



NEWS

• **DOE Changes Efficiency Standards**

President Barack Obama and U.S. Energy Secretary Steven Chu announced aggressive actions to promote energy efficiency and save American consumers billions of dollars per year.

Included were major changes to energy conservation standards for numerous household and commercial lamps and lighting equipment.

These new rules, which take effect in 2012,

focus on general service fluorescent lamps and incandescent reflector lamps. According to the Department of Energy, these fluorescent and incandescent lamps represent approximately 38% and 7% of total lighting energy use respectively.

The final rules, as issued by the Secretary of Energy on June 26, 2009, can be viewed and downloaded from the Office of Energy Efficiency and Renewable Energy's website (www1.eere.energy.gov/buildings/appliance_standards/residential/incandescent_lamps.html). The file containing the chart below may be downloaded from there.

new energy
legislation
enacted

The chart below shows the impact of the act on general service fluorescent lamps with new minimum efficacies. It is our understanding that these minimums will do away with the original RE70 T8 lamps and all 4 foot T12 lamps.

Similar standards go into effect in 2012 for general service incandescent lamps as well.

This will undoubtedly have an effect on many programs from electric Utilities, as these lamps are considered the baseline for conservation measures. These new standards are updates to the Energy Policy Act, and do not have to be ratified by Congress.

• **Congress Considers American Clean Energy Leadership Act of 2009 (ACELA)**

As of August 2009, this bill has passed the House and awaits consideration in the Senate. This is the bill you have heard about that creates the whole "Cap and Trade" provisions for carbon emissions. It also sets new efficiency standards for luminaires, motors and significantly tightens energy codes.

This provision directs the DOE to set energy savings improvement targets for residential and commercial national model building energy codes at 30% in 2010 and 50% after 2016. The Energy Secretary may, before 2013, adjust the 50% target date for one or both codes if he determines that a 50% target cannot be met in 2016.

DOE will determine if existing codes meet the new efficiency requirements, and will create a new national energy code if necessary.

Table I.1 Summary of the Amended Energy Conservations Standards for General Service Fluorescent Lamps

Lamp Type	Correlated Color Temperature	Energy Conservation Standard lm/W
4-Foot Medium Bipin	≤ 4,500K	89
	> 4,500K and ≤ 7,000K	88
2-Foot U-Shaped	≤ 4,500K	84
	> 4,500K and ≤ 7,000K	81
8-Foot Slimline	≤ 4,500K	97
	> 4,500K and ≤ 7,000K	93
8-Foot High Output	≤ 4,500K	92
	> 4,500K and ≤ 7,000K	88
4-Foot Miniature Bipin Standard Output	≤ 4,500K	86
	> 4,500K and ≤ 7,000K	81
4-Foot Miniature Bipin High Output	≤ 4,500K	76
	> 4,500K and ≤ 7,000K	72

fall 2009 events.

Registration on Next Page

did you know?

Members of professional design organizations (AIA, NCQLP/LC, ALA, BOC, and others) may be able to receive continuing education credits for attending LDL events.

To self-certify your credits (sometimes called learning units) make sure you keep your Certificate of Completion that we provide at every class.

Learning unit credits are almost always issued at a rate equal to the contact hours. So a 3 hour class would be worth 3 credits.

For information about how your organization works with continuing education credits visit their website at:

AIA
aia.org

ALA
americanlightingassoc.com

ASID
asid.org

BOC
nec.net/boc.htm

BOMA
boma.org

IFMA
ifma.org

IIDA
iida.com

NCQLP
ncqlp.org

All Registrations **must be in advance.**

All cancellations must be at least 48 hours prior to the day of the event.

All late cancellations and no-shows will be charged the full cost of the event.

No registrations or fees will be accepted at the door.

On-line registration is available at <https://www.lightingdesignlab.com/classform.php>

Lighting Workshop.

Bozeman:	Wednesday Sept 9	• 10:00 am - 3:00 pm
Spokane:	Wednesday Sept 16	• 10:00 am - 3:00 pm
Boise:	Wednesday Sept 23	• 10:00 am - 3:00 pm
Portland:	Wednesday Sept 30	• 10:00 am - 3:00 pm
Tacoma:	Wednesday Oct 21	• 10:00 am - 3:00 pm
Seattle:	Wednesday Oct 28	• 10:00 am - 3:00 pm



1) 10 - Noon: **What's New in Lighting: 2009**

The lighting industry is continually evolving and changing. There have been hundreds of new lighting products introduced over the past year and this class will review many of these items. Presented will be luminaires, publications, lamps, controls, ballasts and the many new products that incorporate white LEDs. Also included in the presentation are award winning products recognized throughout the industry.

Noon - 1 pm. Box lunch is included and we answer your project lighting questions in a Q&A session.



2) 1 - 3 pm: **Effective Lighting Retrofits - The Basics and Beyond**

Many of the new or improved lamps, ballasts, and controls in this evolving and changing lighting industry are creating exciting retrofit opportunities. Among these are LED's, the new generation of electronic ballasts, and wireless controls. This class will look at how to effectively apply these advances, and how to calculate the economic justification behind the investment. Included in the discussion will be the latest updates in pertinent energy codes, and LEED language.

Open House 2009 - Thursday, December 10, 2009



10 - 3 **Trade Show**

See the latest lighting and control products and meet your local manufacturer's representatives

11 - 12:30 **Keynote Speaker:** To Be Announced

12:30 - 1:30 **Networking Buffet**

Share experiences and projects with your peers

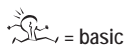
R.S.V.P. info@lightingdesignlab.com

206-325-9711 x0

800-354-3864 x0

206-329-9532 (fax)

Updates at www.lightingdesignlab.com



= basic



= intermediate



= expert

registration form.

Fall 2009 Classes

PAYMENT POLICY: All Registrations **must be in advance**. All cancellations must be at least 48 hours prior to the day of the event. All late cancellations and no-shows will be charged the full cost of the event. Complete and fax this form to 206-329-9532 or Secure On-line registration is available at <https://www.lightingdesignlab.com/classform.php>. Class fees are waived for university students and employees of sponsoring organizations of the Lighting Design Lab.
No Payment or Registration Will Be Accepted At The Door.

registration fee paid by. (circle one)
credit card • enclosed check • Sponsor fee waiver • university student fee waiver

registration information.

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Credit Card Number (VISA & MasterCard ONLY NO AMEX OR DISCOVER) • Please include your CVV Code - last 3 digits of the number on the back of your card near your signature

Expiration Date • _____

Please check the circles of the class you wish to attend (on-line registration available at www.lightingdesignlab.com).

What's New in Lighting 2009 \$30

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Effective Lighting Retrofits \$30

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Class Locations

Bozeman: Bozeman Public Library, 626 E Main St, Bozeman, MT 59715

Spokane: WSU Spokane, 412 East Spokane Falls Blvd (Bookie Building), Spokane, WA 99202

Boise: Idaho Associated General Contractors (AGC), 1649 West Shoreline Dr, Suite 100, Boise, ID 83702

Portland: AIA Portland, 403 NW 11th Avenue, Portland, Oregon 97209

Tacoma: Tacoma Public Utilities, 3628 - South 35th Street, Tacoma, WA 98409

Seattle: Lighting Design Lab, 2915 4th Ave S, Seattle WA 98134

You can register securely on-line. Payment accepted by credit card and check.
<https://www.lightingdesignlab.com/classform.php>

lighting design lab



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