



BRIGHT IDEAS

Lithonia Introduces Omero Architectural Area & Roadway Luminaires

Lithonia Outdoor expands its presence in the Architectural Outdoor market by introducing another product family—Omero™ Architectural Outdoor Illumination. This exciting addition to the Lithonia Outdoor portfolio changes Lithonia Lighting's position in the Outdoor market by offering the Aeris™ Family and Omero™ Family, the most comprehensive, design-coordinated families of architectural luminaires in the market today.

Engineered to meet the highest performance standards, Omero luminaires deliver one signature look from the building entrance to the far reaches of the site. Industry-leading optics maximize illumination uniformity and luminaire efficiency and uses precise beam control to minimize glare and light trespass. Built to withstand the rigors of harsh outdoor elements, the Omero Family is sleek in appearance with its low-profile design and concentric circular layers. Omero luminaires offer flexibility in size, mounting method, lamp sources and wattages, giving lighting designers more opportunity to reveal forms, define spaces and enhance architectural environments.



New From Hydrel Pathway 3100 Series



Hydrel is pleased to announce the new 3100 Series bollards. These fixtures provide simplified geometric forms that will both complement and blend with a variety of architectural settings. Rugged in design and exceptional in performance, these bollards will meet even the most demanding installation requirements. Available in four different shapes and two standard heights.

A remarkable blend of **DESIGN + PERFORMANCE** makes the 3100 Series bollard an excellent lighting solution for pathway applications. Light patterns are wide and pleasingly uniform. Structural integrity is unmatched, and the use of superior materials and long-lasting finish promises decades of use with minimal maintenance. Rugged reliability is a Hydrel trademark, and the 3100 Series bollard is no exception.

Vandal-Resistant Base

Extruded aluminum pillar welded to top and bottom plates provides maximum structural integrity.

Durable Louver Assembly

Interlocking die-cast aluminum louvers provide impact-resistant assembly.

Ease of Installation

Removable access door creates easy access to patented 6-point internal level mount system and wire splice make-up.

Convenient Ballast Access

Ballast lift allows for easy component maintenance and wattage exchange.

Increased Efficiency

High reflectance white finish on underside of louvers optimizes performance and increases pathway light levels.

IES Cutoff and Reduced Glare

Standard matte black finish on topside of louvers creates cutoff distribution and minimizes glare.

Optional Forward Throw Distribution

Forward throw reflector redirects backlight increasing performance by 50%.

New From Gotham 4-Inch Elevations



Gotham's Elevations pendants have inspired many architects and lighting specifiers to expand their horizons since the product introduction last year. This activity is really no surprise as the designer can select from a variety of sources and decorative touches that suit the space—all utilizing Gotham's exclusive Bounding Ray™ optics and unique Candèo® and ICE™ decorative downlights.

4" Elevations pendants are the natural extension and complement to the existing 8" pendant family. Like its older sibling, the 4" Elevations pendant is all about design flexibility!

Select Bounding Ray Reflectors or Glowing Italian Glass

- A-Lamps, ED-17, compact fluorescent and PAR lamps are optimized in Gotham's 4" A, AH, AFV and APR reflectors.
- Glass shields are available in white, blue or amber—matching popular Candèo and ICE pendant colors

New Mounting Options

- An elegant 4" wall-mount option provides visual continuity with other pendants in the space.
- The optional GRS recessed mounting frame places ballasts and emergency battery packs above the ceiling. A shallow canopy covers the 4" opening.

Cord Mount or Surface Mount

- Cord mount (120" provided) is available to provide a traditional pendant look and mounting height flexibility.
- The surface-mount option allows mounting of the pendant directly to the ceiling when mounting heights are not optimal.



Illuminations for the 21st Century

Excerpts from LITECONTROL's study on lighting. Part five of a five part study.

Suspended indirect and indirect/direct lighting has finally come of age.

In the 21st century, architectural design and renovation projects are turning away from recessed parabolics and troffers, toward suspended architectural fluorescent lighting systems as the preferred method for illuminating commercial and institutional spaces.

Facility owners are becoming more aware of the benefits resulting from improved technical and aesthetic designs. Acceptance of the benefits of suspended indirect and indirect/direct lighting systems continues to grow as increased awareness that the installed cost of such systems is now very similar to recessed parabolics (and in some cases, less). This growing awareness makes possible the upgrade of many schools and other institutional facilities, as well as commercial office buildings, to take advantage of lighting performance advances that result in a better quality of light, mood enhancement, and improved productivity and learning. Long term advantages include operating cost savings resulting from fewer fixtures and lamps, fewer lamp replacements, easier maintenance, and reduced energy costs.

Growth of Suspended Linear Lighting

Although lensed troffers and recessed parabolics (see Fig. 2.) are effective in getting light down to task surfaces and are relatively inexpensive to buy, these direct lighting fixtures still utilize 1970's technology and have several drawbacks when used in modern classrooms and offices. They create strong shadowing on task surfaces. They also create glare in the form of veiling reflections on reading materials. There is a common perception of a "cave-like" atmosphere because of non-uniform light distribution from the recessed fixtures. This non-uniform distribution means that there may be radical differences in footcandle levels delivered to various locations within the space. Flexibility in furniture layout is, therefore, severely limited when such lighting systems are used. Some attempts have been made through the use of more sophisticated lenses and deep gold baffles to reduce glare and improve appearance, but effects on performance have been generally minimal with little or no aesthetic improvement. In recent years, the problems associated with glare on computer screens have become a serious issue in academic, research, and office environments when direct lighting is

used. And, with an increasing trend toward architecturally compatible fixture designs, recessed fixtures in the ceiling grid are becoming less desirable because there is no contribution to the aesthetic character of the space.

Suspended fluorescent lighting, on the other hand, addresses all of the aforementioned shortcomings of direct lighting fixtures, which are so commonly specified, based on initial cost only. The indirect component of a suspended system creates a more uniform distribution while minimizing shadows and glare. Pendant-mounted (suspended) fixtures with indirect or indirect/direct distribution can be configured in patterns, straight rows, or as individual fixtures. In many cases, wall-mounted fixtures with a complementary design add an aesthetically pleasing design element to the architectural space while enhancing vertical surface illumination. Even greater visual appeal is offered through architecturally relevant fixture shapes and the availability of a wide range of fixture colors. In recent years, with the continuing evolution of fixture designs, the installed cost of suspended systems has become comparable to recessed parabolics.

Recessed parabolics provide one choice – 100% pure direct (downlight) distribution. Suspended and wallmounted systems, on the other hand, offer multiple distribution choices from 100% direct to 100% indirect (uplight), or any combination in-between. Low batwing distribution and high efficiency mean fewer fixtures and lower cost in large open spaces. Compared with a typical recessed parabolic fixture, the indirect and indirect/direct systems can achieve the desired maintained average footcandles, with the same or fewer fixtures, better ceiling uniformity and lower power consumption. Typical installed costs of suspended systems resemble those of recessed fixtures while performance costs show suspended fixtures generally provide better quality lighting for less overall cost.



Fig. 1



Fig. 2

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KLI is known as the premiere lighting manufacturer's representative in Hawaii since 1976. In general, we promote our lighting manufacturers through Architects, Engineers and Designers and distribute through wholesale electrical houses.

KLI was originally incorporated in 1976 under the name KLOPFENSTEIN'S and operated out of a house in Hawaii Kai. In December of 1987 we moved our operations into our present location on Nuuanu Ave in Downtown Honolulu. In 1997 we reincorporated as KLOPFENSTEIN'S LIGHTING INC (KLI).

Our primary purpose is to provide the best product for your application with efficient service for all your needs.

SHORT CIRCUIT

Ledalite designs for LEED

MesoOptics Technology

Ledalite's recessed luminaires with MesoOptics technology can help architects and designers achieve exceptional lighting quality and substantial energy savings. The PureFX™ and Vectra product families provide a uniquely luminous environment while using up to 35% less energy than standard recessed fixtures. In one Seattle case study with Affiliated Engineers (AEI), PureFX 2x2 luminaires (1TT5 40W) were used to reduce lighting loads to 0.59W/sq.ft, beating ASHRAE 90.1-1999 by 60% and helping the project earn 4 credits towards LEED-C1 Silver certification.

Ergolight Controls

Ledalite's Ergolight Controls lighting systems are optimized for sustainable building projects. Since its launch in 1998, Ergolight Controls has had considerable success in the marketplace with several large, high-profile installations throughout North America reporting energy savings of up to 87%. Notable recent projects include the CalTrans District 7 Headquarters in Los Angeles which installed more than 3,000 luminaires with Ergolight Controls. The project has earned LEED Silver certification and was recently honored at the IESNA's International Illumination Design Awards where it won the Lumen West

New From Winona Panels

Winona Lighting is proud to introduce our newest line of high quality decorative lighting. Inspired partially by its predecessor, Cylinders; Panels is a collection of pendant, ceiling mount and wall mount fixtures that use laminated glass or acrylic lens to create unique forms. Fixtures are offered in various sizes and lamp combinations that make finding a design to fit your application a snap.

A new screen-printing technique has been developed to provide alternatives to typical acrylic lens choices.

Standard metal finishes include brushed aluminum and light bronze paint. As with all Winona Lighting products, the ability to be modified is built right in. Modifications such as changing finishes, changing details, stem lengths, and lamp packages are easy to accomplish for your projects.

F.Y.I.

1. KLI is proud to represent the following lighting manufacturers in Hawaii:
 - [WILA LIGHTING](#)
 - [JESCO LIGHTING](#)
2. Upcoming Manufacturer's Visit(s):
 - 7-9 August [USA ILLUMINATION](#)—Neil Rettig.
 - 15-17 August [PROGRESS LIGHTING](#)—Mike Domokos.
3. PROGRESS LIGHTING's June 2006 Supplement is now available and are currently enroute to those of you that have either a binder or #127 Catalog.

