

# Retail Environments

www.retailenvironments.org | MARCH/APRIL 2010

## GLOBAL SHOP 2010



limited time design

limited time design

designer corner

designer corner



moments worth remember  
the sights, the sounds, the smells

**Economic FORECAST**  
for 2010/2011

**Retail Design Collective REVIEW**

PSRT 510  
U.S. POSTAGE  
PAID  
Lebanon Junction, KY  
Permit #624

## Shedding Light on Retrofits

**AS RETAILERS SEEK A RETURN ON GREENING THEIR STORES**, they often look to lighting as low-hanging fruit. For designers and lighting consultants advising them, recent information outlines what to expect.

According to a new report by New York-based research and advisory firm Cleantech Approach, paybacks for replacing conventional retail lighting with LED lighting are quickest (just over two years) with replacements of halogen and incandescent directional lighting under 500 lumens. Least attractive at 7.8-year paybacks are replacements of metal halides for directional lighting over 500 lumens. Covering pricing, lifetime costs, efficacy, and payback, the study benchmarks LED lighting against both low- and high-intensity incandescent, halogen, CFL, linear fluorescent, and metal halide lighting for warm and cool white color applications in retail. The report includes data on reflectors and accents, omni-directional lighting, and downlights as well as office and residential lighting. For a free copy, visit [www.cleantechapproach.com](http://www.cleantechapproach.com). An earlier report on BigNews.biz indicated a nine-month payback for replacing incandescents in exit signs with LEDs.



Photo: © Heatings Lighting Co., Los Angeles

Starbucks, meanwhile, began converting incandescent and halogen lighting to LED lighting in all company-owned stores in the U.S. and Canada in November. The retailer now is expanding the conversion program internationally, aiming to complete installation in more than 8,000 company-owned stores by the end of 2010. Starbucks projects a 7 percent per-store reduction in energy use upon completion. Starbucks worked with a lighting company to develop an LED product

that met its needs. Wal-Mart also announced plans to replace metal halides at 650 stores this year with LEDs, citing energy and product life savings as well as glare reduction; the retailer is using recessed LED downlights in new stores.

In eco-labeling and standards news for LEDs:

- Underwriters Laboratories has published its first safety standard for LED lighting. ANSI/UL 8750 creates a global platform of safety requirements for LED lighting equipment and the components used in lighting products employing LED technology.
- New eligibility criteria for EPA's voluntary Energy Star label for commercial integral LED lamps is being challenged by a Minnesota manufacturer. Once Innovations claims that the new 150 Hz criteria was based on erroneous speculation and hinders the industry's ability to offer low-cost LED lighting.
- The Federal Trade Commission has proposed changes to lamp labeling requirements to better communicate facts facilitating product comparisons, such as emphasizing lumens over watts.

### Carpet Standard Steps Up

**THE CARPET AND RUG INSTITUTE (CRI)** has phased out its Green Label standard for carpet. The certification program has been replaced by Green Label Plus, which measures 13 compounds against standard criteria, as well as total volatile organic compounds, within a carpet product. Green Label Plus addresses carpets and carpet adhesives; Green Label is still used for carpet cushioning.

### Integrating Green Building Efforts

**PRACTICING THE INTEGRATION THEY PREACH**, green building organizations are working together. The World Green Building Council now includes the U.K.'s BRE Global among its membership. BRE, developer of the Building Research Establishment Environmental Assessment Method (BREEAM) is the only member that's not a Green Building Council.

BRE Trust, a U.K.-based research and education charity, has established a new International Sustainability Alliance to drive the development of international standards for new and existing buildings. Seeking to encourage consistency of metrics and reporting, the alliance will work with international companies, Green Building Councils, research institutes, and other stakeholders. Endorsing the new organization is the International Council of Shopping Centers. For information, visit [www.bre.co.uk/page.jsp?id=2019](http://www.bre.co.uk/page.jsp?id=2019).

A new kid on the green building block is the Green Building Foundation, a non-profit whose mission is "to restore communities in need through the combined leverage of sustainable buildings and neighborhoods, stewardship, and mission-related investment." The foundation seeks to connect philanthropy with programs that support green building projects. For information, visit [www.greenbuildingfoundation.org](http://www.greenbuildingfoundation.org).