

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF AIR AND RADIATION

November 23, 2004

Mr. Kurt Riesenberg  
NEMA Industry Director  
1300 North 17th Street  
Suite 1847  
Rosslyn, VA 22209

Mr. Terry McGowan  
Director of Engineering and Technology  
American Lighting Association  
3574 Atherstone Road  
Cleveland Hts., OH 44121

Dear Sirs:

It is with pleasure that EPA accepts the data provided in the attached electronic ballast spreadsheet from Keystone Technologies.

This spreadsheet may be made available to light fixture manufacturers via posting to the NEMA/ALA designated Web site at [www.nema.org/lampballastmatrix/](http://www.nema.org/lampballastmatrix/). We will now accept listing on these matrices in lieu of full testing documentation for the following parameters:

- Lumens
- Input Watts
- CRI
- CCT
- Noise
- Lamp Start Time
- Ballast Manufacturer Recommended Maximum Ballast Case Temperature for Performance and hot spot location
- Power Factor
- Lamp Current Crest Factor
- Ballast Frequency
- Transient Protection
- End of Life
- Dimming

We should note that EPA accepts this data provided it adheres to the document we developed together entitled: 'ENERGY STAR Standard Operating Procedures for Accepting Lamp Ballast Combinations from the Proposed NEMA/ALA Matrix'. Further, NEMA and ALA understand that this acknowledgement applies only to those lamp and ballast models listed on the current set of matrices and that future revisions to the lists must also be approved by EPA or its agents.

Sincerely,

A handwritten signature in cursive script, appearing to read "David Shiller".

David Shiller, Product Manager  
ENERGY STAR for Residential Light Fixtures