.0 kHz	<input type="text"/>	
Transient Protection:	7 strikes	Pass <input type="text"/> Fail <input type="text"/>	
Rapid Cycle Stress Test:	Cycle times must be 5 min. on, 5 min. off; lamp will be cycled once for every 2 hours of rated life. At least 5 lamps must meet or exceed the minimum number of cycles.	Cycles Endured: <input type="text"/>	Pass <input type="text"/> Fail <input type="text"/> (out of 6 samples)
100-hour Light Output: (lumens)	Baseline measurement for calculating lumen maintenance	Average lumens: <input type="text"/>	
1000-hour Lumen Maintenance: (lumens)	Average lumen output of 10 lamps must be > 90% of 100 hour lumen average. No more than 3 samples can have < 85% lumens.	Average lumens: <input type="text"/>	
40% Rated Life Lumen Maintenance:	Must be 80% of initial (100-hour) rating. No more than 3 lamps can have < 75% of initial rating.	Average lumens: <input type="text"/>	
Interim Life Test:	At 40% of rated life two sample failures require explanation. Three sample failures will not qualify.	Sample failures at 40% of life: <input type="text"/> out of 10	
Average Rated Lamp Life:	≥ 6,000 hours as declared by the manufacturer packaging	Date Test Began: <input type="text"/> # of Models that met Rated Life: <input type="text"/> out of 10	
Signature: NVLAP Laboratory Technician	<input type="text"/>		Date: <input type="text"/>