

KUMHO ELECTRIC USA, INC.

Advanced Lighting Technologies

Kumho Electric: Leadership and Innovation

For over 50 years Kumho Electric, Inc. has been providing high-value, energy-efficient lighting solutions for Korea and the world.

Kumho Electric, Inc., a global leader in lighting technology, is headquartered in Seoul, South Korea, where its primary research, engineering and corporate offices are located. Founded in 1935, it now has manufacturing plants throughout Asia. In 2007, Kumho Electric established a US distribution center in California to enable it to market lighting products under its own brand name after years of providing private label products to original equipment manufacturers in the US.

Known for its technical innovation, Kumho has pioneered energy-efficient lighting products that set the standard for quality and reliability, winning top industry awards year after year. Its reputation is based on a history of providing state-of-the-art products at competitive prices with environmentally sensitive practices.

With commercial products ranging from small parts and components to complete general lighting systems, the company has been recognized as an innovator in lighting technologies. Its offerings encompass a wide spectrum, from back-light panels for computer and display manufacturers to specialty solutions for the automotive industry.



Kumho Electric Corporate Office (Seoul, South Korea)

Kumho Electric's technological leadership begins with its people. By employing some of the best talent not just in lighting engineering, but also in chemistry and physics, the company maintains a tight focus on research and development, which leads to a continuous stream of product enhancements and innovations. Key accomplishments:

- **Kumho Electric** is a pioneer in Cold Cathode Fluorescent Lamp (CCFL) development. These high-efficiency, long-life lamps are a critical component in LCD TVs and monitors. Today, Kumho Electric is the preferred supplier for manufacturers of leading brands of large LCD monitors and Back Lit Units (BLU) for color mobile phones, laptop computers and LCD TVs.
- **The Korea Management Association** has recognized Kumho Electric with its Energy Grand Prize in 2005, 2005 and 2007 for its R&D activities that have resulted in lighting products with very high energy efficiency that significantly reduce power consumption. Many other top awards and distinctions have been granted to the company for its technical leadership and environmental practices.

Kumho Electric is headquartered in Seoul, South Korea and has manufacturing plants throughout Asia. US operations are located in Rancho Cucamonga, California.



Chang Shui, China



Osan, South Korea



California, USA

Kumho Electric offers top-of-the-line lighting solutions and successfully meets the needs of the most demanding customers in a wide range of industries:



GENERAL LIGHTING:

Products for residential, commercial and industrial applications, including:

- **Elemental** - Solid, dependable, reliable T-8s used by thousands of companies around the world
- **Earthcare** - Super-Efficient T-8 lamps: same light, 10% less energy
- **Thundervolt** - Super-Bright T-8 lamps: more light, same power consumption
- **Sequoia** – Very long life (120,000 hrs) matched lamp/ballast assemblies (T-5)



INDUCTION LIGHTING:

Next-generation induction lamps with much longer life expectancy and much slower lumen depreciation.



BACK-LIT UNIT: Fully assembled light units using either CCFL or LED light sources to provide the right color rendering and brightness for TV, computer, phone and other display screens.



CCFL: High-luminance, low power-consumption lamps capable of achieving a wide range of color temperatures. CCFLs are thin, light-weight and energy efficient.



LED: New Q-LED technology makes these small and durable lights ideal for a variety of applications, including those requiring AC or DC 12V operations or those requiring controllable dynamic colors.



AUTOMOTIVE:

Specialty high-quality lighting solutions for the automotive industry, ranging from passenger cars to trucking and recreational vehicles

History & Milestones

2000-2007— Kumho is awarded numerous prizes and certifications, including Energy Winner 2008; Korean Standard-Quality Excellence Index; 2006 Export Achievement Award; WELL-BEING certification; Korean Standards Grand Prize; Energy Winner 2006 and Stone Tower Order of Industrial Service Merit

Apr. 2005 – Launches high energy savings UX FPL 32W lamp

Apr. 2005 - ISO 14001 environmental management certification

Feb. 2005 - Develops 2m CCFL, longest in the world.

Nov. 2004 - Signs exclusive agreement with Harvatek Corporation to supply and distribute LED

Oct. 2002 – Starts operation of Osan Factory

Jan. 2002 - Establishes Shanghai Kumho Lighting, Ltd.

Nov. 2000 - Exports fluorescent lamp manufacturing facility to Myanmar

Oct. 2000 -- Completion of mass production CCFL line

Sept. 1999 - Introduces production equipment for CCFL from CKD Co. in Japan

Mar. 1997 - ISO 9001 certification and JIS approval

Oct. 1996 - Begins exporting compact fluorescent manufacturing equipment

Dec. 1994 - ISO 9002 certification for the lighting division

Sept. 1993 - New head office building in Mapo-Gu, Seoul

Feb. 1993 - Installs automated special lamp (CD) production line

Dec. 1992 - Begins construction of Kwangju Factory (Factory #3)

May 1989 – Kumho Electric is awarded the Quality Mark for its lighting products

 **KUMHO ELECTRIC USA, INC.**

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