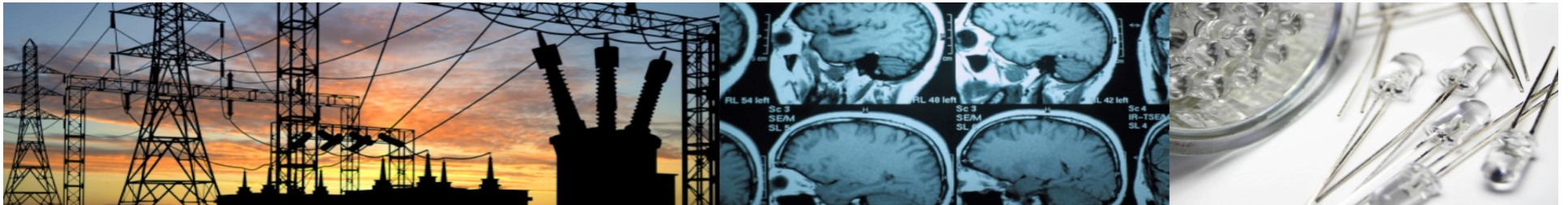


Energy Labelling in Colombia for Lighting Ballasts and LED Drivers

ANSI Washington, DC November 30, 2015

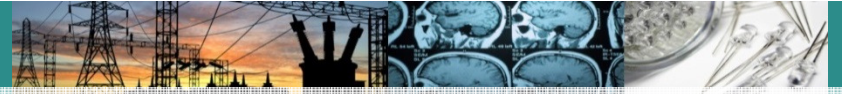


The Association of Electrical and Medical Imaging Equipment Manufacturers



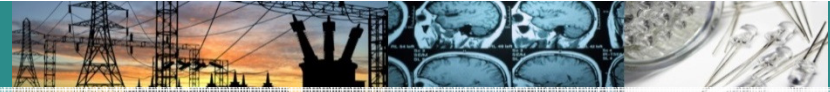


The Association of Electrical and
Medical Imaging Equipment Manufacturers



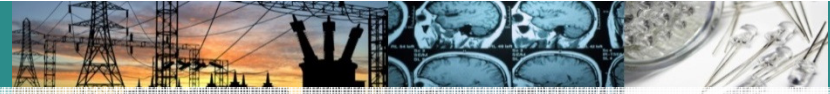
NEMA

- ✎ Represents nearly 400 electrical, medical imaging, and radiation therapy manufacturers
- ✎ Combined industries account for >400,000 U.S. jobs and >7,000 facilities across U.S.
- ✎ U.S. production > \$117 billion per year
- ✎ Our industry is at forefront on electrical safety, reliability, resilience, efficiency, and energy security



Background

-  **Rapid Evolution of Lighting Technology**
-  **North American Lighting Industry and Regulator Transition**
 - From Ballast Efficacy Factor (BEF) to Ballast Luminous Efficiency (BLE)
-  **MINMINAS: Proyecto de Reglamento Técnico de Etiquetado (RETIQ)**



NEMA-MINMINAS Lighting Workshop

September 2015; Bogota, Colombia

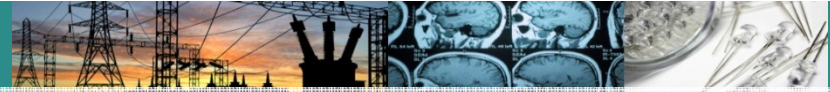
- Mr. Gustavo Dominguez (NEMA Dir., Lat. Am.)

Day One: Gas discharge lamp ballasts

- Mr. Ernesto Mendoza (Philips Lighting)

Day Two: LED drivers

- Mr. Joe Parisella (OSRAM SYLVANIA)



Energía ████████

Consumo de energía **6,8 kWh/año**

Factor Eficacia de Balasto 88 %/W

El consumo energético dependerá del lugar de instalación, modo de uso y mantenimiento del equipo.

Balasto Electromagnético

Marca **BAEMEL**
Modelo **PB01**

Compare este equipo con otros de similares características.

Tensión: **120 voltios**

Potencia: **70 vatios**

Salidas:
Fluorescente 2*32 W

No dimerizable

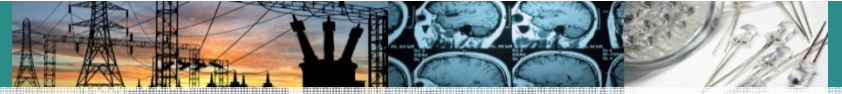
No retirar esta etiqueta hasta que se venda el equipo al consumidor final

Energy KWh



BEF

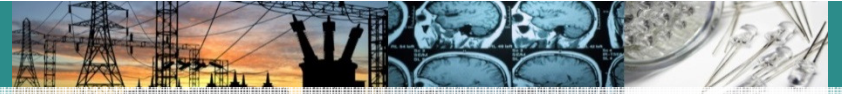
Input Voltage

Input Power





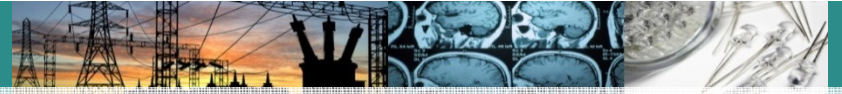
Action Items

-  MINMINAS to review proposal for new ballast energy efficiency labeling, to transition from BEF to BLE, in Q1 2016?
-  MINMINAS to review draft proposal for LED driver standard for safety based on UL, ANSI, and NEMA standards in Q2 2016?



Action Items (2)

-  MINMINAS to review draft proposal for LED driver performance standard based on ANSI, and NEMA standards in Q3 2016?
-  MINMINAS to review draft proposal for LED replacement lamps performance standard for safety based on UL, ANSI, and NEMA standards in Q4 2016?

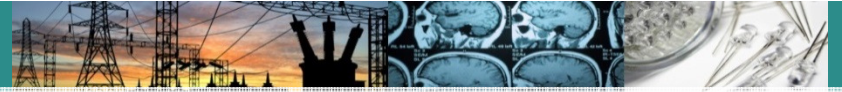


Questions

- 💡 Does Colombia have an annual standards development and/or adoption program plan?
 - Lighting
 - Other electrical and electronic equipment
- 💡 Is this available publicly? to NEMA & ANSI?



The Association of Electrical and
Medical Imaging Equipment Manufacturers



Questions? Thanks for Your Attention!

Craig Updyke

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Manager, Trade and Commercial Affairs
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