

## DOCKETED

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<b>Project Title:</b>	2016 California Quality LED Lamp Specifications
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<b>Document Title:</b>	Blair Chen Comment on Voluntary Calif. Quality LED Lamp Specification
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## Paul, Patricia@Energy

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**From:** Blair Chen <blair.chen@baclcorp.com>  
**Sent:** Tuesday, November 08, 2016 3:42 AM  
**To:** Energy - Docket Optical System  
**Subject:** Comment: Voluntary California Quality LED Lamp Specification  
**Attachments:** TN214302\_20161031T163756  
\_Voluntary\_California\_Quality\_LightEmitting\_Diode\_LED\_Lamp\_Speci.pdf

**Importance:** High

Dear Sir or Madam,

Good Morning,

Today, I have three questions need to confirm with you about the voluntary California quality LED lamp Specification. Please kindly find the enclosed file for Updates specification.

Questions' Details as below:

1. The standard show this statement the test procedure is 10 CFR430.23(ee) and Appendix BB to Subpart B of part 430, consistent with Title 20 and federal law. As you know, The DOE test procedure was effective at 2016-8-1. Many manufactures has followed this new procedure under testing now. If can manufacturer use this data in this voluntary LED lamp process effected on or after January 1,2017?

The test procedure for input power, lumen output, lumens per watt, correlated color temperature, Duv, CRI, power factor, lumen maintenance, and time to failure is 10 CFR §430.23(ee), and Appendix BB to Subpart B of Part 430, consistent with Title 20 (Section 1604(k)) and federal law.

2. Just want to confirm: It will not require the minimum light distribution for directional lamps(PAR,BR,MR), Yes?

**Minimum light distribution:** The omnidirectional light distribution requirements for A-shape lamps is ENERGY STAR's Product Specification for Lamps Version 2.0 (December 2015) for omnidirectional lamps. Lamp shapes B, BA, C, CA, F, and G shall meet the decorative light distribution requirements of ENERGY STAR's Product Specification for Lamps Version 1.1 (August 2014).

3. For lumen maintenance and rated life test: If can we only test lumen maintenance after 3000hrs and 6000hrs? If should do lumen maintenance after 10000hrs?

### **Lumen Maintenance and Rated Life**

**Minimum rated life:**10,000 hours or greater as determined by the lumen maintenance and time to failure test procedures.

Thank you very much!

Sincerely,  
Blair Chen  
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