Did you know that the Energy Independence Security Act of 2007 (EISA) mandates the use of pulse start metal halide technology after January 1, 2009?

What is EISA?

The Energy Independence and Security Act of 2007 (EISA) is a federal law that was passed on December 19, 2007 (Public Law 110-140) to move the United States toward greater energy independence and security, to increase the production of clean renewable fuels, while furthering strategies to improve energy performance for the changing global climate landscape.

A section of this bill specifically mandates the regulation of metal halide ballast efficiencies from 150W-500W as used in both indoor and outdoor luminaires. This applies to both manufactured and imported products for sale in the United States on or after January 1, 2009.

Wide-Lite has been committed to energy conservation since being founded in 1954 and is a continued supporter of both federal and state legislation. All applicable products manufactured and imported for sale in the U.S. after January 1, 2009, will be in 100% compliance with EISA requirements.

EISA Details and Requirements

- EISA becomes effective on January 1, 2009
- Ballast efficiencies for 150W-500W metal halide product to be regulated as follows:

BALLAST TYPE	LAMP WATTAGE	Ballast Efficiency
Magnetic Probe Start	150W-500W	94%
Pulse Start	150W-500W	88%
Non-Pulse Start Electronic	150W-250W	90%
Non-Pulse Start Electronic	251W-500W	92%

- Applies to all manufactured and imported products for sale in the U.S.
- Includes all lamp configurations in both indoor and outdoor luminaires
- EISA effectively eliminates the use and sale of 150W-500W probe start metal halide luminaires
- An encircled capital "E" is required to be visible on the ballast and carton labels ensuring compliance Ⓔ
- Retrofitting of existing products is not required by EISA

Exceptions to EISA Requirements

- Non-compliant products manufactured or imported prior to January1, 2009 can still be sold
- EISA regulations do not apply to the following luminaires:
  - products that use regulated lag ballasts
  - products that use electronic ballasts rated for 480 volts
  - products rated only for 150W lamps; AND rated for wet location use as defined by National Electric Code 2002 Section 410.4(A); AND contains a ballast rated to operate at an ambient air temperature above 50° C as specified by UL 1029-2001

A complete summary of the Energy Independence and Security Act of 2007 is available from the National Electrical Manufacturers Association (NEMA) at: http://www.nema.org/gov/energy/upload/NEMA-Summary-and-Analysis-of-the-Energy-Independence-and-Security-Act-of-2007.pdf

Why Use Pulse Start...



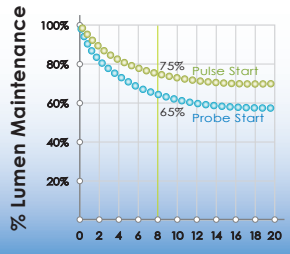


Pulse Start & EISA

Pulse start technology has been around for several years, but with the passing of EISA it has now become the primary technology standard in HID lighting. Systems using pulse start technology improves on all aspects of metal halide lighting, while concurrently providing an environmentally energy conscious solution. Beyond meeting EISA's ballast efficiency requirements, pulse start systems offer many additional advantages:

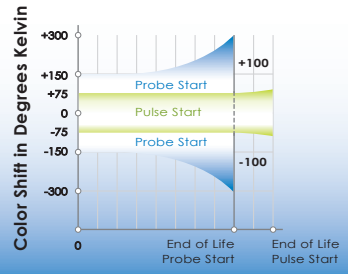
Features	Benefits
Improved Efficacy	Increase in lumens/watt by 25%-50% equals more light at less power
Improved Lumen Maintenance	Lower light loss over life of lamp equals more light at end of life
Superior Color Rendition	30% increase of CRI (85+) allows for much improved color recognition
Reduction in Color Shift	Improved consistency from lamp to lamp at install thru end of life
Colder Starting Temperatures	-30° to -40° F (pulse start) vs. -20° to -30° F (probe start)
Faster Warm-up Times	Reduced by 50% to 2 minutes for lamp to reach full brightness much faster
Quicker Restrike Times	Reduced up to 80% to restrike lamp in 3-4 minutes after momentary power loss

Improved Lumen Maintenance



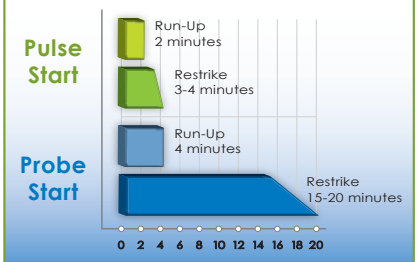
Lamp Life - Hours (000's)

Reduction in Color Shift



Lamp Life

Faster Warm-Up / Quicker Restrike



Minutes to Run-Up / Restrike

EISA Compliant Pulse Start vs. Probe Start Technology

Technology	Lamp Wattage	Mean Lumens	Lamp Life	System Wattage
EISA Compliant Pulse Start	175W	11,200	15,000	198
Probe Start		8,775	10,000	210
Delta		+28%	+50%	-6%
EISA Compliant Pulse Start	250W	16,625	15,000	291
Probe Start		13,500	10,000	295
Delta		+23%	+50%	-2%
EISA Compliant Pulse Start	400W	29,280	20,000	452
Probe Start		24,000	20,000	458
Delta		+22%	same	-2%

**Data referenced in charts was provided by Philips Advance*

Wide-Lite's EISA Solution

Wide-Lite supports all government efforts to conserve energy and we support the metal halide requirements defined in EISA 100%. In turn, all Wide-Lite product will meet 100% compliance. Please look for the following mark on all printed and electronic collateral after the January 1, 2009 effective date confirming EISA compliance when specifying Wide-Lite product.

Visit our web site at www.WideLite.com and enter keyword search 'EISA' for all supporting information.

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