
From: ssl@mathpathoptics.com [mailto:ssl@mathpathoptics.com]
Sent: Tuesday, August 04, 2009 1:02 PM
To: richard.karney@ee.doe.gov; SSL
Subject: Comments of Energy Star Program Requirements for Solid State Lighting

Jason, Richard,

After further review I think the following revisions of my comments submitted last week are appropriate.

On page 9 in section (1) change 'rectilinear' to 'rectangular', so that the model light layout must illuminate a rectangular area.

On page 11 change 1 amp to 350 mA. and change 70% to 60% So the sentence reads "Leading factor should be set to include at least 75% of power LEDs being made, or be at 60% of highest bin efficacy LEDs (at 350 mA per mm²) that is commercially available, whichever is higher. "

In the same section, with regard to the proposed factors related to the luminaire that go into defining E_star_limit, i.e., power supply efficiency, thermal reduction in efficiency, optical luminaire efficiency, these can be changed to values in table 4.3.3 of 2009 MYPP. Some of the values I had proposed were higher.

Note that the MYPP does not discuss (maybe I missed it) the factors in the E_star_limit that dictate energy efficient useability i.e the factor related to light spill (unwasted lumens not spilled out of target area) and the factor related to non-uniformity associated wasted light (unwasted lumens not above minimum spec). Note that these factors are also determined by the luminaire design-i.e., its total lumens & angular distribution as well as the luminaire MH and layout, all of which must be coordinated and coordinatable-which would not be the case for some luminaires.

Regards,
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----- Original Message -----

From: "ssl@mathpathoptics.com" <ssl@mathpathoptics.com>
To: ssl@drintl.com
Date: July 31, 2009 at 12:50 PM
Subject: Comments of Energy Star Program Requirements for Solid State Lighting

Jason,

Attached are my comments on the proposed Energy Star requirements for SSL luminaires. If you would like to discuss any points I'd be happy to discuss them with you.

Regards,
Philip Premysler
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