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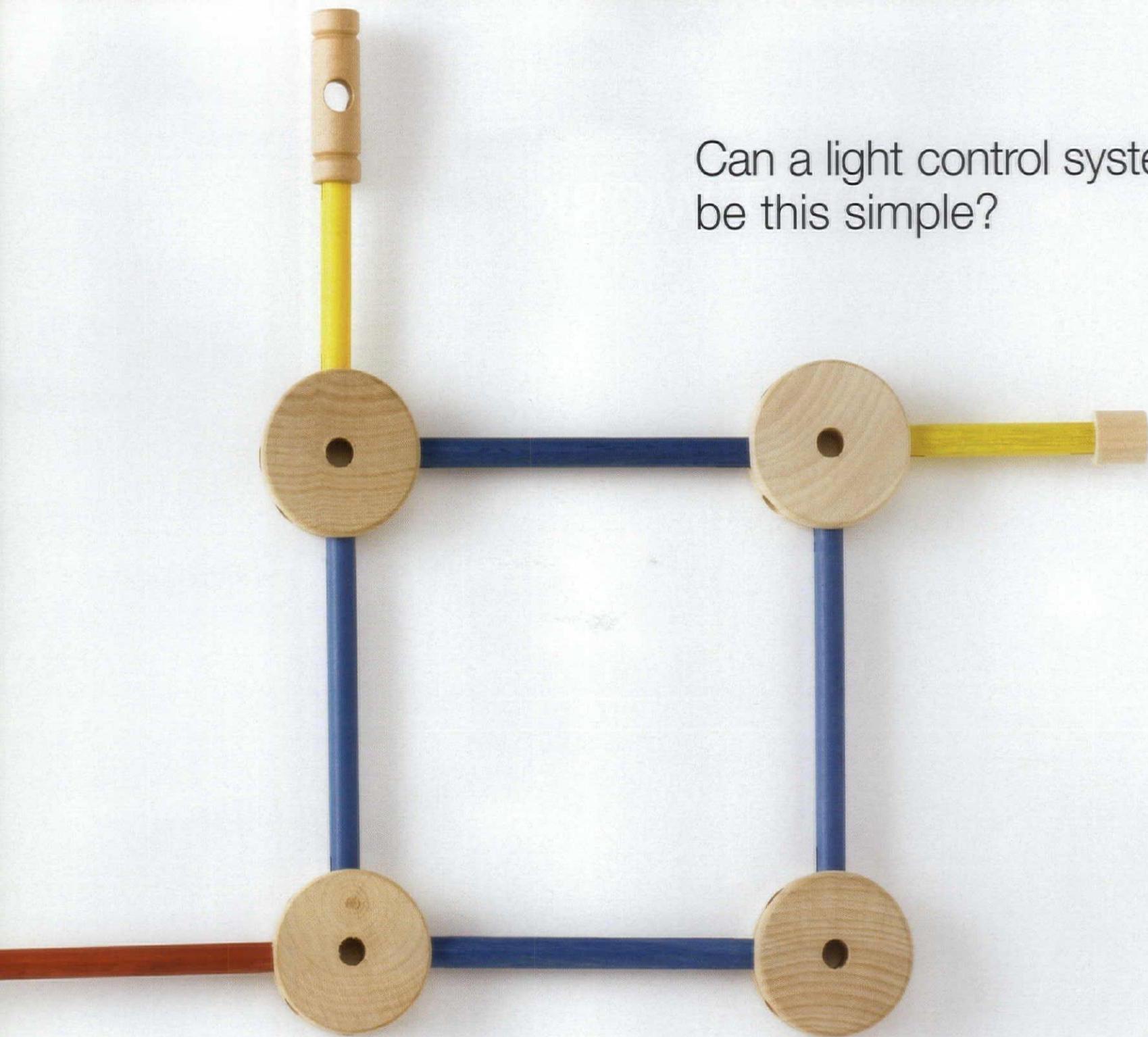




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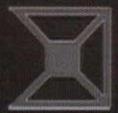
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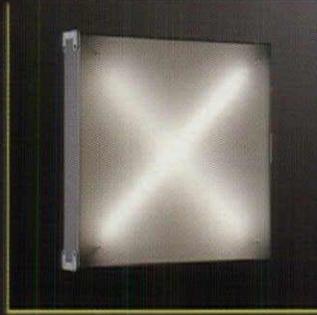


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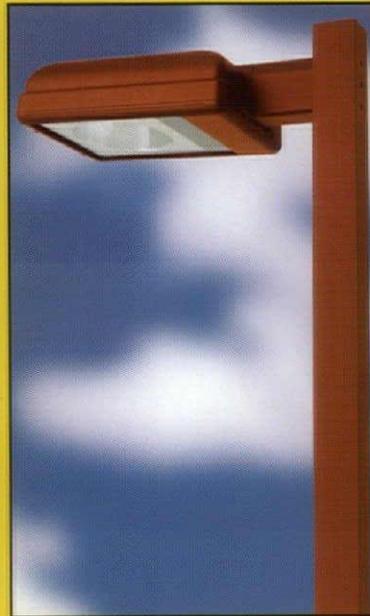
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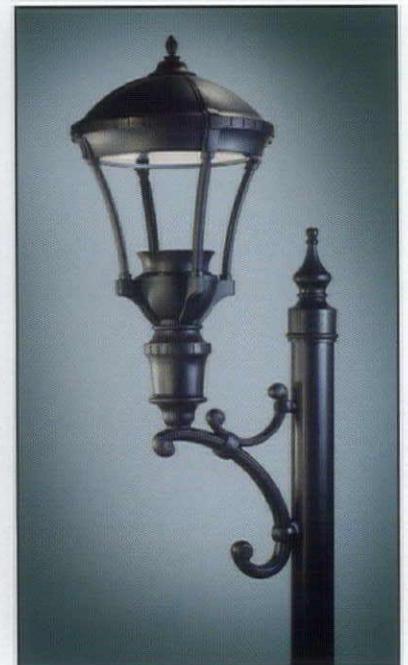
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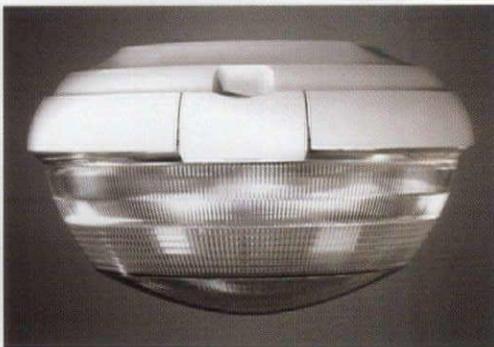
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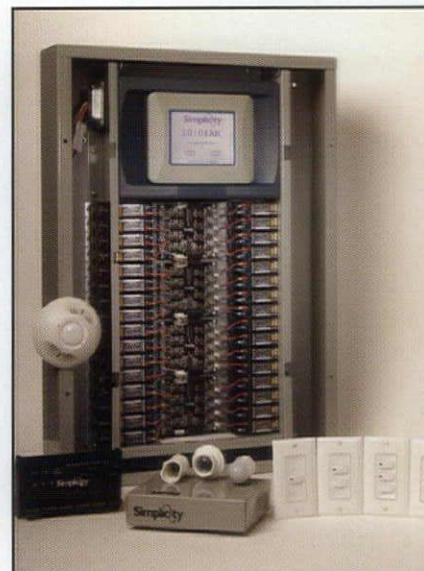


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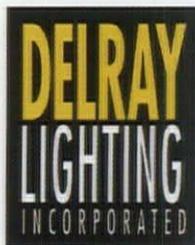
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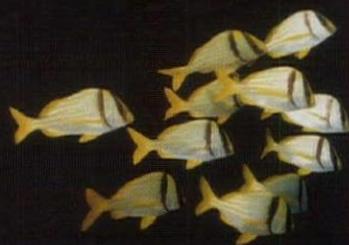
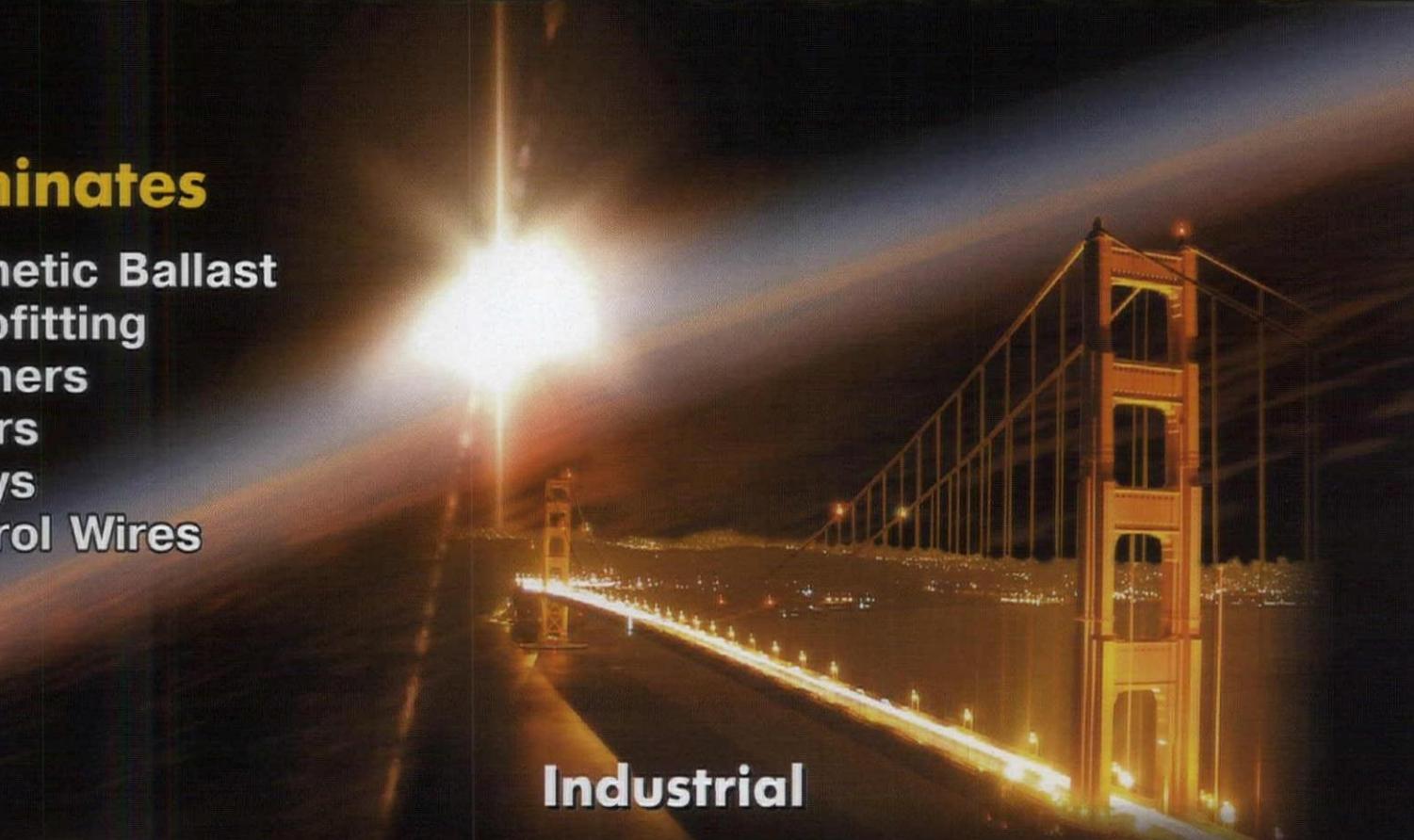
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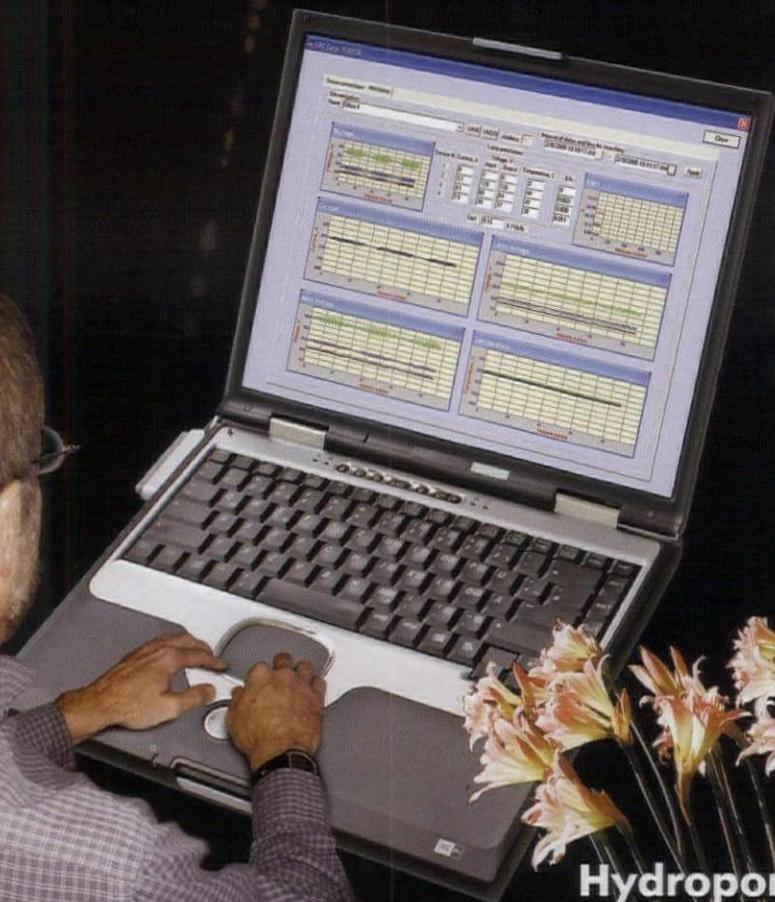
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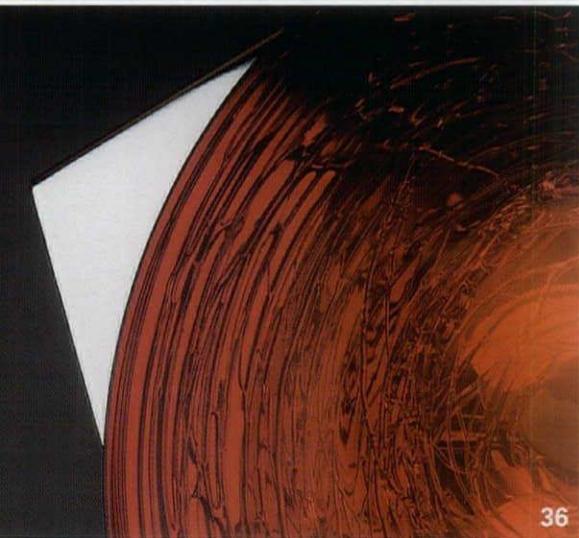
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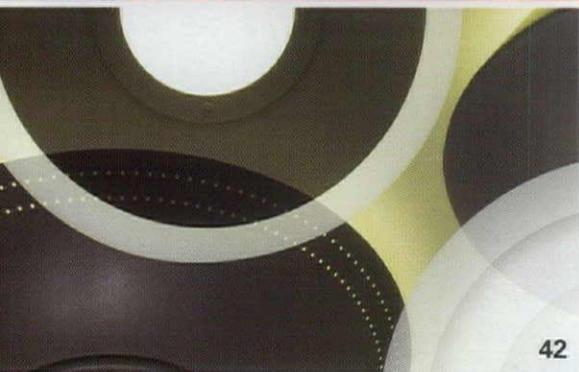
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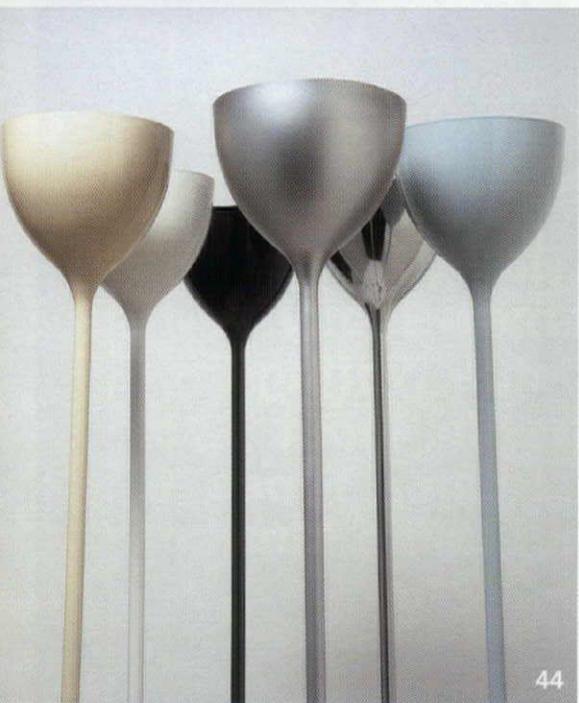
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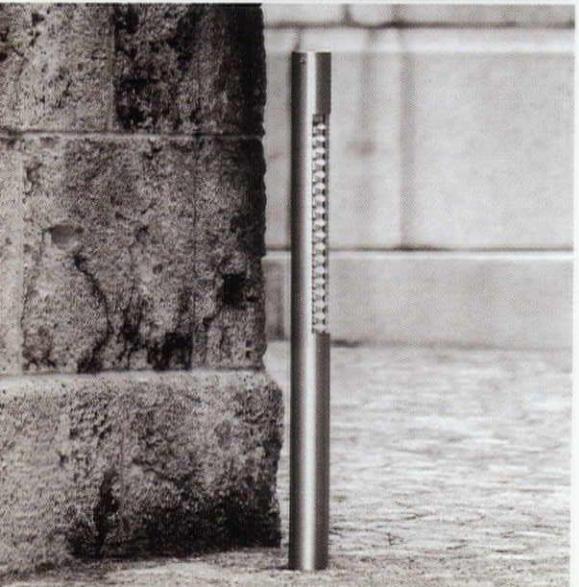
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Cover: A selection of products from Lighting Services Inc, Osram Sylvania, Lampa, Resolute, LucePlan, Color Kinetics, Times Square Lighting, Mechoshade, Fanimation, and Louis Poulsen (left to right, top to bottom).

This page: Leucos's Brio; LiteControl's Inde-Pendants/ADA Sconces; Rotaliana's Drink; and Visio's Fiaccola.

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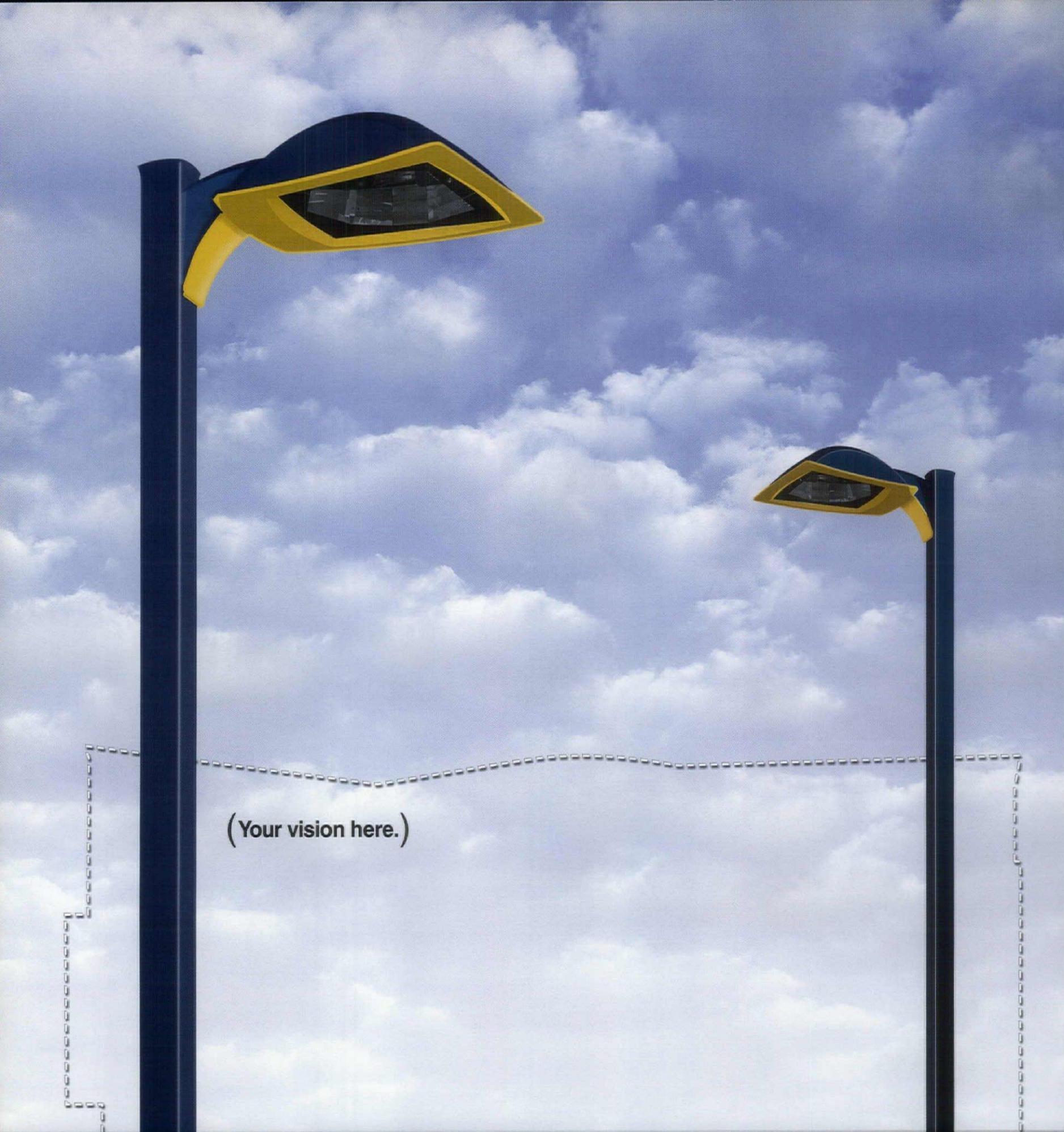
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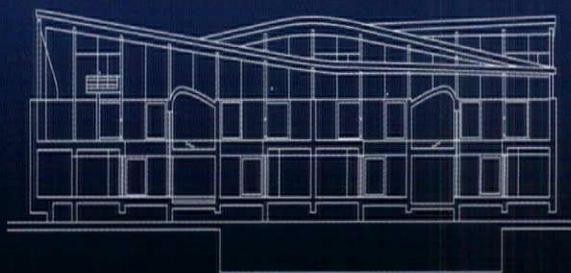
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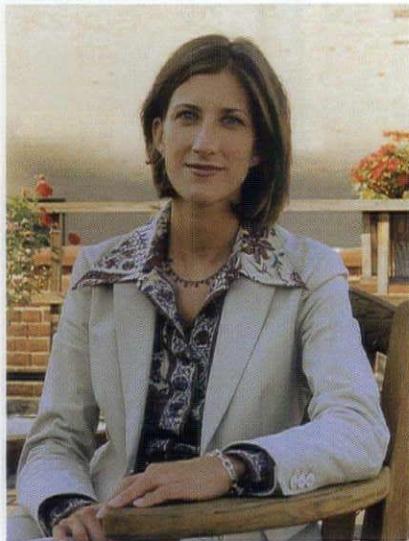


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New York City Light Tour

WELCOME TO NEW YORK CITY, A|L'S HOMETOWN. GIVEN THE MAGAZINE'S relationship to the design industry, I will assume that most of A|L's readers have at least visited New York, if not spent substantial time here. Those who have not yet experienced the city first-hand will more than likely arrive with one or two well-reviewed travel books and the suggestions of friends. There are an infinite number of ways to thematically approach a few days in New York, and many of them have already been addressed by

creative guidebooks. To date, however, I have not found a handbook to interesting lighting sites, of which there are many in New York.

In honor of Lightfair 2005 and all of our out-of-town visitors with an eye for lighting, we would like to provide a few suggested views. Like everything else in Manhattan, there is an excess of good lighting design. This is only a sampling of compelling projects completed since Lightfair was last in New York. Some have been recognized in the media, others not, but all are worth an appreciative look. We hope Lightfair does not leave you too tired to enjoy a few of the following.

FAO SCHWARTZ, FIFTH AVENUE AND 58TH STREET Reopened in November 2004, the renovated FAO Schwartz interior is now defined by its expansive ceiling. Nearly 80,000 LEDs stretch across the plane, with the capacity to change color and to create scenes. Visible from outside, the entertaining ceiling detail promises to put FAO Schwartz back on the map as a tourist destination in New York City. (INTERIOR DESIGN: ROCKWELL GROUP; LIGHTING DESIGN: FOCUS LIGHTING)

HUDSON RIVER PARK, SEGMENT 4, PIERS 45 AND 46 Featured in A|L's September/October 2004 issue, the redevelopment of several piers on Manhattan's West Side is testament to the role lighting plays in urban-revitalization. (LANDSCAPE ARCHITECT: ABEL BAINNSON BUTZ; LIGHTING DESIGN: DOMINGO GONZALES ASSOCIATES)

IRISH HUNGER MEMORIAL, BATTERY PARK CITY Winner of a 2004 A|L Light + Architecture award, the memorial is a unique combination of lighting and landscape architecture. (ARCHITECTURE: 1100 ARCHITECTS; LIGHTING DESIGN: JOHNSON SCHWINGHAMMER LIGHTING DESIGN)

MILSTEIN HALL OF OCEAN LIFE, AMERICAN MUSEUM OF NATURAL HISTORY Anyone with a childhood memory of the massive floating whale in the Hall of Ocean Life will be happy to know that the room seems reborn by renovations completed in May 2003. The highlight of the spruce-up is the theatrically lit laylight, which creates an underwater-like shimmer. The project won a 2004 Lumen Award of Excellence. (ARCHITECTURE: POLSHEK PARTNERSHIP ARCHITECTS; LIGHTING DESIGN: BRANDSTON PARTNERSHIP, WITH DAVID CLINARD)

NOMADIC MUSEUM, PIER 54 AT 13TH STREET A 45,000-square-foot building designed by Shigeru Ban to house the large-scale photographs of Gregory Colbert, the museum offers a wonderful exhibit through June 6, 2005, as well as a striking architectural lighting statement. Please see page 18 for more on the Nomadic Museum. (ARCHITECT: SHIGERU BAN; LIGHTING DESIGN: ALESSANDRO ARENA)

PORTER HOUSE, NINTH AVENUE AND 15TH STREET The zinc-paneled façade of the 10-story condo building is punctuated with light boxes. The bar-code effect of the vertical elements is striking at night, when one catches an unexpected view of the structure across 15th Street. (ARCHITECTURE AND LIGHTING DESIGN: SHOP ARCHITECTS)

SCARANO & ASSOCIATES ARCHITECTURAL OFFICE, 110 YORK STREET, BROOKLYN The building would otherwise go unnoticed by the many cars and Q-train riders that pass over the Manhattan Bridge daily, but for the colorful lighting that dramatizes the structure's steel truss roof. From dusk until 2:00 a.m., passersby get the unexpected gift of an LED-illuminated roof that changes color based on the whim of the designers inside. (ARCHITECTURE AND LIGHTING DESIGN: SCARANO & ASSOCIATES)

TIME WARNER BUILDING, COLUMBUS CIRCLE While not necessarily a favorite with architectural critics, the Time Warner building designed by Skidmore Owings & Merrill and completed last year houses high-end shopping, eating, and performing arts venues, many of which incorporate well-designed lighting. A lighting effect—somewhat gimmicky, but appropriate for the commercial character the area has acquired—has recently been added to the façade of the building.

EMILIE W. SOMMERHOFF
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LIGHT CONGRESS RECAP

LIGHT CONGRESS 2005 BROUGHT TOGETHER A DIVERSE GROUP OF LIGHTING INDUSTRY PROFESSIONALS and practitioners in Midtown Manhattan this past February. Three moderated panel sessions focused on current topics within the industry—LEDs, the environment and energy, and lighting design trends that are shaping the future.

Chadwick Moore, of the National Park Service, delivered the keynote address on the subject of the night sky. A physical scientist who has been studying and documenting the loss of this resource, Moore estimates that "dark skies" will be lost in 48 of the 51 states by 2025. As a result, people are turning to the national parks as the last resource for night sky gazing. Yet, even the parks are in danger, and have experienced a noticeable change in their "dark sky" status. But unlike other side effects of development, such as eroded topsoil and species extinction, Moore believes the loss of the night sky is reversible, and that the national parks offer a great venue for exploring new methods and technologies. Working with manufacturers like GE, Musco Lighting, and Osram Sylvania, the National Park Service is implementing a series of initiatives to explore conservation opportunities before it is an absolute requirement. Updates to the Grand Lodge at Yellowstone and the incorporation of LEDs in cave environments to reduce photosynthesis are two of the programs currently underway toward reversing the night sky epidemic.

Dr. Nadarajah Narendren, of the Lighting Research Center, moderated a discussion of current LED issues presented by representatives from Color Kinetics, Lamina Ceramics, Philips Lighting, iLight Technology, and Osram Opto Semiconductors. Solid-state lighting is of international interest. In his opening comments, Dr. Narendren noted that government-sponsored programs have been working toward achieving a light source 10 percent brighter than an Edison bulb, and it is possible that a 150W LED source will be available by 2012. As the timeline for this technology increases, and develops well beyond the architectural arena, the question is what are the responsibilities that come with such a technology, and are we taking the right steps in its implementation?

In the second panel, moderated by Peter Jacobsen of Con Edison, the focus was the environment and energy. Presentations reviewed current legislative regulations and their impact on both the design and manufacturing side of the lighting industry, current daylighting practices, and the impact of sustainable design and LEED. A third panel, moderated by lighting specialist Leni Schwendinger looked at utility and design, and new forms of cross-disciplinary collaborations between scientists and artists, designers and technicians, as we improve the quality of our visual landscape. With such a wealth of knowledge in the room, it was a shame that there was only a moderate audience turnout. For more information, visit www.lightcongress.com. **A|L**

LRC RESEARCH INITIATIVES

"ASSIST RECOMMENDS" REPORT PROPOSES LED INDUSTRY GUIDELINES

With the explosive growth of the LED market, especially in the last three years, manufacturers and designers are fast incorporating solid-state lighting components into their products and projects. In a presentation made in October 2004 at the Intertech LED conference, Jagdish Rebeloo, senior industry analyst with iSuppli Corporation, presented extraordinary growth numbers in the high-brightness LED market; in 2003 it grew by 65 percent and in 2004 high-brightness LEDs accounted for \$2.8 billion, nearly 60 percent of the total LED market.

Despite the awareness among lighting design professionals of the necessity for a set of LED guidelines, given the rapid growth rate for this technology and its markets, industry and illumination performance standards have been slow to emerge; that is, until now. The Alliance for Solid State Illumination Systems (ASSIST), an LED industry group established by the Lighting Research Center (LRC) at Rensselaer Polytechnic Institute in Troy, New York, has recently published the first generation of recommendations "to define the life of LED components and systems used in general lighting, including methods for measuring life and sample data recording sheets." The paper is intended for LED component and system manufacturers, and is a giant first step in establishing product and industry standards.

The report, titled "ASSIST Recommends: LED Life for General Lighting," defines the life of an LED lighting product by the amount of light output depreciation and the appropriate light levels for different lighting applications. Because LEDs rarely experience catastrophic failure, the report uses the term "useful life" in its definition to indicate the point at which light output from an

LED product has decreased to an unacceptable level for the lighting application. The recommended useful life for general lighting applications is 70 percent lumen maintenance, and 50 percent lumen maintenance for decorative lighting applications.

The recommendations in the ASSIST report are gathered from LED life tests performed at the LRC, and lighting community and LED manufacturer input. In the issued press release, Dr. Nadarajah Narendren, director of research and head of the solid-state lighting program at the LRC explains, "The purpose of 'ASSIST Recommends' is to help manufacturers present information to end users in a consistent manner." A free download of the report is available at the LRC website at www.lrc.rpi.edu/programs/solidstate/assist/recommendations.asp. **A|L**

LRC PARTNERS WITH BOEING

The LRC has also recently partnered with Boeing to develop innovative and efficient lighting solutions for commercial aircraft. Specific project collaborations will include evaluation of current aircraft interior lighting designs, and to research new lighting concepts and requirements, with particular focus on Boeing's super-efficient 787 Dreamliner jet. The collaboration is part of the LRC's Partner Program, a joint effort between academia, industry, utilities, public benefit organizations, public advocacy groups, and government to "provide leadership and coordinate efforts to advance the effective use of light." In 2004, the LRC worked with Boeing to evaluate LED and halogen passenger reading lights to understand current fixture performance and recommend new specifications to improve reading light quality. **A|L**

RIGHT LIGHT 6

FOR THE FIRST TIME IN ITS FOURTEEN-YEAR HISTORY, THE RIGHT LIGHT CONFERENCES PROGRAM WILL be held outside of Western Europe. The venue this year: Shanghai, China. From May 9 to 11, leading experts will present over 100 papers discussing energy-efficient lighting technology, applications, policy, and program design topics. Right Light 6 will be held concurrently with one of China's largest lighting fairs, the China Association for the Lighting Industry (CALI) annual exposition and trade show (May 11-13). As the conference agenda statement explains, "The change in venue recognizes the fact that Asia has taken on a leading position in driving the world lighting markets. Further, lighting energy use (and resulting emissions) is growing most rapidly in East Asia, so the conference is being held where the biggest impacts of energy-efficient lighting can be made." Holding the conference in China also allows energy-efficient-lighting specialists to meet Chinese manufacturers, regulators, and policy-makers, as the lighting community maps the direction of the industry. Additionally, with the 2008 Summer Olympics being held in Beijing, many of the world's leading architects and lighting designers are vying for building commissions in China.

One of the distinct aspects of this year's conference will be a special session to discuss compact fluorescent (CFL) standards for the United States, China, Australia, and Europe. Specifically, the session will cover: recent revisions and pending new changes to the U.S. DOE and EPA Energy Star Specifications for CFLs and fixtures; draft revisions to the European Union's Greenlight Regulations; draft pro-

posals for the coordination of Chinese Certification and ELI CFL standards; and draft proposals for the coordination of Australian and Chinese CFL standards. Representatives from each organization will make a presentation regarding the proposed revisions to each standard, and conference attendees will be invited to discuss and offer comments on the proposals in an open-forum session.

Right Light 6 is a collaborative, not-for-profit conference organized by the International Association for Energy Efficient Lighting (IAEEL) and the UNDP/GEF/NDRC-funded China Greenlights Program, in cooperation with the Australian Greenhouse Office, the UK Market Transformation Program, the U.S. Environmental Protection Agency STEM (the Swedish National Energy Agency), and the International Finance Corporation.

The first conference was held in Stockholm in 1991 under the name "Right Light Bright Light." Since then, four conferences have occurred: 1993 in Arnhem, Netherlands; 1995 in Newcastle, England; 1997 in Copenhagen, Denmark; and 2002 in Nice, France. Proceedings from the first four Right Light conferences are available on the IAEEL website, www.iaeel.org. Proceedings from Right Light 5 are available at the European Council for an Energy Efficient Economy's website, www.eceee.org.

For additional information about this year's conference, Right Light 6, go to www.rightlight6.org or contact the conference coordinator, Nils Borg, at info@RightLight6.org.

TWO TO SEE WHILE IN NEW YORK CITY

TWO THOUGHT-PROVOKING EXHIBITS TO CATCH WHILE VISITORS ARE IN TOWN FOR LIGHTFAIR ARE "Ashes and Snow" at the Nomadic Museum on Pier 54 and "Extreme Textiles: Designing for High Performance" at the Cooper-Hewitt, National Design Museum.

"ASHES AND SNOW"

Downtown, on Manhattan's Westside, the Hudson River Park's Pier 54 at West 13th Street plays host to the Nomadic Museum and "Ashes and Snow" exhibit through June 6, 2005. The 45,000-square-foot structure designed by architect Shigeru Ban is the largest temporary exhibition space ever created in New York; even more noteworthy is its construction of shipping containers and paper tubing. The rectangular industrial tent-like structure is an interesting counterpoint to the ephemeral exhibit within—over 200 large-scale photographic works and an accompanying film by artist Gregory Colbert. The images document Colbert's 13-year exploration of the natural interaction between humans and animals, and the extraordinary moments that can occur between the two—from the young boy kneeling before an elephant beside a riverbed to a young girl "dancing" with an eagle among Egyptian temples.

The combination of materials (shipping containers, paper columns, a walkway of scaffolding plank, and beds of river stones that set off the sepia-toned mixed-media photographic works), along with a haunting soundtrack, make for a unique experience that engages all of the senses. For more information, visit www.ashesandsnow.org.

"EXTREME TEXTILES"

Opening April 8 and running through October 30, 2005, "Extreme Textiles" will exhibit over 150 technical textiles—highly engineered materials designed for ultimate performance in extreme conditions. The exhibit explores recent advancements in technical textiles and the structures and techniques used to create them. Applications range from architecture, apparel, medicine, transportation, aerospace, and the environment. Items on display are organized according to their



Architecture, light, art, and music come together to create a haunting experience for visitors to the Ashes and Snow exhibit, housed in the Nomadic Museum currently at Pier 54.



PHOTOS THIS PAGE BY GREGORY COLBERT

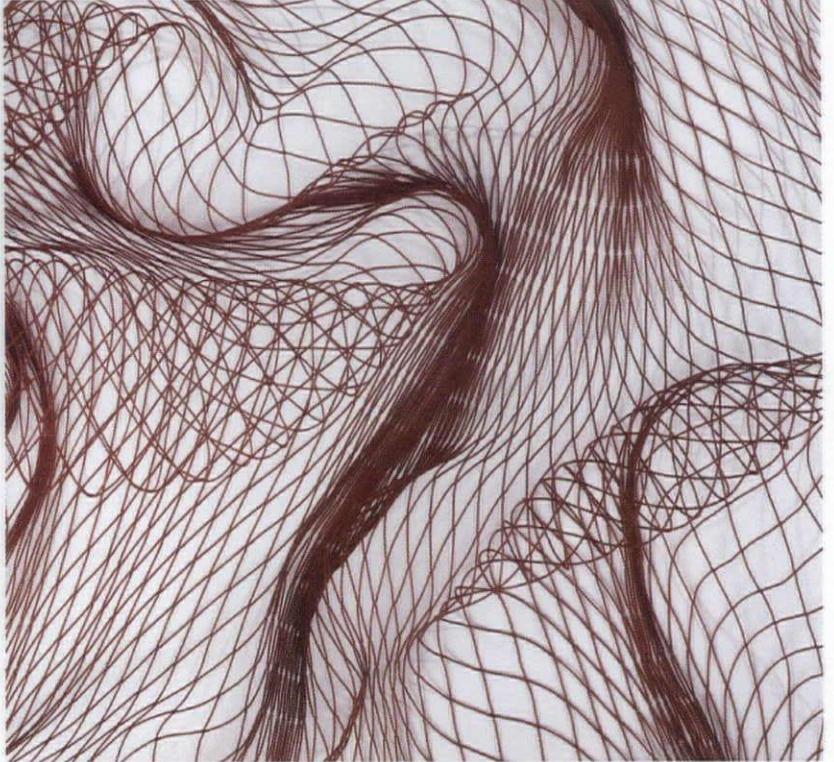
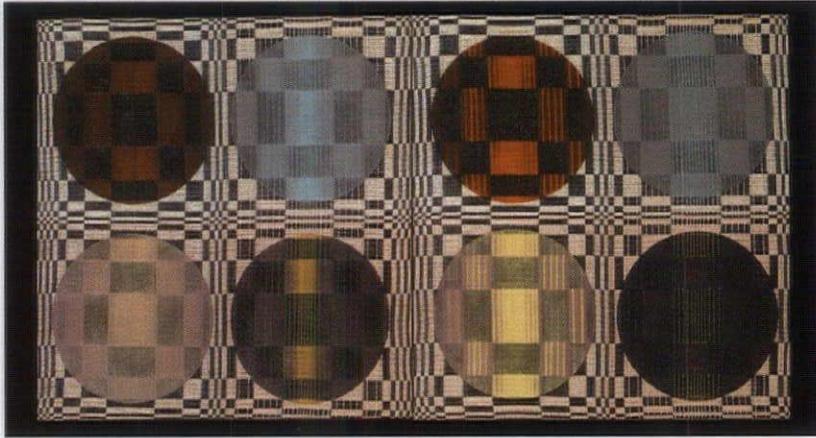


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high-performance characteristics—stronger, lighter, faster, smarter, and safer.

Smart textiles—which incorporate computer and telecommunications technologies, provide responsive feedback, and allow for interaction between material and user—have emerged as a significant area of study and development. Designers and scientists are also incorporating lighting elements like LEDs into smart textiles and experimenting with thermochromic pigments that change color with heat fluctuation. Some examples on display include a fabric architecture installation titled the Zip Room, which incorporates low-voltage DC power for solid-state lighting, and StitchSwitch, a light switch made from embroidered and woven conductive yarns.

In conjunction with the exhibit, a symposium will be held on May 12, titled “The Space between Science, Technology, and Design” and will address the relationship between science and design in textiles technology. For more information about the exhibit and symposium, go to www.cooperhewitt.org.

Dynamic Double Weave, (left) designed by Maggie Orth, manufactured by International Fashion Machines, U.S.A., 2002; Fishing net, manufactured by Toray Industries, Japan, 2003 (above).



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A NEW COMPANY ON THE BLOCK: IEPC

LIGHTFAIR IS THE LIGHTING INDUSTRY'S RUNWAY FOR NEW PRODUCT TECHNOLOGY. MANUFACTURERS SPEND A YEAR TINKERING, tuning, and testing behind closed doors, in order to offer something exciting to their customers at this show; sometimes the critics are impressed, sometimes they're not. This year, exhibitor IEPC Vari-Ballast believes it has something that will sufficiently wow its audience. IEPC is attempting to bring to market an electronic HID ballast that is capable of running metal halide or high pressure sodium lamps of different wattages (35W to 1650W) and input voltages, and of programmable timing and dimming via a wired or wireless connection. All of the pieces that make this possible—the dimmer, timer, scheduler, and scene-control features—are included in one 4- to 10-pound enclosure. The company will be ready to take orders at Lightfair, after receiving its TUV/UL certification in March. According to founder and president Ron Flores, IEPC will also start beta testing its product at 50 to 75 sites around the country, including in gyms, parks, and street lights. Interestingly, IEPC will be able to monitor all beta site installation data remotely, thanks to the nature of the product technology.

"I've been around this kind of technology for 30 years," says Flores, who spent most of his career in the aerospace industry, until he realized the potential in the lighting marketplace. "I could see where I could take the knowledge I had gained working with high-technology weapons and implement that in the lighting industry."

Like any enthusiastic inventor, Flores is convinced his product will completely transform lighting specifications. "Let's say you are a big-box retailer, and you have 400-watt lamps up there," he explains. "Let's say you want to go to 320 watts—that is a complete retrofit. They would have to take everything down and put everything back up. With my product, if they wanted to change lamps, they could put the new lamp in there, tell the system, and be done. Do you realize the impact of this?"

Speaking anonymously, an industry executive familiar with the IEPC technology noted that despite the industry's efforts to date, he has "yet to meet an electronic HID ballast that doesn't have an issue." Mimicking the development curve of the electronic fluorescent ballast a few years ago, the electronic HID ballast is at the bottom of the upswing. "But I would say IEPC is further ahead in terms of trying to combine in an electronic HID ballast the ability to save energy, to provide control without outside apparatus, and to monitor it as a fixture or device in the field."

As the industry continues to veer toward the energy-efficiency angle, products with the capacity for dimming and smart control will have the ear of potential end-users. Its debut at Lightfair will determine whether newbie IEPC Vari-Ballast can indeed hold the community's attention. **AIL**

MORE RESPONSE TO MARCH EXCHANGE QUESTION: THE ROLE OF LIGHTING IN A DESIGN EDUCATION

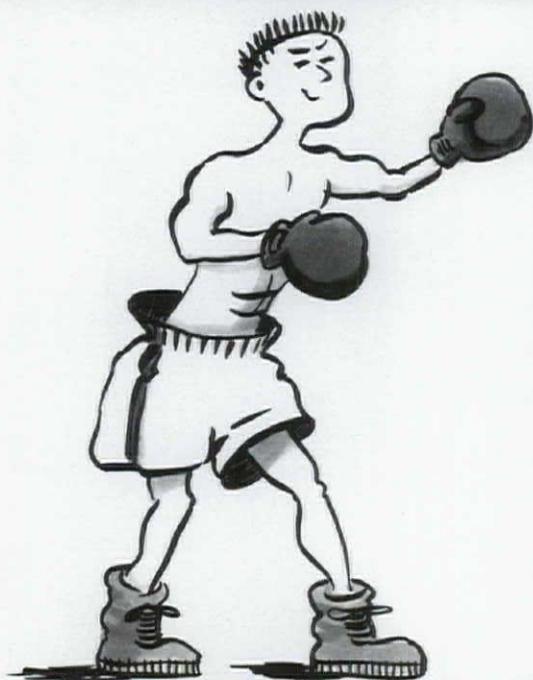
Lighting is an intangible design field and is much more difficult for the building owner to understand and evaluate quality. The IES and the IALD must make it a top priority to not only educate the designers of lighting but the general population as well.

The power of lighting is in the way it reveals the other design disciplines. Every discipline suffers from part-time outsiders doing their work and for lighting that includes engineers, architects, interior designers and reps. Part-time designers do not have the time to study the issues and give the owner the proper choices, equipment and depth that the full-time professional can. The question for the owner is a matter of how important is it to have a full-time professional designing their project. If there are full-time architects, interior designers and landscape designers on the project, there should be a full-time lighting designer.

No way can the current lighting design firms handle all the lighting design today. However, the other trades, especially reps should be the first to promote full-time lighting professionals and not do-it-themselves.

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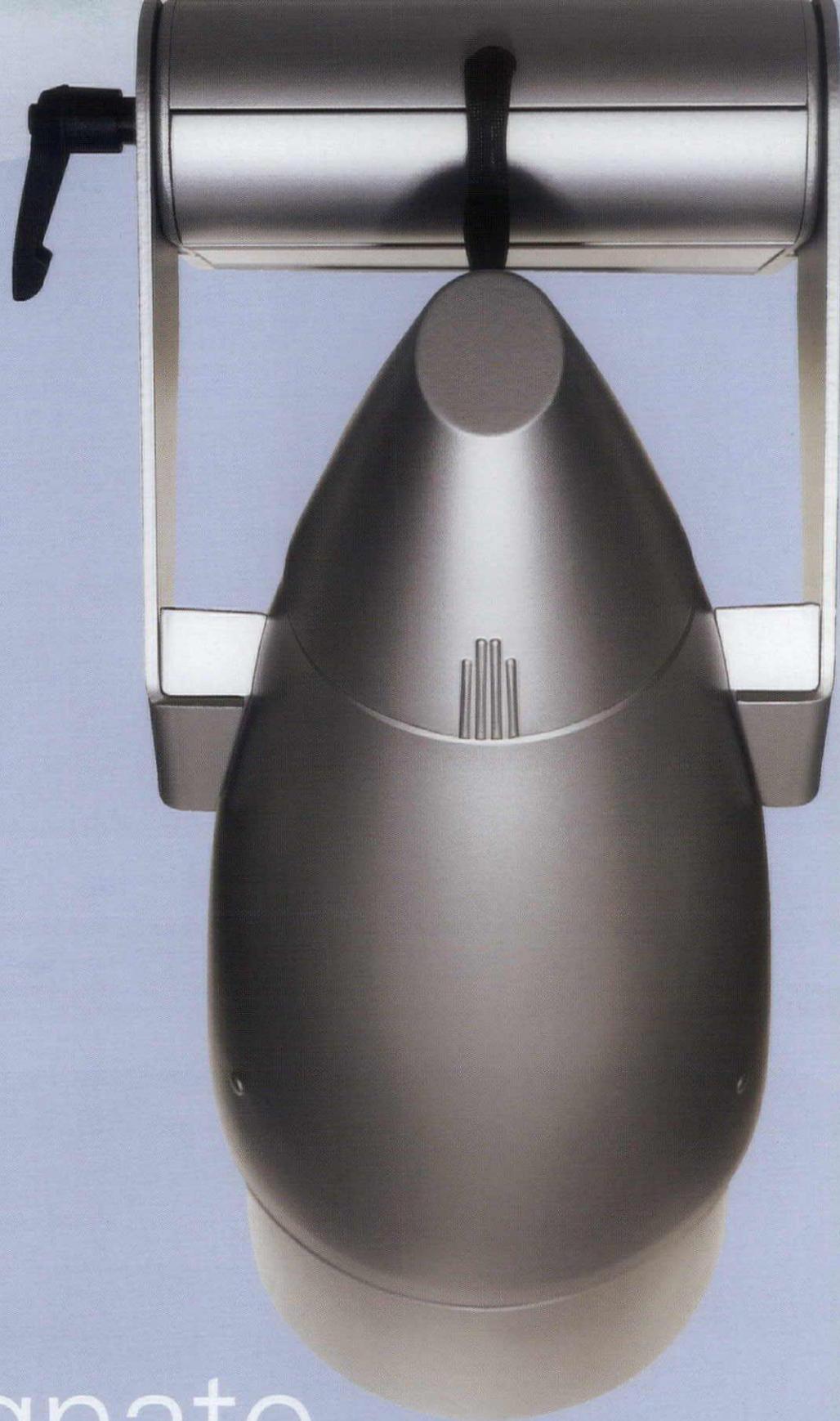
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Daylighting Design Update: One Year Later

JAMES BENYA

A YEAR AGO IN THIS COLUMN, I COINED A PHRASE "21ST CENTURY DAYLIGHTING" TO help differentiate a modern multidisciplinary approach from traditional daylighting designs associated with architectural fashion. Whether or not the title will stick, the practice of daylighting is changing rapidly thanks to significantly increased resources, breakthroughs in design tools and philosophy, and a variety of new products.

EXPANDING RESOURCES

In the last few years, a considerable amount of daylighting research has been funded by the California PIER (Public Interest Energy Efficiency Research) program and through California's utilities. For instance, the landmark research work by the Heschong Mahone Group that documented improved student test scores in daylighted classrooms was funded by the Daylighting Initiative of Pacific Gas and Electric (PG&E). Since then, additional work in this area and expanded research in other related areas has been undertaken, and the aggregate impact of all of this has placed daylighting on the front burner of energy issues in California. Most recently, a full daylighting lab, classes, and a design assistance program has blossomed at Southern California Edison's new Southern California Lighting Technology Center in Irwindale, matching services available through PG&E at the Pacific Energy Center and at the California Lighting Technology Center in Davis (near Sacramento).

In the Pacific Northwest, the Better Bricks Daylighting Laboratories have grown and expanded their services to the entire region served by the Northwest Energy Efficiency Alliance (NEEA). Fully equipped and instrumented artificial skies and heliodons are now available for public use in Seattle and Portland, with design assistance from trained experts. Classes are offered throughout the region.

At the Lighting Research Center in Troy, New York, the Daylighting Dividends program was recently created to disseminate design and project-related information about daylighting. Related projects, such as work on photocells and other technical elements, are also being conducted there. Established organizations—including the Energy Center of Wisconsin's Daylighting Collaborative, the New Buildings Institute, and Lawrence Berkeley Laboratory's Windows and Daylighting Group—continue to provide free information, tools and publications. Try Googling "daylighting" and be prepared to spend several hours sifting through the results.

DESIGN TOOLS

What has made daylighting design so difficult until now is the lack of specific design tools. While large architectural practices with a full team of consultants can undertake complex daylighting analysis, the everyday school, office, or retail store project has no such budget, and design tools that enable rapid assessments are the only way to go. Development of these products is crucial to the success of daylighting. Some of the most important developments include:

- **SkyCalc** Historically, the vast majority of skylights have been much too large, causing overly high light levels, localized thermal discomfort, and increased air conditioning energy use. Whether it is a residential kitchen or the world's busiest airport, poorly designed skylights have turned many energy-efficient projects into energy pigs.

SkyCalc is a Microsoft Excel template, accompanied by climatic data for many of North America's cities. It is actually a mini-energy analysis program, taking into account data about the building, including the cost of energy, the building type and operating schedule, the lighting and mechanical systems, and the proposed skylight design. SkyCalc produces a graph showing the energy savings as a function of skylight-to-floor ratio (SFR). For anyone with moderate Excel skills, SkyCalc is easy to use and provides an extremely accurate result.

- **Latest Lighting Analysis Programs** The latest releases of the major independent lighting analysis programs, AGI32 and Lumen Designer (the replacement for Lumen Micro), have incorporated daylighting in a major way. Both programs are capable of fairly

(CONTINUE ON PAGE 26)

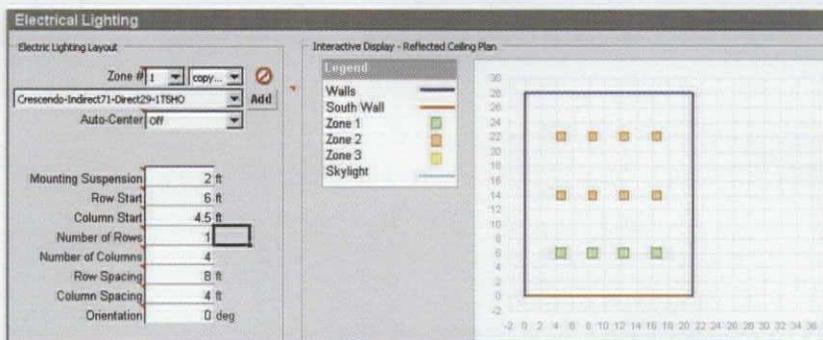
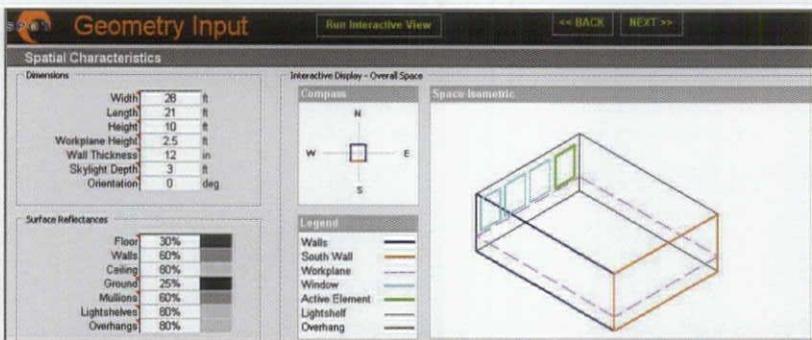


There is an ever-expanding box of tools where daylighting design is concerned. Radiance is a powerful software, capable of creating renderings like those above (Created by Graeme Watt of Synthesis Design & Visualisation Limited) that understand the interaction of sunlight with an architectural space. Other tools include heliodons (below) at places like the Southern California Lighting Technology Center.

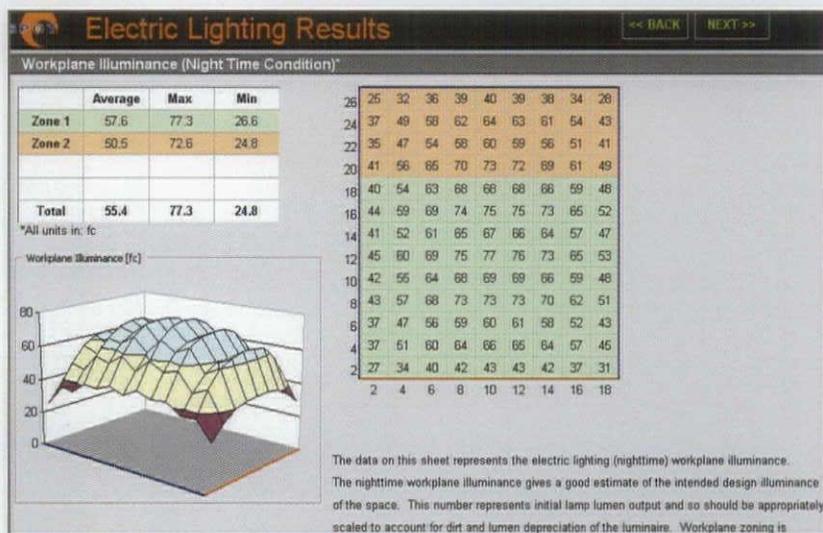
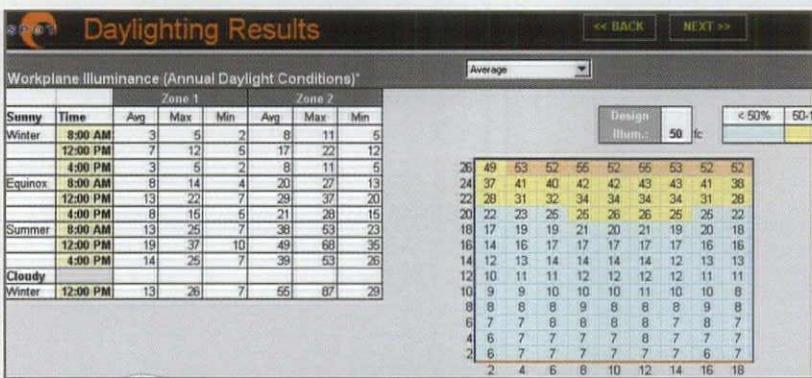


Daylighting design practices are changing at ... well, the speed of light, actually. New resources, design tools, and products have improved opportunities in this field in just one short year.

See SPOT Run: The Sensory Placement and Orientation Tool (SPOT) aids in proper photosensor positioning.

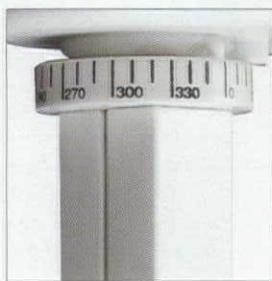


The Sensory Placement and Orientation Tool (SPOT) was developed by the Architectural Energy Corporation under the California Public Interest Energy Efficiency Research (PIER) program. It is designed to assist in quantifying the existing or intended electric lighting and annual daylighting characteristics of a space. SPOT will also find the optimal positioning for photosensors relative to annual performance and annual energy savings. SPOT—a beta version of which is available for download at www.archenergy.com—is fairly straightforward: After setting up a project information page and adjusting the program's calculation settings, users define the geometry and electric lighting layout of the space to be analyzed (above left and right).



After the room's geometric information is given, as well as information about site and usage (including location, occupancy, and shade devices), users can view Daylighting Results (above) with daytime workplane illuminances, and Electric Lighting Results (right), which demonstrate lighting levels with electric lighting at 100 percent.

PRECISION SPOTS



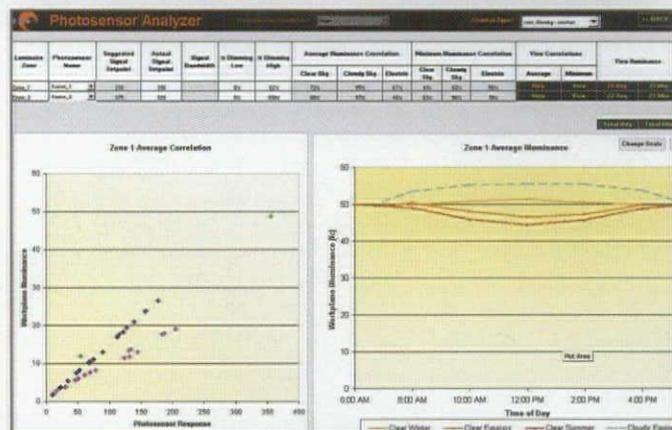
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In addition to interior renderings of the space from four angles, SPOT allows the user to mix and match the various photosensor scenarios on the Photosensor Analyzer page (above). The Photosensor Generator (not shown) provides photosensor location recommendations.

sophisticated daylighting calculations complete with interior furnishings and renderings. Costs are reasonable, and seminars are offered to accelerate the learning curve.

Of course, for those demanding the highest degrees of accuracy and realism, Radiance remains a powerful option. The few people who have truly mastered this software are capable of providing extraordinary images and renditions of unbuilt structures, complete with any level of detail needed to illustrate the design. Either way, the power of the latest software enables responsible daylighting calculations with a reasonable investment in software and training time.

• **Photometric Data for Skylights** The latest skylights use materials that shape and direct light very much like luminaires, such as specular wells and prismatic lenses. While lighting programs do a relatively good job with simple clear or diffuse glazing, complex skylights and other daylighting elements need to be addressed in a more thorough photometric manner.

Considering how skylights are affected by solar elevation and weather, developing a method for creating photometric data presents a unique problem. Under the PIER program, Heschong Mahone Group has developed a methodology for gathering photometric measurements and disseminating the data for use in conventional lighting programs. The results of daylighting calculations are much more accurate than any other method, including scale modeling. Photometric data is already available for some of the latest skylight products.

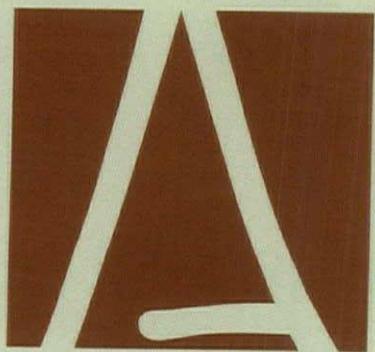
• **SPOT** The Sensor Placement and Orientation Tool (SPOT) is a computer program developed by the Architectural Energy Corporation, also under the PIER program. (See page 24 for SPOT screen shots.) It will quantify the electric and daylighting performance on a project and assist in the optimum location of a photoelectric sensor. SPOT handles both sidelighting (windows and clerestories) and toplighting (skylights).

Improper photosensor positioning is one of the principal causes of poor performance of automatic daylighting control systems. The

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Companies like Solatube are offering a new generation of skylights that bring natural light indoors without the drawbacks historically associated with skylights.

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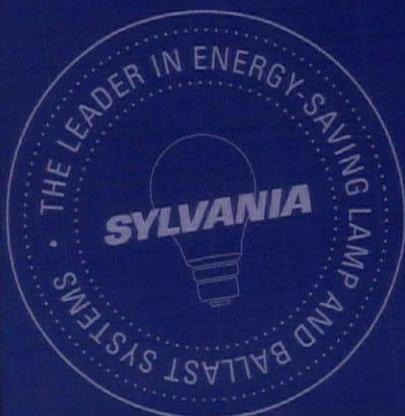


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outputs from SPOT include graphical representations of light levels, and overall electric and natural lighting performance throughout the year. SPOT, which is presently in the final phases of development and testing, is expected to improve the performance of typical daylighting significantly. SPOT output also includes the average lighting power throughout periods of use, part of the determination of daylight autonomy.

• **Daylight Autonomy Factor (DAF)** While there is presently a lot of preaching about the virtues of daylighting, there is very little information about what is or how to design the correct amount of daylight. The US Green Buildings Council (USGBC) LEED-NC 2.2 criterion, the best criterion value until now, requires achieving either a minimum daylight factor of 2 percent (excluding all direct sunlight penetrations) or at least 25 footcandles using a computer simulation model in 75% of all regularly occupied areas. Given that daylight varies and that daylight factor is worthless in a sunny or partly sunny climate, there must be a better way.

As part of the California Collaborative for High Performance Schools (CHPS) program, a nonprofit initiative aimed at promoting increased energy-efficiency and sustainable design in California's schools, a group of daylighting experts has developed a better measure, called the Daylight Autonomy Factor (DAF). Using the SPOT system, all of the relevant factors, including climate, building schedule, room geometry, glazing, electric lighting, and so on, are accounted for, and the percentage of average electric lighting power is determined. The percentage of electric lighting energy saved is the DAF. For example, in a good daylighting design for a school in Boulder, Colorado, the DAF might be as high as 74 percent, but the same design in Seattle can only achieve a DAF of 58 percent owing to climate conditions.

Setting the DAF criterion will be just like addressing any other energy code value. A number of models are already being studied and preliminary criterion values are being proposed for California's school program. If SPOT and DAF are as smart and useful as they appear to be, they should be adopted quickly by USGBC for the LEED series of standards, and may play an integral role in future energy codes.

more information at
[WWW.ARCHLIGHTING.COM](http://www.archlighting.com)

James Benya is a professional lighting designer and principal of Benya Lighting Design in Tigard, Oregon. He serves on the editorial advisory board of A|L.

RELEVANT WEBSITES

BETTER BRICKS (Northwest Energy Efficiency Alliance) | www.betterbricks.com

CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS | www.chps.net

CALIFORNIA LIGHTING TECHNOLOGY CENTER (University of California at Davis) | www.cltc.ucdavis.edu

CALIFORNIA PUBLIC INTEREST ENERGY EFFICIENCY RESEARCH (California Energy Commission) | www.energy.ca.gov/pier/

HESCHONG MAHONE GROUP | www.h-m-g.com

DAYLIGHTING COLLABORATIVE (Energy Center of Wisconsin) | www.daylighting.org

DAYLIGHTING DIVIDENDS (Lighting Research Center) | www.lrc.rpi.edu/programs/daylightdividends

LAWRENCE BERKELEY NATIONAL LABORATORY | www.lbl.gov

SENSOR PLACEMENT AND ORIENTATION TOOL (beta version available) | www.archenergy.com/SPOT

SOUTHERN CALIFORNIA LIGHTING TECHNOLOGY CENTER (Southern California Edison) | www.sce.com/RebatesandSavings/DesignandEngineering/SoCalLightingCenter

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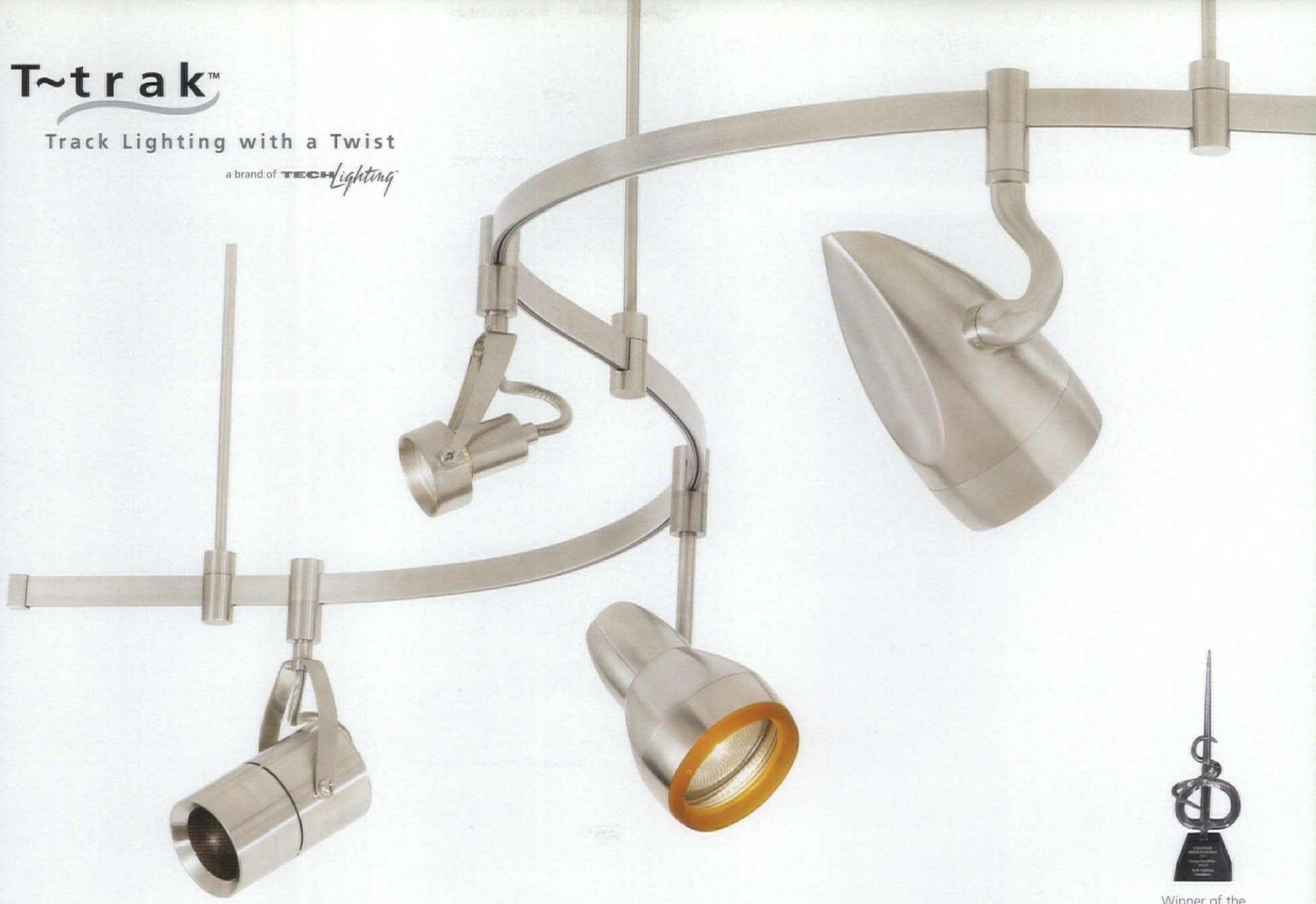
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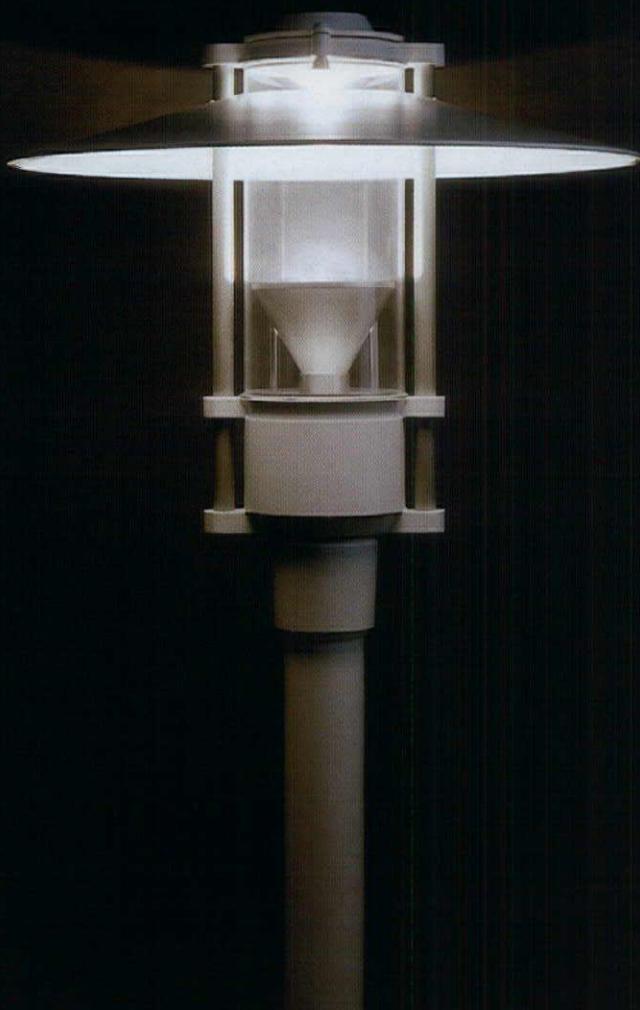
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Changes to 2005 NEC Impact Metal Halide Systems

CRAIG DILOUIE

AMONG THE MANY NEW UPDATES AND REVISIONS TO THE 2005 EDITION OF THE National Electrical Code (NEC)—which is on a three-year revision schedule—are two changes that should register with specifiers of lighting systems. Both impact the specification of metal halide fixtures and lamps, and address methods for preventing risk in metal halide applications. Why the change? Although extreme metal halide lamp failure occurs rarely—only about three incidents per year—the NEC have deemed this type of lamp failure serious enough in its potential to injure and create property damage that they have mandated these changes to prevent such hazards.

Metal halide lamps have the possibility of “non-passive” failure at end of life, to use industry parlance. In this event, hot glass can exit the fixture and cause injury or fire. In sports facilities, another problem can occur: The outer bulb of the lamp can break during normal use of the space, resulting in falling glass; in addition, the arc tube may continue operating, resulting in possible overexposure to UV radiation among occupants, which can cause sunburn and a burning sensation around the eyes. The 2005 NEC, which generally applies to both new construction and renovation projects, addresses both of these problems.

PROTECTED LAMPS

NEC Article 410.73(F)(5), “Metal Halide Lamp Containment,” states: “Luminaires (fixtures) that use a metal halide lamp other than a thick-glass parabolic reflector lamp (PAR) shall be provided with a containment barrier that encloses the lamp or shall be provided with a physical means that only allows the use of a lamp that is Type-O.”

This means that in states that adopt the 2005 NEC, all indoor open-optic metal halide fixtures must have special sockets that can only operate with ANSI Type-O lamps, which are protected lamps (typical for 175W to 1500W sizes) featuring additional containment around the arc tube. These lamps have a unique mogul base that, when used in conjunction with special sockets, ensures open-optic metal halide fixtures can only operate protected lamps.

Type-E and Type-S lamps can continue to be used, but only for enclosed fixtures (or in fixtures installed before adoption of the 2005 NEC); thus, for new installations, users can choose between a suitably enclosed fixture or an open fixture that only operates a Type-O protected lamp. Fixtures with thick-glass PAR metal halide lamps are exempt from the “physical means” part of the code.

“This requirement is really not new, since the lighting industry has already been applying it for indoor open metal halide luminaires that operate lamps less than 350W,” says Jim Pacocha, manager of HID product development for Lithonia Lighting. “The NEC is now leading the way by requiring this practice for all indoor open metal halide luminaires.” He adds, “UL is expected to review this requirement to determine whether it will adopt this as a standard for fixture manufacturers to follow.” If that happens, then the requirement will truly become national, since not all states will adopt the 2005 NEC quickly.

Lithonia has responded by communicating this code change to its customers over the past several months, and by building up its stock levels of protected lamps and products with protected sockets. Lighting practitioners can easily specify a protected socket by calling out, for example, 400MP (P = protected socket), rather than 400M.

“The impact of this change to design practices is rather minimal,” says Pacocha. “Architects, lighting designers, and engineers need to be certain that enclosed luminaires are suitably rated for arc tube containment, and open luminaires are provided with a socket that only accepts protected lamps. Most importantly, they will need to change their open luminaire specifications to reflect protected sockets and protected lamps. They don’t want to be in a position where they have luminaires with protected sockets and standard lamps that will not operate.”

Pacocha adds that in some cases protected lamps provide a



Lighting specifiers should take note of recent changes to the 2005 National Electrical Code. Typical metal halide installations (like the one above) in states that adopt the new code, which went in to effect in January, will have new requirements.

higher light output than non-protected lamps, which will impact lighting calculations. “The standard 400W probe-start lamps are typically rated for 36,000 lumens, while some protected versions provide 40,000 lumens,” he says. “The same light levels can be achieved with fewer luminaires, which will reduce the initial cost as well as operating costs of their lighting system designs.”

REQUIRED ENCLOSURES

Another important NEC code change is NEC Article 410.4(E), which applies specifically to sports facilities and auditoriums. It states: “Luminaires subject to physical damage, using a mercury vapor or metal halide lamp, installed in playing and spectator seating areas of indoor sports, mixed-use, or all-purpose facilities, shall be of the type that protects the lamp with a glass or plastic lens. Such luminaires shall be permitted to have an additional guard.”

NEC requires that these lamps be completely enclosed with a glass or plastic lens to protect the lamp from damage. The fixture can contain an additional guard, such as an external screen or cage, but this is not a substitute for the required enclosure.

“The 2005 NEC changes simplify the metal halide systems options available,” says Jennifer Gerlock, product manager for Venture Lighting, which manufactures protected lamps with the designations MP and MPI. “They will reduce the potential risks associated with failure to adhere to lamp manufacturers’ warnings and instructions in cases where Type-S lamps are specified in open luminaires.”

Although the 2005 NEC went into effect January 1, 2005, adoption can vary from state to state. Based on the rate of implementation of the 2002 NEC, several states may adopt the updated code right away with about half of the states adopting it in 2005. Inquiries can be made with local electrical inspectors as to whether or not the updated code is in effect. “Once the code changes are adopted, architects, lighting designers, and engineers working on design projects will be responsible for ensuring that these requirements are met,” says Gerlock. ■

Craig DiLouie, principal of ZING Communications, Inc. (www.zing-inc.com), is a consultant, analyst and reporter specializing in the lighting and electrical industries. He also serves on the A|L editorial advisory board.

In states that adopt the 2005 NEC, open-optic metal halide fixtures installed in new construction and renovation projects must have special sockets that can only operate with ANSI Type-O lamps, which are protected lamps that feature additional containment around the arc tube.



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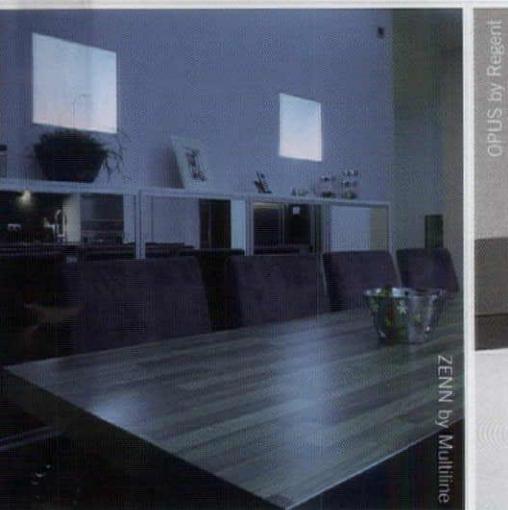
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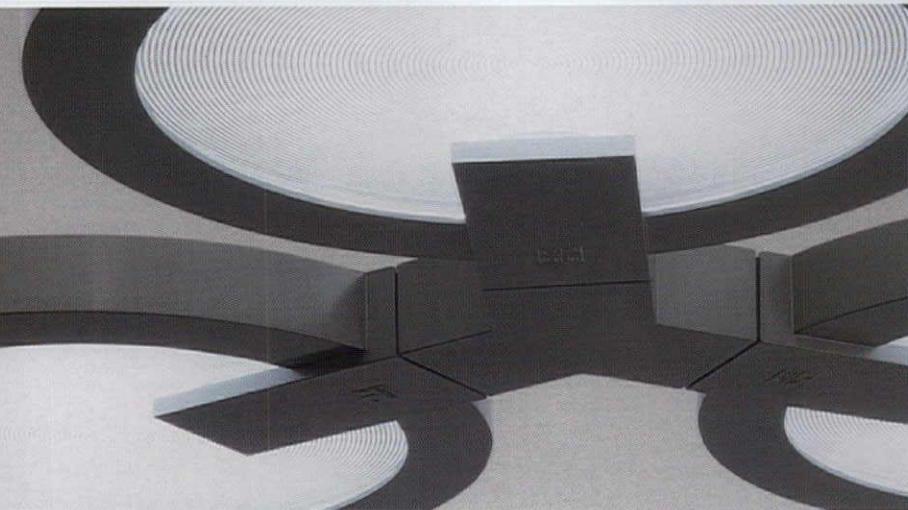
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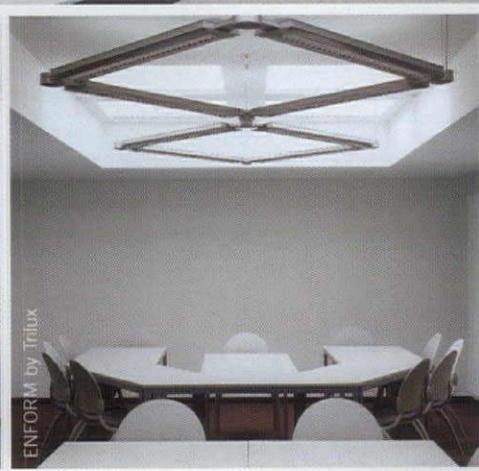
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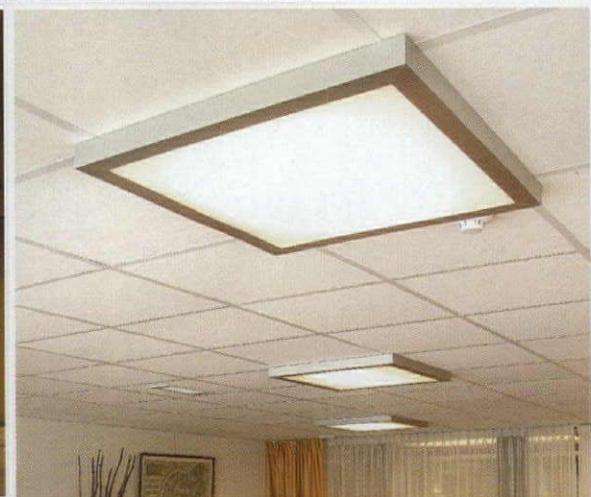
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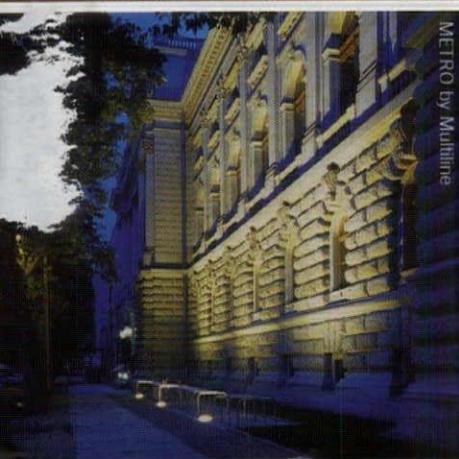
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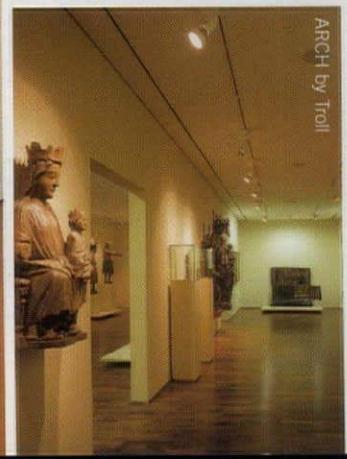
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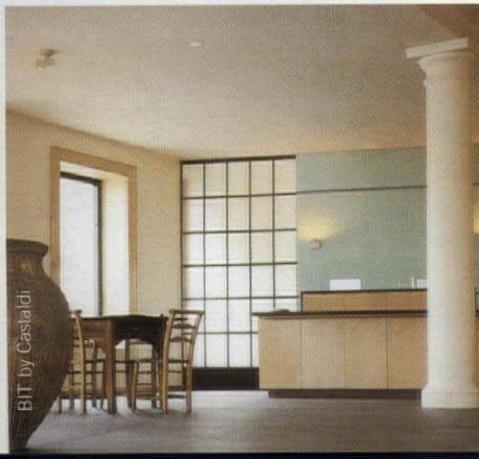
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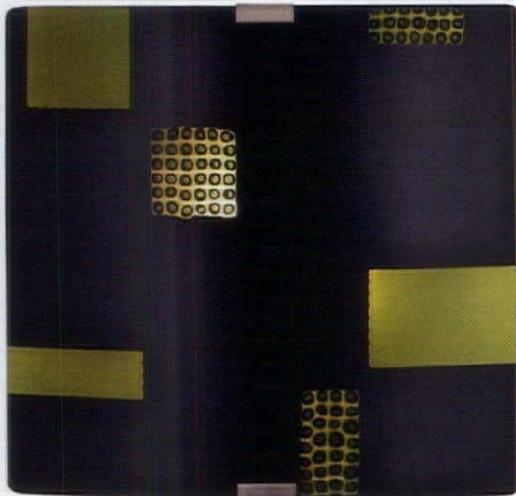
OGGETTI LUCE | WWW.OGGETTI.COM

Product: Mosaic

Additions to the Mosaic collection include Small Fry (right), a narrower 14-inch-high version of the squatter Big Ben (below), which is 17 inches high and 14 inches in diameter. Handmade from resin, the pendants operate on line voltage and take 75W (Big Ben) or 60W (Small Fry) lamps. All visible parts are nickel plated. **CIRCLE 100**

Product: Mondo (bottom)

Handmade of fused and slumped Murano glass and signed by artists Trevisan e Barocelli, Mondo sconces operate on line voltage and take a 60W light source. **CIRCLE 101**



RESOLUTE | WWW.RESOLUTEUSA.COM

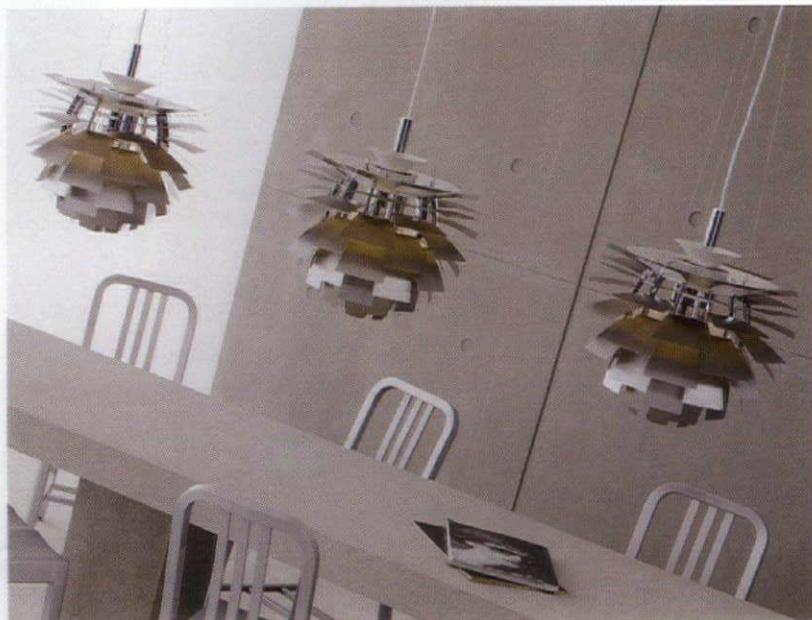
Product: Aura

The Aura Pendant, designed by Brent Markee, takes both an incandescent (60W) or a fluorescent (18W double biax compact) light source, and features a printed polycarbonate diffuser. The pendant shade, which is 11 inches tall, has a drop up to 8 feet. **CIRCLE 102**

LOUIS POULSEN | WWW.LOUIPOULSEN.COM

Product: PH Artichoke

The famous PH Artichoke pendant designed by Louis Poulsen almost 50 years ago is now available in a smaller size, better suited to tighter spaces and residential applications. With a diameter of less than 19 inches, the mini Artichoke is available in three finishes: brushed copper, brushed stainless steel, and white painted steel. The 72 leaves that surround the pendant effectively shield the light source, eliminating glare from almost any angle. The fixture is also available in three other diameters up to 33 inches. **CIRCLE 103**



LUCEPLAN | WWW.LUCEPLAN.COM

Product: Lightdisc

The circular T5 fluorescent Lightdisc comes in two sizes, 12 and 16 inches in diameter. Designed by Alberto Meda and Paolo Rizzatto, the fixture consists of two polycarbonate shells: the outer shell acts as a diffuser; the inner shell integrates the reflecting parabolas with the housing system. With a depth of only 2 or 2 1/2 inches, the fixture appears to merge with the wall on which it hangs. Chrome plating increases reflectivity and brightness for installation in large spaces. **CIRCLE 104**



Product: Birzi

The Birzi table lamp, designed by Carlo Forcolini and Giancarlo Fassina, is made of pressed silicone, a soft and ductile material that is also sturdy and durable. It is designed to be reshaped by the user. With a height of over 10 inches and a lower-base diameter of 4 1/2 inches, the lamp comes in white, orange, and green. Birzi uses 60W incandescent bulbs. Appropriate for bars, restaurants, shops, and hotel rooms. **CIRCLE 105**



LAMPA | WWW.LAMPA.COM

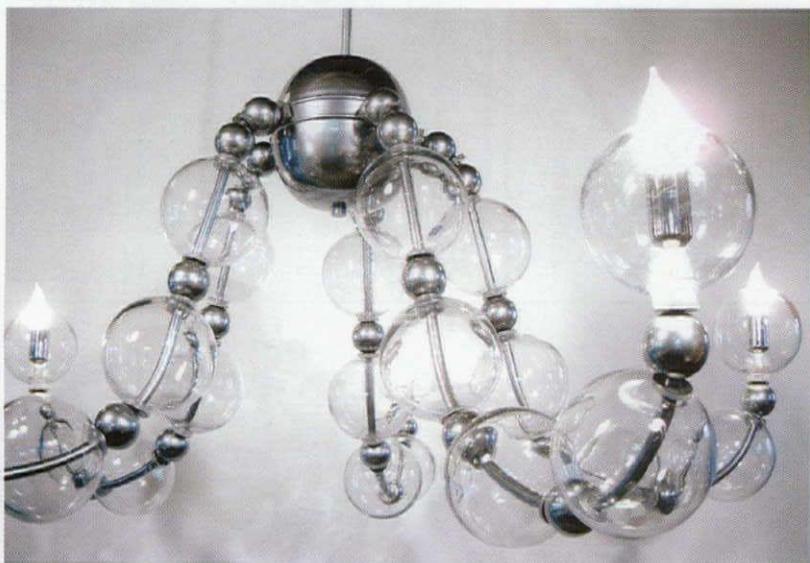
Product: Clover

The curvaceous wood veneer Clover pendant from Lampa features maple, cherry, zebra-wood veneer, or white linen. Ready to hang with a white ceiling canopy and an adjustable cord, the pendant has a dimension of 17 inches by 12 inches, and takes a 75W to 150W light source. **CIRCLE 106**



Product: Metropolitan Chandelier

With mercury glass, the Metropolitan Chandelier's arms dip down in silver powder-coated steel and hand-blown glass with a series of nickel-plated threaded balls, providing 300W of light. The chandelier measures 27 inches by 27 inches by 16 inches. The Metropolitan Chandelier uses five 60W candelabra bulbs. The standard stem length is 30 inches, but custom stem lengths are available. The fixture comes in red, purple, and mirror silver. **CIRCLE 107**



LEUCOS | WWW.LEUCOS.COM

Product: Loop

Celebrating the circular form, Loop is an inverted, triple-tier blown-glass diffuser. Designed by R. Toso and N. Massari & Associates, the pendant features a nickel-plated brushed metal canopy. A wall sconce, which casts light both up and down, and a ceiling fixture are also available. **CIRCLE 109**



Product: Junko

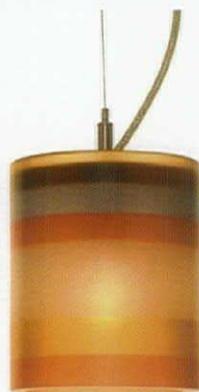
The newest collection from Andromeda International is DesignAlive, of which Junko is a part. Inspired by the floating rush of a Venetian lagoon, Junko features amber-colored chains covered with slender, hand-blown glass tubes and rings. Created by Marin & Chiaramonte, the piece is available in various color options, including embedded gold leaf. It can be used as a room divider or stair wall, and comes in the following configurations: wall bracket, large hanging lamp, small hanging lamp, and tall column. **CIRCLE 110**



EM COLLECTION | WWW.EMCOLLECTION.COM

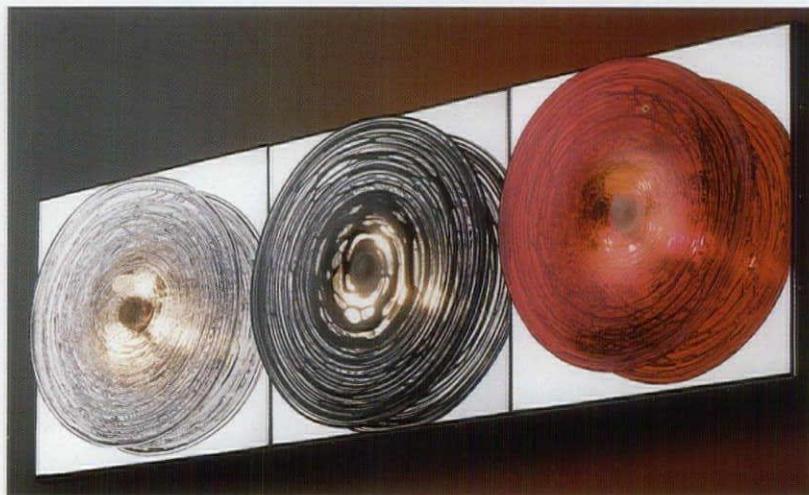
Product: Serius

Available as a table lamp and pendant, the Serius line from Collaborative Studio emCollection is made from translucent polyester resin with a plated base and rod. The fixture takes a 25W or 40W incandescent. The pendant is 6 1/4 inches tall by 5 1/4 inches in diameter with an adjustable suspension. The table lamp stands 12, 14, or 16 inches tall. A variety of color combinations are possible from a palette of 24 colors. **CIRCLE 108**

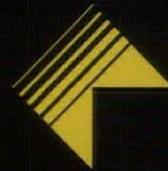


Product: Brio

Andromeda's DesignAlive collection also includes Brio. Designed by Giusto Toso, Brio features a hand-spun glass disk floating on a stainless-steel plate. The disks are clear Venetian crystal, vivid red and dramatic black glass. The sconce is available alone or clustered in patterns. **CIRCLE 111**



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SPARK LIGHTING | WWW.SPARKLIGHTS.COM

Product: Copper (right)

A pendant fixture made of a Plexiglass outer cylinder and a copper mesh diffuser, Copper measures 12 inches in diameter and 25 1/2 inches in height. The cord is adjustable and table and floor versions are available. The medium base socket accommodates up to a 100W incandescent or screw-in fluorescent lamp. Handmade in Italy, custom sizes are available. **CIRCLE 112**

Product: Eclissi (left)

In mesh or maple wood, the Eclissi pendant fixture comes in one- or two-drum shapes. All metal parts are made of polished stainless steel. Lamp measures 12 inches in diameter and 6 3/4 inches in height and has an adjustable cord. Table, floor, and wall versions are available, as are custom sizes. Hand-made in Italy, the fixture uses a 100W incandescent or PAR lamp. **CIRCLE 113**



ORIGINAL CAST LIGHTING | WWW.THEOCL.COM

Product: Westport

A decorative pendant, the Westport comes in silver metallic, steel gray, matte white, satin black, red, blue, and natural aluminum finishes, with a prismatic diffuser in clear, frosted, red, amber, green, blue, frost green, and frost blue. The ballast is housed in a canopy that has a 45-degree swivel. The maximum stem length is 12 inches. Options include dimming, fused, and emergency ballasts. **CIRCLE 114**



EUREKA | WWW.EUREKALIGHTING.COM

Product: Moderne

The Moderne family of decorative fixtures includes a floor lamp (right), a sconce, and a table lamp. Both the floor and table lamp are height adjustable: The floor lamp stands 46 to 59 inches high. The table lamp stands 29 to 36 inches in height. Both have a shade diameter of 15 inches. Options include polished or satin metal detailing, and a card or linen shade. The sconce, which comes with a parchment shade, is 10 inches high by 5 inches wide, and has a depth of less than 4 inches. **CIRCLE 115**



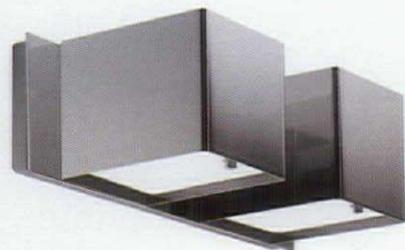
Product: Satay

The Satay floor lamp features polished or satin metal detailing, with a card, parchment or linen shade. The floor lamp stands 90 inches high with a 30-inch diameter shade. **CIRCLE 116**

ESTILUZ | WWW.ESTILUZ.COM

Product: A-2306

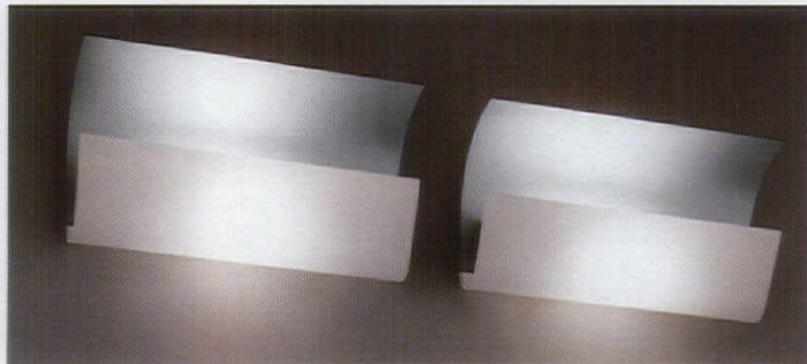
This halogen ADA-compliant wall sconce, designed by Leonardo Marelli, comes with a glass diffuser on top and bottom. The glass is white satin. Using one or two 75W G9 halogen bulbs, depending on the model, this Spanish import is available in two lengths. The U.S. version features a square flat plate to cover a standard junction box. **CIRCLE 117**



ITRE | WWW.ITREUSA.COM

Product: Cast

With a curved glass diffuser, the Cast wall fixture cuts an especially elegant figure. Colors include satin finish or silk-screened glass in white. The construction features steel mounting and an anodized aluminum reflector. Also available as a ceiling fixture, Cast takes a halogen or fluorescent lamp, and has an electronic ballast. **CIRCLE 118**

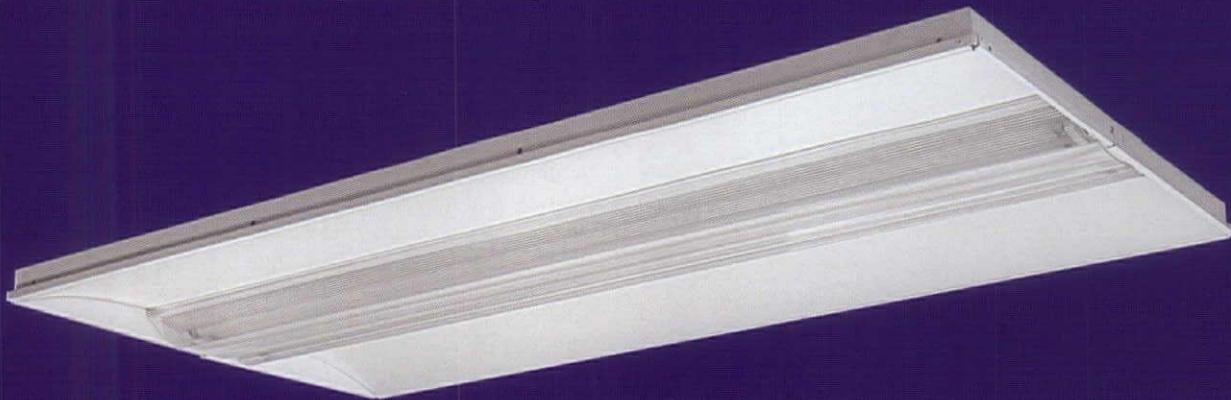


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TERZANI | WWW.TERZANI.COM

Product: **Bobino** (left)

The Bobino wall sconce (shown) measures over 4 inches in depth and 21 inches in height. The shade itself measures 3 1/2 inches in diameter. The wire spool shape of Bobino is also available with a 25 inch diameter, for applications as a large hanging lamp. The fixture was designed by Jean-Francois Crochet. **CIRCLE 119**

Product: **Petite Arene** (below left)

A wall sconce or ceiling lamp, the Petite Arene has a structure color of chrome and a glass color of either white or amber. Designed by Jean-Francois Crochet, the Petite Arene fixture has two sizes: 3 inches deep by 10 1/4 inches in diameter, or 4 1/4 inches by 15 1/4 inches. It takes a 100W bulb. **CIRCLE 120**

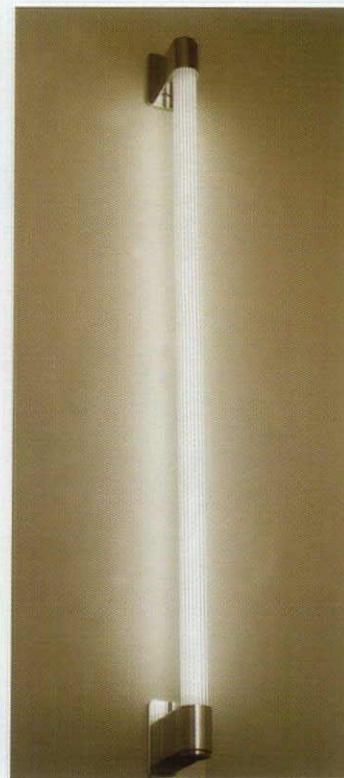
Product: **Kristal-Diam** (below right)

The Kristal-Diam pendant, also designed by Jean-Francois Crochet, has chrome metal detailing and a clear glass diffuser. Taking a 50W halogen, the low-voltage fixture measures almost 6 3/4 inches in diameter. **CIRCLE 121**

**BOYD LIGHTING |
WWW.BOYDLIGHTING.COM**

Product: **lwall**

Ideal for bathrooms, reception areas or dressing rooms, the lwall sconce provides flattering sidelighting from an attractive, low-profile fixture. Designed by Doyle Crosby, lwall can be mounted directly on a mirror without backplates or on a wall with decorative backplates. Using a T5 fluorescent in a 1 1/2-inch-diameter fluted-glass diffuser, the sconce is ADA compliant. The fixture is available in 2-, 4- and 6-foot lengths. **CIRCLE 123**



EXCELINE | WWW.EXCELINE.COM

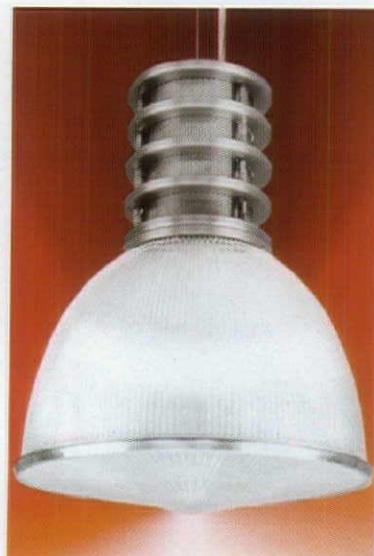
Product: **Kaleidoshade / Kaleidoscope**

An indoor/outdoor luminaire, this product from Exceline is available in bright, saturated colors, as well as polished or brushed metal. Offered in a range of ceiling, pendant, sign and wall-mounting options with or without vandal guards, Kaleidoscope accommodates incandescent, LED, HID, and compact fluorescent lamps. The construction is precision die-cast aluminum with a corrosion-resistant Duraplex II polyester powder-coat finish. **CIRCLE 124**

D'AC | WWW.DACLIGHTING.COM

Product: **Dome**

A mid-scale 11 3/4-inch-high direct/indirect pendant or ceiling-mounted fixture, Dome has a light industrial aesthetic. Characterized by a prominent dome-shaped prismatic acrylic globe with a polished bottom trim ring, the fixture conceals the ballast in its narrow-ring top cap. Suspended via an adjustable aircraft cable, the luminaire accommodates incandescent, halogen, triple- or quad-tube compact fluorescent, and metal halide. **CIRCLE 122**



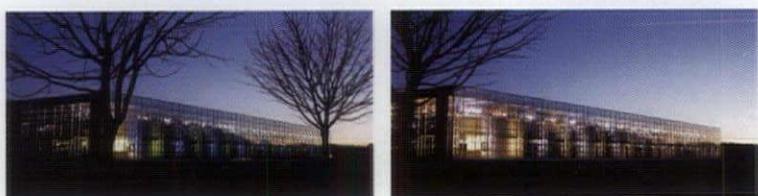
**HAMPSTEAD |
WWW.HAMPSTEADLIGHTING.COM**

Product: **Zero**

A pendant fixture constructed of die-cast aluminum, Zero has a diameter of 14 1/2 inches and an overall height of 104 inches. Color options include blue, red, and silver, with metal accents in pearl beige or satin nickel. Providing direct lighting, the fixture uses a wedge-based halogen, but is also offered with a blue LED lamp for special lighting effects. **CIRCLE 125**



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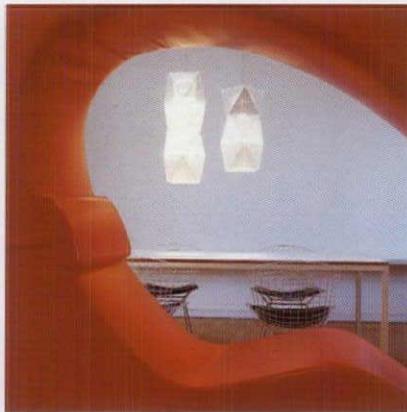
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Product: Mini Pendant

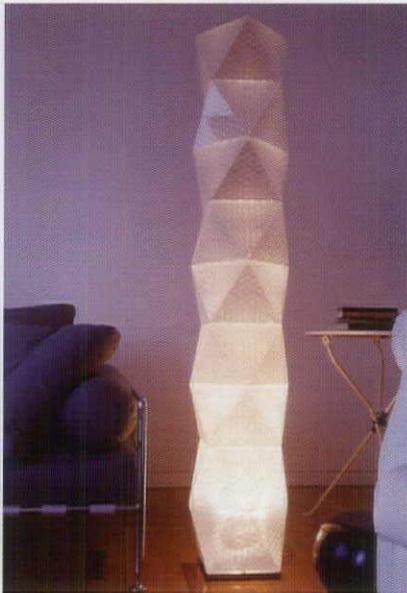
A low-voltage MR16 mini-pendant with blue glass surrounded by clear glass, the fixture comes with a brushed nickel finish. Part of the Illuma-Flex family of lighting, the mini-pendant measures 4 1/2 inches in diameter, and almost 5 inches in height; the overall fixture height, with the cord, is 72 inches. It uses one T4 lamp, 50W maximum; the halogen bi-pin base is included. The pendant is also available with white glass surrounded by clear glass. **CIRCLE 149**



ROTALIANA | WWW.ROTALIANA.IT

Product: Honey (left)

A system of diffusing light elements built around a lamp and a metal base, Honey is a modular structure with a theoretically unlimited number of extensions. The polycarbonate, honeycomb-like triangle shades clip together to facilitate transformation without tools. Pendant, ceiling-mounted, floor, and table lamp versions can be created from the components. **CIRCLE 150**



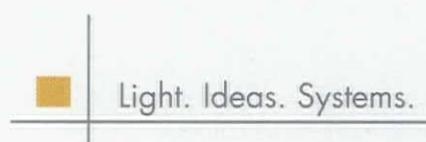
Product: Drink (below)

Producing an indirect halogen light, Drink is made entirely of metal, suggesting a long-stemmed chalice. A dimming switch is built into the stem. The floor lamp is available in chrome, white, black, cream, light blue, and metallized gray. **CIRCLE 151**



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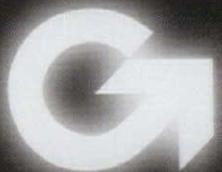
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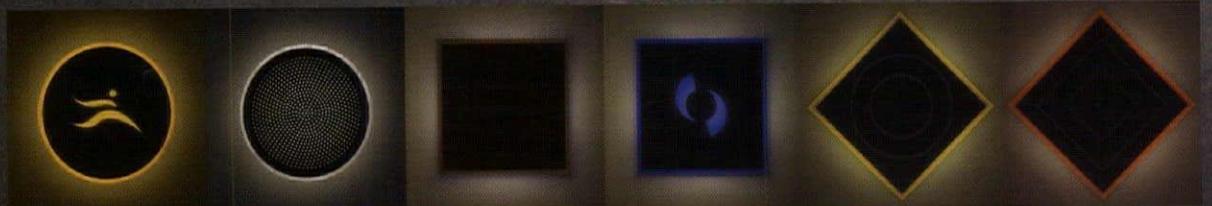


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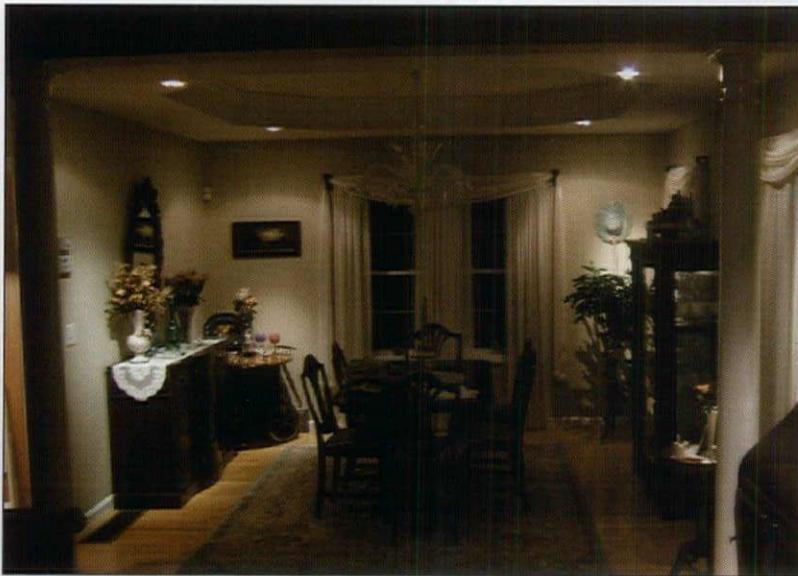
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NEO-RAY/COOPER LIGHTING |
WWW.COOPERLIGHTING.COM

Product: Scala

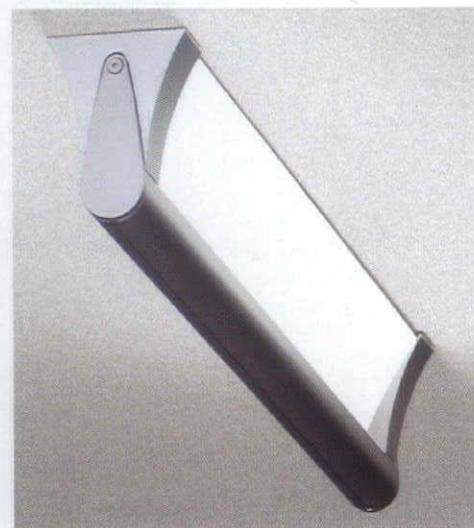
The Scala T5 pendant luminaire consists of two T5 or T5HO lamps. The 1/2-inch-tall, 9-inch-wide unit comes in housing lengths of 4 and 8 feet. The ribbed semi-transparent/translucent diffusing media provides edge glow with some direct light (95.5 percent indirect/4.5 percent direct). Housing is cold-rolled steel; end caps are precision die-cast aluminum; and luminaires are prewired with quick wire connectors and use electronic ballasts. Decorative finishes include polished chrome and brushed satin chrome. **CIRCLE 126**



VISA LIGHTING |
WWW.VISALIGHTING.COM

Product: Ether

Available in a wall or ceiling mount, Ether has a low-profile linear design, die-cast end caps and extruded-aluminum housing, and oven-cured low-VOC lacquer paint. It mounts to a 2-foot-by-4-foot electrical junction box, with hardware included. As with 75 percent of the Visa product line, Ether is available with 10-day shipping from date of order, with no minimum or maximum order restrictions. **CIRCLE 129**



Product: Summit Wave

The Summit series of semi-recessed pendants have a low-profile fabricated housing with shaped heavy-gauge wave and solid metal accents. Summit uses oven-cured EPA-compliant, low-VOC lacquer on trim components and semi-gloss white thermoset acrylic powder-coat finish on the reflector surface. With a recessed ballast tray secured by toolless captive fasteners, the product also features toolless fluorescent relamping. The pendants can be installed in a 2-foot-square ceiling grid. The product is available for 10-day express shipment, with no minimum or maximum order restrictions. **CIRCLE 130**



METALUX/COOPER LIGHTING |
WWW.COOPERLIGHTING.COM

Product: E-Fixtures

E-Fixtures feature five optically enhanced specification-grade fixtures. In order, top to bottom: A recessed direct/indirect luminaire, the EFIX-3R combines a matte white indirect reflector and perforated direct lamp shield for brightness control. The EFIX-2W Series wrap-around uses a clear, low-brightness, extruded acrylic refractor, and a heavy-gauge-steel end plate. The EFIX-3S Series multi-purpose wide-strip family employs various mounting methods. The EFIX-3A lensed troffer series uses T8 lamp and micro-electronic ballast technology. The EFIX-3P luminaire incorporates a 3-inch-deep precision cell louver into a 5 1/2-inch-deep para-contoured fixture housing for a high-performance parabolic optical. **CIRCLE 127**



LITHONIA LIGHTING | WWW.LITHONIA.COM

Product: RT5 Volumetric Recessed Lighting

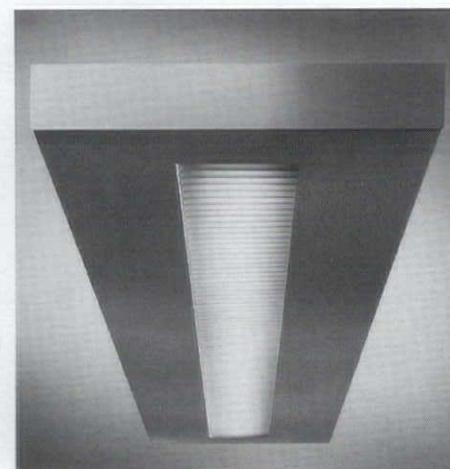
The RT5 product from Lithonia uniformly illuminates a space using a two-piece refractor system that employs a combination of diffusing film and precisely extruded prisms. The fixture has a unique lamp/ballast combination—a T5 lamp and a ballast that has end-of-lamp-life sensing and a stepped-switching bi-level output, which means up to 100 lumens per watt. Available in 2-foot-by-4-foot, 2-foot-square, and 1-foot-by-4-foot configurations, the fixture uses up to 33 percent less energy than the industry standard for office lighting, according to the company. **CIRCLE 128**



FOCAL POINT | WWW.FOCALPOINTLIGHTS.COM

Product: Twelve

Suspended only a foot from the ceiling, Twelve is a 30 percent direct/70 percent indirect solution using T5 or T5HO fluorescent lamps. Available with a parallel blade louver with a linear patterned acrylic, Twelve is available in 4-foot and 8-foot lengths. It features Focal Point's Ceiling Uniformity Filter and 115-degree low-beam optic, which enables high-quality light within the 12-inch suspension length. Two finishes are available: matte satin white and titanium silver. Options include emergency circuit and battery pack. **CIRCLE 131**



DIRECT/INDIRECT

ECLIPSE LIGHTING | WWW.ECLIPSELIGHTINGINC.COM

Product: Par 5 Series

Measuring 3 inches wide, 14 inches long, and 2 1/4 inches deep, the Par 5 Series uses T5 fluorescent lamps with a 16,000 hour lifespan. The housing is extruded aluminum and comes in four finish choices plus custom. The larger version, the Parabol, measures 4 inches wide and 3 3/4 inches deep, with lengths up to 12 feet. Made of similar components, the Parabol provides higher light output and directional light with an asymmetrical reflector. Both are appropriate for libraries, offices, public buildings, facades, and kiosks and come in a variety of mounting options. **CIRCLE 132**



PRUDENTIAL | WWW.PRULITE.COM

Product: Mini Olympic

A compact linear direct/semi-direct lighting system, Mini Olympic's semi-specular parabolic louver measures 1 1/2 inches high and 2 3/8 inches on center, and provides 34-inch longitudinal shielding. Optional slotted top housing offers a semi-direct distribution for illuminating ceilings when stem or cable hung. Finish end plates can be removed for continuous-row installation. Fixtures are aligned and secured by bolting through alignment holes in end plates. The housing, available in 4- or 8-foot lengths, is formed of 20-gauge steel. Finish plates are 18-gauge steel. **CIRCLE 133**



MARTIN ARCHITECTURAL | WWW.MARTIN-ARCHITECTURAL.COM

Product: Cyclo Directional

Martin has added directional track-mount and surface-mount options to its Cyclo line of fixtures. Offering color mixing within the main reflector with RGB technology, Cyclo Directional allows the fixture to be positioned close to the illuminated object without casting a rainbow effect. Available with and without mounting arms, Cyclo Directional comes in titanium and white and is dimmable from 0 to 100 percent. Three 54W T5 tubes create the output necessary to cut through high ambient light levels. Track-mount versions clip directly to any standard Type 3 track from all major track manufacturers. **CIRCLE 134**



ELLIPTIPAR | WWW.ELLIPTIPAR.COM

Product: Style F144

A small, enclosed, semi-elliptical uplight, Style 144 is designed for wall-mounted uplighting of low, narrow spaces where sightlines are limited. Using T5/T5HO lamps for long life, good color, and low energy, Style 144 includes an integral electronic ballast with programmed start. It can be mounted in a continuous row or individually and offers through-wiring with an optional quick connect. Dimming and emergency battery options are available upon request. Its shallow profile is ADA compliant. **CIRCLE 135**



LITECONTROL | WWW.LITECONTROL.COM

Product: LC82

Designed for school classrooms, labs, and open offices, the LC82 features a small-scale extruded-aluminum housing. The fixture works in spaces with ceilings as low as 8 1/2 feet and with a suspension length of as little as 9 inches. The rectilinear shape also has grooved edge detailing. **CIRCLE 136**



LEDALITE | WWW.LEDALITE.COM

Product: PureFX

Employing the company's award-winning MesoOptics technology, the PureFX recessed lighting system offers controlled brightness and significant energy savings. According to the company, the fixture uses 36 percent less energy than standard recessed fixtures. A range of lamping options include T8, T5, and T5HO, with 2-foot-square, 2-foot-by-4-foot, 1-foot-by-4-foot, and 6-foot-by-4-foot size options. **CIRCLE 137**



BARTCO | WWW.BARTCOLIGHTING.COM

Product: BAM625 Series Arm Mount Kit

For use with Bartco Lighting's T5 and T8 remote-ballast display models, BAM625 Series Arms allow for remote-ballast luminaires to project away from a wall, ceiling, or other vertical surface. Arms mount to fixture end caps and allow rotation of the housing for aiming; there are three mounting options, depending on the mounting surface. Components come in anodized polished chrome, satin aluminum, and polished brass finish. Custom finishes are available. **CIRCLE 138**



LUXO | WWW.LUXOUS.COM

Product: Oyster

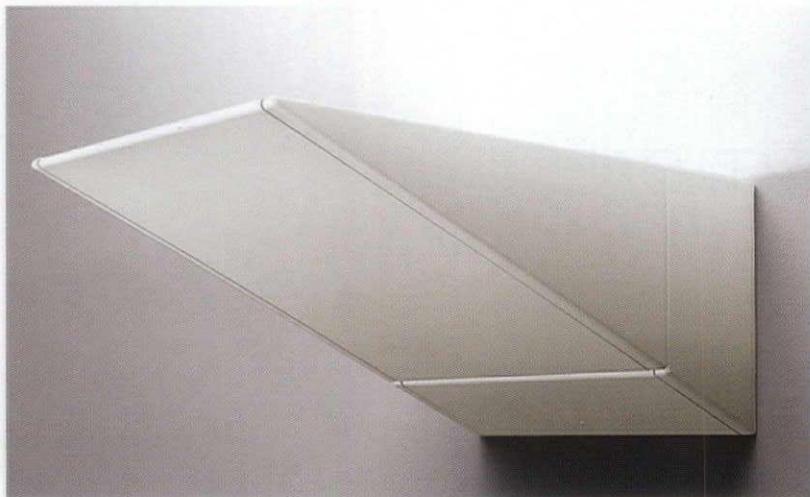
Designed by Massimo Roj, Oyster is an uplight intended for use with 250W and 400W metal halide lamps. The contemporary-styled fixture is suitable for large areas like shopping centers, entrance halls, and auditoriums. The body and wall bracket are cast aluminum and finished in aluminum gray. Oyster is available with or without a reflector, which is finished in white powder-coat. **CIRCLE 139**



SPI | WWW.SPILIGHTING.COM

Product: Echo Reflections

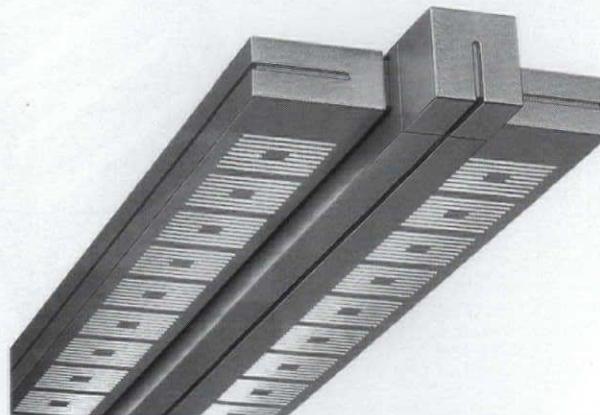
Delivering asymmetric lighting distribution, the fixture is designed for use with T6 ceramic metal halide lamps and electronic ballasts. Three distinct reflector designs, available in a single housing, allow the designer to select the appropriate light distribution for the application while maintaining a uniform appearance. Tungsten halogen lamps are also available, as are single- and dual-lamp versions. The luminaire is constructed of extruded aluminum, and includes cast-aluminum end caps. **CIRCLE 140**



LIGHTOLIER | WWW.LIGHTOLIER.COM

Product: F7000 Lighting System

The F7000 Lighting System contains a series of seven slim fluorescent modules, each providing different indirect lighting distributions and luminous textures. The modules use T5 or T5HO lamps with a full range of electrical options, dimming, and switching controls. Ambient fluorescent lighting elements can be suspended individually, arrayed in linear runs, configured in patterns, or spaced variably using in-line connectors of different lengths. Finishes include powder-coated, baked enamel, white, or aluminum. Point source modules with adjustable accent lights can be integrated into any run or pattern or used independently. The system accepts the company's iGen technology with supplemental two-wire controls. **CIRCLE 141**



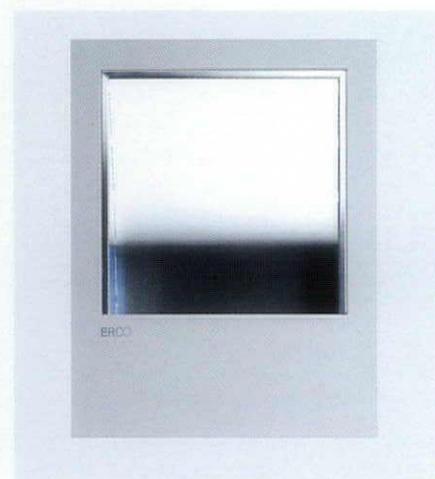
ERCO | WWW.ERCO.COM

Product: Atrium Multichrome

Atrium Multichrome uplights for wall installations provide indirect general lighting. With three separately switchable, compact fluorescent lamps in red, green, and blue, the luminaire produces primary colors, as well as three secondary pastels and a shade of white. Mounted above eye level, the fixture offers optional flush-fitting wall installation. A horizontal diffuser acts as safety glass and the dark light reflectors eliminate glare. The wide light distribution enables the spacing between luminaires to be increased three times the ceiling offset. **CIRCLE 142**

Product: Axis Walklight

Installed in stairways or walls, the walklight features a flat, wide beam to illuminate paths and steps. An LED module, the light source is hidden from view for optimum visual comfort. The multiple powder-coated housing offers protection and the LED technology means efficient, long life. RGB technology is also available with the product for a range of color options. Control is carried out individually or as a group via separate analog control gear. **CIRCLE 143**



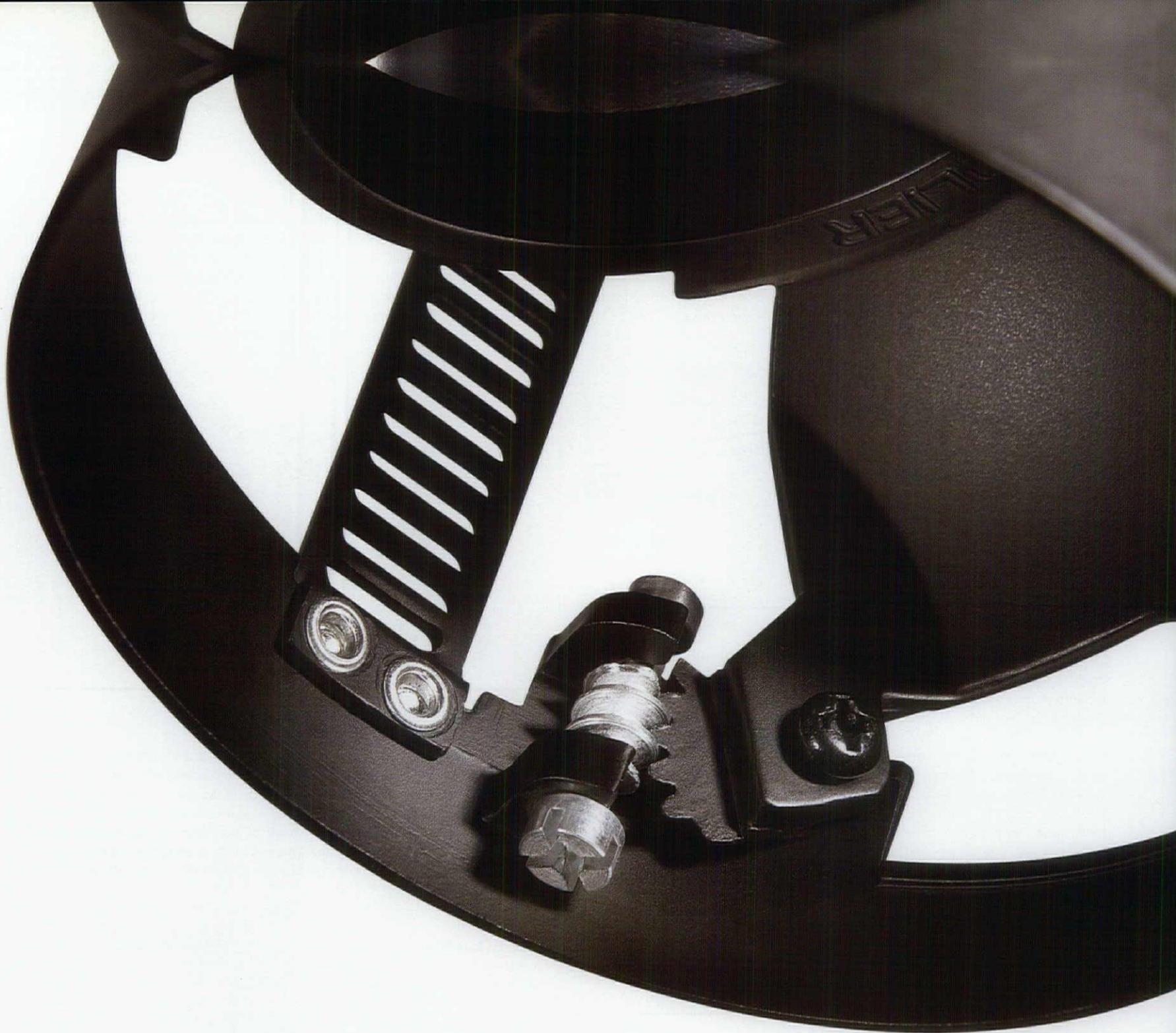


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LSI INDUSTRIES | WWW.LSI-INDUSTRIES.COM

Product: Industrial High-Bay Series

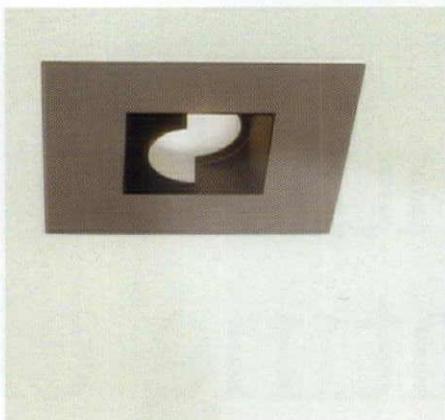
The Industrial High-Bay Series for warehouses, retail, and light industrial applications features the company's new universal quick-mounting plate for hands-free hanging during wiring; a redesigned ballast housing featuring easy access; and a choice of 17 optical assemblies with LSI's newly designed mounting collar with a locking tab system. The fixture also has multiple mounting positions for a broad range of photometric spacing criteria. **CIRCLE 155**



LUCIFER | WWW.LUCIFERLIGHTING.COM

Product: Mirage Square

The Mirage Square wallwasher from Lucifer features a highly-polished internal kick reflector with a frosted lens, which eliminates scallops and hot spots. The 4-1/4-inch-square fixture features a 2-inch-square aperture, and provides for tuneable lighting effects. It can hold ultraviolet or color-correction lenses; and can be flush mounted or flanged and installed in recessed non-insulated or insulated housings. Lamp options include 50W MR16s or 39HID metal halide. **CIRCLE 156**



PORTFOLIO/COOPER LIGHTING | WWW.COOPERLIGHTING.COM

Product: Gradient Kicker

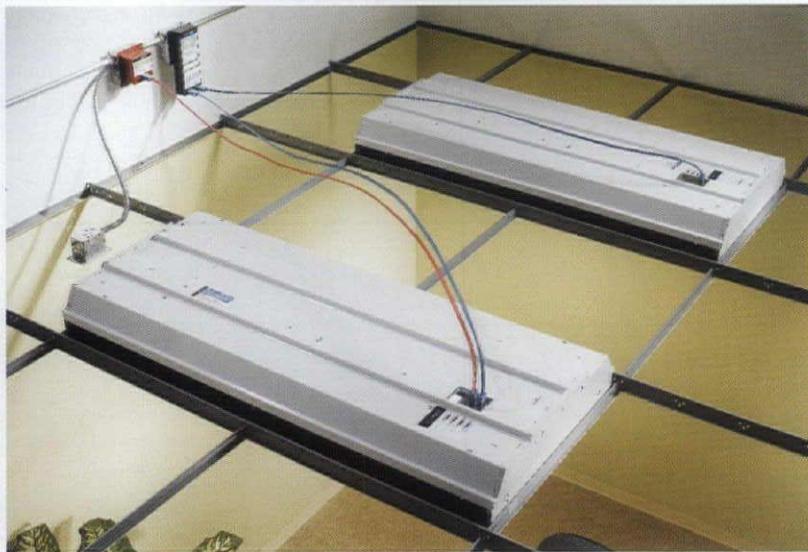
The Gradient Kicker open wallwash reflector system combines light from a bare lamp, downlight cone, and kicker reflector for vertical illumination that is free from striations and flash back. It fits 13W, 18W, 26W, 32W, and 42W compact fluorescent lamps in 4-, 6-, 7-, and 8-inch nominal aperture housings. It comes in single, double, and corner wallwash versions, and includes a low-iridescent finish on all reflectors. Medium and wide beam, lensed, and open wallwash trims are interchangeable within the same housing. **CIRCLE 157**



JUNO | WWW.MODULIGHT-JUNO.COM

Product: ModuLight Emergency Lighting

ModuLight's new emergency lighting system provides one- or two-lamp T8 operation, 1100 to 1400 lumens, and 90 minutes of operation time. A power-delivery lighting system that can reduce installation costs by 20 to 40 percent according to Juno, ModuLight's power converter is mounted separately from the lighting fixture, eliminating the need for electrical components like conduits, wiring, and J-boxes. The product employs modular connectors and flexible cables, allowing for easy relocation of the equipment. **CIRCLE 158**



Product: Decorative Trims

Below are two of eleven recently introduced styles of decorative trims for Juno's line-voltage and low-voltage housings. Designed to add decorative accents to a variety of residential and commercial settings, the selection ranges from beveled die-cast trim rings in designer finishes to all-glass shower trims to more colorful glass accents. **CIRCLE 158**



W.A.C. LIGHTING | WWW.WACLIGHTING.COM

Product: **Spec-Grade Downlight**



These low-voltage recessed downlights are crafted of die-cast aluminum and available with 3-inch and 4-inch apertures. A variety of decorative, adjustable accent, and wet-location fixtures are available, with brushed nickel, black, white, and polished brass finishes. Options in glass, which include glass cylinder and glass ring configurations, are cobalt blue, amber and white. **CIRCLE 160**

PRESCOLITE | WWW.PRESCOLITE.COM

Product: **FireTight**

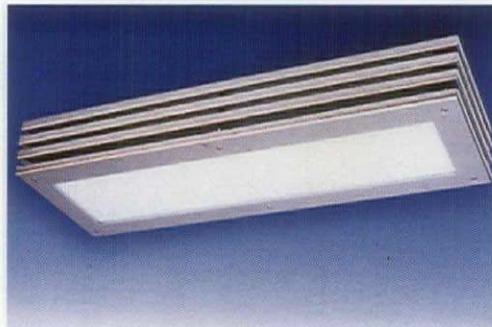
These fire-resistant downlights are approved for one-hour and two-hour fire-rated ceiling assemblies, including wood joist, steel, concrete, suspended, or sheetrocked. Ready to install out of the box, the fixture's features include: a 5/8-inch pre-assembled sheetrock enclosed housing and a 1/4-inch fire-retardant gasket on the bottom for protection to the downlight and upper floors. Decorative elements are also available. **CIRCLE 161**



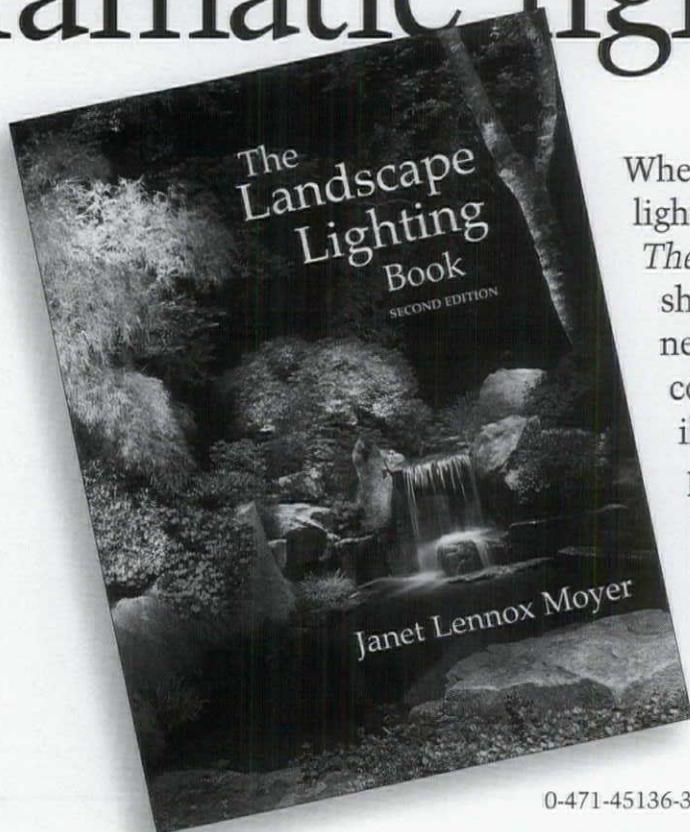
D'AC LIGHTING | WWW.DACLIGHTING.COM

Product: **Strato Rectangle**

Providing even, glare-free interior downlighting, Strato has a stacked, crisp-edged design that adds visual interest to the ceiling plane. The "sandwich" panels are perforated to create an interesting light pattern. Also available as an ADA-compliant wall-mounted fixture, the product features an aluminum body with a sand-blasted opal glass lens. Lamp choices include four-pin linear T5HO or bi-pin compact U-shaped fluorescent lamps. **CIRCLE 162**



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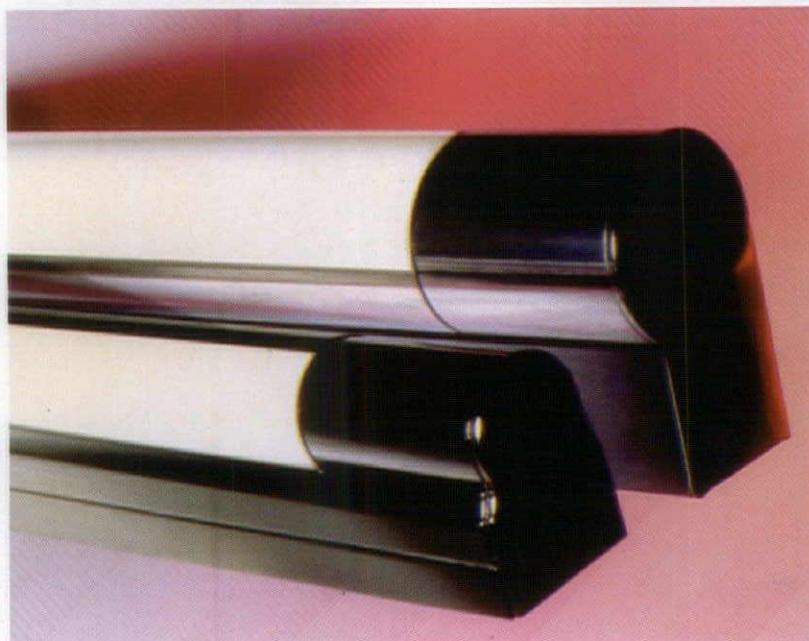
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ALKCO | WWW.ALKCO.COM

Product: Tabbi

Ideal for under-cabinet, workstation, and display applications, where cool operating temperatures are required. This luminaire can be installed both horizontally and vertically. Tabby measures less than 2 inches high and 2 1/4 inches deep, uses an 11W or 13W T2 linear fluorescent lamp, and has an integral ballast. The linear light shield is rotatable through 120 degrees. The housing is fabricated from extruded aluminum with knockout end caps in a standard white polyester-resin powder-coat finish. Anodized-aluminum and chrome-plated finishes may also be ordered. UL and CUL listed for direct-wired and portable plug-in installations. **CIRCLE 164**



LAMPA | WWW.LAMPA.COM

Product: ILD Table Lamp

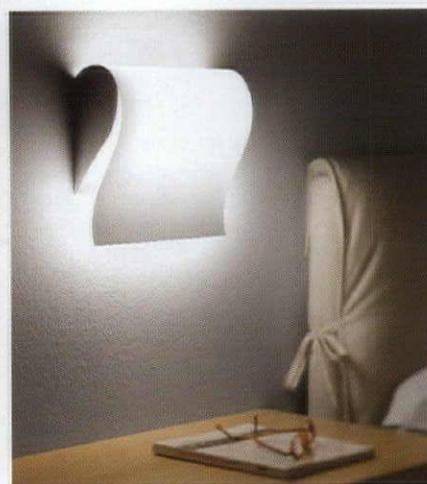
A contemporary table lamp suited for hospitality, retail, residential, and office applications, the luminaire features a high-gloss powder-coat finish, a three-way touch dimmer, and is available in the six standard Lampa colors: clay, canary, lichen, watermelon, orange, and white. The lamp stands 18 inches high, has a diameter of 7 inches, and uses a 100W bulb. **CIRCLE 167**



LEUCOS | WWW.LEUCOS.COM

Product: Claire

This wall luminaire designed by Danillo De Rossi drapes satin white glass over a polished chrome metal structure, diffusing the light source to produce a smooth glow. Available in three widths—5 1/8, 10 1/2, and 19 7/8 inches—and is 26 inches tall and 4 inches deep. For use with incandescent or fluorescent sources, including 75W G9 lamps or 36W G11 lamps, the luminaire is also ADA compliant. **CIRCLE 168**



LUXO | WWW.LUXOUS.COM

Product: Arketto LED

The award-winning Arketto task light now incorporates three 3W LEDs with a lens that spreads the light over a large work area; according to the company, the design places more light on a desk than a 40W halogen, without the radiant heat. Arketto's arm, which is covered in a woven textile material, is over 37 inches long and is available in four colors. The standard edge clamp can be replaced with a weighted base for desktop mounting. **CIRCLE 165**



HINSON & COMPANY | 718-482-1100

Product: Libra

Libra from Barcelona-based lighting manufacturer Metalarte, and offered in the United States as part of the Hinson Lighting Collection, offers a contemporary interpretation of a traditional reading lamp. The balanced design enables the lamp to tilt up and down and side to side. It also adjusts in height from 42 to 60 inches, and the arm extension reaches to a maximum of 39 inches. The base diameter is 11 1/4 inches. The shade, available in two color options (black or white), has a diameter of 10 1/2 inches. The available finishes include matte nickel or polished brass. For use with a 100W incandescent bulb. **CIRCLE 169**



Product: LuxoFlex

Well-suited for office and medical settings, this luminaire can be used in any application that requires aimable high-output illumination. The flexible gooseneck arm allows for repositioning and is available in lengths of either 29 or 40 inches, in a matte black or white finish, and uses one 35W MR16 halogen lamp. The ribbed outer surface of the shade is cool to the touch and provides a non-slip surface. Mounting options include edge clamp, surface mount or floor stands with casters or glides. **CIRCLE 166**



TASK

ARDEE | WWW.ARDEE.COM

Product: Retail Rod

This self-illuminated aluminum rod system provides direct, cool-to-the-touch, glare-free fluorescent illumination. The underside of the rod has a flush-mounted prismatic lens fabricated from extruded acrylic or polycarbonate that snaps into place for relamping. Light is evenly distributed from a choice of either a full-spectrum compact T2 or T5 lamp. Available in lengths up to 5 feet, the luminaire can be specified for wall- or surface-suspended mounting applications. Lengths of up to 12 feet and mounting options may be special ordered. **CIRCLE 170**



ELECTRI-CABLE ASSEMBLIES | WWW.ELECTRI-CABLE.COM

Product: Dimmer Light

The Dimmer Light uses energy-efficient T8 fluorescents, with class-P-rated thermally protected ballasts that automatically turn off in the event of overheating. Housings are made of 20-gauge cold-rolled electro-galvanized sheet metal with baked enamel finishes in a range of colors from matte black, putty, and gray to custom-matched tones. Clear acrylic prismatic lenses and a full reflector offer light control and reduce veiling reflections. Fixtures have keyhole slots for mounting on wood; metal shelf mounts are also available. **CIRCLE 172**



MEYDA TIFFANY | WWW.MEYDA.COM

Product: Swing Arm Art Glass Lamp

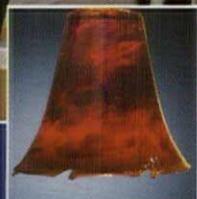
Handcrafted of authentic art glass using Louis Comfort Tiffany's copperfoil construction process, this task luminaire features a geometric cone-shape shade with a beige art glass background and a red and yellow flag-shaped accent motif. The lamp stands 23 inches tall, 6 1/2 inches wide, and 23 inches deep. The shade diameter is 4 1/2 inches. For use with a 40W bulb. **CIRCLE 171**

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OGGETTI LUCE |
WWW.OGGETTI.COM

Product: Fantasia Jewel

This table lamp line from Oggetti Luce features mouth-blown Venetian glass shades, in 12 different designs (Golden Braid shown above). The fixture shades are signed by the artist Hans Peter Niedhart. The base and stand are finished in satin nickel plate. A range of recommended bulbs can be used. CIRCLE 173

FORECAST |
WWW.FORECASTLTG.COM

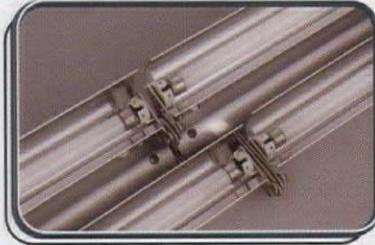
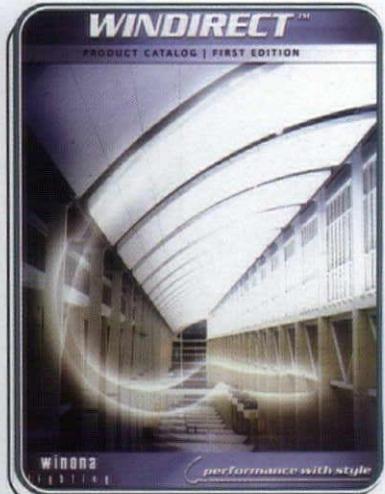
Product: Solutions

Most bathroom mirrors are illuminated by light fixtures mounted above the mirror, resulting in an unflattering light that creates shadows around the eyes and beneath the nose, lips, and chin. The Solutions Lighting line lowers the optic, thereby improving the approach angle, which provides a more attractive wash of light on the face. The product family offers a range of styles from contemporary to decorative. Model number F4831-08 (shown top) has a more traditional floral motif with a torch silver finish and etched white opal glass shades. The overall dimensions are 33 1/2 inches wide by 27 1/2 inches high by 9 inches deep. Model number F4820-68 (shown bottom) has a deep bronze finish and contemporary white bubble glass shades. Its overall dimensions are 32 1/2 inches wide by 27 1/2 inches high by 8 1/2 inches deep. Both fixtures require three 75W bulbs, and can also incorporate a dimmer. CIRCLE 174



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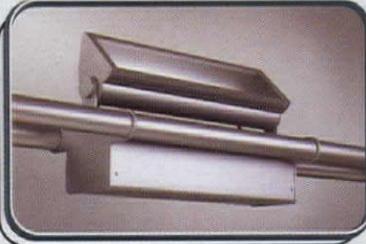
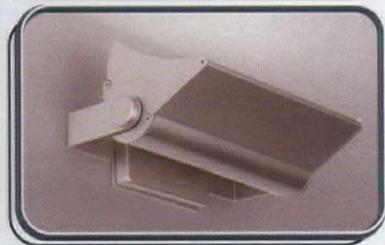
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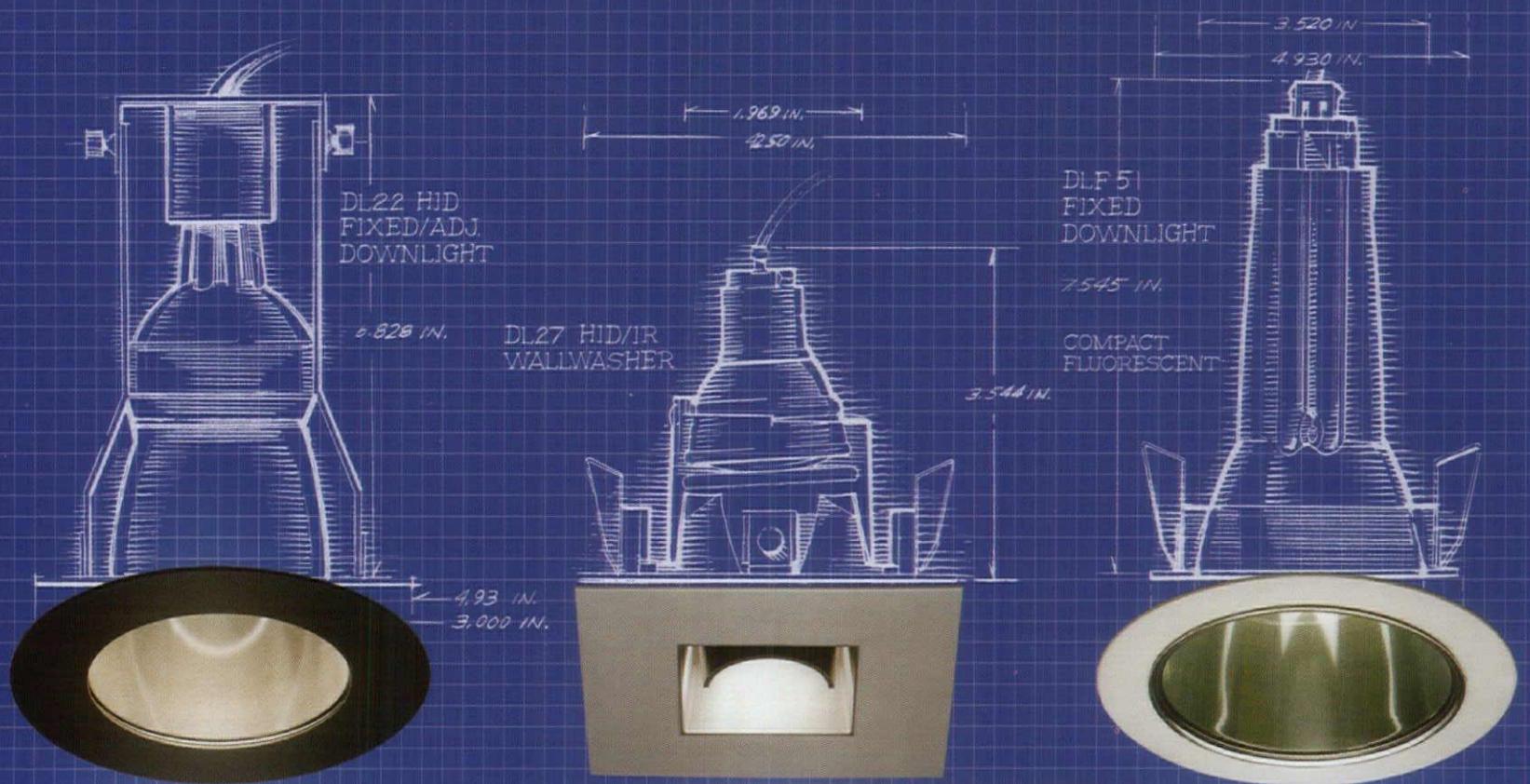
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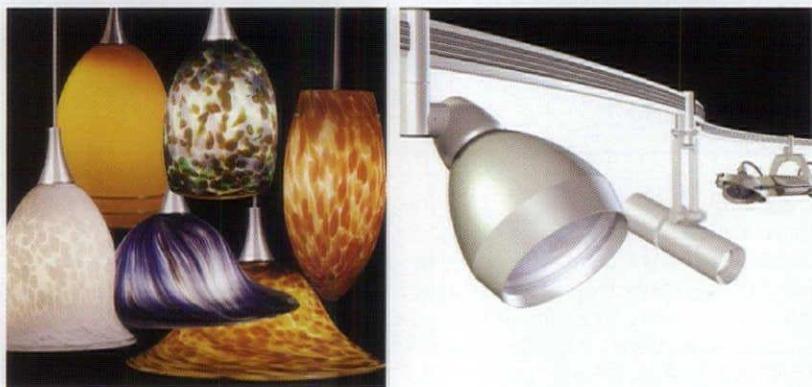
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HALO/COOPER LIGHTING | WWW.COOPERLIGHTING.COM

Product: Architectural Flexible Track System

A three-circuit hand-bendable track system combining two 120V circuits and one 12V circuit, the Architectural Flexible Track System is offered with five fixture families, handmade glass pendants (in juicy colors like Blueberry Swirl, Cherries Jubilee, and Butterscotch Twist), and a variable track connector hub. Lampholders accommodate incandescent, low-voltage, metal halide, and T5 fluorescent lamps, in wattages from 40W to 75W. Several of the lampholders work with existing Halo track systems. CIRCLE 175



CON-TECH LIGHTING | WWW.CON-TECHLIGHTING.COM

Product: Mini AroTech Slimstyle

The AroTech Slimstyle Series, with a 39W mini electronic metal halide ballast, takes a ceramic metal halide 39PAR20 lamp, which provides excellent color rendition (up to 85CRI), long lamp life (average 9,000 hours), and spot and flood beam spreads. A cast-aluminum gimbal enables the fixture to rotate 358 degrees in the horizontal plane to facilitate precise aiming. The small-size ballast weighs only 9 ounces, and is accessible through a backplate. CIRCLE 176



TIMES SQUARE LIGHTING | WWW.TSLIGHTING.COM

Product: C16 Series

The C16 Series consists of three miniature fixtures (C16H, C16V, and C16P) that accept low-voltage MR16 lamps from 20W to 75W in a variety of beam spreads. The pattern projector comes with built-in, four-way adjustable framing shutters and pattern holder, allowing the projection of logos and other visuals. Accessories, mounting, and dimmer options are available for each fixture. CIRCLE 177



ERCO | WWW.ERCO.COM

Product: Optec Spotlight

The Optec line of fixtures from Erco now includes a family of spotlights, which like other products in the line, separates the lamp head from the control gear housing. The fixture includes a Softec lens to optimize the light quality. The system allows for various low-voltage reflector lamps up to 100W, and a variety of structural shapes house the different sizes of the electronic transformers. The luminaire is intended to light retail spaces, restaurants, and galleries. CIRCLE 178



LIGHTING SERVICES INC | WWW.LIGHTINGSERVICESINC.COM

Product: TPM111 Series

The TPM111 Series Spotlight accepts the most recent addition to the Philips CDM family of lamps—the 35W ceramic metal halide CDM-R111. Constructed of heavy-duty extruded and cast aluminum, the TPM111 Series includes an internal accessory cartridge that accepts color filters, spread lenses, light-blocking screens, and louvers. Finishes include graphite, platinum, silver, black, and white, with a variety of mounting options. The fixture is appropriate for applications where a high-intensity spotlight is needed. CIRCLE 179



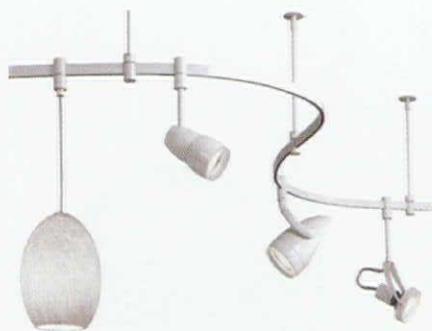
NORA LIGHTING | WWW.NORALIGHTING.COM

Product: MiniTrack Collection

Intended for small coves, display cases, and other constrained areas that demand vibrant and precise lighting effects, the MiniTrack fixtures are available as halogen spots, miniature cove/cabinet illuminators and pendant cord fixtures for directional illumination or indirect accents. CIRCLE 180



TRACK



TECH LIGHTING |
WWW.TECHLIGHTING.COM

Product: T-trak
The hand-bendable line-voltage T-trak system now includes a white finish option for components, providing designers with an opportunity to capitalize on T-trak's versatility while blending with a white ceiling. Available options include incandescent and ceramic metal halide lamp configurations for heads and a host of decorative pendants. **CIRCLE 181**

BRUCK LIGHTING | WWW.BRUCK
LIGHTINGSYSTEMS.COM

Product: Bling
Bling is comprised of draped strands of Italian glass molded into a clean pendant shape. Available in Amber or Clear, the glass reflects and refracts light for a sparkle effect. Available in two sizes as a pendant that can be attached to a canopy or to any of Bruck's line of track systems, including the Boa, Enzis, and Flex Line. Cable length can be field-cut or specified during ordering. **CIRCLE 183**



ALFA/JUNO LIGHTING |
WWW.ALFALIGHTING.COM

Product: Vintage Bronze Collection
The Vintage Bronze Collection is available in a variety of low-voltage mono-track systems from Alfa. The comparatively small size of Alfa's systems and the comprehensive line of installation hardware allow the system to be installed in many environments. **CIRCLE 182**

LIGHTOLIER | WWW.LIGHTOLIER.COM

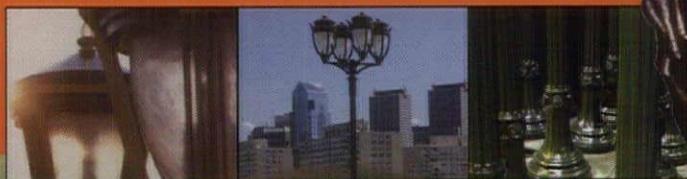
Product: Alcyon
Alcyon luminaires feature a visually wireless design, a thin blade-like stem that virtually disappears in profile creating a floating head effect, and 365 degrees horizontal rotation. Alcyon uses MR16, fluorescent T4, and PAR halogen sources, and unique options including cylinders, rings, wall-washers, and decorative glass units. The Alcyon low-voltage units feature a front cartridge that is hinged and captive and comes standard with a stainless-steel ring that holds up to two accessories. The series also includes companion line-voltage accent fixtures. **CIRCLE 184**



Sentry

Exterior Lighting

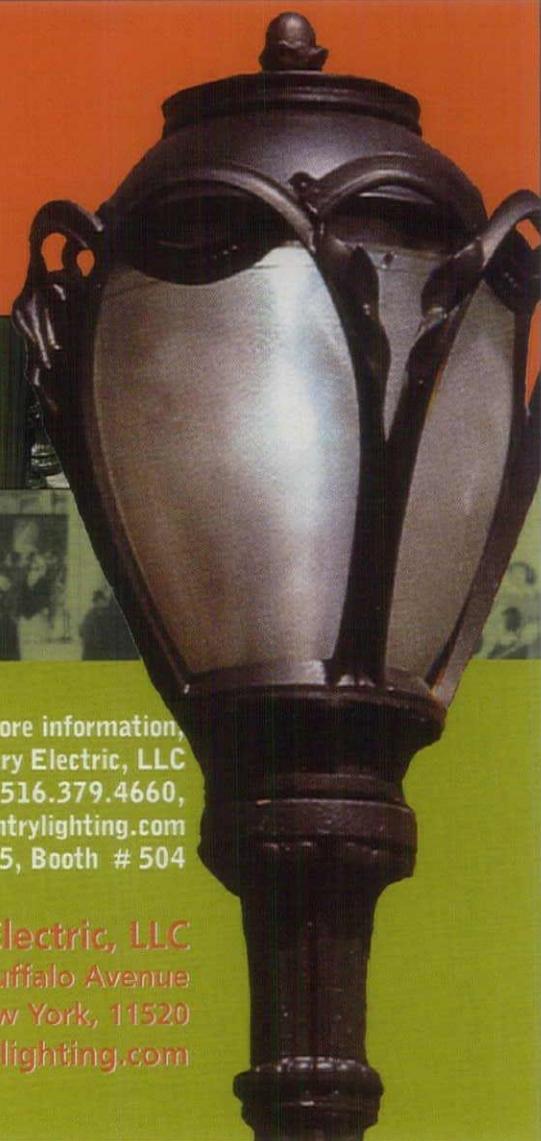
LUMINAIRES
POLES



BOLLARDS
ACCESSORIES

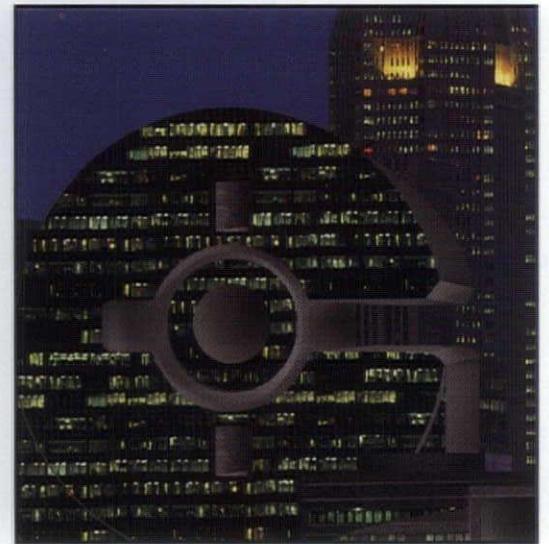
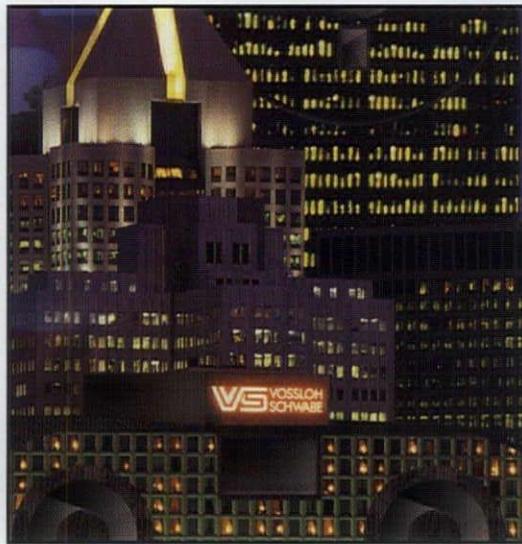
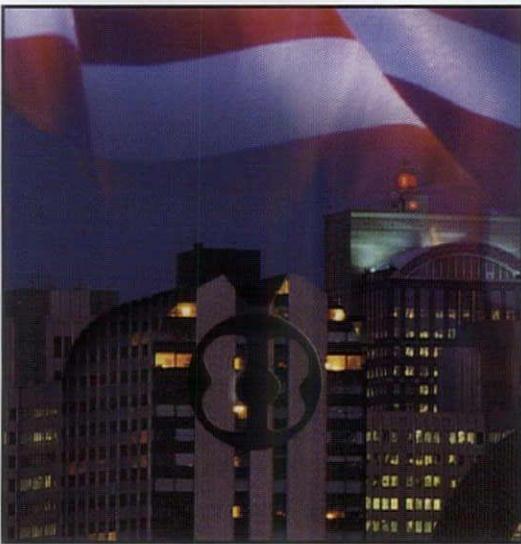
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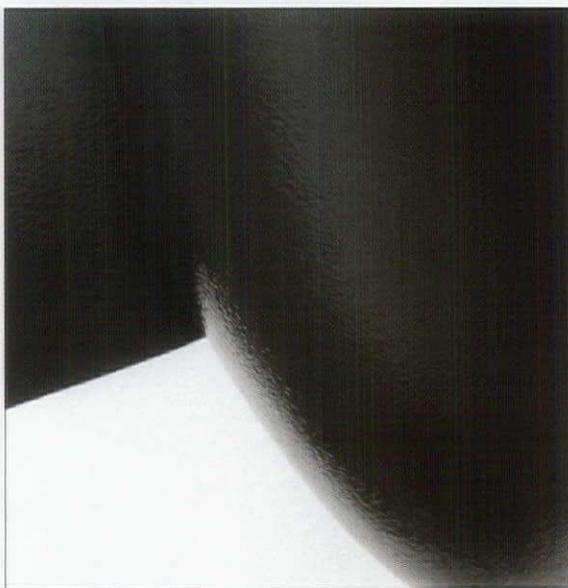
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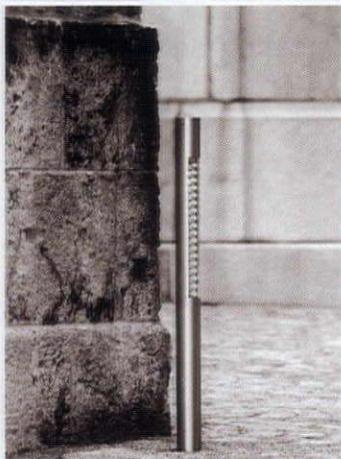
www.seegreatshapes1.com

VISIO LIGHTING | WWW.BEACONPRODUCTS.COM

Product: Fiaccola

Recently launched in the United States by Visio Lighting, Fiaccola, Italian for "torch," is a high-performance linear pipe-light system for outdoor area, site, and landscape illumination, and selected indoor ambient applications. Available as a building-mounted, pole-mounted, or above-ground luminaire, the fixtures provide energy-efficient, glare-free illumination using compact U-shaped PL fluorescent and linear T5 fluorescent lamps. Specified in lengths from 2 to 6 feet,

and in 12-inch increments for larger multi-luminaire applications, the illuminated portion of the fixture can be specified to cast light in a 90-, 120-, 160- or dual-sided 90-degree distribution pattern. Several window fascia options are also available. The cylindrical housings are fabricated from high-grade stainless steel. The lens is constructed from frosted or clear polycarbonate. The nested pipe design allows for front- or top-end removal when re-lamping is necessary. **CIRCLE 238**



ARCHITECTURAL AREA LIGHTING | WWW.AAL.NET

Product: Arts & Crafts

Available in round and square versions, the Arts & Crafts luminaire provides full cutoff optics, and symmetric and asymmetric light pattern. Mounting configurations include post top, wall and pendant mount. Using full cutoff optics, the Arts & Crafts emits no light above 90 degrees horizontal. Five lamping options include: CF, PLH, QL, metal halide ED17, and T6. Hood finish options are stainless steel, copper, opal acrylic, mica, and painted aluminum. Fixture has an IP rating of 55. **CIRCLE 240**



Product: Universe Bollard

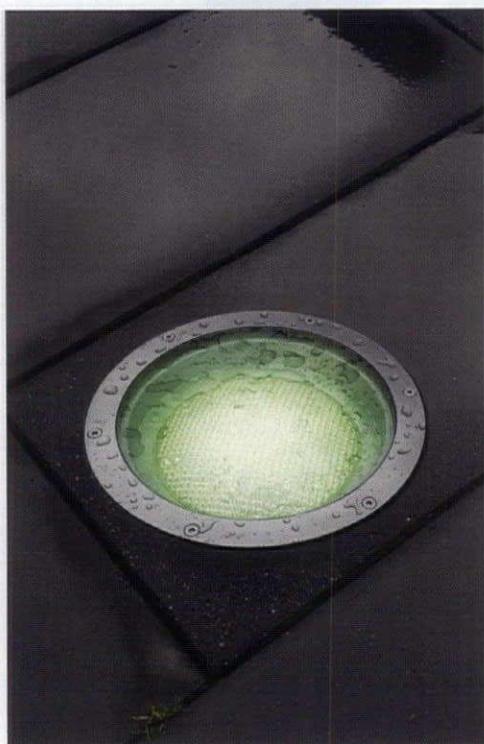
A modular fixture system, the Universe Bollard offers a refractor optical system with IES cutoff options for Dark Sky compliance. Options include House Side Shields and Battery Backup systems for egress lighting applications. Hoods come in straight and flared shades; users can choose from among 11 colors and two hood finish options: stainless steel and natural copper. **CIRCLE 240**



MARTIN ARCHITECTURAL | WWW.MARTIN-ARCHITECTURAL.COM

Product: Inground 200 Series

A durable range of IP 65/67-rated inground fixtures, the Inground 200 Series is a series of programmable uplights for the illumination of façades, columns, landscapes, and interior applications. Three color systems are available: single color, six colors, and full-spectrum. An adjustable lamp frame allows for 360-degree rotation, to compensate for variations in terrain and to allow for precise optical aiming. Inground 200 is designed to withstand loads of five metric tons and can be sleeve-mounted and installed in concrete for drive-over applications. Options include custom colors and dimmers. **CIRCLE 239**

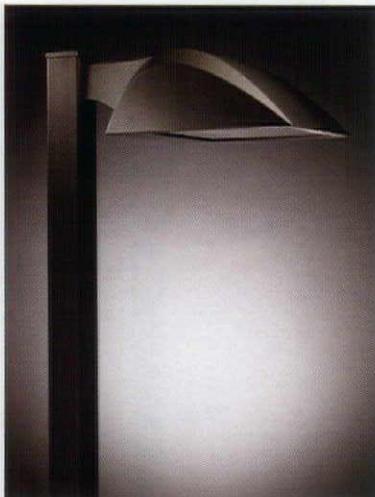


QUALITY LIGHTING | WWW.QUALITYLIGHTING.COM

Product: DS-13/18

This low-glare wall-mounted downlight suits parking garages and other outdoor building-mounted area lighting. The luminaire emits directional forward-throw downward illumination. The smooth-edged, semi-cylindrical housing mounts flush to wall surfaces, and is available in two lengths: 13 or 18 inches. Each luminaire has a one-piece asymmetric anodized metal reflector which provides precise beam control, and a tempered glass lens to minimize uplight and light scatter. Lamp options include metal halide and high and low pressure sodium in different wattages. The luminaire meets or exceeds all ASTM requirements, including 1,000-hour salt-spray endurance testing. **CIRCLE 241**





BETA | WWW.BETA-LIGHTING.COM

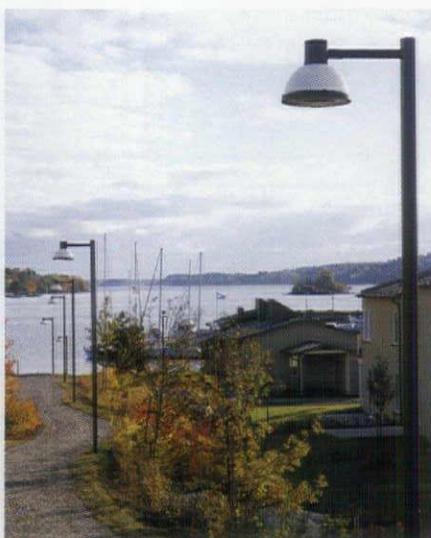
Product: Aviator

In airfoil shape, the Aviator is available in segmented Type III and Type IV optics and meets full IESNA cutoff classification. Made of one-piece die-cast aluminum, the Aviator has a removable electrical component tray, a toolless quick-release lens frame, and two optical system choices. The fixture's ballast is heat sunk on two sides and passes UL's 40 degrees C ambient temperature rating test. Five mounting choices are available. **CIRCLE 242**

LOUIS POULSEN | WWW.LOUISSPOULSEN.COM

Product: LP Icon

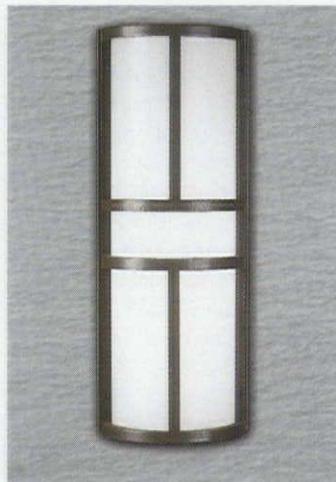
This new family of full-cutoff and cutoff luminaires is available in post-top, cable-mounted and wall-mounted versions. The fixture is offered in Mini (15 1/2 inches by 18 3/4 inches) and Maxi (21 1/4 inches by 26 inches) scales, in both Type III and Type V Square distributions. An additional Type V distribution is available with the Mini. The housing is die-cast aluminum with a natural painted aluminum or charcoal grey powder-coated finish. Four heavy-duty latches allow for toolless access. Lamp options include high pressure sodium or metal halide. **CIRCLE 243**



HANOVER LANTERN | WWW.HANOVERLANTERN.COM

Product: Indian Wells Series

The mission-styled Indian Wells Series is constructed of cast aluminum and opalescent honey glass panels, and comes in two sizes: small (11 3/4 inches by 9 1/8 inches) and large (18 5/8 inches by 14 inches). The housing is available in 25 finish selections, including five new choices: Ironstone, Landscape Brown, Vintage Copper, Granite, and Dark Bronze. Several mounting options are available including: wall bracket, ceiling suspended, or post top. Posts are not included. **CIRCLE 244**



ORIGINAL CAST LIGHTING |

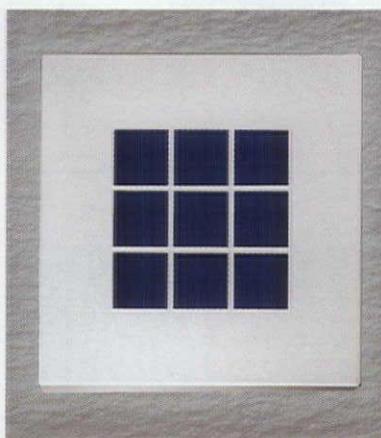
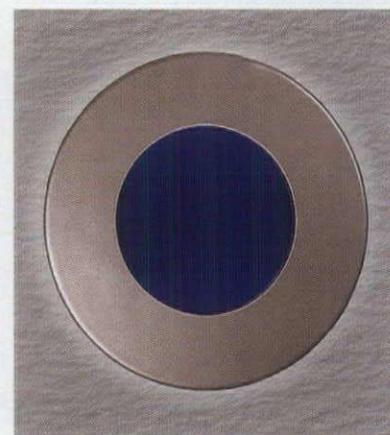
WWW.THEOCL.COM

Product: Regency

This new outdoor series of sconces from OCL is available with four face designs and eight finish colors; it requires no recessed mounting and has five lamping options (13W QD, 27W BX, 39/36W BX and 60W T10). The cylinder housing is constructed from F1-rated 3/16-inch-thick 100 percent virgin white acrylic. Compact fluorescent fixtures are provided with electronic ballasts. Dimming and emergency ballasts are also available. The back box is painted to match fixture finish. **CIRCLE 245**

Product: Denali

Part of a new series of outdoor sconces from OCL, Denali is available with incandescent or metal halide lamping. The round outdoor sconce has three face designs, four inner face finishes, and eight outer face finishes including painted matte white, painted silver hammertone, and copper metallic. Luminaire efficiency is 29.5 percent. The recessed housing rough opening is 9 inches in diameter, standard painted white. Light spray panels, which throw light out in a radial pattern, are available. **CIRCLE 245**



Product: Arcadia

Another of the new outdoor sconces from OCL, the Arcadia is available in incandescent or metal halide lamping and has three face designs. The 14-inch-square sconce, which weighs eight pounds, can be ordered with light spray panels, which throw light out in a radial pattern. There are four inner face finishes and eight outer face finishes available, including steel gray and bronze paint. For use with 200W Type A, 70W or 100W metal halide lamps. Luminaire efficiency is 21 percent. **CIRCLE 245**

ALLSCAPE | WWW.ALLLIGHTING.COM

Product: SL-43

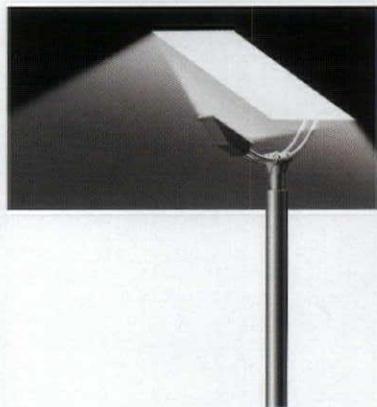
The SL-43's housing is constructed of rugged, impact-resistant, compression-molded RhinoLite composite material and structurally reinforced with glass fibers. A matte black housing is standard, and custom colors are available. In-ground and above-ground options available. ETL and CETL listed for wet locations, direct burial and concrete pour. Meets IP67 requirements. **CIRCLE 246**



BEGA/US | WWW.BEGA-US.COM

Product: Pole Mounted Luminaire

For illumination and delineation of interior or exterior spaces such as landscape areas, pedestrian squares, plazas, and building entrances, the Linear Pole Top Luminaire is made of a one-piece die-cast aluminum housing. The integral cast transition fitter slip fits a 3- or 3-1/2-inch pole top or tenon. The luminaire comes with a white translucent acrylic cylinder with a die-cast aluminum top and is fully gasketed for weather-tight operation. **CIRCLE 247**



Product: Low-Surface-Temp Floodlight

This ground-mounted low-surface-temperature floodlight (8754) uses ceramic metal halide light sources. Constructed of copper-free die-cast aluminum alloy, the floodlights are suited for general illumination of trees, walls, signage, and other surfaces. Two adjustable models meet low-temperature requirements. The floodlights come with light distribution from either an anodized aluminum or a dichroic pressed glass reflector. Convex tempered glass is 1/4 inch thick. **CIRCLE 247**

Product: Recessed Wall Luminaire

These louvered recessed wall luminaires with asymmetrical distribution are designed for low mounting heights. The die-cast aluminum faceplate features 3/8-inch-thick clear tempered glass machined flush with the faceplate. The luminaire features high-output, glare-free lighting appropriate for illuminating stairs, ramps, aisles, and other interior and exterior locations. Available in incandescent and compact fluorescent lamping with optional concrete protection cover. **CIRCLE 247**



LSI INDUSTRIES | WWW.LSI-INDUSTRIES.COM

Product: Hilton Wall Sconce

The latest addition to LSI's Hilton Series, this wall sconce comes in three configurations: as an uplight/downlight combination, a downlight, and an uplight. Featuring a contoured half-cylinder housing, the luminaire has lamping options up to 250W. There is also a compact fluorescent dimming option. **CIRCLE 248**



SELUX | WWW.SELUX.COM/USA

The Saturn Cutoff is available in both a cutoff or a full-cutoff version. The luminaire is constructed from die-cast aluminum, and the pole and base from either stainless steel or aluminum. Features include three mounting options: single, double, and wall. Other options include a sealed aluminum reflector with Type II and Type V distribution; and four standard finish choices. Custom colors can be specified. The Saturn Cutoff uses T6 ceramic-base metal halide lamps from 35W to 150W and has a lamp color of 3000K. **CIRCLE 249**

RSL | WWW.RSLLIGHTING.COM

Product: RSL Mini Underwater Lighting

This collection of miniaturized, low-voltage submersible luminaires fits unobtrusively into man-made or natural shallow ponds, pools, wells, or fountains. Three models are available: The UW30P is a bullet-shaped dual-purpose fixture with a head depth of 6 inches and a lens aperture of 3 inches, and a rotatable base. It uses a 20W MR16 halogen lamp. The fixture can be tray-mounted underwater or stake-mounted above ground. The UW32P is an ultra-compact, rotatable disc-shaped fixture with a U-shaped weighted magnetic-base mounting and uses a 10W MR11 halogen lamp. The UW31S has a miniature puck-shaped housing and uses a 10W T3 lamp. **CIRCLE 250**



SPAULDING | WWW.SPAULDINGLIGHTING.COM

Product: Cimarron

The Cimarron combines contemporary design and efficient flat-glass full-cutoff optic performance. The die-cast aluminum housing is engineered for installation with one of four IES light distributions (Type II, III, IV, and V) and a wide range of lamp sources including 175W to 400W metal halide or super metal halide, 100W to 400W pulse-start or 100W to 400W high pressure sodium lamps. Mounting options include upswept or straight arms for pole or wall installation. The five standard colors are bronze, black, white, grey platinum silver or two premium colors (red and forest green). **CIRCLE 223**



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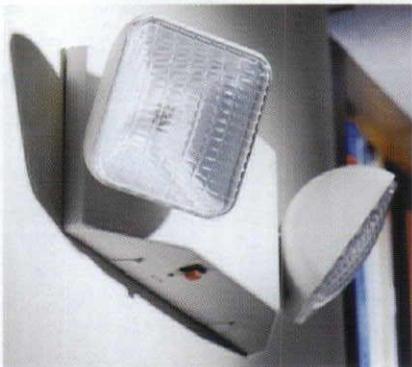
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Circle No. 30 or www.archlighting.com/productinfo

NAVILITE/JUNO |
WWW.JUNOLIGHTING.COM

Product: N1 Series

Available in white or black, this adjustable emergency fixture features a lead calcium battery, powers two 5.4W incandescent wedge-base lamps, and can be mounted on the wall or ceiling. Optional high-output modules can power 16.5W for 90 minutes. The fixture is 16 inches wide (from lamp to lamp) and 5 inches tall, with a depth of 5 inches. **CIRCLE 216**



Product: Edge-lit Exit Signs

Illuminated with LEDs, these edge-lit signs have three mounting options: top, side and back. Other features include an extruded-aluminum housing, a UV-stabilized clear acrylic panel, and a lead calcium rechargeable battery. The field-applied chevron directional indicators simplify specification and installation. The sign is 13 3/4 inches wide with the aluminum mounting platform, and 12 inches tall. The mounting platform is 1 3/4 inches wide. **CIRCLE 216**



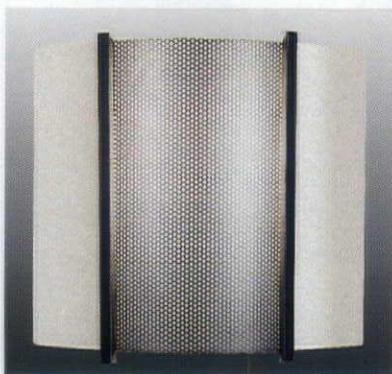
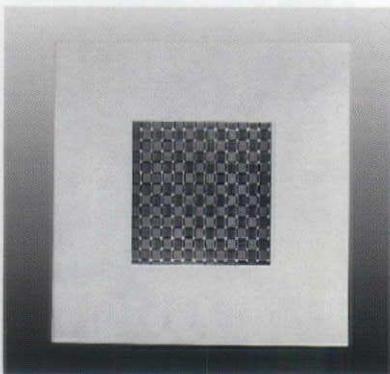
ORIGINAL CAST LIGHTING | **WWW.THEOCL.COM**

Product: Shadow (left)

Part of a new series of ADA-compliant integral emergency sconces, Shadow is available with a variety of drop-in panels that softly diffuse the light. The luminaire requires no recessed mounting and comes with a perforated metal, lattice, or basket-weave inner face and with nine outer face finishes. Measuring 12 inches square, the luminaire is available with dimming ballast and is UL damp listed. **CIRCLE 217**

Product: Icon (right)

Available in two sizes and two lamping options, the Icon emergency sconce requires no recessed mounting. Specifiers can choose between two cylinder materials and two finishes. In emergency mode, the rectangular-shaped Icon uses two lamps and is available with integral dimming ballast. **CIRCLE 217**



ACRILEX | **WWW.ACRILEX.COM**

Product: Acriglo

Providing illumination without a back-up power source during loss of electricity, Acriglo is charged by the light omitted during normal operation. The glow lasts for several hours with a lighting capacity equivalent to moonlight. Acriglo can be charged and discharged indefinitely without degradation of the acrylic. The sheets are offered in several colors, textures, and thicknesses. **CIRCLE 218**



CHLORIDE SYSTEMS |
WWW.CHLORIDESYS.COM

Product: SV16

An attractive emergency lighting solution for harsh, vandal-prone environments, the SV16 employs MR16 lamps. The housing, back plate, and electronics shell are molded from high-impact polycarbonate and meet UL's flame-retardant standard for emergency lighting products. Appropriate for wet locations, the SV16 is fully gasketed to prevent water entry and functions in temperatures ranging from 5 to 104 degrees Fahrenheit—a capability achieved through the use of an optional battery heater. **CIRCLE 219**



Product: Tuff-Act Harsh Environment Exit

The Tuff Act wet-location exit sign utilizes die-cast aluminum housing with impact-resistant injection-molded polycarbonate covers. Exposed hardware is vandal-resistant and anti-corrosion coated, making the sign appropriate for weather-exposed areas like parking garages and courtyards. The fixture promises 120 minutes of emergency power with a nickel cadmium battery; LEDs provide an estimated service life of 10 years. **CIRCLE 219**

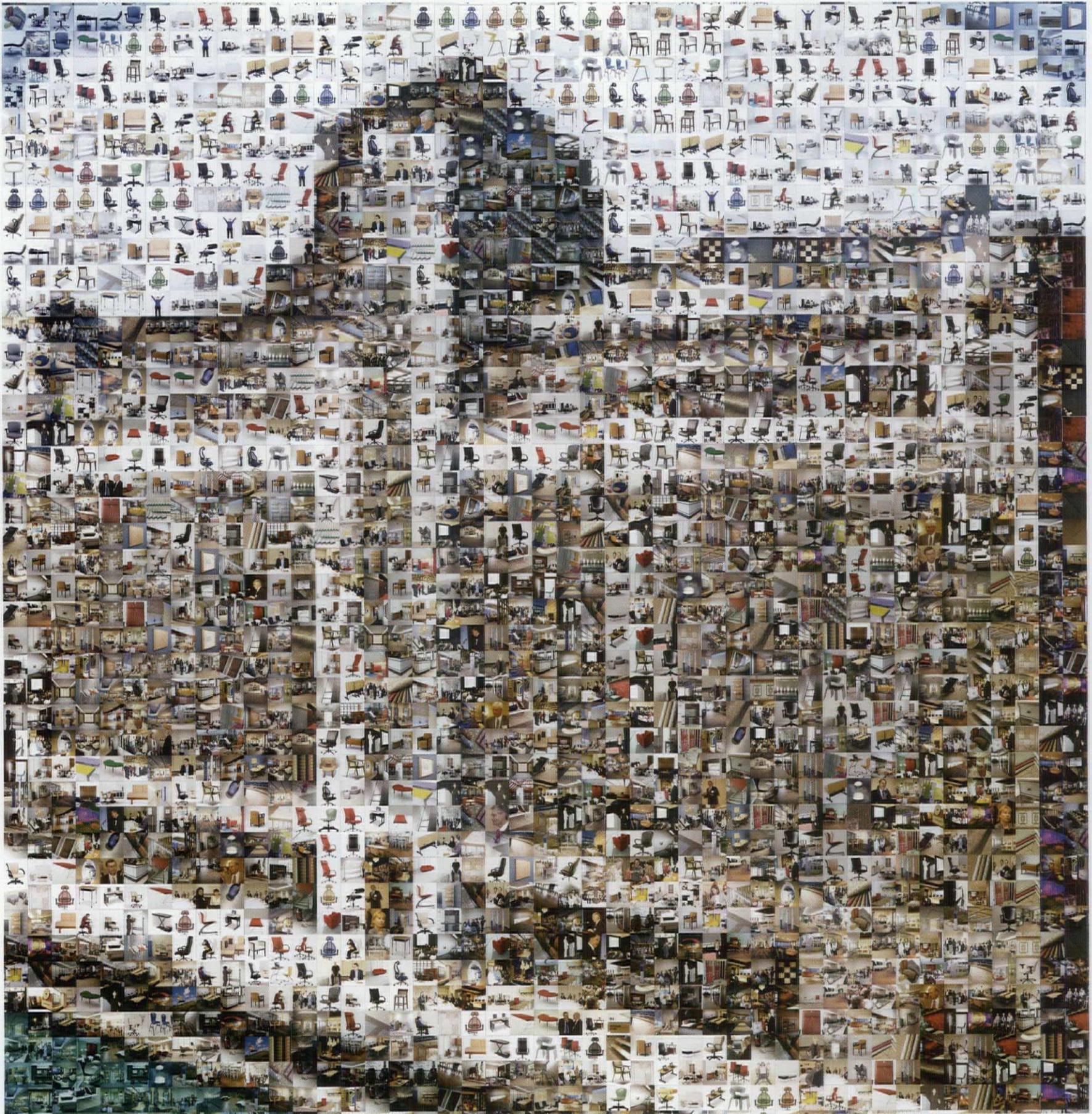


MAXLITE | **WWW.MAXLITE.COM**

Product: Decorative Emergency Fixture

After a power failure, this circular emergency fixture maintains 25 percent lumens for up to 90 minutes. With a ceiling fixture aesthetic, the luminaire is appropriate for hotels, restaurants, and other public places. It has a test button for the fire marshal, as well as a low-battery light and is available in an 18W Energy Star ceiling fixture. MaxLite maintains an extensive inventory of SKUs, for timely delivery. **CIRCLE 220**





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PHILIPS LIGHTING | WWW.PHILIPS.COM

Product: **MasterColor Integrated**

The 25W MasterColor Integrated is an all-in-one lamp and ballast in a PAR38 reflector. It can replace up to a 90W standard halogen lamp and, according to the company, provide more light output with three times the life and energy savings of a standard halogen. The crisp white light source provides 87 CRI, an average rated life of 9,000 hours, and comes in 10-, 25-, and 40-degree beam spreads. The ceramic metal halide lamp is appropriate for retail settings. **CIRCLE 201**



Product: **Mini MasterColor**

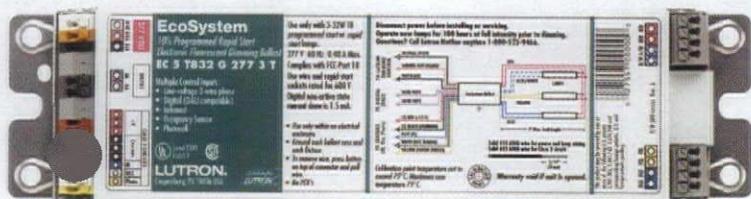
The smallest ceramic metal halide on the market, according to the company, the 20W Mini MasterColor is 50 percent smaller than competitive products. Jointly introduced with Advance Transformer, the product was launched on the tenth anniversary of the MasterColor technology. The 20W lamps light output is equivalent to 60W to 75W halogen lamps. **CIRCLE 201**



LUTRON | WWW.LUTRON.COM

Product: **EcoSystem Ballast**

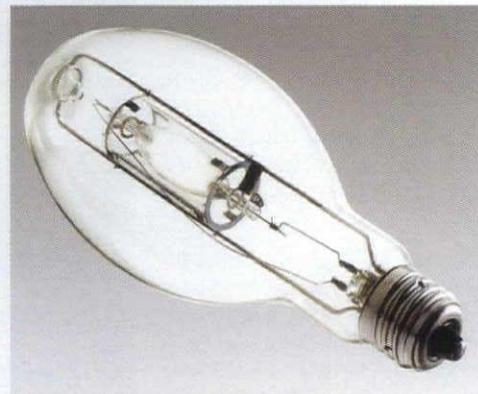
The EcoSystem ballast is the basic building block of the EcoSystem fluorescent lighting control products. The ballast connects directly to photocells, infrared (IR) receivers, occupant sensors, and wall stations without interfaces, power packs, or controllers. The ballast interprets data collected by the sensors and wall stations, adjusts light levels, and transfers the information to other ballasts. The structure and versatility remains intact as the system grows from one ballast to the next, with a maximum of 64 ballasts, which can in turn be linked to additional 64-ballast loops. The system can be integrated with other building management systems with the Lutron Grafik 7000. **CIRCLE 202**



VENTURE LIGHTING | WWW.VENTURELIGHTING.COM

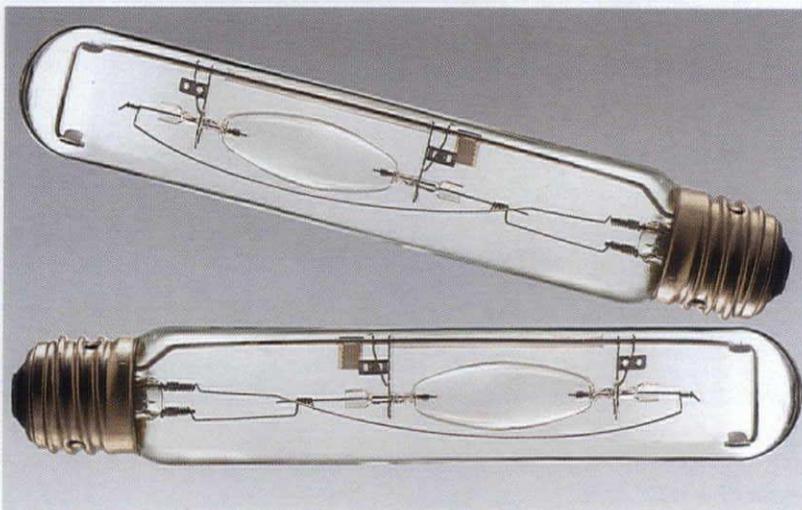
Product: **Uni-Form Natural White**

The MP Uni-Form Natural White pulse-start metal halide lamp is now available in 310W and 375W versions. The line of lamps offers 90+ CRI and a color temperature of 5000K. UV Shield technology prevents yellowing of polycarbonate lenses and enhances white light output. The lamp's ANSI Type-O rating allows for continuous operation of lamps without weekly shutdowns and complies with 2005 NEC standards. Appropriate for retail, parking garages, and roadways, the average rated lamp life is more than 20,000 hours. **CIRCLE 203**



Product: **Horizontal Tubular Pulse Start**

The Uni-Form H75 Pulse-Start System is designed for horizontal operation without the need of a position-oriented socket, owing to the Venture's patented arc tube technology. The lamp is available in several versions with respective initial and mean lumens and hours of lamp life: 200W (19,000 initial lumens, 15,000 mean lumens); 300W (28,000 initial, 22,000 mean, and 20,000+ hours of lamp life); 320W (30,000 initial, 23,000 mean, and 20,000 hours); and 350W (33,000 initial, 25,000 mean, and 20,000+ hours). **CIRCLE 203**



LITETRONICS INTERNATIONAL | WWW.LITETRONICS.COM

Product: **Micro-Brite PAR 38**

Suitable for indoor or outdoor use, Micro-Brite PAR 38 is an 8W lamp with a life rating of 18,000 hours and a two-year warranty. These cold cathode compact fluorescent lamps replace incandescent bulbs up to 65W and are instant-on, waterproof, unaffected by extreme temperatures, and fully dimmable and flashable. Appropriate for landscaping and architectural lighting, as well as restaurant mood lighting, Micro-Brite is available in 2700K and 4000K white as well as red, green, blue, yellow, and pink. **CIRCLE 205**



LAMPS/BALLASTS

BULBRITE | WWW.BULBRITE.COM

Product: Line-voltage R111

The R111 halogen reflector is suitable for fixtures where the lamp is part of the fixture's appearance. With a line-voltage equivalent to AR111 lamps, the lamp gives highly accurate and precisely defined beam spreads. Its GU10 base provides a secure twist and lock system. The glass lens cover has a frosted glare shield. Lamp options include 50W, 75W, and 100W versions, as well as flood and wide flood, and have a 2,000-hour rated lamp life. **CIRCLE 206**



Product: Dark Sky Lamp

An energy-efficient nighttime bulb, the Dark Sky bulb has been approved by the International Dark Sky Association. The patent-pending Dark Sky avoids glare and light trespass, and shines only where light is needed; lighting is efficiently targeted and does not make a direct contribution to uplighting. The Dark Sky lamp works in both base-up and base-down fixtures and uses Energy Star-approved 15W compact fluorescent bulbs. **CIRCLE 206**



Product: Purify 02

This compact fluorescent bulb safely breaks down odors while providing energy-efficient light. Energy Star approved, the bulbs have a special TiO2 (titanium dioxide) coating that helps purify the air and eliminate odor. Great for gyms, hotels, restaurants, and homes with pets. **CIRCLE 206**



OSRAM SYLVANIA | WWW.SYLVANIA.COM

Product: Soft White Dulux EL Family

Osram Sylvania has expanded its Soft White Dulux EL family with the addition of several Energy Star-rated products. This line of screw-base compact fluorescents allows for most standard incandescent bulbs to be replaced with a long-life alternative solution. The newest products include: the energy-saving 28/19/12W 3-way twist; a 30W twist, at 2000 lumens, for applications that require increased light output; the 4W flame-shape medium and candelabra base; and a 7W torpedo medium and candelabra base. **CIRCLE 210**



Product: Daylight Family

The company's expanded Daylight family includes two new categories, Daylight Plus and Daylight Extra. The Plus products are for outdoor lighting applications. Sylvania's halogen PAR lamps are made with special neodymium lenses that make their light whiter than standard halogen lamps. New product offerings include a 50W PAR 20 and 50 lamp, a 75W PAR 30, 50, and 60 lamp, and a 75W PAR 38 floodlight with patented SPL optics. The 60W PAR38 Daylight Plus lamps have an average rated life of 2000 hours. The Extra products include a 13W self-ballasted compact fluorescent lamp with a color temperature of 3500K, and an average rated life of over 8000 hours that can replace a 60W incandescent. **CIRCLE 210**



ADVANCE TRANSFORMER | WWW.ADVANCETRANSFORMER.COM

Product: Optanium

The Optanium Instant-Start Electronic Ballast uses T8 fluorescent lamps in multiple sizes, including 17W, 25W, 32W, and 40W, and feature IntelliVolt multiple-voltage technology, as well as cold-start capability down to -20 degrees. The ballasts operate between one and four lamps and come with a standard light output and a low-wattage design. The lamps operate at a frequency between 42 and 52 kHz to eliminate visible flicker and avoid interference with infrared devices and surveillance systems. They also incorporate anti-striation circuitry, auto-restrike capability, 20-foot remote mounting, and independent lamp operation to insure the fixture remains partially lit when the lamp burns out. **CIRCLE 211**



Product: e-Vision Electronic HID Ballasts

Advance has added 70W and 100W models to its e-Vision line of electronic ballasts. A full 26 percent smaller than their predecessors, both models share the 2x42W SmartMate ballasts' footprint, offering fixture manufacturers, specifiers, and end users a heightened degree of design flexibility. **CIRCLE 211**

Product: Centium 347/480V 4-Lamp T5HO Electronic Ballasts

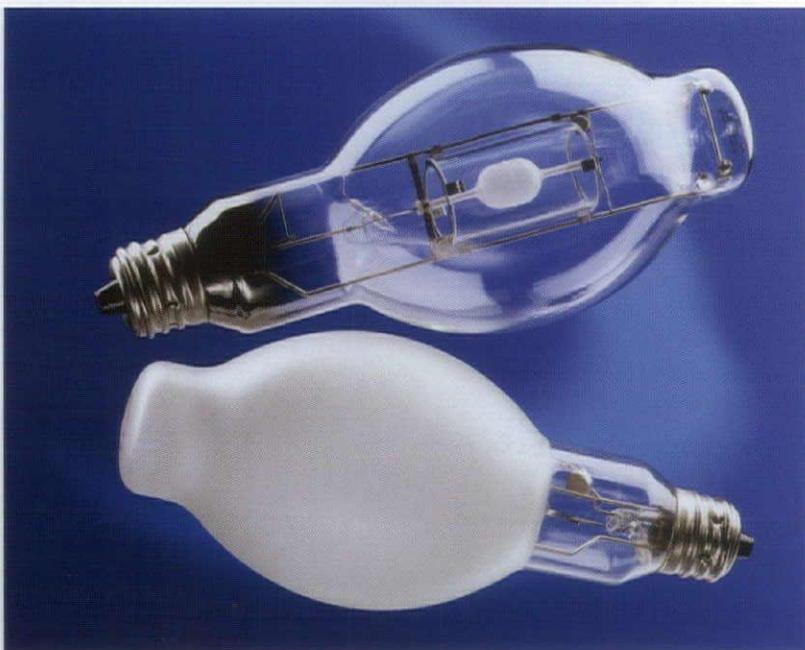
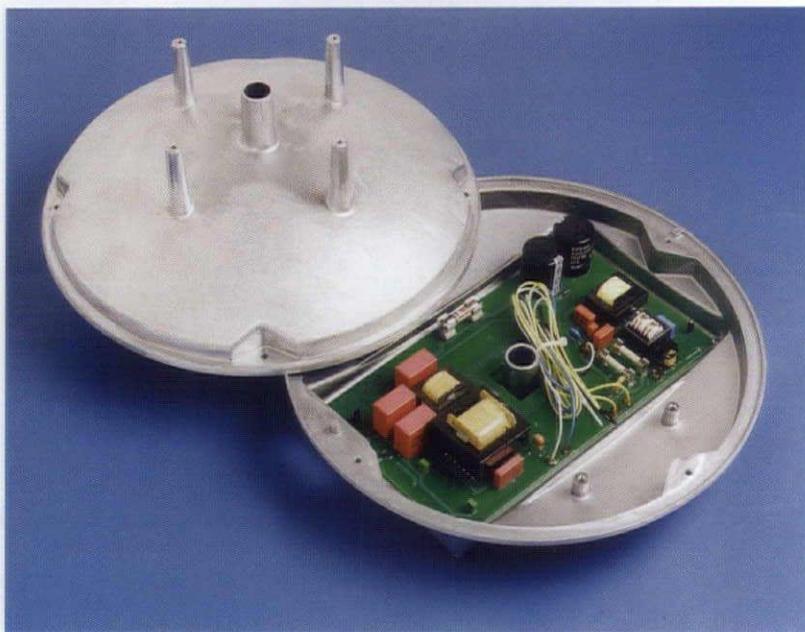
Compact, lightweight, and highly versatile, Advance's exclusive 4-lamp Centium electronic ballasts with IntelliVolt-Hi technology for 54W T5HO applications are ideal for general office lighting and board/conference rooms, as well as industrial applications that utilize a 480V AC system. **CIRCLE 211**



GE | WWW.GELIGHTING.COM

Product: High-Watt Electronic HID Ballast

Geared to commercial and industrial end-users, the High-Watt 250-400 Electronic HID Ballast operates multiple lamps from 250W to 400W. They can deliver 23 percent energy savings when paired with 350W or 320W CMH lamps instead of standard 400W metal halide lamps. They provide up to 10 percent improvement in lamp lumen depreciation when powering quartz metal halide lamps and a 5 percent improvement for ceramic metal halide lamps. HID ballasts come in their own housing for optimal thermal management. **CIRCLE 214**



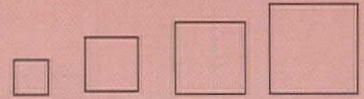
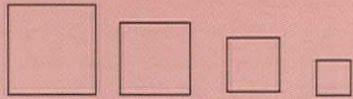
OSRAM SYLVANIA | WWW.SYLVANIA.COM

Product: 320W Metalarc Powerball Ceramic

Available in clear or coated versions, the 320W Metalarc Powerball Ceramic Lamp offers an energy-efficient alternative to 300W and 400W ceramic metal halide lamps for new installations. The arc tube design improves color and lamp performance, and is applicable for color-critical retail applications. **CIRCLE 210**

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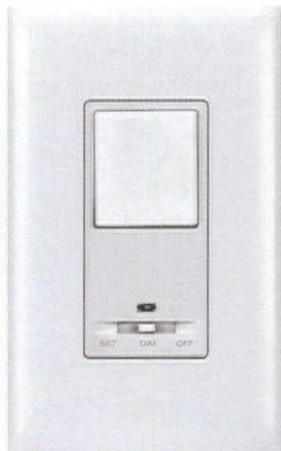
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CRESTRON | WWW.CRESTRON.COM

Product: CLW-SW1 Keypad Controller

A full-function, single-button keypad controller, the CLW-SW1 is a 1000W electronic light switch designed to mount in a standard electrical gang box. It supports incandescent and electronic low-voltage loads up to 1000W or magnetic low-voltage and neon/cold cathode loads up to 1000VA/750W. Fluorescent ballasts, HID lighting, and general-purpose fans can also be switched. Although functional as a stand-alone switch, the CLW-SW1 also works as part of an automated system. **CIRCLE 185**



Product: MT-1000C MiniTouch

The MT-1000C MiniTouch wireless controller works a range of systems, including lighting, HVAC, and AC. Its lightweight, ergonomic design makes the product easy to handle. An integrated movement sensor automatically turns on the touchpanel backlight. **CIRCLE 186**



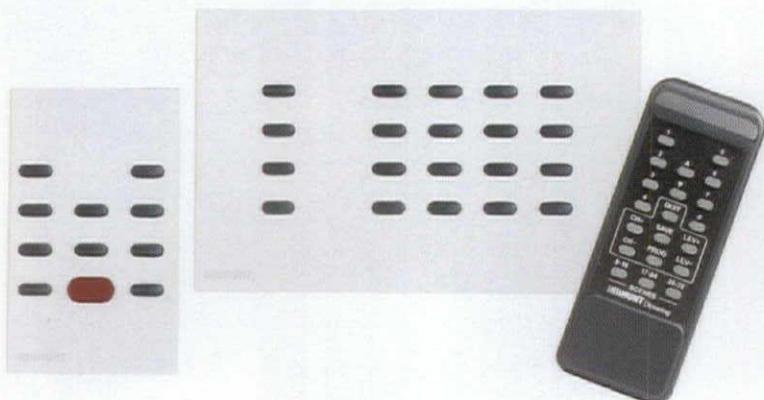
HUNT DIMMING | WWW.HUNTDIMMING.COM

Product: Demand Response Dimming

Demand Response capabilities have been added to the Simplicity Series Digital Dimming Systems. This allows end-users to take advantage of favorable utility rates by offering variable load-shedding strategies for interior building lighting. This feature helps large energy users avoid peak rates, and participate in utility-sponsored rate-reduction programs offered in exchange for load-shedding commitments. Proprietary software is incorporated into the dimming panels where load-shedding is administered directly by the utility; maintained on site by the facility owner; remotely initiated by a centralized office with local override options; or integrated into an ancillary building management system to provide the desired load-shedding for lighting while being incorporated into entire building strategies. **CIRCLE 187**

Product: Scalable Dimming

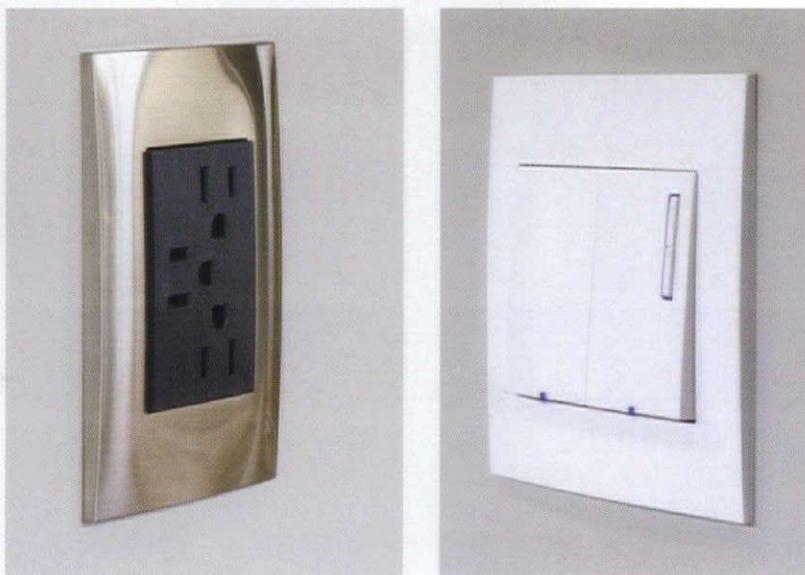
Scalability has also been added to the Simplicity Series Digital Dimming Systems. This allows the dimming installation to grow cost effectively and adapt to the future needs of the end-user, minimizing future material and labor costs to the equipment owner. Dimming panels, in circuit increments of 6 or 12, can be added to or deleted from the original layout. The system is designed in a modular fashion and utilizes a plug-and-play concept that allows for later building additions to leverage the existing dimming equipment. Each panel contains 12 individually addressable outputs, and each circuit is rated at 20A and is capable of being dimmed or switched. **CIRCLE 188**



LEVITON | WWW.LEVITON.COM

Product: Acenti

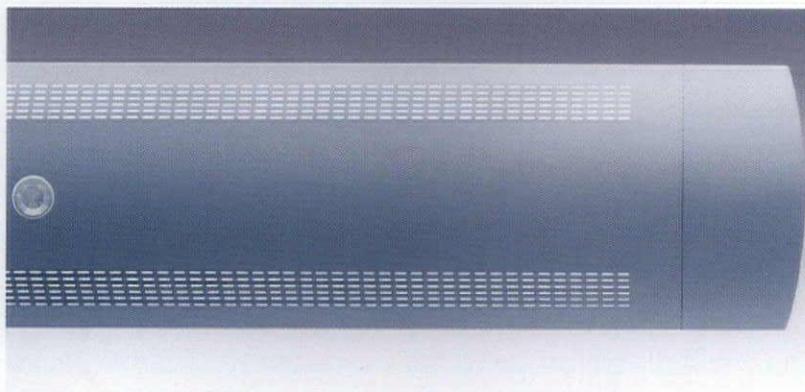
Developed in partnership with IDEO, the internationally recognized innovation and design firm, the Acenti Collection of dimmers, switches, and receptacles, re-imagines residential electrical devices. An uncluttered control surface and a contoured wall plate creates a clean transition to wall surfaces. Features include: lighting controls with a one-touch Dim/Bright bar that allows users to set precise light levels and remembers settings; control from multiple locations; an electronic ON/OFF switch with a return-to-neutral position; a blue LED indicator light; a ground fault circuit interrupter; and a surge-protected receptacle with an audible status indicator. The design also eliminates the use of dividers between each device in multi-ganged applications, and the innovative triplex receptacle (below left) adds an extra duplex configuration and reverses the orientation of the top and bottom outlets so that transformers do not block the receptacle. **CIRCLE 189**



ZUMTOBEL STAFF | WWW.ZUMTOBELSTAFF.COM

Product: Integral Daylight/Occupancy Sensor (IDOS)

Zumtobel has added the Integral Daylight/Occupancy Sensor (IDOS) to its line of ETHOS and SPHEROS T5 fluorescent luminaires. The 2-inch-diameter sensor is connected to a DALI ballast, which provides individual control of the luminaires. The pre-programmed Plug-and-Play unit senses and responds to light levels in a room, and includes a remote control that can independently operate luminaires. In addition to monitoring illumination, the IDOS detects motion in a room and turns lights on or off correspondingly. **CIRCLE 190**



CONTROLS

UNIVERSAL LIGHTING TECHNOLOGIES | WWW.UNIVERSALBALLAST.COM

Product: DaliPro

DaliPro is a user-friendly, dimmable ballast designed for use with DALI compatible controls. It can be programmed to perform multiple commands on cue from the push of a button or by computer control. Commands include on/off, light level control, and scene recall; ballasts can be controlled individually, in groups, by room, or by area. For automated control systems, DaliPro can communicate lamp and ballast status back to a central network. Available for T5, T5HO, and T8 fluorescents as well as 18W to 42W compact fluorescent and 40W twin-tube lamps. DaliPro offers continuous dimming capabilities for compact fluorescent lamps from 100 to 3 percent. DaliPro includes Programmed Rapid Start technology to maintain lamp life in frequent starting conditions. **CIRCLE 191**



LIGHTRONICS | WWW.LIGHTRONICS.COM

Product: AS Series Software

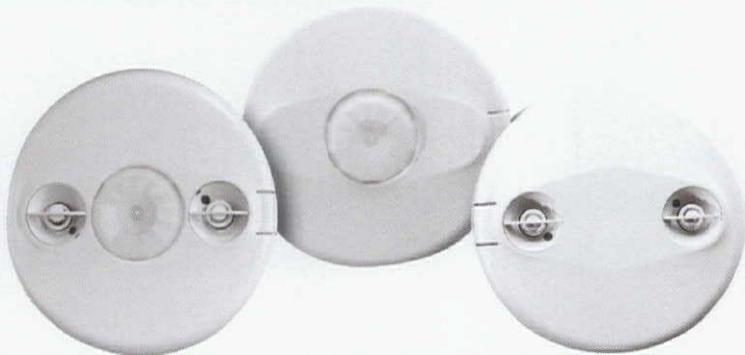
Creating one software package for the seven compact dimmers in the company's AS Series, the AS Series receives DMX or LMX, runs its internal built-in chaser, auto detects 50Hz or 60Hz power, automatically adjusts to which phase of power it is connected to, and utilizes a watchdog circuit to safeguard against power glitches. **CIRCLE 192**



WATT STOPPER | WWW.WATTSTOPPER.COM

Product: Low-Profile 360-Degree Occupancy Sensor

Available in both line- and low-voltage models, the UT-300, CI-300, and DT-300 series of occupancy sensors feature 360-degree coverage, advanced detection technology, and a low-profile design. The UT-300 incorporates ultrasonic sensing technology; the CI-300 employs passive infrared (PIR) technology for occupancy detection; the DT-300 relies on both ultrasonic and PIR technologies. SmartSet technology automatically adjusts time delay and sensitivity settings based on occupancy activity and space characteristics. Walkthrough mode turns lights off automatically after brief visits. **CIRCLE 193**



SENSOR SWITCH | WWW.SENSORSWITCH.COM

Product: SensorLite

A motion sensor that becomes a nightlight, SensorLite turns off lights when a room is vacant, then converts the control button into an illuminated night light. Click the lighted control button and the overhead lights come on; a second click turns the lights out and the night light returns. Time delay is 30 seconds to two hours. **CIRCLE 194**



Product: High-Bay Fixture Sensor

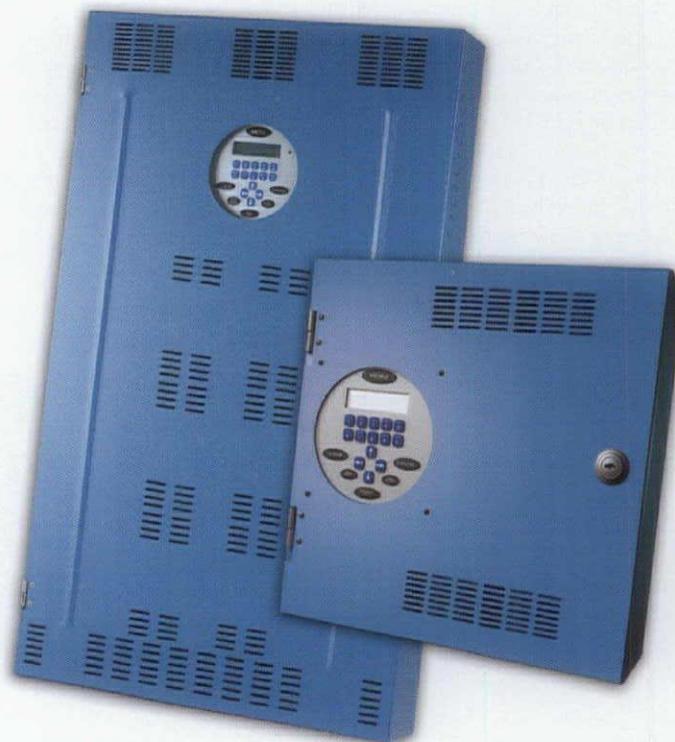
Designed for T5 high-bay fixture control, the CMRB-50 provides individual control of fluorescents. The sensor detects changes in the infrared energy given off by occupants as they move within its field of view. CMRB-50 features a variety of control capabilities such as low temperature/high humidity and photocell for daylight override. The sensor mounts off the end of the fixture, and once mounted, directional viewing may be altered north or south or east and west by rotating the lens turret. **CIRCLE 195**



LEVITON | WWW.LEVITON.COM

Product: Z-Max Lighting Control Relay System

This new line of lighting control relay systems combines energy management features with extended service life, and offers commercial facilities a solution for complying with the United States Department of Energy's ASHRAE 90.1-1999 standard. Z-Max's exclusive circuitry switches full capacity loads at the zero crossing point, providing true air-gap switching without leakage. It also eliminates arc shower pitting at the contacts, and extends the electrical life of the relay to 10,000,000 switching cycles. The control module includes a built-in astronomical time clock that is Title 24 compliant. The system also provides keypad programming with LCD panels and on-screen instructions. Z-Max Relays are available in 8-, 24-, and 48-cabinet modules that accept input from momentary, maintained, or toggle switches, and occupancy and optical sensors. **CIRCLE 196**





MODULAR WIRING SYSTEMS/COOPER LIGHTING |
WWW.COOPERLIGHTING.COM

Product: Modular Wiring System

MWS has introduced wiring systems that employ the latest in plastic and contact technology for the quick, versatile, and low-cost installation of branch circuit wiring for lighting and power. Rather than hardwiring, a system can be plugged together, saving a substantial amount of time. Since it is installed late in the construction process, at the same time the light fixtures are installed, the product allows for flexibility and the avoidance of costly delays when design changes occur. In addition to a standard five-wire configuration, an isolated six-wire configuration for convenience outlets and raised-access computer floors is available. **CIRCLE 197**



E-LITE TECHNOLOGIES |
WWW.E-LIGHT.COM

Product: CMD-001 Control Module

The CMD-001 dimming module input, which is fully isolated, accepts a 0 to 10 VDC signal from any lighting system and takes the lamp from off to full brightness. There is no inherent delay, and the dimming module and lamp system accepts pulse type flashing commands mixed with dimming commands. Such instantaneous control allows for laser-like effects. CMD-001 uses a wide variety of external operating systems. **CIRCLE 198**

Q-TRAN | WWW.Q-TRAN.COM

Product: Q6 Six-Plane Mounting Unit

Unlike other industry transformers, which are UL-listed to be mounted in a vertical position, the Q6 unit is UL-listed to be mounted in six positions. It offers multi taps to compensate for voltage drop, a standard choke for noise reduction, and in-rush current. A secondary circuit protection provides safety, while a terminal block provides a safe, easy method for connecting leads. **CIRCLE 199**



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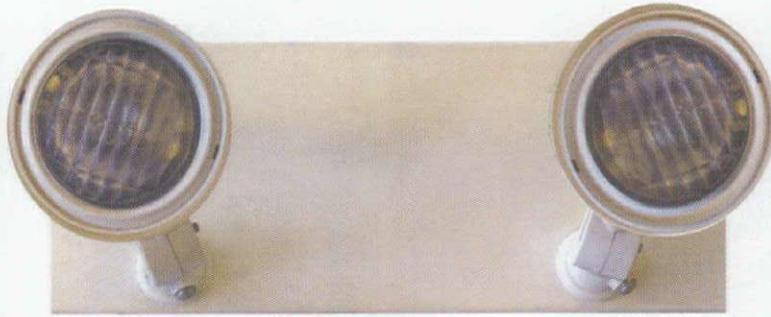
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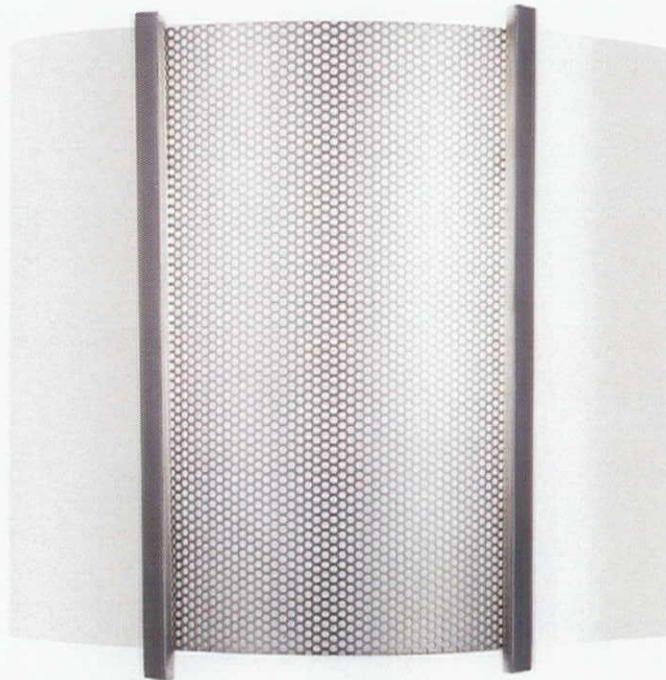


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WESTINGHOUSE | WWW.WESTINGHOUSELIGHTING.COM

Product: NanoLux

Using a patented polymer lensing technology, NanoLux LEDs provide even light distribution for a variety of applications. Ranging from 1.3W to 3W, these lamps are intended to replace 15W to 25W incandescents. They have a shatterproof shell and are UL-listed for wet locations. NanoLux LEDs are available in blue, green, red, amber, and white, in both S11 and G19 lamps styles. **CIRCLE 224**



COLOR KINETICS | WWW.COLORKINETICS.COM

Product: iW MR

Combining advanced high-brightness white LEDs with digital control, the IntelliWhite series currently includes four products: MR, Blast, Profile, and Cast. The iW MR is a compact lamp designed to replace standard MR16 fixtures. Employing four LEDs that consume 4W, the lamps are available in three color temperatures: 3000K, 3500K, and 6500K. **CIRCLE 225**

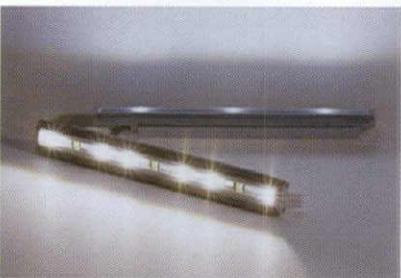


Product: iW Blast

The iW Blast features variable color temperatures for interior/exterior wall-washing and grazing applications. The fixture has a color temperature range of 3000K to 6500K, which can be manipulated using Color Kinetics' line of iW controllers, including iW Scene Controller. The fixture has a 21-degree beam angle. **CIRCLE 225**

Product: iW Profile

The iW Profile is a low-voltage, low-profile system for interior display, exhibit, under-cabinet, and task and alcove lighting. Featuring a color temperature range of 3000K to 6500K, the product has two beam angle options and end-to-end locking connectors capable of making 80-degree turns. **CIRCLE 225**



Product: iW Cast

An interior and exterior system for wall-washing and lighting architectural details, iW Cast has end-to-end locking connectors capable of making 180 degree turns and two-point mounting plates for easy connection. The fixture has a color-temperature range of 3000K to 6500K. **CIRCLE 225**

INVUE/COOPER LIGHTING | WWW.INVUELIGHTING.COM

Product: Architectural Step Lights

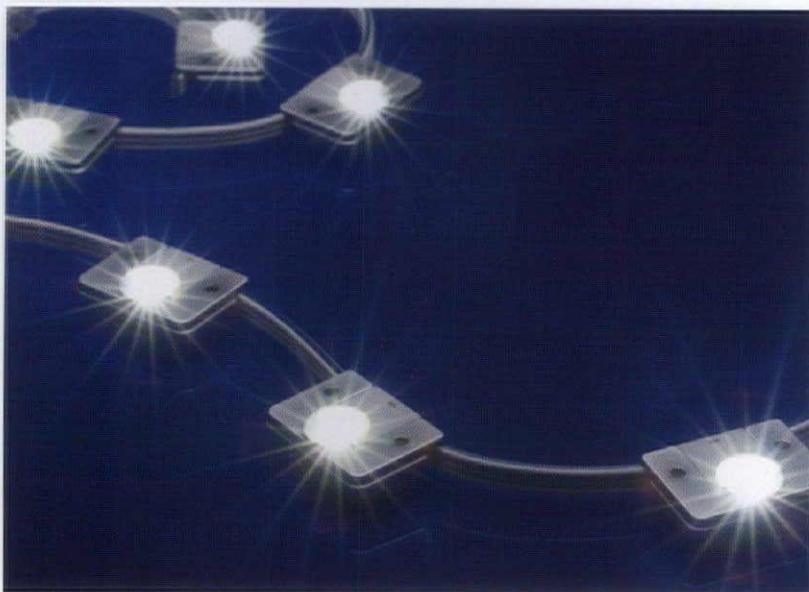
Offered in a variety of sources including LED, Invue Architectural Step Lights are suitable for indoor and outdoor environments. With die-cast aluminum housing available in two light distributions (flush and scoop), the 12-1/2-inch-square Step Light comes in several metallic finishes. The optical system is 96 percent reflective anodized aluminum sheet and optical segments are mounted inside a heavy aluminum housing. **CIRCLE 226**



GELCORE | WWW.GELCORE.COM

Product: Tetra Power White LED

Geared to retail, restaurant, convenience store, grocery, and hospitality chains, the Tetra Power White LED Lighting System offers a bright, low-voltage alternative to white neon tubes. Made to last up to 50,000 hours, Tetra has an integral heat sink to draw heat away from the LEDs and parallel circuitry that ensures an outage of one LED does not affect the rest of the system. Tetra is available with two or three LEDs per foot. Typical power usage is 2.4W per foot (with two LEDs) or 3.6W per foot (with three LEDs). **CIRCLE 227**



SUPER VISION | WWW.SVISION.COM

Product: SaVi Spot

A high-power water-submersible LED lighting fixture, SaVi Spot is appropriate for indoor and outdoor applications that require full color-mixing capabilities, such as fountains, pools, landscape lighting, and theme parks. SaVi Spot, which is suitable for submersion up to 15 feet underwater, uses a proprietary triple waterproofing technology. Available in various beam angles, including 10, 25, 45, 60, and 90 degrees, the light fixture can be controlled by a DMX controller. **CIRCLE 228**



LEDS

MAXLITE | WWW.MAXLITE.COM

Product: Par 5 Series

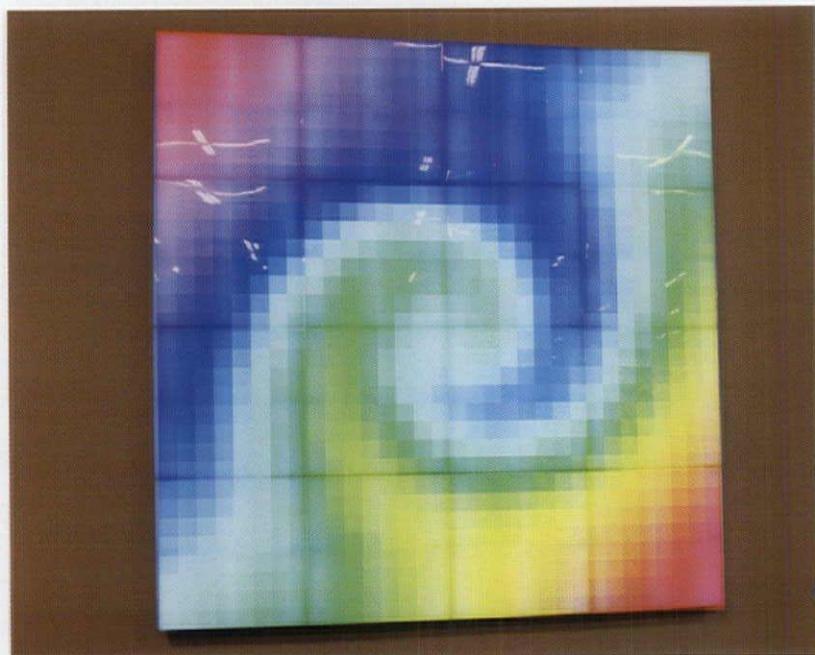
A collaboration between MaxLite and Toshiba Lighting has produced an LED with a color temperature of 2700K, which lasts 50,000 hours, according to MaxLite. Employing RGB technology, the light can be diffused to produce a 360-degree glow. The 1W to 3W decorative bulbs (candle, globe, and R20) are available with an Edison or a candle-labra screw-in base and produce up to 25 lumens per watt. **CIRCLE 229**



TRAXON | WWW.MOOD-LIGHT.COM

Product: Mood Light Aurora Tile

A highly pixilated, outdoor-rated, DMX-controlled LED product, the Mood Light Aurora Tile has 64 individually addressable sections. The 19-1/2-inch-square panels integrate ultra-bright LEDs with millions of RGB colors of variable intensity. The flat, frameless Aurora Tile components can be used to create detailed color compositions or moving sequences to incorporate pictures and video on multiple panels. **CIRCLE 230**



OSRAM SYLVANIA | WWW.SYLVANIA.COM

Product: DRAGONtape

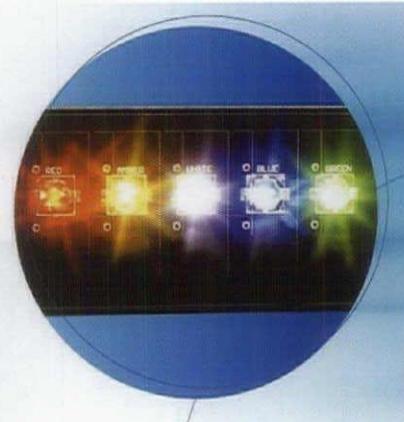
Packaged in an extremely flat module, DRAGONtape features a flexible adhesive backing, and can be used to illuminate a range of spaces. The thin profile enables the design of sleeker, smaller luminaires. The product will be available in three whites: 4700K, 5400K and 6500K. **CIRCLE 231**



COTCO | WWW.COTCO.COM

Product: Dorado

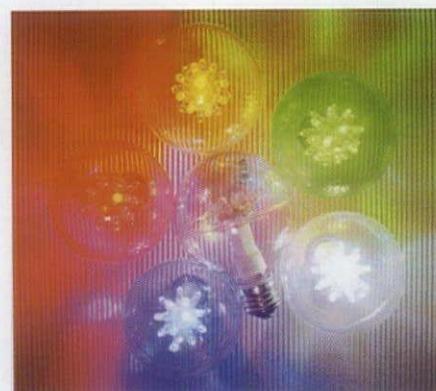
Dorado features an exposed pad design that improves thermal performance and helps with heat dissipation, and therefore providing a longer life span. The product has a molded lens package that decreases vibration and shock failures. It is also designed for implementation to SMT assembly equipment, enabling greater adaptability, according to the company. **CIRCLE 232**



LEDTRONICS | WWW.LEDTRONICS.COM

Product: G25-Style DecorLED

Designed as a direct replacement for 15W and 20W incandescents, the DecorLED draws 1W to 1.7W of power. Using 18 LEDs, the lamps are offered in A19, G40A, S11, and S14 sizes, as well as a E27 European screw base. The product is available in green, white, blue, yellow, red, and orange, and includes the standard voltages. **CIRCLE 233**



Product: GardenLED GDL001

The GardenLED GDL001 is a direct replacement for 7W T5 wedge-base incandescent lamps, commonly used in the Malibu-style landscape fixtures. Sixteen white LEDs on a double-sided PCB draw 1.3W of power; this combined with its low-voltage system makes the light source appropriate for solar and other alternative power-generating systems. The solid-state design makes the light source impervious to electrical and mechanical shocks, vibration, frequent switching, and environmental extremes; it also performs well in applications subject to voltage dips or surges. **CIRCLE 233**



Product: GardenLED GDL002 Flood

Featuring 198 warm white LEDs, a rugged metal housing and a sturdy base, the GDL002 floodlight is compact in size (under 9 inches long, 3 1/4 inches wide, and 7 1/4 inches tall) making it easy to conceal among shrubs or under stairs. Able to light walkways, small signs landscaping and building exits, the floodlight operates on 12 volts. **CIRCLE 233**



A Fiber Optic Lighting Revolution?

What's happening, where is it, and who's on board?

In what has become a "Lightfair" tradition, Ruth Ellen Miller, Pres. of NoUVIR Research, DE Business Person of the Year 2000, and featured by PBS television, talks about fiber optics. — Matthew Scott



MS: Earlier Lightfair interviews have talked about presentation - making things look beautiful with full-spectrum, color-balanced light and the wonderful control of fiber optic lighting. We've talked about preservation - how removing all the UV and IR from light extends the life of everything from art to groceries. We've even talked about conservation. The energy savings of getting 32 fiber optic lights from a single light bulb add up. Those savings can pay for a project in just a few years.

But let me ask a hard question. If fiber optics is so superior, why are so few designers and architects using it?

REM: There is always a learning curve with new technology. Some people just won't tackle new things. They're working so hard making a living, they don't have the time.

MS: Too busy to do things right?

REM: Really too busy to do things differently. That's why you see the same lighting designs over and over again. They find a formula they think works and stick with it.

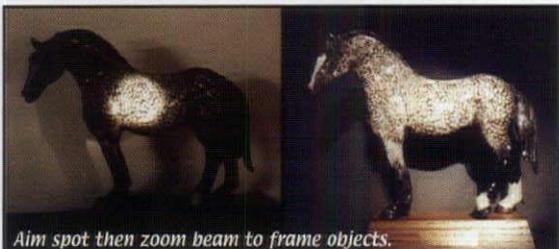
New technology requires new techniques. Again, there's a learning curve. A lot of designers, architects and conservators are using NoUVIR products. We've been growing steadily for fourteen years. They've discovered what's possible with fiber optic lighting. They've read our

130-page catalog, which not only has all of the technical details like size, shape, focus and intensity for everything we sell, but half of which is about lighting design and application. How many catalogs have you seen that describe the three basic designs for case lighting? Show design

details? Or describe key scientific theories like Reflected Energy Matching? These people have invested the time so they can do new, exciting things. They are cutting edge. Plus, I think there's more going on out there than you see.

MS: I see a lot of fiber optic decorations. Wal-Mart® must have sold a million fiber optic Christmas trees last year. But I don't see fiber replacing track or case lighting.

REM: You just haven't noticed, and, lighting you don't notice is a breakthrough itself. Fiber optics are small! The fiber is an eighth of an inch across. Spotlights with 15° to

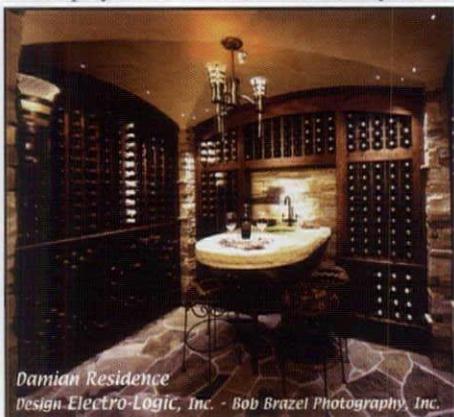


Aim spot then zoom beam to frame objects.

50° adjustable beams are only one-half of an inch in diameter. Flush-mount eyeball spots are just an inch and a quarter. But all these tiny lights project bright, useable beams. NoUVIR's lights can even reach across a room.

The best lighting designs are unobtrusive. All you are aware of is how good what is on display looks or how comfortable the room is. You think "Wow, this is great!" and never see the lighting. I had one designer that had to turn the lighting off before his board of directors understood what he had done. They noticed everything but the light sources. That's a good lighting design.

I'm founder and president of a lighting company. I'll focus on the lighting in a store, a gallery or a museum. Normal people shouldn't. If



Damian Residence
Design: Electro-Logic, Inc. - Bob Brazel Photography, Inc.

they do, if the lighting draws attention from the contents or merchandise, the artwork or the architecture, then someone has missed the boat.

MS: Isn't that 180 degrees out from the industry today?

REM: It probably is. Really new technology is pretty rare. It is also patent protected. So very few people sell bona fide new products. Everyone else focuses on appearance or cost. They shave a few cents off of the price; or try to make it look "different" so it sells as trendy. Walk around Lightfair and you'll see just what I am talking about.

But any light source that draws your attention is really a source of glare. Look at a light. Then look back at me. See what I mean? It irritates. It competes. It wipes out vision. People shouldn't have to look at the lights, ever!

MS: That's a different attitude for a lighting manufacturer.

REM: Maybe it is, but that doesn't make it less true. And, that's not the only way NoUVIR's focus is different. (Pardon the pun.) We're not

about skyscrapers, store chains, or hanging lamps over every dining room table in suburbia. From day one we set out to save our national heritage.



Most conventional sources are only 5% to maybe 20 or 25% visible light. The rest doesn't help you see, it just causes damage. We remove all of that. No UV, no IR... NoUVIR®. Zero. Nada. Zip. None. So things last 4 to 20 times longer.

Our light is also balanced. I'm not talking about "good" color balance the way it's used in the lighting industry. I'm talking about a scientific, 100% accurate balance. Perfect 100% CRI with less than 10% deviation from solar spectrum. This is light where you can see the difference between the blue-black of ivory black and the warmer brown-black of mars black. Light where every color is represented in exactly the right proportions with no spikes or missing portions. Light quality you can't get anywhere else.

MS: Doesn't everyone want the best quality light they can buy?

REM: Of course not, it depends on what you are doing. Warehouses need cheap, bright, long-lasting lighting. As long as you can read a label, you're happy. It's usually the same thing when you light the exterior of a building. Or, you might have the kind of store where you don't want a customer to be able to see the difference between a blue-white and a champagne diamond.

But most people want good color. The *Nature of Diamonds* Exhibit, the most expensive traveling collection ever, had NoUVIR lighting built into the cases, so anyone could see the cut, color and clarity of each diamond. When it's beautiful and you want to show it off, you'll want to use NoUVIR lighting.

If you want to eliminate ultraviolet and heat, NoUVIR's the only choice. We light everything from the Gettysburg Address to the Ruby Slippers. So if it's valuable or rare, it ought to be lit with NoUVIR.

You should also use NoUVIR when you want to showcase something without distraction. That's what we have been talking about. I doubt if anyone visiting the Smithsonian to see their unique diceratops comments on the lighting. All they see is a neat dinosaur fossil. Same with the gem and mineral halls of the Field Museum or the Houston Museum of Natural Science. A lighting designer might notice there is something different, but the visitors just see incredible gems, on stage, perfectly lit, with no glare or distraction.

We've done these things over and over again in hundreds of museums, historical houses, commercial buildings and high-end homes. Business grows every year as people learn about fiber optics. What is more important to me, is that a lot of this growth is repeat business as people come back to NoUVIR, again and again, because they are delighted with our products.

MS: Any other difference you want to point out?

REM: Well, we've always answered our phones directly. We offer free design help, ship in a matter of days and give a 10-year warranty on our optical hardware and our fiber. And we've got one price list, bound into our catalog.

So, I've always wondered why someone would spend more money (usually a lot more) to fight skimpy product information and get marginal performance... all in order to wait 8 to 12 weeks for a product with a 90-day warranty from someone else. I couldn't do business that way.

NoUVIR may be a small company, but we're big where it counts, in service and performance. We're changing lighting, doing new things. Most important is the difference we're making to our customers.

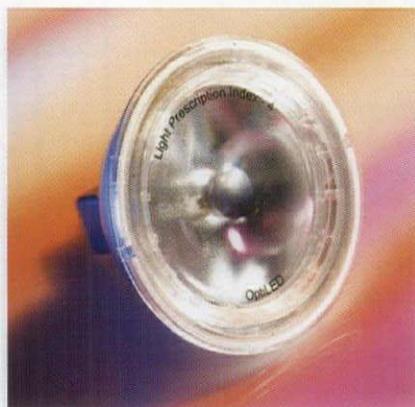
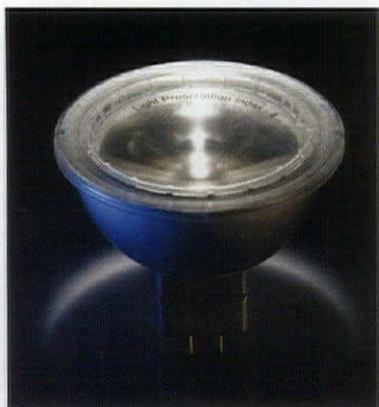


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LEDS



OPTILED | WWW.OPTILED.BIZ

Product: Designer Dimmable LED

With outer dimensions identical to a halogen MR16, the Designer Dimmable offers lighting intensity and distribution control, with a dimming capability from 10 volts down to 3 volts. At full power, the unit uses less than 2W. Featuring a polycarbonate face and base, and an anodized-aluminum housing, the Designer Dimmable has nine diffuser options including its standard 4-degree diffuser. **CIRCLE 235**



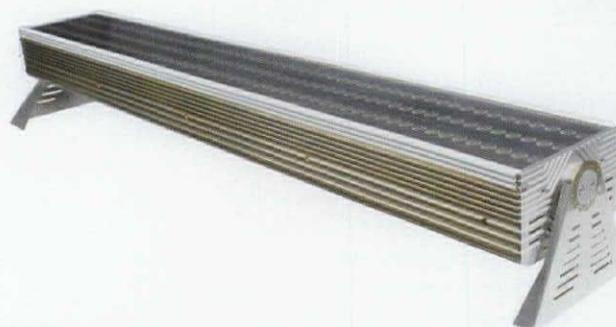
Product: HIVE

Offering three times as much light as the typical "high-power" LEDs according to the company, HIVE (high intensity vorticular enclosure) allows users to rapidly create larger arrays of units. Using a hexagonal design, each HIVE module interconnects and passes power and data to other units in the Optical Array. With a slot-in design between modules the array can be built to virtually any size or shape. The first product to feature the HIVE module is the Modular Optical Array S-1, which can be used in fully submersible applications. **CIRCLE 235**

TIR SYSTEMS | WWW.TIRSYS.COM

Product: Destiny SL

Destiny SL provides an intense rectangular beam of lighting for long-throw projection. Using 180 Luxeon high-flux LEDs, the product has a set-back distance of 8 to 15 feet. With a choice of optics for narrow or wide beam angle, facilitating high-lighting or silhouetting of a surface or a structure, the product has color control and DMX compatibility, and is available in three standard finishes: black, silver, and white. **CIRCLE 236**



Product: Destiny LP

Destiny LP is a decorative color-changing linear element, up to 30 feet in length. Combining light pipe technology with 31 Luxeon high-flux LEDs, Destiny LP is low-maintenance illumination for installation-challenged areas. Available in black, silver or white finishes, the product has four light emitting configurations: 90, 120, 180, and 240 degrees. **CIRCLE 236**

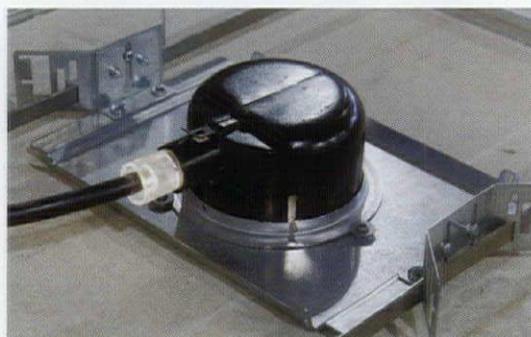


FIBER OPTICS

FIBERSTARS | WWW.FIBERSTARS.COM

Product: Low-Profile Side Entry (LPSE)

This high-output fiber optic accent downlight requires only three inches of clearance. There is no heat, UV, or electricity at the fixture. It is available in 25- and 60-degree beam options for both T-bar grid and hard ceiling mounting. The LPSE uses the fanless Fiberstars EFO illuminators, and one illuminator can drive four to eight LPSE fixtures. Trim profiles are available in white and black. **CIRCLE 237**



Product: Span

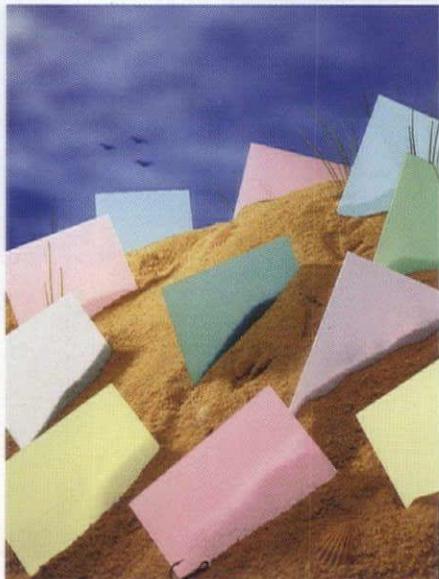
This flexible system is constructed from high-grade extruded aluminum and stainless steel. Span is finished with an anodized and sputter coating. The product is available with or without support legs, and with one, two, or three rows of fiber, each with a maximum of 12 fibers per inch and a combined maximum of 20 fibers per inch. Span mounts over a 1-1/8-inch opening, with hardware included. Finish colors include clear satin, and black, as well as custom. **CIRCLE 237**

DIFFUSERS, FILTERS, REFLECTORS

ACRILEX | WWW.ACRILEX.COM

Product: **Acriglas Pastel Panels**

The Acriglas Acrylic Panels now include the Pastel Frost line of acrylic sheets. Adding to the 11 shades that already exist, the 12 additional pastel colors can be creatively incorporated into architectural applications, as a backlit detail for example. Available in a variety of sizes and translucencies, this series is ideal for use when tempered glass is not practical. Panels range from 1/8 to 3/8 inches thick. CIRCLE 159



FAIL-SAFE/COOPER LIGHTING | WWW.COOPERLIGHTING.COM

Product: **Harmony VR**

Harmony VR custom faceplate and color-lensing options are appropriate for wayfinding lighting in schools, hospitals, parking garages, and other locations. Cast, extra-heavy aluminum walls of the front/back housings offer rugged durability and efficient heat dissipation. A five-stage paint finish further protects the housing. A liquid-injection-molded silicone gasket provides a water- and dust-tight seal between the fixture's housing and front-lens assembly. CIRCLE 221



APOLLO DESIGN TECHNOLOGY | WWW.INTERNETAPOLLO.COM

Product: **Smart Color**

The Smart Color line of color changers offers continuous bi-directional scrollers with variable speeds. Units come with a pre-installed mounting plate and gel shield, pre-loaded with gel string. Constructed of lightweight aluminum, Smart Color uses precision motor bearings for quiet operation and comes with 5-1/4-inch, 7-1/4-inch, and 10-inch apertures. CIRCLE 222



DAYLIGHTING

KALWALL | WWW.KALWALL.COM

Product: **Nanogel**

Kalwall with Nanogel translucent aerogel combines R-20 insulation with 20 percent light transmission; doubles light transmission and thermal insulation over current technologies; and is resistant to condensation, mold, and mildew. The 2-3/4-inch-thick fiberglass-reinforced polyester panels yield constant insulating properties over time and offer improved acoustical properties. Nanogel is a light, highly porous form of silica aerogel that is 97 percent air, treated to make it hydrophobic; it insulates while transmitting diffused light. CIRCLE 90



LUTRON ELECTRONICS | WWW.LUTRON.COM

Product: **Sivoia QED Roller 64**

Sivoia QED (Quiet Electronic Drive) shade system is now available in a smaller size. A compact version of the electronic drive fits into a 1 1/2-inch-diameter tube, which is 40 percent smaller than the Sivoia QED 100. The product uses the same low-voltage wiring and programming as its "big-brother" product, ensuring that roller shades will raise and lower in uniform speed and stop at preset positions, even though they use different diameter roller tubes. They can be controlled and programmed using hand-held infrared remote controls or wall-mounted keypads. It controls up to 64 square feet of fabric. CIRCLE 92



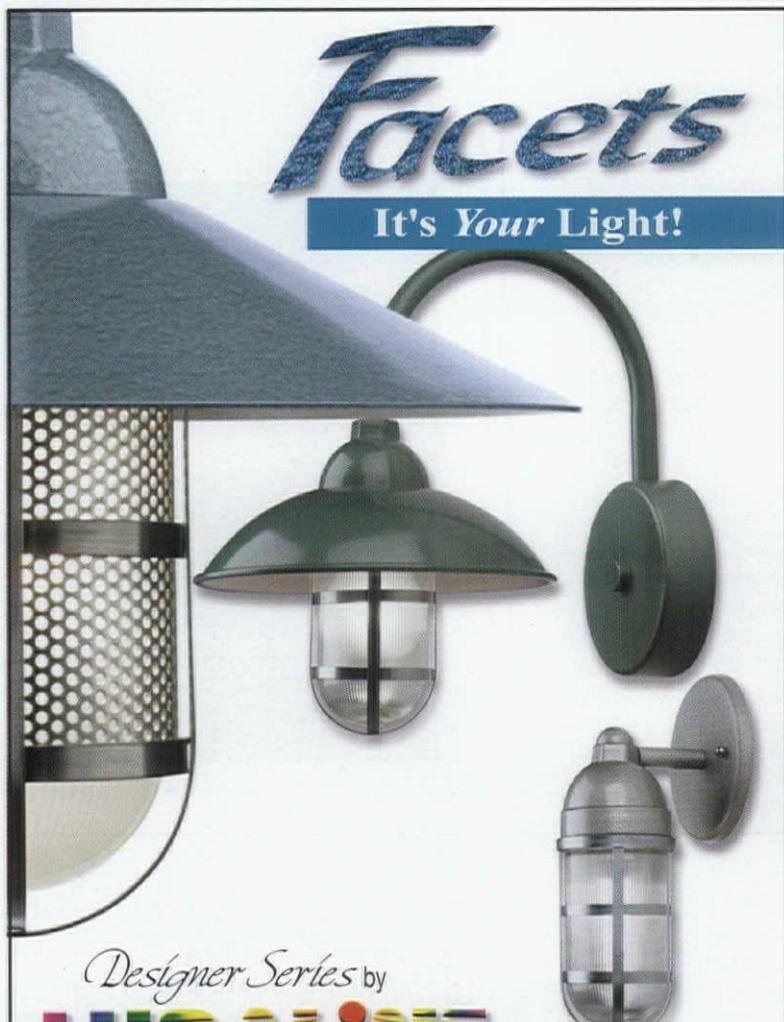
MECHOSHADE | WWW.MECHOSHADE.COM

Product: **EcoVeil**

EcoVeil by MechoShade was developed over six years with green architect Michael McDonough and chemist Michael Braungart. Constructed of a thermoplastic olefin-based yarn called EarthTex, EcoVeil is more than PVC-free and does not have any hazardous chemical components. Through a "take-back" program, the product is also recyclable into new shade cloth fabrics or other materials without degradation. CIRCLE 93



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Circle No. 26 or www.archlighting.com/productinfo



HUNTER | WWW.HUNTERFAN.COM

Product: Ashland
The black and cherry body of the Americana-style Ashland fan from Hunter adds a classic aesthetic to any interior. The fan has a 54-inch blade span and a three-speed reversible motor. **CIRCLE 94**



Product: Zoe
Featuring a Danish-modern form and several lighting configurations, Zoe comes with a blonde beech bent wood blade, with a 56-inch span. The metal details are brushed nickel. **CIRCLE 94**

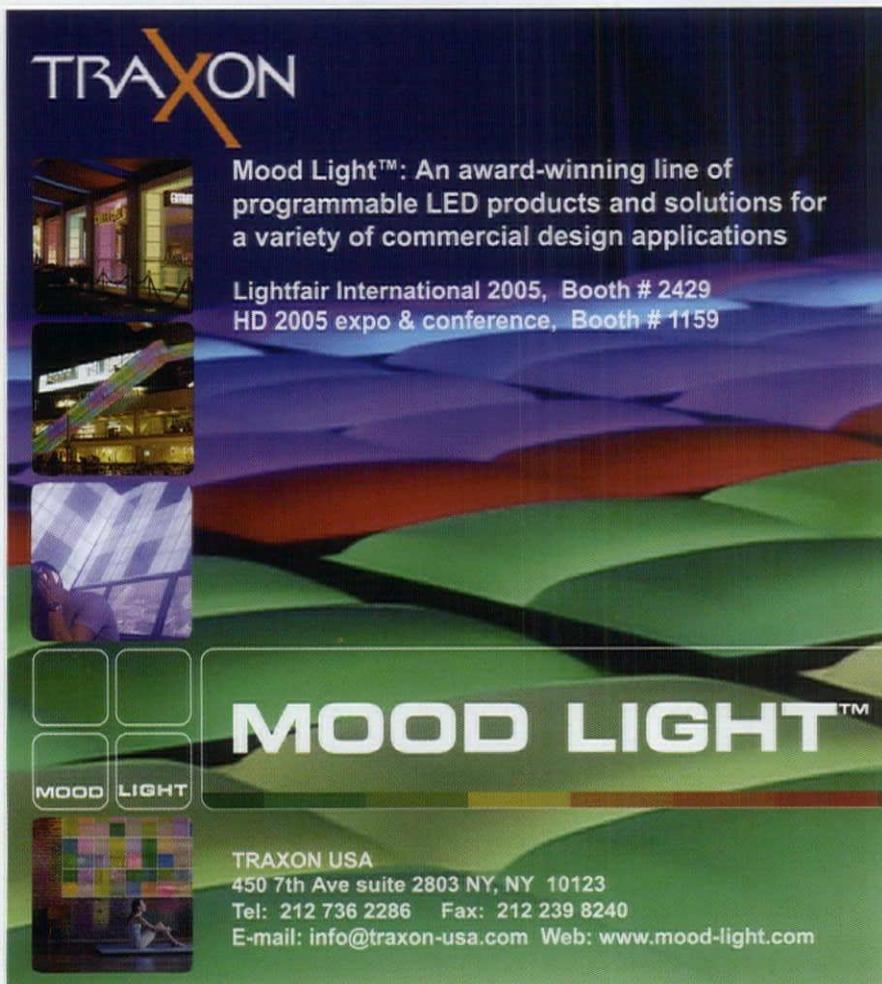


FANIMATION | WWW.FANIMATION.COM

Product: Centaurus
Available in two body finish colors (satin nickel and black) and blade finish options (maple, cherry, and mahogany), the Centaurus has a 60-inch blade sweep and a 20-degree blade pitch. It takes three 60W candelabra bulbs, and has three-speed reversing remote control. **CIRCLE 97**



Product: Draco
Available in chrome and glossy black, the 40-pound Draco has a 60-inch blade sweep and a 15-degree blade pitch. Suspended 6 inches from the ceiling, the fan includes a remote controller. The built-in downlight requires three 60W candelabra bulbs. **CIRCLE 97**



TRAXON

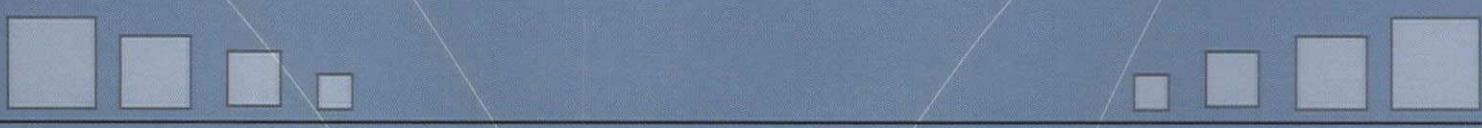
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A|L LIGHT & ARCHITECTURE DESIGN AWARDS

Architectural Lighting announces the second annual **A|L LIGHT & ARCHITECTURE DESIGN AWARDS** honoring projects in the field of architectural lighting. The **A|L DESIGN AWARDS** first recognize and reward excellent design within the unique criteria of a specific category. Then, for exceptional accomplishments, A|L will award the **A|L Virtuous Achievement (ALVA)** awards to acknowledge projects that achieve the best lighting design on a budget; the best design in a LEED-rated building; the best incorporation of daylight; and the best use of color. Winners will be featured in the July/August 2005 issue of A|L and on the web at www.archlighting.com.

CATEGORIES

- ⊗ Corporate/Institutional
- ⊗ Entertainment/Cultural
 - ⊗ Healthcare
 - ⊗ Hospitality
 - ⊗ Outdoor
 - ⊗ Residential
 - ⊗ Retail
- ⊗ Transportation

A|L VIRTUOUS ACHIEVEMENT

- ⊗ Best Lighting Design on a Budget
- ⊗ Best Lighting Design in a LEED-Rated Building
 - ⊗ Best Incorporation of Daylight
 - ⊗ Best Use of Color

DEADLINE: MONDAY, MAY 17, 2005

A|L LIGHT & ARCHITECTURE DESIGN AWARDS

Architectural Lighting announces the second annual A|L LIGHT & ARCHITECTURE DESIGN AWARDS honoring projects in the field of architectural lighting. Unlike other programs, the A|L DESIGN AWARDS first recognize and reward excellent designs within the unique criteria of a specific category. Then, for exceptional accomplishments, A|L will award the A|L VIRTUOUS ACHIEVEMENT (ALVA) AWARDS to acknowledge projects that achieve the best lighting design on a budget; the best design in a LEED-rated building; the best incorporation of daylight; and the best use of color. A|L believes these final four categories are increasingly important considerations for its readers, and therefore hopes to identify and showcase successful examples. All winning projects will be published in the July/August 2005 issue of A|L, and will be featured on archlighting.com for three months.

Deadline: Monday, May 17, 2005

Categories for the
**A|L LIGHT & ARCHITECTURE
DESIGN AWARDS** (*must check one*):

- Corporate/Institutional
- Entertainment/Cultural
- Healthcare
- Hospitality
- Outdoor
- Residential
- Retail
- Transportation

Projects may also be submitted for the
A|L VIRTUOUS ACHIEVEMENT AWARDS
(*check all for which you would like this
project considered*):

- Best Lighting Design on a Budget
- Best Lighting Design in a
LEED-Rated Building
- Best Incorporation of Daylight
- Best Use of Color

Entrant
Contact Name
Address
City, State, Zip
Phone Number
E-mail
Project Location
Client
Photographer

Fee \$130 (first entry)	\$	<input type="text"/>
\$95 (subsequent entries)	\$	<input type="text"/>
Total	\$	<input type="text"/>

(Make checks payable to Architectural Lighting.)

I certify that the parties credited executed the submitted project and that it meets all eligibility requirements. I understand that *Architectural Lighting* magazine may disqualify any entry that fails to meet submission requirements. I grant *Architectural Lighting* magazine sole first publication rights to the project. (Signer must be authorized to represent those credited.)

Signature
Name
Date

Send entries to:

A|L LIGHT & ARCHITECTURE DESIGN AWARDS
770 Broadway, 4th Floor, New York, NY 10003

A|L reserves the right to reject any entry and to terminate the competition at any time. Any disputes relating to the competition shall be resolved exclusively by A|L and the panel of judges. This contest is governed by New York laws without regard to its conflict of laws principles. All entrants and clients submit themselves to the exclusive jurisdiction of courts in the southern district of New York.

ELIGIBILITY

1. Design professionals practicing in the United States, Canada, or Mexico may enter one or more submissions. Projects need not be located in those countries, however.

2. Projects must be completed after July, 2004.

SUBMISSION REQUIREMENTS

3. All entry materials must be contained in one large envelope per project, with the submitting firm and project name printed on the outside of the envelope. Include in the envelope one photocopied set of all entry materials, as well as printouts of the digital images. (Photocopies and printouts may be black and white.)

4. Each submission must be accompanied by a **signed entry form and a check** covering the entry fee (see Entry Fees below). The form may be photocopied. Both the form and check should be included in the project envelope.

5. A **project fact sheet** must also be contained in each envelope. It should include (a) the project name, location and date of completion; (b) the project category, and whether the submission should be considered for any number of the four ALVA Awards (see Categories below); (c) project size in square feet; (d) watts per square foot; and (e) lighting installation cost.

Include a second page with a **brief written description** (no more than 600 words) of the client's goals, the challenges posed by the project and the design solutions applied. Submissions being considered for any of the four ALVA Awards should include an explanation (no more than 350 words) per ALVA category of why it excels in this/these category(ies). The digital image files should be numbered and keyed to the 600-word and/or 350-word description(s) to clarify what is depicted.

6. Images must be in digital format.

Additional image submission requirements: (a) one CD per project; (b) either TIF or PSD file format; (c) 300 dots-per-inch resolution; (d) dimensions of 1200x1200 pixels (either the height or width should be a minimum of 1200 pixels). Please include no fewer than 7 and no more than 12 images. Label the image files using a consistent titling protocol, including the project name and numbers that correspond to the written descriptions.

7. Please avoid the use of fill light when photographing the project; if its use is unavoidable, identify which shots include fill light.

8. To maintain anonymity during the judging process, no names of entrants or collaborating parties may appear on any part of the submission except on the signed entry form and on the project envelope.

CATEGORIES

9. Identify each submission on its entry form and on the project fact sheet as one of the following eight categories. (A|L reserves the right to change the category of a submission.)

- Corporate/Institutional • Healthcare
- Hospitality • Entertainment/Cultural
- Retail • Residential • Outdoor
- Transportation

(Projects will not be judged against each other, but rather as superior examples of a lighting design solution within their category. Therefore, each category may have more than one winner or no winner at all; likewise, the number of entrants within the category will not impact whether there is a winner or how many.)

10. Appropriate submissions may also be considered for any of the four A|L Virtuous

Achievement (ALVA) Awards. Entrants must indicate that a project should be considered for these awards on the entry form and on the project fact sheet. These awards require the following additional information:

Best Lighting Design on a Budget

Entrants must include an explanation (no more than 350 words) clarifying why theirs is a budget project; in addition, they must include project construction costs, lighting materials costs, and lighting and electrical subcontractor costs (preferably on a per-square-foot basis). Judges understand costs are relative to project type; however, they reserve the right to determine whether it is truly a budget project.

Best Lighting Design in a LEED-Rated Building

Entrants must demonstrate that the lighting design contributed two or more points to a building's LEED rating.

Best Incorporation of Daylight

Entrants must include an explanation (no more than 350 words) clarifying how the project integrates daylighting with electric lighting. In addition, entrants must include ASHRAE 90.1 or LEED documentation indicating that daylighting provides persistent on-peak energy savings.

Best Use of Color

"Use of Color" may be interpreted liberally; however, judges will be asked to consider the complexity of the design.

JUDGING

11. An independent panel of judges will award prizes to projects at their sole discretion, based on the complexity of the program and the lighting solutions applied.

12. Judging will take place in June 2005. Winning entrants will be notified in late June 2005, and their projects will appear in the July/August 2005 issue of A|L.

PUBLICATION

13. Winners of the A|L Design Awards grant A|L first publication rights for their winning projects for the magazine's July/August 2005 issue. If the submission wins, the entrant agrees to provide further information and publication-worthy graphic materials as needed by A|L.

14. Winners of the A|L Design Awards agree to have their projects and names published in A|L and in any other media and must secure permission for publication from clients and photographers prior to entry.

15. Winners will be required to sign and return within a specified time a Publicity Release. Winners will also be required to sign a document stating that the entry is the original work of the winner and does not infringe on any proprietary right, including but not limited to copyright, trademark, and the rights of publicity and privacy of any party, and grants A|L the right to use the entry in print and electronic medium.

ENTRY FEES

16. Each submission must be accompanied by a check covering the entry fee (\$130 for the first entry; \$95 for subsequent entries). Make check payable to *Architectural Lighting*. (Canadian and Mexican entrants, send drafts in U.S. dollars.)

DEADLINE

17. Entries must be received by May 17, 2005.

RETURN OF ENTRIES

18. A|L will ONLY return entries that provide a self-addressed stamped envelope. A|L shall not have liability for damaged or misplaced entries.

Seven Innovations, One Decade

CRAIG DILOUIE

ONE SOMETIMES HEARS DESIGNERS SAY ABOUT THE LIGHTING INDUSTRY'S PRODUCT OFFERINGS AROUND this time of year, "Not much new!" And yet when one looks back over a decade, all the baby steps add up to big leaps in technology and changes in design practice. Below is a sampling of seven innovations, listed in no particular order, that either have had a significant impact on lighting design or represent a significant technological advancement over the past decade.

1 T5 & T5HO LAMPS

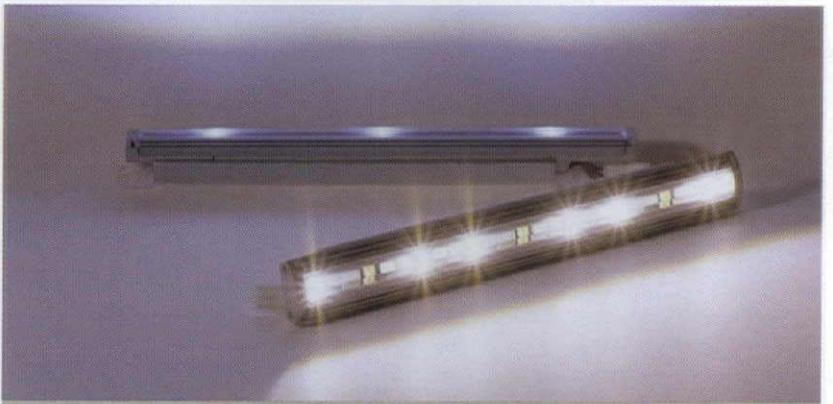
Many innovations in the lighting industry seem to start with new light sources, followed by new ballasts and fixtures. T5 and their high-output versions, T5HO lamps, appeared in North America in 1996 and 1998 respectively, and today are popular in lighting fixtures such as linear fluorescent, direct/indirect, recessed baskets, soffits, valences, cove, wall-mount and high-bay fixtures. Thinner in diameter than T8 and T12 lamps and with high lumen packages available, T5 lamps enabled more compact fixtures, continuing a trend in lighting towards a smaller profile. "T5 lamps currently comprise less than 10 percent of the linear fluorescent lamp market, but they are the fastest growing lamp in the linear fluorescent family," says Ted Simpson, senior manager of field marketing for the Professional Lighting Organization of Philips.



ONE T5 lamps, such as these Philips ALTO lamps, have become popular for linear fluorescent, direct/indirect, recessed basket, soffit, valence, cove, wall-mount, and high-bay fixtures.

2 WHITE LEDs

In the mid 1990s, the first true white light LED was offered, achieved through the use of blue indium gallium nitride (InGaN) material with a phosphor. The phosphor converted some of the light emission into yellow, resulting in a cool bluish-white light. This opened the door for LEDs into a much broader range of architectural lighting applications and has gotten energy experts excited over the potential of this light source as a future competitor to fluorescent, halogen and HID lighting in general applications. Some predict that this goal will be accomplished in five to ten years. Why are energy experts excited? Theoretically LEDs have the potential to more than double the efficiency of general lighting systems, thereby saving enough energy over the next 20 years to power the states of Arizona, Colorado and Mississippi and reducing the nation's electric bill by \$98 billion, according to the U.S. Department of Energy.

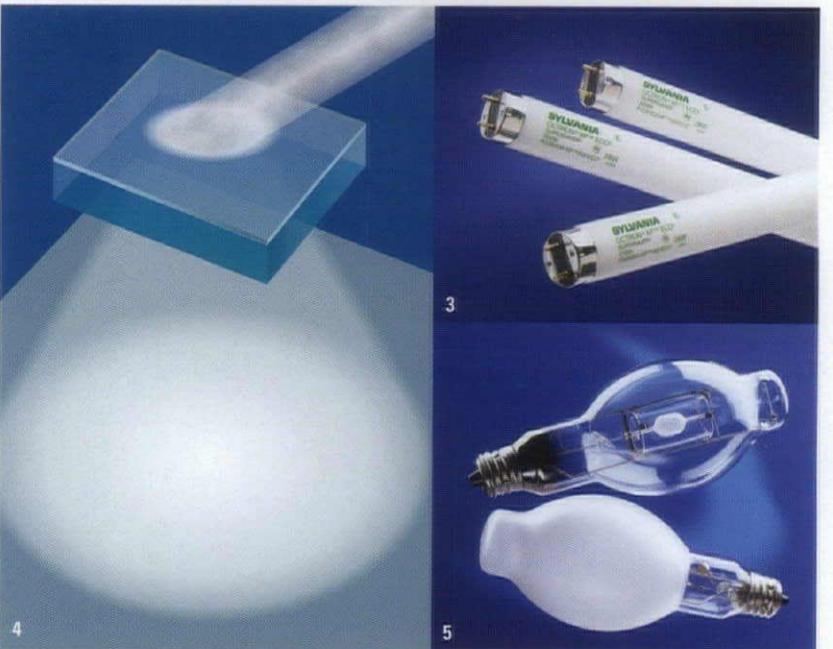


TWO White LEDs, used in a variety of fixtures such as Color Kinetics' new IntelliWhite line (above), represented half of the global LED market in 2004, according to Strategies Unlimited.

3 EXPLOSIVE GROWTH IN T8S

T8 lamps have a remarkable history. About 10 years ago, T12 lamps held about 95 percent of the linear fluorescent market; T8 lamps had made a small penetration of about 5 percent, and T5 lamps weren't even on the radar screen, according to lamp manufacturer Osram Sylvania. Today, according to the National Electrical Manufacturers Association, T12 lamps now make up about 65 percent, while T8 lamps have 33 percent and T5 and T5HO lamps now comprise the remaining 2 percent. This market share can only be expected to grow, as currently more than 30 states have begun complying with a U.S. Department of Energy requirement to adopt energy codes at least as stringent as ASHRAE/IES 90.1-1999, which is twice as restrictive as the 1989 version.

As T8 lamps become more popular, manufacturers are now offering new energy-saving and high-output models, including 28W, 30W, and "Super T8" lamps. Super T8 lamps produce more than 3100 lumens compared to standard T8 lamps (which provide 2800 to 2900 lumens), and have a slightly higher lumen maintenance. This means Super T8 lamps can be used to provide higher light levels or to reach required light levels with potentially fewer fixtures (estimated 16 percent energy savings). T8s can also be specified in combination with low-output electronic ballasts to maximize energy savings (about 14 percent) with the same number of fixtures that would be used with a standard T8 system.



THREE The SYLVANIA Octron 28W SuperSaver is a 28W T8 lamp that operates at 12 percent lower power than a standard 32W T8 lamp, while being the same physical size.

FOUR MesoOptics, a technology developed by Ledalite Architectural Products, provides extraordinary capability to control light.

FIVE The SYLVANIA Metalarc Powerball 320W pulse-start lamp is designed to offer high color quality, as well as an energy-efficient alternative to 350W and 400W metal halides.

4 MESO-OPTICS

Ledalite's MesoOptics technology was first introduced in 2001, when it won the best new product award at Lightfair. It has since been applied to a growing number of the company's products, most recently its PureFX line of recessed systems.

MesoOptics, produced in a manner similar to the holograms that appear on most credit cards, is based on tiny microstructures no greater than five microns in size, which are applied to a common fixture material such as acrylic, polycarbonate, or glass. According to the company, the first inspiration for MesoOptics came from observing how the multicolored wings of butterflies become pure white at certain angles. With MesoOptics acting as a medium between the light source and the

viewer, the fixture material gains extraordinary capability to control light.

In particular, MesoOptics removes striations and hot spots from light sources, allows 95 percent of the light that enters to pass through, and can constrain and disperse light for optimum control and uniformity—allowing for the creation of highly controlled beam patterns and the ability to redirect light into desired angles.

MesoOptics offers potential for daylighting, translucent wall and other architectural elements, roadway and exterior floodlighting, and theatrical and film lighting.

5 PULSE-START LAMPS

Low-wattage pulse-start lamps first appeared on the lighting scene in the 1980s, with medium-wattage lamps introduced around 1996. In recent years, they have expanded into very low wattages (down to 20W) and high wattages (up to 1000W). Today, pulse-start lamps have gained significant share of the metal halide lamp market (about 25 percent, according to one estimate), a trend that will grow as manufacturers continue to add wattages and new lamp and ballasting options.

Pulse-start systems can provide higher lumen maintenance, efficiency, longer service life, and faster warmup and restrike times than standard metal halide systems in new construction projects. The economics can also make pulse-start systems practical for retrofit in a range of situations, from replacement of existing standard metal halide systems in high-bay applications to replacement of halogen and incandescent track heads and downlights.

"Pulse-start systems represent superior technology and are not just a trend, they're here for the long term," says John Cummings, director of HID product management for Advance. Pulse-start systems are currently popular in applications such as warehouses, gas station canopies, industrial and manufacturing spaces, parking lots and facilities, big box and smaller retail, grocery stores, and public spaces.

Ceramic metal halide lamps were first introduced in 1994 after Philips engineers essentially borrowed a ceramic arc tube from a sodium lamp and put it in a metal halide lamp to create something entirely new. The final result was a lamp that produces a crisp, white light and provides superior color appearance and color control qualities than standard metal halide lamps. These qualities have made ceramic lamps ideal for color critical areas in commercial applications where a high-efficiency, long-life alternative to incandescent and halogen lamps is desired.

6 HID ELECTRONIC DIMMING BALLASTS

Electronic dimming ballasts for HID lamps are now available in new fixtures to achieve continuous dimming. In addition to dimming, these ballasts are designed to operate at a higher efficacy, improved color control, less stroboscopic effect, and harmonic distortion under 20 percent.

While generally not cost-effective for retrofit, electronic HID ballasts can yield significant energy savings in a new fixture. They are interoperable with occupancy sensors, photocells and time-programmable systems. The signal can be transmitted along the power circuit or low-voltage wires. Ideal applications include anywhere it is advantageous to adapt the lighting system to a wide range of light levels to meet various space uses, such as airports, lobbies, classrooms, industrial facilities, sporting arenas, gymnasiums and auditoriums. With the exception of industrial buildings, metal halide lamps are typically used for most of these types of applications. Continuous dimming is also ideal for daylight harvesting by enabling the HID lamp output to be tuned to maintain a constant light level in the space.

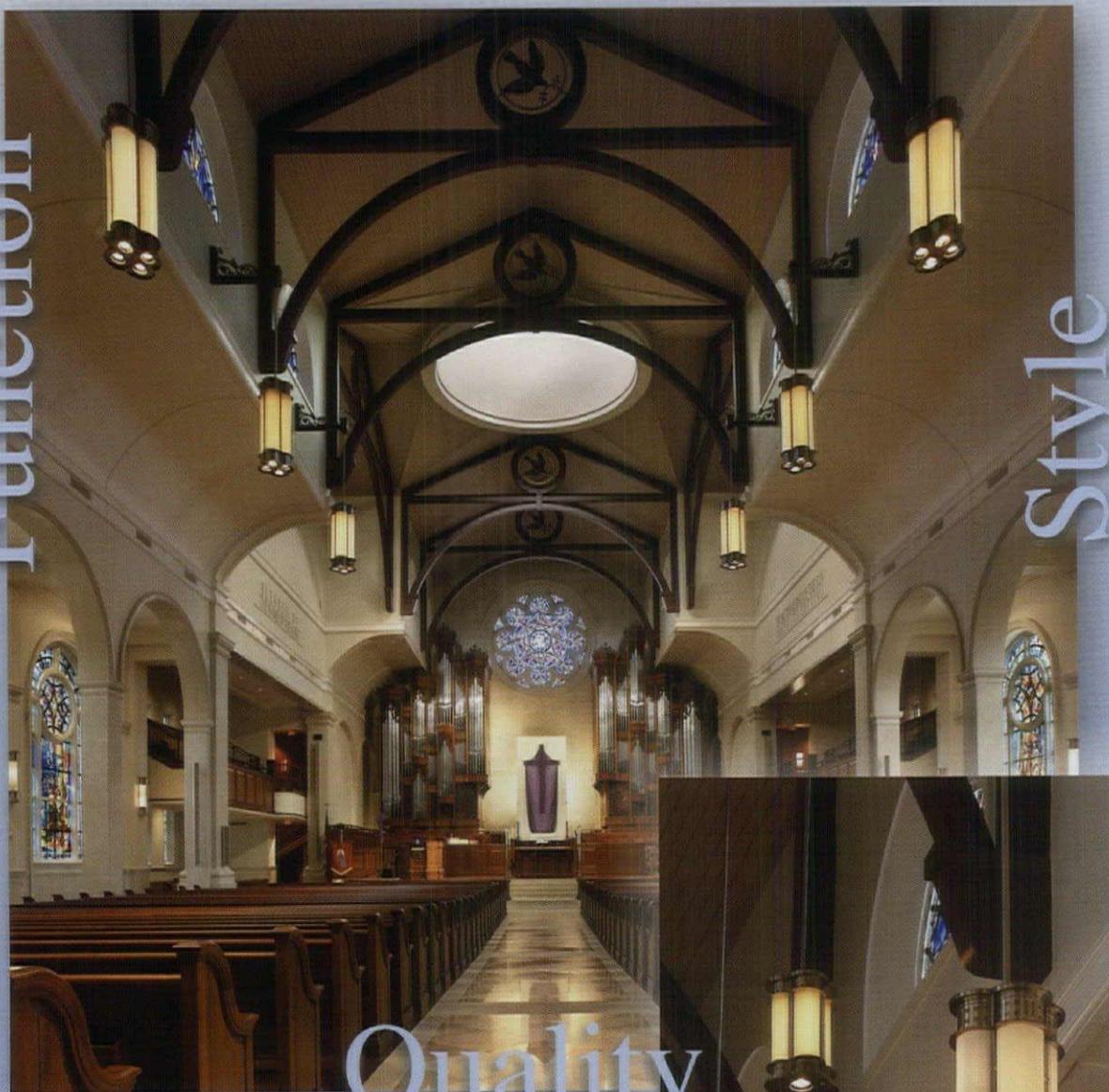
"The big trend is more control," says A. J. Glaser, president of HUNT Dimming. "Sophistication in job design necessitates having the ability to vary the environment in precise increments. Continuous, variable control down to 50 percent provides this."

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SIX Advance Transformer's Dynavision is a new microprocessor-based electronic ballast for the operation of pulse-start metal halide lamps.

AND COUNTING ...

WHAT, IN YOUR OPINION, ARE THE TEN MOST IMPORTANT LIGHTING INNOVATIONS OF THE LAST DECADE? PLEASE E-MAIL YOUR IDEAS TO EXCHANGE@ARCHLIGHTING.COM, AND WE WILL REPORT ON THEM IN A FUTURE ISSUE.

7 DIGITAL BALLASTS

Traditional dimming ballasts are analog ballasts that operate using a three-wire, 0-10VDC, two-wire, or wireless method. Digital ballasts offer a greater variety of capabilities. In essence, they enable users to connect all of the fixtures in a room, zone, or a building to a centralized point of control. From there, users can program individual fixtures or groups of fixtures to dim or shut off according to a schedule or based on external input, such as occupant preferences or available daylight. The communication path is two-way, meaning not only can users send commands to fixtures, but they can receive information back from the fixtures upon request that is useful for energy management and maintenance.

The advantage of this type of system is that it offers a high degree of granularity of control capability, enables feedback from bal-



SEVEN Universal Lighting Technologies' dimmable DaliPro ballasts, designed for use with DALI-based controls, can be programmed to perform multiple commands on cue from the push of a button or by computer control.

lasts, allows users control of a wide variety of zones and scenes, and can easily accommodate changes over time. These advantages boil down to two primary desirable benefits: Digital lighting systems are flexible for current and future lighting needs, and offer an effective energy management tool. ■

more information at
WWW.ARCHLIGHTING.COM

Craig DiLouie, principal of ZING Communications, Inc. (www.zinginc.com), is a consultant, analyst and reporter specializing in the lighting and electrical industries.



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4th ANNUAL ACE.al AWARDS BALLOT

ARCHITECT'S CHOICE
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Now in its 4th year,
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dependability.

HOW THE PROGRAM WORKS

1. Take a few minutes to review the list of manufacturers.
2. Circle the manufacturers that meet or exceed your standards, as indicated in voting criteria.
3. Of the companies you've selected, indicate your choices for Most Innovative, Most Respected, and Most Specified.
4. Fax your ballot page to 646-654-5816 no later than July 8, 2005.

VOTING CRITERIA

Select the manufacturers who have provided you and your projects with:

- Product Durability
- Exceptional Customer Service
- Superior Value
- Advanced Designs

METHODOLOGY

The ACE.al ballot and manufacturers list runs in the April and May/June issues of *Architectural Lighting*, each reaching the complete 25,000+ nationwide circulation. In addition, e-mail campaigns are conducted to ensure the broadest base of response. Ballots are provided and collected at Lightfair and other industry conferences. *Architectural Lighting* also does random sampling, consults with industry experts, and the list of nominated manufacturers is subject to review by an in-house publishing team.

Results will be announced in the November/December 2005 issue.

Official Ballot Form



CAST YOUR VOTES AND LET THE INDUSTRY KNOW WHO YOU TRUST AND DEPEND ON! FAX TO: 646-654-5816

Circle the manufacturers that meet or exceed your standards, as indicated in voting criteria.

3M Light Fiber	Elite Bohemia/Bar Del	Lam Lighting	Osram Sylvania	Sternberg
Acrilex	International	Lamar	Pathway Lighting	Stingray Lighting
Advance	Elliptipar	LBL	PCI	Studio Due s.r.l
Alanod Aluminum	Energie	Ledalite	Peerless	Studio Italia Design USA
Alera Lighting	Engineered Lighting	LEDtronics Inc.	Pennsylvania Globe	Super Vision International
Alkco	Products	Legion Lighting	Philips Lighting	Sure-lites
A.L.P. Lighting	ERCO Lighting USA, Inc.	Leola	Philips Advance	Targetti North America, Inc.
ALS - Architectural Lighting	ESTILUZ, INC.	Leucos USA	Transformer	Tech Lighting LLC
Systems	Eureka	Leviton	Phoenix Products Co.	Teka Illumination Inc.
Altman Lighting	Eurofase, Inc.	LexaLite International	Planlicht	Terzani
Ambiance Lighting Systems	ExcelLine	Light Craft Manufacturing	Prescolite Lighting	THHC Lighting
American Glass Light	Fabbian USA	Lightech	Prisma Architectural	Thomas Daybrite
Amerlux	FAD/Delta Light USA	LightIdeas	Lighting	Times Square Lighting
Anafol International	FC Lighting	Lighting Analysts	Progress Lighting	TIR Systems
ANP Lighting	Fiberstars	Lighting Services Inc	Prudential Lighting	Tivoli, LLC
Antron	Fine Art Lamps	Lightolier	Q-Tran Inc.	Tracoman
Architectural Area Lighting	FLOS	Lightolier Controls	Quality Lighting	Translite Sonoma
Architectural Landscape	Focal Point	Light-Project International	Renova Lighting Systems Inc.	Traxon USA
Lighting	Forecast	Linear Lighting	Rockscapes	Trend Lighting Co., Inc.
Ardee	Foscarini	Litecontrol	Rosco Laboratories, Inc.	Tridonic Inc.
Aromat Corp.	Framburg Lighting	Litemakers	Rotaliani	Trilux Lighting Limited
Arroyo Craftsman	Gamma 3 Luce	Lithonia	RSA	Troy-CSL Lighting
Artemide	Gardco Lighting	Lithonia Controls	Schonbek Worldwide	Unilight Ltd.
AVR USA	GE	Liton	Lighting Inc.	Universal Lighting
B-Light	Ginger	Louis Poulsen	Schott-Fostec LLC	Technologies
Baldinger	Gotham Architectural	LUCEPLAN USA, Inc.	Schott North America	Ushio America
Bartco Lighting	Downlighting	Lucien Gau	Se'lux U.S.	Valmont Industries, Inc.
Beacon Products, Inc.	Guth Lighting	Lucifer Lighting	Sea Gull Lighting	Vantage
Bega Lighting	H.E. Williams	Lumca	Selecon	Van Teal
Beghelli	HADCO	Lumec-Schreder	Semper Fi Power Supply Inc.	Varon Lighting
Beta-Calco	Halo	Lumiere	Sentry Electric Corporation	Venture Lighting
Beta Lighting	Hampstead Lighting	Luminis	Serien	Viabizzuno
Birchwood Lighting	Hatch Transformers	Luraline Products Co.	Serralunga	Visa Lighting
B-K Lighting	Hemera, Inc.	Lutrex	Shaper Lighting	Visio Lighting
B-Light	Hessamerica	Lutron	Sill	Vista Lighting
Boca Flasher	Hex Architectural Lighting	Luxo Corporation	Sirmos	Vistawall
Boyd Lighting	High End	Luxo Italiana	Solara Lighting	Vossloh-Schwabe Inc.
Bruck Lighting Systems	Highlights	Lyric Lighting (Seagull)	Solatube International Inc.	W.A.C. Lighting
C.W. Cole & Co.	Holophane	Manning Lighting	Space Lighting	Waldmann
Charles Loomis	Hubbell	Mark Lighting	Spark Lighting	The Watt Stopper
Charleston Gas Light	Hubbell Building	Martin Architectural	Special FX Lighting Inc.	Weaver & Ducre
Color Kinetics	Automation	MaxLite	Specialty Lighting	WE-EF Lighting USA
Columbia Lighting	HUNT Dimming	McGraw Edison	Industries	Wendelighting Inc.
Conant Custom Brass, Inc.	Hunter Douglas Contract,	MechoShade Systems, Inc.	Spero Lighting	Wila Lighting
Con.Daz Lighting	Solar Control by Nysan	Mercury	SPI Lighting	Winona
Con-Tech Lighting	Hydrel	Metalumen	Spring City Electrical	Xilver BV
Contrast Lighting	Icon International	Metalux	Manufac.	Zaneen Lighting
Cooper Lighting	IEPC Corp.	Metrolux	Starfield	Zoltan
Corelite	IL America Inc.	Mills Architectural Lighting	Starfire Lighting	Zumbobel Staff
Crestron	ILEX	James R. Moder Crystal		
Cyclone Lighting Inc.	Illuminating Experiences	Chandelier		
D'ac	Illumination Lighting	Morlite Systems		
Davis/Muller Lighting	Induction Lighting	Neoray		
Day-Brite Lighting	Industry + Design Light	Nessen		
Delray Lighting	Indy Lighting	Newmat USA		
Derek Marshall Lighting	Insight Lighting	New Metal Crafts		
Dernier & Hamlyn	Lighting, LLC	New Star Lighting		
Designplan Lighting, Inc.	IRIS	Nora Lighting		
Dialite	Ivalo Lighting	Nordic Aluminum		
Donovan Lighting	JJI Lighting Group	North American Light		
Dreamscape Lighting	Juno Lighting	Spectrum		
Eclipse Lighting Inc.	Kenall	NoUVIR Research		
Edison Price	Kim Lighting	Oggetti Luce		
Eiko Ltd.	Kingbright	O Luce		
Electrix	Kramer Lighting	Orbit North America		
Electronic Theatre Controls (ETC)	Kurt Versen	The Original Cast Lighting		

NEW FOR 2005

Of the companies you have selected, which in your opinion is the:

Most INNOVATIVE _____

Most RESPECTED _____

Most SPECIFIED _____

I would also like to nominate the following manufacturers (not listed):

Your Name _____

Title _____

Company _____

City/State _____

DEADLINE FOR ENTRIES: JULY 8, 2005

Architectural Area Lighting

The new Providence from AAL offers legendary lighting performance in a traditional form. Optical systems reflectors, as well as a cutoff, indirect version for even, glare-free illumination. Available up to 175W, the Providence can be ordered with T6 metal halide lamps, electronic, and pulse-start ballast options. For more information, visit www.aal.net/providence.

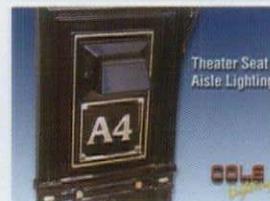
CIRCLE 003



C.W. Cole Lighting

C.W. Cole Lighting introduces the T141 Steplite. A low-profile fixture for a variety of interior uses where low light levels are desired. The fixture utilizes low-wattage, long-life incandescent lamps, which fulfill the lighting requirement.

Typical applications include theaters, auditoriums, restaurants, and lecture halls where sharp light cutoff is desired. For more information, visit www.colelighting.com. **CIRCLE 020**



Acrilex

Acriglas custom acrylic sheets for lighting in faux finishes are designed to emulate the colors and textures of natural stone, patterned and frosted glass, mother of pearl, and metal. Easy to fabricate and thermoform, this material is also specially formulated to withstand exterior conditions, UV exposure and impact. **CIRCLE 010**



Con-Tech Lighting

Quatro is an exciting new indirect pendant that features energy-efficient fluorescent lamps and exquisite faux alabaster diffusers. The diffuser is available in 10 different finishes and colors to match any décor.

The unique "X" shape offers a more uniform light distribution than simple linear fixtures. For more information, visit www.contechlighting.com. **CIRCLE 021**



Alanod

Alanod Aluminum's MIRO Micro-Matt is the first enhanced reflective aluminum that joins the traditional look of white painted metal with the reflective capability of Micro, the world's most widely used specular material. Alanod Micro-Matt is another enhancement in the MIRO line of reflectors for high-bay fluorescent lighting. **CIRCLE 013**



Cooper Lighting

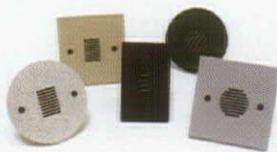
Halo Lighting's new handmade Art Glass Family Collection are offered in four styles in small and large sizes (Blossom, Dome, Trumpet, and Drop), and with a variety of lamp types (A19, G9, E11, T4)

and wattages (40W-75W), the pendants can be mounted directly to Halo's new Architectural Flexible Track System or to existing Halo and Linea systems, or canopy-mounted directly to the ceiling. For more information, visit www.cooperlighting.com. **CIRCLE 022**



B-K Lighting

Introducing specification-grade architectural louvered fixtures for MR16 lamps by B-K Lighting. The louvered fixtures include solid faceplates (aluminum or brass); fixed or adjustable lamp positions; straight or 30-degree angled louvers; round or rectangular louver patterns on square, round, or rectangular faceplates; and junction box or core drill mounted. **CIRCLE 014**



Delray

Swing & Stick

Minimalist Design

Lamps: Standard T5 or T5

Construction: Cast/Extruded Aluminum

Custom RAL Colors

Swing: 2-, 3-, and 4-foot Surface or Pendant Mounted

Stick: 6- and 8-foot Pendant Mounted with Adjustable Cable Positioning

See them at Lightfair booth #31. **CIRCLE 025**



Bartco Lighting

BAM! One more reason to use Bartco Lighting. Uplighting, wallwashing, and task lighting is now possible with Bartco Lighting's new BAM series arm-mount kits.

Three mounting systems are available for several of our remote ballast display luminaires (BFL290 shown). In addition, individual fixtures can be ganged together for continuous runs. For more information, see us at Lightfair booth #1767, or visit our website at www.bartcolighting.com. **CIRCLE 017**



Erco

Erco introduces the new Panorama bollard luminaire with Dark Sky technology. Like our interior luminaires, the Panorama complies fully with the strict requirements regarding light quality and anti-glare protection. In addition, their individual visual comfort goes hand in hand with the responsibility of protecting the evening sky from uncontrollable, superfluous spill light. **CIRCLE 029**



Beta Lighting

Beta Lighting's Aviator provides excellent performance in an elegant, versatile form. Aviator is available in a segmented Type III and Type IV optic and meets full IESNA cutoff classification. It is offered in a 400W version (18.5 inches by 19.6 inches) and a 175W version (12 inches by 14 inches). **CIRCLE 018**



Estiluz

Hotel by Blauet: A harmoniously balanced wall sconce with a brilliant white polycarbonate shade that swings out from the movable arm. Available in gray metallic and nickel. Designed by Jordi Mallorqui and Jordi Aymerich exclusively for Blauet. **CIRCLE 037**



GE Consumer and Industrial Lighting

GE Lighting products can lighten up your bottom line. In fact, you can cut your energy costs by 44 percent when you replace T12 technology with the F28 UltraMax system. And that's just the beginning. To see the full line of GE lighting products, visit www.gelighting.com. **CIRCLE 041**



Lighting Services Inc

The new TPM111 Series Spotlight is the perfect fixture for any lighting project that requires a blend of theatrical styling and architectural function. Designed specifically for the most recent addition to the Philips CDM family of lamps, the TPM111 Series allows for the ultimate control, consistent light quality, long life, and tremendous punch that the compact 35W ceramic metal halide CDM-R111 lamp offers. For more information, visit www.lightingservicesinc.com. **CIRCLE 053**



Hadco

HADCO introduces Chroma, the new highly efficient, customizable area light. A unique two-part housing design offers unlimited single or two-tone custom color combinations. Optical performance allows a full-cutoff horizontal mounted lamp to attain a 6:1 spacing to mounting height ratio, while maintaining a uniformity ratio of 3:1 in typical applications. Toolless entry doorframe and quick-disconnect wiring for ease of maintenance. See lighting without limits at www.chromavisions.com. **CIRCLE 042**



Lumec

Inspired by classical and contemporary elements, the Callisto Series casts a timeless light on any environment. Intended to preserve the dark skies, the combination of two lighting technologies provides for maximum light control while contributing to the spirit of its settings. The Callisto Series: Helping to shape a new era. **CIRCLE 054**



Hampstead

Zero by Lucitalia is a pendant light fixture durably constructed in die-cast aluminum. Its unique design offers direct lighting suitable for a variety of residential and commercial settings. Exclusively available from Hampstead Lighting. For information, visit www.hampsteadlighting.com or call toll free: (888) 935-4448. Lightfair booth #2437. **CIRCLE 043**



Lutron Electronics

Lutron Electronics introduces the new fixture-mountable daylight sensor. Small and unobtrusive, this architecturally elegant daylight sensor is compatible with all Lutron lighting control systems to implement daylight harvesting. It allows the lighting control system to automatically dim the lights when available daylight is high, and brighten the lights when available daylight is low, maintaining a specific light level throughout a space. **CIRCLE 057**



IEPC

Vari-Ballast VB400: IEPC brings 21st century lighting control technology to HID. Electronic ballast with integrated lighting controls—scheduling, dimming, monitoring. Network-ready for PC and Internet control. Variable for 150W to 430W, MH, HPS, MV, 100 to 277 volts input. The Vari-Ballast Lighting Control System gives you TOTAL CONTROL in lighting management. **CIRCLE 046**



Martin Architectural

Martin Architectural Inground 200 Series: For the first time, the benefits of dynamic light and discrete buried installation are combined in an easy-to-use system of programmable 150W luminaires. Designed for all terrains and weather conditions, the Inground 200 Series from Martin Architectural offers high-performance tools for dynamic uplight illumination of facades, landscapes, and interior applications. **CIRCLE 059**



Kim Lighting

Kim Lighting proudly announces the introduction of the Era Collection of luminaires, poles, and support arms. All components utilize Kim's 70 years of design excellence to produce performance-oriented lighting systems that withstand the abusive and destructive elements of the outdoor environment. For more information on the Kim Lighting Era Collection, please contact your local Hubbell Lighting Sales Representative or visit our website at www.kimlighting.com. **CIRCLE 051**



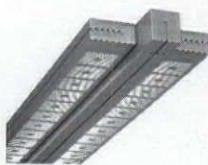
MechoShade

AAC SolarTrac System is a solution provides maximum functional and aesthetic performance for buildings. A number of certified LEED projects utilize SolarTrac, an automated energy-efficient system that automatically adjusts the position of shades in accordance with: position and intensity of solar rays on window, micro-climatic sky conditions, solar gain in BTUs, geometry and solar penetration, window-wall luminous values, ambient illumination, and other definable options. **CIRCLE 060**



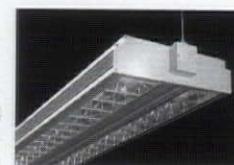
Lightolier

Lightolier's new F7000 Lighting System includes seven series of fluorescent modules, each specifiable in different lighting distributions and luminous textures. Carefully scaled for today's interior spaces, F7000 provides a wide range of lighting effects, including ambient illumination from pendant or wall mountings; indirect, direct, and modulated light distribution; and accent lighting from either MR16 or Ceramic Metal Halide sources. **CIRCLE 052**



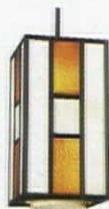
Metalumen

PLATIN, illuminate signature spaces. One of the newest products from Metalumen Manufacturing, PLATIN displays a new narrow profile and minimalist design. It offers architects and interior designers a high-tech, linear aesthetic in a sleek direct/indirect luminaire. Through engineering design, it offers accurately balanced light in signature architectural spaces. **CIRCLE 061**



Mills Architectural Lighting

Mills Architectural Lighting specializes in the design and manufacturing of architectural lighting fixtures. Pendant lanterns feature all-cast aluminum or steel frames with glass panels. Our lanterns are available with many lamping options, including a built-in prismatic reflector downlight component. All built site specific. Please visit www.millslighting.com for details and specifications. Call (905) 643-1066 or (800) 268-1526, or email results@millslighting.com. **CIRCLE 068**



Sentry Electric

Sentry offers a comprehensive line of luminaires from classic designs to contemporary and modern. Sentry also offers a wide selection of matching poles in a full range of heights. Matching bollards are available as unlit or lighted models. Sentry offers a wide selection of wall brackets, cross arms and accessories. **CIRCLE 079**



NoUVIR Research

Power 32 eyeballs from one fiber-optic lighting projector. No UV. No IR ... NoUVIR!

- Stone-cold, pure-white light
 - Perfect color
 - Awesome control—zooms 50 to 5 degrees
 - Beautiful beam
 - Aims 30 degrees off-axis
 - Locks
 - Sealed
 - Absolutely no UV and no IR.
- Call (302) 628-9933. **CIRCLE 069**



Tech Lighting

Tech Lighting Antique Bronze MonoRail: integrate a modern system into a traditional interior. Design a system with your own personal style in mind by selecting from a vast range of product options. Available fixtures include decorative pendants and architectural heads, each one available with a host of colors, or with accessory options. (847) 410-4400. www.techlighting.com. Visit us at Lightfair booth #1719. **CIRCLE 080**



OCL

The Westport is a new decorative pendant from OCL. It is available with a number of painted finishes, as well as colored prismatic diffusers. The Westport adds a contemporary flare to the classic high-bay fixture. Perfect for schools, offices, retail stores, and restaurants. **CIRCLE 074**



THHC Lighting

The new 120V Xelogen Series line-voltage lamps in E11 mini-can, E12 candelabra, and BA15D double-contact bayonet bases provide compact appearance without the requirement of a low-voltage transformer. Available in 35W, 50W, and 75W with clear and frosted finishes. Lamp color temperature is 2900K with an average life of 5,000 hours. 120V Xelogen do not emit UV rays, and can be utilized in open fixtures. Visit www.xelogen.com or call 877-Xelogen. Find us at Lightfair booth #1248. **CIRCLE 081**



Prudential Lighting

Powerful and affordable, the Mega Cove eliminates the need for supplemental light sources, especially when your challenge is to light an expansive vaulted space. Two lamps featuring dual high-performance cove optics are staggered to create a full 6-inch overlap, virtually eliminating socket shadows. For more on how Mega Cove performance can satisfy your requirements, visit www.prulite.com. **CIRCLE 075**



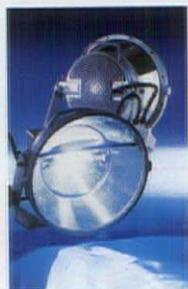
Traxon

Traxon USA presents Mood Light, an award-winning line featuring the latest products and concepts in visually exciting, color-changing LED lighting solutions. Mood Light is ideal for commercial design applications in hospitality, entertainment, display, healthcare, and residential projects, wherever attractive, exciting, or calming lighting is desired. **CIRCLE 083**



Selux

SILL Power Spot Floodlights: This extremely compact floodlight was designed around 1000/2000W TS double-ended tubular metal halide lamps, which offer excellent directional light with little scatter and precise color rendering. The Power Spot 003 is appropriate for any outdoor or indoor large-area lighting situations. Also comes configured with integral snoot shade (Power Spot 005) for glare-free illumination of buildings and other tall vertical structures. **CIRCLE 076**



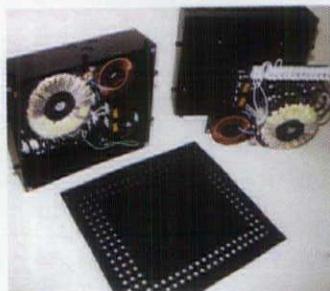
Vossloh-Schwabe

The new CFL electronic ballasts from Vossloh-Schwabe offer the versatility to operate multiple lamp types of various wattages: 26W, 32W, 42W, 57W, and 70W. These multi-watt and multi-lamp models can also vary the number of lamps operated (i.e., one or two lamps), reducing the required amount of ballast types. **CIRCLE 086**



Semper-Fi

Semper Fi Power Supply manufactures UL-listed indoor and outdoor remote transformers that ensure no noise, no maintenance, and full light output. Indoor units can be recessed into an insulated wall with up to eight transformers in an enclosure. Outdoor transformers include above-grade stainless or DIRECT burial. **CIRCLE 077**



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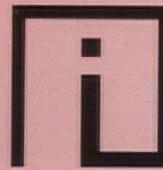
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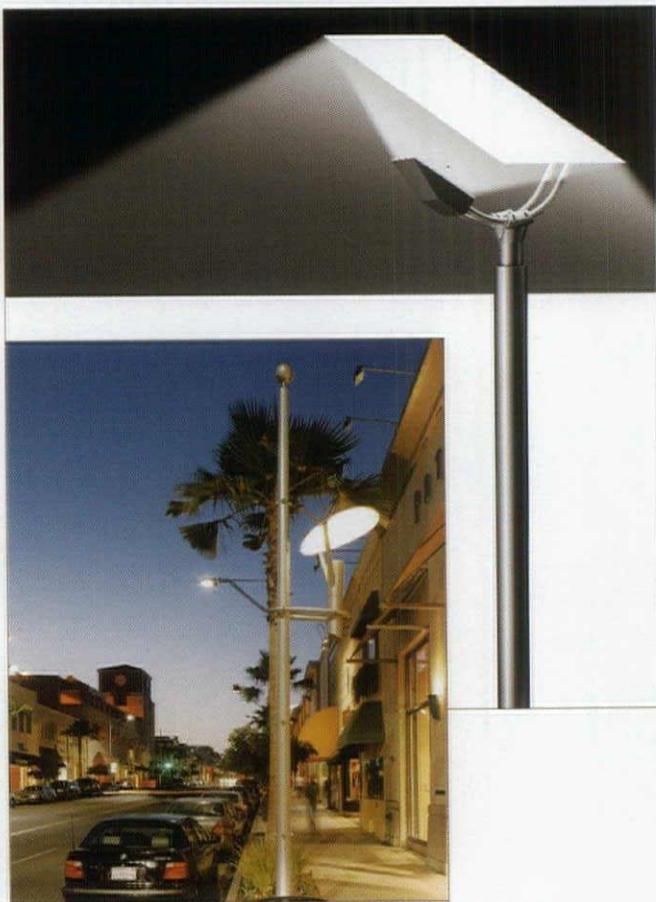
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Trendy Luminaires

Architectural Lighting magazine is in a unique position to monitor trends in the industry. With the volume of new product releases that travel across our desks (more than 250 were submitted for this product issue alone), with the variety of trade shows we attend both nationally and internationally, and given the indus-

try communication in which we are privileged to be included, the A|L editors have, if not a scientific, at least an intuitive sense of where R&D energy is being directed. Here is a sampling of a few product development themes that caught our eye over the last year.



TOPPING OFF: OUTDOOR LUMINAIRES GET FANCY

In six months, the number of new pole-top luminaires that combine design aesthetics with energy efficiency and dark skies awareness has been notable. The fixtures are likely a response to stringent code requirements regarding light spill and dark skies legislation. Top to bottom: pole-mounted luminaire from Bega/US (page 67) and Selux's Ritorno fixture for the Beverly Hills Business Triangle.

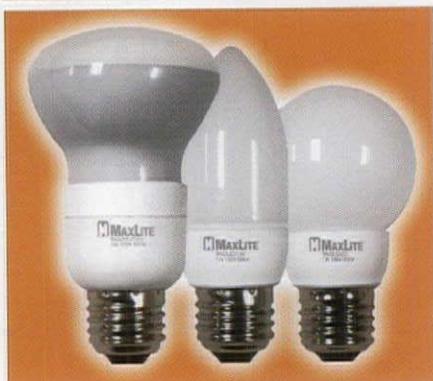


BEND ME, SHAPE ME

Decorative luminaires—like the pressed silicone Birzi table lamp from Luceplan (page 36) and Rotaliana's Honey with reconfigurable polycarbonate shade (page 44)—are featuring new materials that enable a user to interact with his or her fixture and to adapt the luminaire to décor changes.

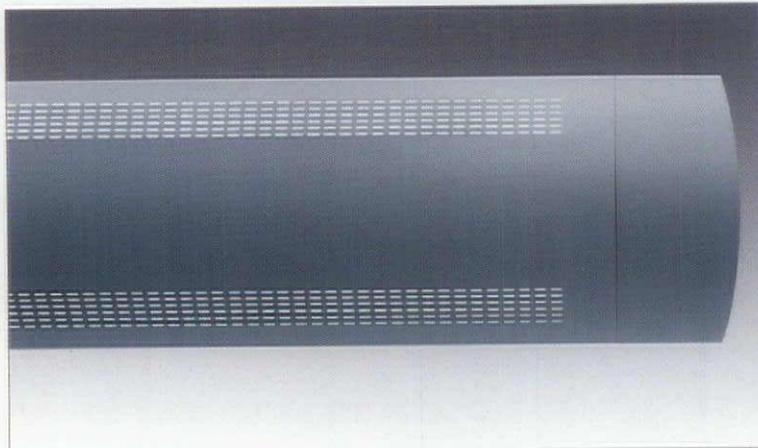
LEDs RELATE TO THE MASSES

LEDs flooded Lightfair last year. (Of the 222 New Product Showcase entries, 50 were LED-related products.) This year, LED-based products seem to be reaching out to the populous, in forms and with capabilities that even the layman can understand and find a use for. New options in white LEDs, and in shapes we are all comforted by—the MR16, the R20, the G19—are sure to bring LED technology down to everyone's level. Top to bottom: Color Kinetics iW MR (page 79) and Maxlite PAR series (page 80).

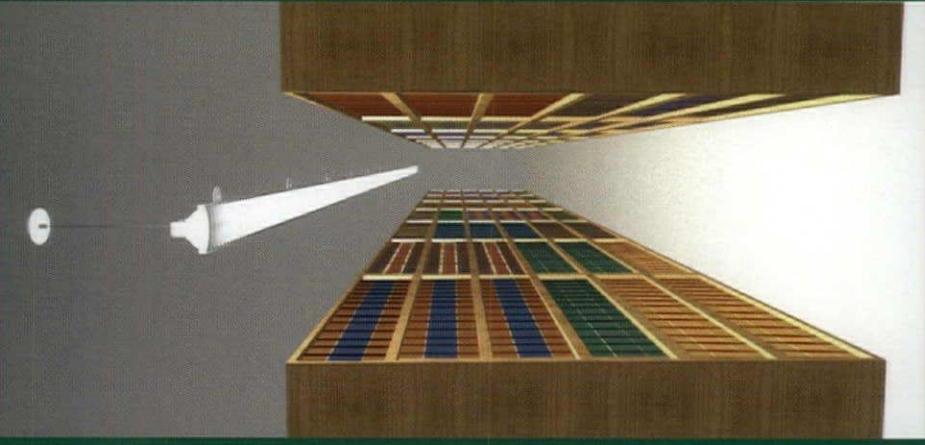
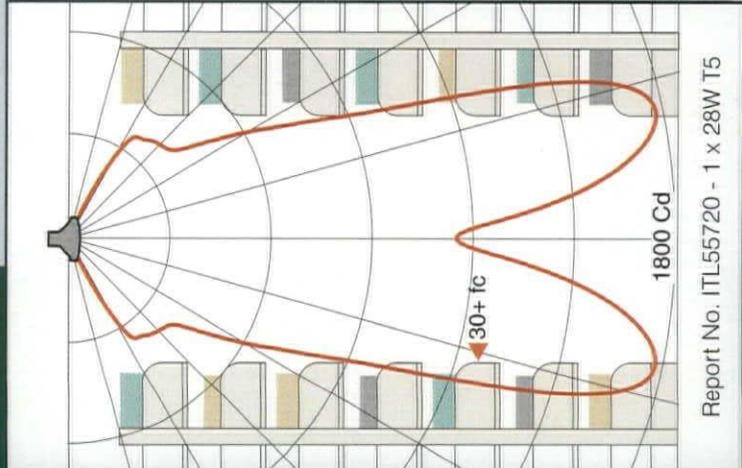


CONTROL FREAKS

The quest for increased control over our environment, as well as the impact daylighting promises to have on design, has significantly influenced manufacturers' approach to new lighting systems. Company's like Zumtobel are incorporating increased control into their product lines. Its Ethos and Spheros luminaires now have an integral daylight/occupancy sensor option (page 75).



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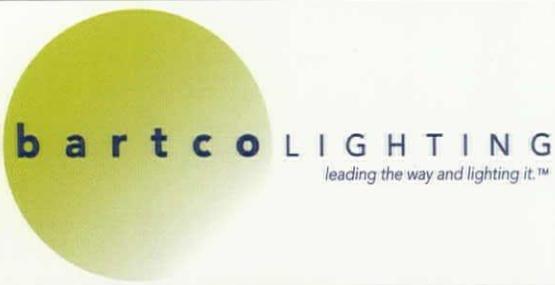
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