



The Specifier

An update of lighting and application developments

- Linear Fluorescent
- CFL
- Halogen
- Ballasts
- CMH®
- LEDs-GELcore

LightFair 2005 Highlights

GE introduced many exciting new products at this year's LightFair in New York City...from fast warm-up CFLs to programmed-start ballasts. Here are the highlights, with links to detailed specification sheets. For a complete listing of all the GE products featured in the GE booth, [click here](#).

Linear Fluorescent

F28T8 Offers Maximum Energy Savings

GE's F28T8 lamp provides the lowest wattage available in a 4-foot T8 lamp, without sacrificing quality. The F28T8 lamp has excellent color rendering, is TCLP compliant, and is now available in 5000K. When combined with GE's UltraMax™ ballast in a 4-lamp system, this 96-watt system offers a 35% reduction in energy consumption vs. a standard, 148-watt T12 system, making it an ideal solution for schools, hospitals, offices and retail applications. ([F28 spec sheet](#))



T5 Ecolux® Reduced-Mercury Lamps

GE offers the broadest T5 family of reduced mercury linear fluorescent lamps in the industry. All nine wattages of GE T5s are TCLP compliant, deliver 85 CRI and 94% lumen maintenance and are available in 5000K versions. Combined with the new GE T5 UltraStart™ programmed-start ballast, a 4-lamp fixture with GE 54-watt Ecolux lamps can replace a 250W HPS system for significant energy savings while providing even more light. In addition, a GE UltraStart™ T5 system has no restrike or warm-up delays and offers both sensor and dimming capabilities. ([T5 spec sheet](#))

CFL



Triple Biax® Plug-in Lamps Warm Up 50% Faster

GE's new plug-in Triple Biax® lamps warm up to full brightness 50% faster than existing products. All Triple Biax lamps are TCLP compliant, rated at 12,000 hours life and reduce energy costs by up to 75% over the life of the lamp compared to incandescent. The newly-improved amalgam design still offers excellent performance in broad temperature ranges and consistent light output in various burn positions. Available 3Q 2005. ([Fast warm-up spec sheet](#))

Halogen



PAR38 Enhanced Optical Performance

Improved optics that offer precise beam control and improved efficiency will be available 3Q2005 on all GE PAR38 halogen lamps—Retail HIR™, Silver Saver™, HIR™ and standard. These high-performance halogen sources deliver more light on the target, minimize stray light, eliminate hot spots and provide a smoother, rounder beam.

Retail HIR™ Halogen

By combining an exclusive thin film HIR™ and silver coating technologies, GE has developed Retail HIR™. Retail HIR is up to 42% more efficient than standard halogen and delivers up to 27% energy savings, making it the most efficient PAR38 lamp currently available. The HIR-coated filament tube virtually eliminates UV-B and UV-C radiation, making Retail HIR an excellent choice for heat-sensitive retail and museum applications. Offered in a variety of wattages and beam spreads, Retail HIR is rated at 4,000 hours—twice the life of standard halogen. ([Retail HIR™ spec sheet](#))

Ballasts

New UltraStart™ Programmed-Start Ballasts Save Energy Without Sacrificing Lamp Life

GE's UltraStart T8 and T5 ballasts are ideal for frequent-switching applications where occupancy sensors and daylight harvesting techniques are employed.

T5 UltraStart™

- Rapid startup (0.7 seconds)
- > 100,000 on/off cycles
- > 90% ballast efficiency
- Step dimming
- Ballast factor 1.0
- Multi-volt
- Availability: 54-watt version now (operates 1-4 lamps); additional wattages due 2005/2006



T8 UltraStart™

- Rapid startup 0.5 seconds; similar to instant start of 0.2-0.4 seconds
- Parallel operation: if one lamp fails, the remaining lamps on the ballast remain lit
- > 100,000 on/off cycles
- > 90% ballast efficiency (same as UltraMax™); 7%-14% more efficient than competition
- Ballast factors: Ultra-low watts (XL) at .60; Normal (N) at .87; High Light Output (H) at 1.15
- Multi-volt (XL and H versions); 120V and 277V (N version)
- Availability: September 2005

[\(Ultra Brochure\)](#)

Ceramic Metal Halide



20-watt ConstantColor® CMH® PAR20 Lamp Wins LightFair 2005 Best of Category Award

GE's 20PAR20 CMH® lamp is an ideal solution for retail accent lighting applications, particularly where energy savings and long life are critical. The 20PAR20 CMH® provides more than twice the CBCP and three times the rated life of a standard 50PAR20 halogen lamp, and it has the same CBCP as a standard halogen 75PAR30SP10! The 20PAR20 CMH® is available for immediate shipment in two beam spreads: an 8° spot at 13,000 CBCP and a 25° flood at 3750 CBCP. GE 20PAR20 and 20PAR30 CMH® lamps are offered in 5 beam spreads for design flexibility, and they deliver performance that will help meet strict watts-per-square-foot energy codes. ([20-watt PAR CMH® spec sheet](#))

GELcore



New Tetra™ Power White LED System is 10 Times Brighter

This brilliant new system gives retail, restaurant, and hospitality chain operators a bright, low-voltage alternative to older technologies like white neon tubes or fluorescent lamps. Well suited for outdoor signage and interior cove lighting applications, Tetra™ Power White provides the user with fewer system changes, lower maintenance costs, and fewer disruptions due to burn-out or broken tubes. Built for endurance, this lamp lasts up to 50,000 hours and is 10 times brighter than typical white LEDs. ([GELcore Web site](#))



[Printable pdf version](#) | [Subscribe to E-mail List](#) | [Visit GELighting.com](#)

Send comments/suggestions to: Cheryl.Maenza@GE.com