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UNIVERSAL MAKES IT EASY TO COMPLY WITH NEW TITLE 20 REQUIREMENTS FOR METAL HALIDE FIXTURES

NASHVILLE, Tenn. (Feb. 8, 2010) – California is pushing the envelope once again, creating new energy efficiency standards for metal halide lighting fixtures well ahead of the rest of the U.S. Fortunately, Universal Lighting Technologies is already in the market with HID ballasts that make compliance a snap.

The new Title 20 standards apply to metal halide lighting fixtures within the range of 150 to 500 watts manufactured after January 1, 2010. The requirements are the same as EISA 2007 but with a few additions. While EISA 2007 sets 88 percent as the minimum acceptable efficiency for a metal halide ballast in this wattage range and require pulse start ballasts, California's Title 20 now only allows 88 percent efficiency if the fixture also includes one of the following options.

The first compliance option outlined by Title 20 is an HID ballast must meet a minimum energy efficiency requirement of 90 percent for 150W to 250W fixtures or 92 percent for 251W to 500W fixtures. This new standard continues to drive the use of electric HID (e-HID) ballasts, which not only improves energy efficiency but also lumen output and lamp life. Universal Lighting Technologies will begin launching a new line of high wattage e-HID ballasts in 2011 that will meet these requirements.

A second compliance option is the use of an occupancy sensor that reduces lamp power by at least 40 percent within 30 minutes of an area being vacated. HID ballasts from Universal Lighting Technologies are compatible with a wide variety of dual stage capacitors that can be used with occupancy sensors to dim an HID lamp up to 50 percent. An up-to-date table makes it simple to choose the right capacitor, and certain models are available directly from Universal. In a similar manner, a third compliance option is the use of daylight harvesting technologies that reduce lamp power by at least 40 percent.

The fourth option is an HID ballast that will only operate lamps within a certain wattage bin. Universal Lighting Technologies already offers ballasts that allow contractors and installers to replace 175W lamps with 150W models and 400W/350W lamps with 320W models in order to remain in compliance. In addition, an 88-percent efficient 200W ballast is also

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compliant as a replacement for the 250W. For fixtures in the 336W to 500W range, a luminaire must be prepackaged with lamps that allow it to achieve a minimum lamp mean efficiency of 80LPW based on published mean lumens and rated lamp power. Universal's HID ballasts can meet this standard with certain lamps, and therefore it is up to the luminaire manufacturer to select the appropriate model of lamp to ensure compliance.

Exemptions written into previous versions of California's Title 20 remain in effect. These exemptions negate the minimum ballast efficiency requirements for certain metal halide lighting systems if they meet any of the following conditions:

- Luminaires that use regulated lag ballasts
- Luminaires that use electronic ballasts which operate at 480 volts
- Luminaires that a) are rated for use only with 150 watt lamps, b) are rated for use in wet locations [as specified by the National Electrical Code 2002, Section 410.4(A)], and c) contain a ballast that is rated to operate at ambient air temperatures above 50 degrees C, as specified by UL 1029-2001.

As for outdoor metal halide luminaires within the prescribed wattage range, they may comply with option three (daylight harvesting), but they must also comply with at least one of the other compliance options. Furthermore, effective January 1, 2015, indoor metal halide luminaires must comply with option four (wattage bin ranges) in addition to at least one of the other compliance options.

For more information on Universal Lighting Technologies, HID and e-HID ballasts, or California's new Title 20 requirements, call 1-800-BALLAST or visit www.unvlt.com.

For more than six decades, Universal Lighting Technologies, Inc., has been bringing power and precision to the world's most innovative lighting. Headquartered in Nashville, Tenn., with operations and distribution worldwide, the products of Universal Lighting Technologies are marketed under the Universal® and Triad® brand names. Universal Lighting Technologies is focused on designing, manufacturing and distributing the industry's finest lighting ballasts and controls. Universal Lighting Technologies—*Energy Intelligence in Lighting*.

(Title 20 Compliance Matrix on following page.)

Title 20 Compliance Matrix

Lamps	Option 1	Option 2	Option 3	Option 4	Exemptions
150W	90% Efficient	Min. 88% ballast efficiency with occupant sensor reducing lamp power by min. 40% within 30 min of vacancy.	Min. 88% ballast efficiency with an integral daylight control preset to reduces lamp power by a min 40%.	88% efficient * Falls in specified wattage range.	-Luminaire rated for use in wet location & ballast rated to operate above 50°C (or) -Regulated lag ballast (or) -Electronic ballasts operating at 480V
175W	90% Efficient			No Allowance	-Regulated lag ballast (or) -Electronic ballasts operating at 480V
200W	90% Efficient			88% efficient * Falls in specified wattage range.	-Regulated lag ballast (or) -Electronic ballasts operating at 480V
250W	90% Efficient			No Allowance	-Regulated lag ballast (or) -Electronic ballasts operating at 480V
320W	92% Efficient			88% efficient * Falls in specified wattage range.	-Regulated lag ballast (or) -Electronic ballasts operating at 480V
350W	92% Efficient			Luminaire must be prepackaged with lamp such that system provides 80LPW min lamp mean efficacy based on published mean lumens and rated lamp power.	-Regulated lag ballast (or) -Electronic ballasts operating at 480V
400W	92% Efficient				-Regulated lag ballast (or) -Electronic ballasts operating at 480V
450W	92% Efficient				-Regulated lag ballast (or) -Electronic ballasts operating at 480V

Indoor metal halide luminaires manufactured on or after Jan. 1, 2010, shall comply with at least one compliance option.

Outdoor metal halide luminaire manufactured on or after Jan. 1, 2010, may comply with option 3, but must comply with at least one other option.

Indoor metal halide luminaires manufactured on or after Jan. 1, 2015, shall comply with option 4 and at least one other option.