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Dear Richard:

Greetings from New Zealand. Thank you for providing the draft Energy Star document on solid-state lighting. Gleb Speranski and I have read the document and have a few minor comments.

1) LED Useful Life, L_70 (p. 3). The minimum value of L_70 is set at 35,000 hours in the draft. We note that a document published by the Illuminating Engineering Society of North America (IESNA TM-16-05) recommends a lifetime of 50,000 hours. Perhaps this value is outdated.

2) Driver Requirements - Minimum Operating Temperature (p. 4). Perhaps this should state: "Driver shall have a minimum operating temperature of –20 degC or below."

3) Minimum Luminaire Efficacy (pp. 5, 6). Should the first sentence in the last paragraph on page 5 read, "Minimum luminaire efficacy levels ..."? Similarly on the left-hand side of the equation at the top of page 6: "Minimum Luminaire Efficacy = ...". In the same equation, 0.8 should be 80, and in the example that follows, 0.7 should be 70 and 0.8 should be 80.

As a final note, I see that the National Institute of Standards and Technology (NIST) is working on a replacement for the CRI that better suits solid-state lighting. A description of the Color Quality Scale (CQS) is given on their website: http://www.physics.nist.gov/Divisions/Div844/facilities/vision/color.html

The draft looks very good and obviously represents a lot of work.

Best regards,

Richard White
Technical Standards Adviser

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